1	BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2	FLORIDA POWER & LIGHT COMPANY
3	REBUTTAL TESTIMONY OF ROBERT B. HEVERT
4	DOCKET NO. 160021-EI
5	AUGUST 1, 2016
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#### I. INTRODUCTION AND PURPOSE

- 2 Q. Please state your name, affiliation and business address.
- 3 A. My name is Robert B. Hevert. I am a Partner with ScottMadden, Inc.
- 4 ("ScottMadden"), and my business address is 1900 West Park Drive, Suite 250,
- 5 Westborough, MA 01581.

- 6 Q. Are you the same Robert B. Hevert who previously provided Direct
- 7 Testimony in this proceeding?
- 8 A. Yes. At the time my Direct Testimony was filed, I was Managing Partner of
- 9 Sussex Economic Advisors, LLC ("Sussex"). Effective June 1, 2016 Sussex
- became part of ScottMadden, and I assumed my current position as Partner.
- 11 Q. What is the purpose of your Rebuttal Testimony?
- 12 A. The purpose of my Rebuttal Testimony is to respond to the direct testimonies of:
- 13 (1) Dr. J. Randall Woolridge on behalf of Florida Office of Public Counsel
- 14 ("OPC"); (2) Mr. Michael Gorman on behalf of the Federal Executive Agencies
- 15 ("FEA"); (3) Mr. Richard A. Baudino on behalf of the South Florida Hospital and
- Health Care Association ("SFHHA"); (4) Mr. Steve Chriss on behalf of Wal-Mart
- 17 Stores East, LP and Sam's East, Inc. ("Wal-Mart"); (5) Mr. Michael Brosch on
- behalf of AARP; (6) Mr. Jeffry Pollock on behalf of the Florida Industrial Power
- 19 Users Group ("FIPUG") (referred to herein, collectively, as the "opposing ROE
- witnesses"); (7) Mr. Kevin W. O'Donnell on behalf of OPC; and (8) Mr. Daniel
- Lawton on behalf of OPC, as their testimonies relate to the Company's Return on
- Equity ("ROE") or capital structure.

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### 2 Q. Have you prepared any Rebuttal Exhibits?

- 3 A. Yes. My analyses and conclusions are supported by the data presented in Exhibits
  4 RBH-11 through RBH-44, which have been prepared by me or under my direct
  5 supervision.
- Q. What are your conclusions regarding the appropriate Cost of Equity and
   capital structure for FPL?
- A. In my Direct Testimony I recommended an ROE of 11.00 percent, within a range
  of 10.50 percent to 11.50 percent. As my Direct Testimony discussed, my ROE
  recommendation and the analytical results on which it is based consider a variety
  of factors, including certain risks faced by FPL such as vulnerability to severe
  weather conditions, exposure to new regulatory requirements associated with
  nuclear generation, and the risk of adverse capital market changes during the
  pendency of the Company's proposed four-year rate plan.

Because the application of financial models and the interpretation of their results are often sources of disagreement among analysts in regulatory proceedings, I believe it is important to review and consider a variety of data points; doing so enables us to put in context both quantitative analyses and the associated recommendations. As such, I have updated many of the analyses contained in my Direct Testimony, and I have provided several new analyses in response to issues raised by the opposing ROE witnesses. As discussed throughout the balance of

1		my Rebuttal Testimony, those analyses continue to support my ROE range and	
2		recommendation.	
3			
4		As to the capital structure, I continue to recommend the Company's existing	
5		capital structure of 40.40 percent long-term debt and 59.60 percent common	
6		equity. I further conclude that the Company's capital structure is within the range	
7		of equity ratios used by its peers, is consistent with rating agency criteria, and	
8		therefore, is reasonable.	
9	Q.	Please now provide an overview of your response to the ROE	
10	recommendations made by the opposing ROE witnesses.		
11	A.	It is important to keep in mind that no one financial model is more reliable than	
12		others at all times and under all market conditions; at times, certain model results	
13		simply do not make sense. Determining the Cost of Equity therefore is not	
14		always a strict mathematical exercise. Rather, it requires reasoned judgment in	
15		vetting the models and assumptions used by various analysts, and in assessing the	
16		reasonableness of their recommendations. That judgment may lead to the	
17		conclusion that the emphasis applied to a particular method in a prior proceeding	
18		or under prior market conditions is not appropriate in the current instance.	
19			
20		The opposing ROE witnesses have given considerable weight to a single method -	
21		the Discounted Cash Flow ("DCF") approach – even though their models produce	
22		ROE estimates that are 100 basis points, and more, below the returns authorized	

for other electric utilities.1 Given their dependence on a method that produces
unduly low estimates, it is not surprising that their recommendations fall within a
range that is far below the returns authorized for electric utilities in other
jurisdictions.

The fact that the opposing ROE witnesses' recommendations are similar does not mean that their approaches are appropriate or that their conclusions are sound. For the reasons discussed throughout the balance of my Rebuttal Testimony, it is my view that, if adopted, the opposing ROE witnesses' recommendations would increase the Company's regulatory and financial risk, diminish its ability to compete for capital, and have the counter-productive effect of increasing FPL's overall cost of capital, ultimately to the detriment of its customers.

- Q. Please now provide an overview of your response to the ROE recommendations made by the opposing ROE witnesses.
  - A. Although there are many areas in which I disagree with their methods and conclusions, there are certain issues that commonly serve to reduce the opposing ROE witnesses' recommendations:
    - Application of Discounted Cash Flow methods. As a general matter, DCF based methods define the Cost of Equity as the discount rate that sets the current market price of a stock equal to the present value of the cash flows expected from owning that stock. In calculating expected cash flows, the

Direct Testimony of J. Randall Woolridge, at 53 and Exhibit JRW-10, at 1. Direct Testimony of Michael P. Gorman, at 31, 33, Exhibit MPG-6 and Exhibit MPG-9. Direct Testimony of Richard A. Baudino, at 33 and Exhibit No.\_\_\_(RAB-7).

opposing ROE witnesses rely on growth rates that are inappropriately low, or that are constrained by what they may consider to be "sustainable" levels of perpetual growth. Regardless of how they develop their models, DCF estimates as low as 8.15 percent<sup>2</sup> fail to meet the *Hope* and *Bluefield* "end result" standard, and should be given no weight in determining the Company's ROE.

- Application of Risk Premium Models. Risk Premium methods are based on the financial principle that equity investors assume greater risk than do debt investors and, therefore, require higher returns. The measure of that incremental return is the "Equity Risk Premium," or the difference between the required return on debt and the required Return on Equity. It is important to recognize that the Equity Risk Premium is not constant over time. Rather, as interest rates fall, the Equity Risk Premium increases, even when we consider additional measures of market risk. By not properly reflecting that well-documented relationship, certain of the opposing ROE witnesses have under-estimated FPL's Cost of Equity.
- Application of the Capital Asset Pricing Model ("CAPM"). The CAPM, which also is a risk premium-based method, assumes that investors must be compensated for the time value of money, and for taking on additional risk. The time value of money is measured by long-term Treasury yields; compensation for additional risk is measured by the stock's Beta coefficient and the expected Market Risk Premium ("MRP"). The Market Risk Premium,

Direct Testimony of Richard A. Baudino, at 41, and Exhibit RAB-7.

1		which weighs heavily in CAPM estimates, reflects the additional return that
2		investors expect to receive by investing in the market as a whole over the
3		return they would receive by investing only in long-term Treasury bonds.
4		Certain of the opposing ROE witnesses have developed MRP estimates based
5		on historical market returns and interest rates, and have assumed relationships
6		between those two variables that do not reasonably reflect current or expected
7		market conditions. As a result, their ROE estimates are unreasonably low.
8		• Assessment of the Company's relative risk. Determination of required ROE is
9		a risk-comparable exercise. The opposing ROE witnesses do not fully
10		consider the range of business risks and other factors when determining where
11		FPL's required ROE falls within the range of analytical results. <sup>3</sup>
12		
13		On balance, and after considering the issues summarized above, I have
14		maintained the recommendations contained in my Direct Testimony.
15	Q.	How is the remainder of your Rebuttal Testimony organized?
16	A.	The remainder of my Rebuttal Testimony is organized as follows:
17		• <u>Section II</u> – Contains my response to OPC witness Woolridge;
18		• <u>Section III</u> – Contains my response to FEA witness Gorman;
19		• Section IV – Contains my response to SFHHA witness Baudino;

• <u>Section V</u> – Contains my response to Wal-Mart witness Chriss;

See, Direct Testimony and Exhibits of Robert B. Hevert, at 37-50.

1		• <u>Section VI</u> – Contains my response to AARP witness Brosch and FIPUG
2		witness Pollock;
3		• <u>Section VII</u> – Contains my response to OPC witness O'Donnell regarding
4		the Company's capital structure;
5		• <u>Section VIII</u> – Contains my response to OPC witness Lawton regarding
6		the Company's financial integrity;
7		• <u>Section IX</u> – Summarizes my updated analyses; and
8		• <u>Section X</u> – Summarizes my conclusions and recommendations.
9	II.	RESPONSE TO THE TESTIMONY OF OPC WITNESS WOOLRIDGE
10	Q.	Please provide a brief summary of Dr. Woolridge's testimony and ROE
11		recommendation.
12	A.	Dr. Woolridge recommends an ROE of 8.75 percent, which is near the upper end
13		of his DCF and CAPM results. Dr. Woolridge makes clear, however, that his
14		recommendation relies primarily on his Constant Growth DCF model results. <sup>4</sup>
15	Q.	What are the principal areas of disagreement between you and Dr.
16		Woolridge?
17	A.	There are several areas in which I disagree with Dr. Woolridge. In general, those
18		areas include: (1) the composition and selection of the proxy group companies;
19		(2) the growth rates applied in the Constant Growth DCF model; (3) the
20		application of the Multi-Stage DCF model; (4) the application of the CAPM; (5)
	4	Direct Testimony of J. Randall Woolridge, at 63.

1		the reasonableness of the Bond Yield Plus Risk Premium analysis; (6) the
2		relevance of Market-to-Book ("M/B") ratios in excess of unity; (7) the relevance
3		of flotation costs in determining the Company's Cost of Equity; and (8) the
4		business risk of FPL relative to the proxy group. In addition, I disagree with Dr.
5		Woolridge's presentation and interpretation of certain data relating to capital
6		market conditions.
7		
8		Regardless of how he arrived at his recommendation, it is very difficult to
9		reconcile an ROE of 8.75 percent with past, current, and expected market
10		environments.
11	A. P	roxy Group Selection
12	Q.	Please describe the screening criteria by which Dr. Woolridge developed his
12 13	Q.	Please describe the screening criteria by which Dr. Woolridge developed his Proxy Group.
	<b>Q.</b> A.	
13		Proxy Group.
13 14		Proxy Group.  Dr. Woolridge relied on six screening criteria to develop his sample of 29
<ul><li>13</li><li>14</li><li>15</li></ul>		Proxy Group.  Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies:
13 14 15 16		Proxy Group.  Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies:  1. Proxy companies must derive at least 50.00 percent of revenues from
13 14 15 16 17		<ul> <li>Proxy Group.</li> <li>Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies:</li> <li>1. Proxy companies must derive at least 50.00 percent of revenues from regulated electric operations;</li> </ul>
13 14 15 16 17		<ul> <li>Proxy Group.</li> <li>Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies:</li> <li>1. Proxy companies must derive at least 50.00 percent of revenues from regulated electric operations;</li> <li>2. Each company selected must be listed as an Electric Utility by Value Line</li> </ul>
13 14 15 16 17 18		<ul> <li>Proxy Group.</li> <li>Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies: <ol> <li>Proxy companies must derive at least 50.00 percent of revenues from regulated electric operations;</li> <li>Each company selected must be listed as an Electric Utility by Value Line and as an Electric Utility or Combination Electric and Gas company by</li> </ol> </li> </ul>
13 14 15 16 17 18 19 20		<ul> <li>Proxy Group.</li> <li>Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies:</li> <li>1. Proxy companies must derive at least 50.00 percent of revenues from regulated electric operations;</li> <li>2. Each company selected must be listed as an Electric Utility by Value Line and as an Electric Utility or Combination Electric and Gas company by AUS Utilities Reports;</li> </ul>

- 5. Each company must not be involved in an acquisition, or be the target of an acquisition in the past six months; and
- 6. Proxy companies must have long-term Earnings Per Share ("EPS") growth forecasts available from Yahoo!, Reuters, or Zacks.<sup>5</sup>

#### 5 Q. Do you agree with Dr. Woolridge's screening criteria?

- A. Not entirely. Although we do have certain criteria in common (for example we both exclude companies that are party to a significant corporate transaction<sup>6</sup> or that do not consistently pay dividends), I do not believe that Dr. Woolridge's screens render a group of companies that is sufficiently comparable to FPL.
- 10 Q. Do any of Dr. Woolridge's proxy companies fail his proxy group screening criteria?
- I believe so. Dr. Woolridge included in his proxy group Dominion Resources,
  Inc. ("Dominion"), Black Hills Corporation ("Black Hills"), Duke Energy
  Corporation ("Duke"), and Southern Company ("Southern"), all of which are
  party to significant acquisitions: Dominion announced its proposed acquisition of
  Questar Corporation on February 1, 2016; Black Hills acquired SourceGas
  Holdings LLC on February 12, 2016; Duke announced its proposed acquisition
  of Piedmont Natural Gas Company, Inc. on October 26, 2015; and Southern

Direct Testimony of J. Randall Woolridge, at 28.

Subsequent to the filing of my Direct Testimony, Dominion Resources, Inc. entered into an agreement to acquire Questar Corp. on February 1, 2015 and Great Plains Energy Inc. entered into an agreement to acquire Westar Energy Inc. on May 29, 2016.

Dominion Resources, Inc., SEC Form 8-K, January 31, 2016.

Black Hills Corporation, SEC Form 8-K, July 12, 2015.

Duke Energy Corporation, SEC Form 8-K, October 24, 2015.

1	completed its acquisition of AGL Resources Inc. on July 1, 2016. <sup>10</sup> As such
2	those companies should be removed from the proxy group.

#### 3 Q. What is your concern with Dr. Woolridge's use of revenue, rather than 4 income, as a screening criterion?

Measures of income are far more likely to be considered by the financial community in making credit assessments and investment decisions than are measures of revenue. From the perspective of credit markets, measures of financial strength and liquidity are focused on cash from operations, which is directly derivative of earnings, as opposed to revenue. For example, Moody's assigns a 40.00 percent weight to measures of financial strength and liquidity, of which 32.50 percent specifically relates to the ability to cover debt obligations with cash from operations.<sup>11</sup>

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Just as rating agencies focus on measures of cash from operations, equity investors prefer measures of income in assessing equity valuation levels; common measures of relative equity valuation include the Price/Earnings ratio, and the ratio of Enterprise Value/EBITDA (Earnings Before Interest, Taxes, Revenue, however, may be several steps Depreciation, and Amortization). removed from the earnings and cash flows that that are the basis of equity valuations. Energy trading and marketing units, for example, often represent high

<sup>10</sup> Southern Company, SEC Form 8-K, August 23, 2015.

<sup>11</sup> See, Moody's Investors Service, Rating Methodology, Regulated Electric and Gas Utilities, December 23, 2013, at 10-14. I address the ratings process in more detail in my response to Mr. Lawton.

revenue but low margin operations. Those operations may generate a comparatively large proportion of the combined entity's revenue, but only a small percentage of its income. In such cases, focusing on revenue may mislead the analyst into assuming that a given operating unit is the primary driver of expected growth, when other business segments create the majority of earnings and cash flows. Here, we are considering whether the underlying utility is the principal source of long-term growth and as such, it could be misleading to focus on revenue rather than earnings for the purpose of identifying proxy companies.

A.

### Q. Have you made any changes to the proxy group used in your ROE analyses?

Yes, I have. Although I believe my proxy group reasonably reflects FPL's risk, I also recognize that in certain circumstances it is possible to have reasonable disagreements as to the definition and application of screening criteria. Consequently, I have developed a proxy group that contains all the companies used by Dr. Woolridge, Mr. Gorman, Mr. Baudino, and me in this proceeding, but for companies that: (1) have recently been party to mergers or significant transactions; (2) that do not have regulated generation assets; or (3) are affected by significant ongoing uncertainties that may be affecting their market data and investors' expectations of their future performance (I refer to that group as the "Combined Proxy Group"). Exhibit RBH-19 provides a comparison of the various proxy groups used by ROE witnesses in this proceeding and explains the reason certain companies were excluded from the Combined Proxy Group. As discussed in Section IX, the Cost of Equity estimates derived from the Combined Proxy Group support my ROE recommendation.

#### B. Application of the Constant Growth DCF Approach

2	Q.	Please summarize your concerns with the Constant Growth DCF model and
3		Dr. Woolridge's application of the model.

There are several aspects of Dr. Woolridge's DCF analyses and conclusions that are incompatible with market conditions, and inconsistent with the practical interpretation of the models' results. For example, the market data used in Dr. Woolridge's DCF analyses conflict with the models' underlying assumptions. In particular, the market prices used to calculate the dividend yield were taken from a period during which utilities in general, and the proxy companies in particular, traded at unusually high, and likely unsustainable, levels. In fact, during Dr. Woolridge's study period, utility Price/Earnings ("P/E") ratios exceeded their long-term average, and were similar to the market P/E ratio (as measured by the S&P 500). The elevated P/E ratios are an important factor simply because the Constant Growth DCF model assumes constant P/E ratios in perpetuity. Consequently, the basis of Dr. Woolridge's recommendation – the Constant Growth DCF model – assumes data that are inconsistent with the model's fundamental assumptions.

A.

Lastly, Dr. Woolridge's application of the Constant Growth DCF model includes a degree of subjectivity that prevents us from replicating his results. It is quite likely that analysts looking at the same data would come to different conclusions. For example, based on his review of historical and projected dividend, book

Source: SNL Financial, Bloomberg Professional.

value, earnings and "sustainable" growth rates, Dr. Woolridge assumes a growth
rate of 4.88 percent for the companies in his proxy group, although it is unclear
how he calculates that estimate. Moreover, Dr. Woolridge's judgment is to give
"primary weight" to growth rate projections produced by equity analysts, despite
his position that those analysts knowingly and persistently produce biased
forecasts.

# 7 Q. What growth rates did Dr. Woolridge review in his Constant Growth DCF

8 analysis?

A.

Dr. Woolridge reviewed a number of growth rates, including historical and projected Dividends Per Share ("DPS"), Book Value Per Share ("BVPS"), and EPS growth rates as reported by Value Line; analysts' consensus EPS growth rate projections from Yahoo!, Reuters, and Zacks; and an estimate of "sustainable growth" derived from data provided by Value Line. Dr. Woolridge states that in arriving at his 8.75 percent DCF estimate, he gave more weight to projected EPS growth rates.<sup>14</sup>

Direct Testimony of J. Randall Woolridge, at 52.

See, Direct Testimony of J. Randall Woolridge, at 52.

Table 1: Summary of Dr. Woolridge's Growth Rate Estimates<sup>15</sup>

	Dr. Woolridge's Proxy Group
Value Line Historical Growth Rates (DPS, BVPS, EPS)	4.30%
Value Line Projected Growth Rates (DPS, BVPS, EPS)	4.80%
Sustainable Growth	3.90%
Analyst Projected EPS Growth Rates (excl. Value Line) – Mean/Median	4.80%/5.00%
Dr. Woolridge's Assumed DCF Growth Rate	4.88%

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### 3 Q. Do you agree with Dr. Woolridge's sustainable growth rate estimate?

- A. No, I do not. As discussed in more detail in my response to Mr. Baudino, the "sustainable growth" rate does not account for externally generated funds associated with issuances of new equity.
- Q. Are there reasons to doubt the results of a DCF analysis that uses the sustainable growth rate for electric utilities in particular?
- 9 A. Yes. As noted below, the projected realized Return on Common Equity for many 10 of the proxy companies is significantly diluted by recent or projected additions to 11 net plant. The assumption that the Cost of Equity would materially decrease as 12 capital investments increase, however, is contrary to market evidence.

See, Direct Testimony of J. Randall Woolridge, Exhibit JRW-10, at 1 and 6.

- 1 Q. Have you conducted any analyses to demonstrate how the proxy companies'
- 2 earned ROE projections are diluted by ongoing capital expenditures?
- 3 Yes, I have. As discussed in my Direct Testimony, I analyzed Value Line's A. 4 earned ROE projections using the "DuPont" formula, which decomposes the 5 Return on Common Equity into three components: (1) the Profit Margin (net income/revenues); (2) Asset Turnover (revenues/net plant); and (3) the Equity 6 7 Multiplier (net plant/equity). That analysis (see Exhibit RBH-8) showed that 8 because the utility industry is going through a period of increased capital 9 investment, the lag between the addition of net plant and revenue generated by 10 those investments dilute the Asset Turnover ratio, at least in the near term. In the 11 context of the sustainable growth model, the pressure on earned ROE would lead 12 to the counter-intuitive conclusion that increased capital investments lead to 13 decreased return requirements.
- 14 Q. Do Dr. Woolridge's analyses account for abnormally elevated P/E ratios?
- 15 A. Not on a consistent basis. As discussed throughout my Rebuttal Testimony, DCF16 based methods, such as the Constant Growth model on which Dr. Woolridge (and
  17 the other opposing witnesses) relies, depend on recent stock prices as a principal
  18 input, and (in the case of the Constant Growth model) assume that Price/Earnings
  19 ratios, and resulting Cost of Equity will remain constant in perpetuity. As noted

Direct Testimony of Robert B. Hevert, at 40.

1		above, an important analytical issue is that utility sector P/E ratios recently have
2		been unstable and recently have been moved well above their historical levels. 17
3		
4		To support his Capital Asset Pricing Model analysis, Dr. Woolridge refers to
5		"Building Block" approaches as part of the studies he uses to estimate the Market
6		Risk Premium (see Exhibit JRW-11, pages 5 and 6). Among the "Building
7		Block" studies included in that review are those produced by Ibbotson and Chen.
8		The Morningstar 2015 Classic Yearbook also discusses the "Building Block"
9		model. <sup>18</sup> In that discussion, Morningstar reviews the effect of increasing P/E ratios
10		on the market return, and concludes that "reported earnings are affected not only
11		by the long-term productivity, but also by 'one-time' items that do not necessarily
12		have the same consistent impact year after year." Morningstar therefore uses
13		three-year average P/E ratios to develop its Supply-Side market return estimate.
14		
15		Dr. Woolridge therefore recognized and adjusted his analyses to reflect the
16		abnormal expansion in P/E ratios in his Building Blocks calculation, but did not
17		acknowledge the same principle in his DCF analysis. That is, Dr. Woolridge
18		relies on an analysis that adjusts abnormally high P/E ratios in a manner that
19		reduces his CAPM estimate (the Building Blocks approach to developing the
	17	Since the beginning of 2000, the long-term average P/E ratio for Dr. Woolridge's proxy group was 17.08. The 30-day average P/E ratio for the period ending June 2016 was 21.63 for Dr. Woolridge's proxy group. Source: SNL Financial. Looking forward, indicators suggest that the

Woolridge's proxy group. Source: SNL Financial. Looking forward, indicators suggest that the industry's current valuation levels may not persist. Value Line, for example, expects a decline in the P/E ratio for all of the companies in Dr. Woolridge's proxy group over the coming three to five years (*see*, Exhibit RBH-20).

Morningstar refers to the method as the "Supply Side" approach.

Morningstar, Inc., 2015 Classic Yearbook, at 157.

Equity Risk Premium), 20 and at the same time relies on DCF estimates that do not
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recognize or adjust for the abnormal expansion in P/E ratios for his proxy

3 companies.

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## 4 Q. Please summarize Dr. Woolridge's reference to a March 2015 report by

Moody's regarding the effect of ROEs on utilities' near-term credit profiles.

6 A. Dr. Woolridge points to the article and concludes (among other things) that lower

authorized ROEs are not impairing utilities' credit profiles, and are not "deterring"

them from raising record amounts of capital."<sup>21</sup> Dr. Woolridge further states that

the Moody's article "supports the prevailing/emerging belief that lower

authorized ROEs are unlikely to hurt the financial integrity of utilities or their

ability to attract capital."<sup>22</sup>

## 12 Q. What is your response to Dr. Woolridge in that regard?

13 A. The Moody's article makes clear that utilities' cash flow have benefited from

increased deferred taxes, which are due to bonus depreciation. As Moody's

noted, the rise in deferred taxes eventually will reverse.<sup>23</sup> That may be one reason

that the Moody's study refers to "near-term credit profiles"; in the longer-term,

utilities will not have the benefits of bonus depreciation to offset lower authorized

returns.

See, Direct Testimony of J. Randall Woolridge, Exhibit JRW-11, at 5-6 and Morningstar, Inc., 2015 Classic Yearbook, at 157.

Direct Testimony of J. Randall Woolridge, at 66.

<sup>22</sup> Ibid.

Moody's Investors Service, Lower Authorized Returns Will Not Hurt Near-Term Credit Profiles, March 10, 2015, at 4.

Moody's also observed that although interest rates remain at relatively low levels, they "will go up, eventually." When they do, Moody's warns, "this could spell trouble for utilities." Moody's concludes, "[f]or now, utilities can enjoy their (historically) high equity valuations in terms of dividend yield and price-earnings ratios."24 That is, in March 2015, Moody's observed that the then-current valuations were unusual, and that some degree of reversion toward long-term means was likely. For the electric utility sector, that was the case, as the S&P Electric Utility Index P/E ratio fell from 18.09 on February 1, 2015 to 15.40 on July 1, 2015.<sup>25</sup> That observation is consistent with a point made earlier in my Rebuttal Testimony: unusually high P/E ratios are unlikely to persist and, therefore, Dr. Woolridge's approach of giving primary weight to his Constant Growth DCF estimates should be viewed with considerable caution.

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Dr. Woolridge further argues that the Moody's article supports the notion that elevated P/E ratios are a result of cost recovery mechanisms reducing utilities' risk.<sup>26</sup> As a preliminary matter, neither the article nor Dr. Woolridge provides any evidence or analysis to support the basis for the claim that cost recovery mechanisms have led to higher P/E multiples. To be clear, Moody's does not state that the cause of higher P/E multiples is cost recovery mechanisms. As stated in my Direct Testimony, the Federal Reserve's monetary policy actions intentionally lowered long-term interest rates (another of the factors cited in the

<sup>24</sup> 

Moody's Investors Service, Lower Authorized Returns Will Not Hurt Near-Term Credit Profiles, March 10, 2015, at 5.

<sup>25</sup> Source: Bloomberg Professional. Represents 30-day moving average.

Direct Testimony of J. Randall Woolridge, at 75-76.

1	Moody's article) and have affected utility P/E ratios. <sup>27</sup> In any case, as noted
2	above, electric utility P/E ratios declined by nearly 15.00 percent shortly after the
3	Moody's article was published.

Nonetheless, if Dr. Woolridge is concerned that recovery mechanisms have supported, and will continue to support, elevated P/E ratios, one method of addressing that position is to assume that the terminal value in the Multi-Stage DCF analysis is calculated on the basis of current P/E ratios. As discussed later in my Rebuttal Testimony, I therefore included the current 30-day average proxy group P/E ratio in the updated Multi-Stage DCF results.<sup>28</sup>

**O**.

A.

# Q. Do you have any concerns with Dr. Woolridge's belief that analysts' projections are consistently biased?

Yes, I do. Dr. Woolridge asserts that there is an upward bias in analysts' growth estimates and as such, "the DCF growth rate needs to be adjusted downward from the projected EPS growth rate." Dr. Woolridge argues that analysts' earnings growth estimates are "overly optimistic and upwardly biased," and that relying on such estimates is a methodological error. His position, however, is based on observations with respect to the broad market; Dr. Woolridge has provided no evidence that any of the growth rates used in our respective DCF analyses are the result of a consistent and pervasive bias on the part of the analysts providing those

Direct Testimony of Robert B. Hevert, at 55.

Exhibit RBH-14.

Direct Testimony of J. Randall Woolridge, at 50.

*Ibid.*, at 49.

projections. Despite his view that they are biased, Dr. Woolridge states that it
was by "giving primary weight to the projected EPS growth rate of Wall Street
analysts" that he arrived at his assumed growth rates.<sup>31</sup>

#### Q. What is your response to Dr. Woolridge in that regard?

There is no reason to believe that the analyst growth rates used in our respective DCF analyses are biased. As a practical matter, the October 2003 Global Research Analyst Settlement required financial institutions to insulate investment banking from analysis, prohibited analysts from participating in "road shows," and required the settling financial institutions to fund independent third-party research.<sup>32</sup> I have reviewed the Letters of Acceptance, Waiver and Consent signed by financial institutions that were party to the Global Settlement, and found no reference to misconduct by analysts following the utility sector.

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Pursuant to Regulation AC, which became effective in April 2003, analysts must certify that "...the views expressed in the report accurately reflect his or her personal views, and disclose whether or not the analyst received compensation or other payments in connection with his or her specific recommendations or views."<sup>33</sup> I understand that industry practice is to avoid conflicts of interest by ensuring that compensation is not directly or indirectly linked to the opinions

*Ibid.*, at 52.

The 2002 Global Financial Settlement resolved an investigation by the U.S. Securities and Exchange Commission and the New York Attorney General's Office of a number of investment banks related to concerns about conflicts of interest that might influence the independence of investment research provided by equity analysts.

Securities and Exchange Commission, 17 CFR PART 242 [Release Nos. 33-8193; 34-47384; File No. S7-30-02], RIN 3235-AI60 Regulation Analyst Certification.

1	contained in those reports. Dr. Woolridge has not explained why any of the
2	analysts covering our respective proxy companies would bias their projections in
3	light of those certification requirements, or why investors would be more inclined
4	to rely on his growth rate estimates than those of the analysts that base their
5	projections on fundamental company-specific research.

# 6 Q. Is the use of analysts' earnings growth projections in the DCF model 7 supported by financial literature?

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A. Yes, it is. The relationship between various growth rates and stock valuation metrics has been the subject of much academic research.<sup>34</sup> As noted over 40 years ago by Charles Phillips in <u>The Economics of Regulation</u>:

For many years, it was thought that investors bought utility stocks largely on the basis of dividends. More recently, however, studies indicate that the market is valuing utility stocks with reference to total per share earnings, so that the earnings-price ratio has assumed increased emphasis in rate cases.<sup>35</sup>

Subsequent academic research has clearly and consistently indicated that measures of earnings and cash flow are strongly related to returns, and that analysts' forecasts of growth are superior to other measures of growth in predicting stock prices.<sup>36</sup> For example, Vander Weide and Carleton state that, "[our] results ... are consistent with the hypothesis that investors use analysts' forecasts, rather than historically oriented growth calculations, in making stock

See, Harris, Robert, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).

Charles F. Phillips, Jr., The Economics of Regulation, at 285 (Rev. ed. 1969).

See, e.g., Christofi, Christofi, Lori and Moliver, Evaluating Common Stocks Using Value Line's Projected Cash Flows and Implied Growth Rate, Journal of Investing (Spring 1999); Harris and Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, Financial Management, 21 (Summer 1992); and Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).

buy-and-sell decisions." Other research specifically notes the importance of
analysts' growth estimates in determining the Cost of Equity, and in the valuation
of equity securities. Dr. Robert Harris noted that "a growing body of knowledge
shows that analysts' earnings forecast are indeed reflected in stock prices."38
Citing Cragg and Malkiel, Dr. Harris notes that those authors "found that the
evaluations of companies that analysts make are the sorts of ones on which
market valuation is based." <sup>39</sup> Similarly, Brigham, Shome, and Vinson noted that
"evidence in the current literature indicates that (i) analysts' forecasts are superior
to forecasts based solely on time series data; and (ii) investors do rely on analysts'
forecasts."40

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In addition to the studies presented above, there have been other peer reviewed, published articles that specifically support the use of analysts' earnings growth projections in the DCF model.<sup>41</sup>

<sup>37</sup> 

Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).

<sup>38</sup> Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).

<sup>39</sup> Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).

<sup>40</sup> Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, The Risk Premium Approach to Measuring a Utility's Cost of Equity, Financial Management (Spring 1985).

<sup>41</sup> See, for example, Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rates of Return, Financial Management, 1986; Robert S. Harris, Felicia C. Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, Financial Management, Summer 1992, at 63; and Advanced Research Center, Investor Growth Expectations, Summer, 2004.

1	Q.	Do you agree with Dr. Woolridge's assertion that "the DCF growth rate
2		needs to be adjusted downward from the projected EPS growth rate to
3		reflect the upward bias''? 42

A. No, I do not. First, if current stock prices (and therefore the dividend yield) already reflect analysts' bias, it is unclear why it is necessary to adjust the growth rate. In addition, although Dr. Woolridge asserts that "...long-term EPS growth rate forecasts of Wall Street securities analysts are overly optimistic and upwardly biased", in general, he has not demonstrated that to be true for the electric companies in our proxy groups, in particular. To that point, I reviewed quarterly earnings presentations for several of the companies in Dr. Woolridge's proxy group and found that if anything, the analysts' growth rate projections were toward the lower end of the long-term growth rate ranges provided by the companies' management teams (see Table 2, below). I therefore disagree that the earnings projections included in our respective analyses are likely to be systemically biased.

*Ibid.*. at 76-77.

Direct Testimony of J. Randall Woolridge, at 50.

#### Presentations<sup>44</sup>

Company	Ticker	Zacks Earnings Growth	First Call Earnings Growth	Value Line Earnings Growth	Investor Presentation Earnings Growth
Alliant Energy Corporation	LNT	6.10%	6.60%	6.00%	5.00% - 7.00%
Ameren Corporation	AEE	6.10%	5.20%	6.00%	5.00% - 8.00%
American Electric Power Company, Inc.	AEP	4.90%	4.10%	4.00%	4.00% - 6.00%
Avista Corporation	AVA	5.00%	5.00%	5.00%	4.00% - 5.00%
CMS Energy Corporation	CMS	6.40%	7.24%	6.00%	6.00% - 8.00%
Eversource Energy	ES	6.30%	5.49%	6.00%	5.00% - 7.00%
PNM Resources, Inc.	PNM	7.60%	8.76%	9.00%	7.00% - 9.00%
SCANA Corporation	SCG	5.30%	5.40%	4.50%	4.00% - 6.00%
Xcel Energy Inc.	XEL	5.30%	5.27%	5.50%	4.00% - 6.00%

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4 Q. Do you agree with Dr. Woolridge that dividend and book value growth rates

are appropriate measures of expected growth for the Constant Growth DCF

6 **model?**<sup>45</sup>

7 A. No, I do not. Earnings growth is the fundamental driver of the ability to pay

dividends. As noted in my Direct Testimony, to reduce growth to a single

measure we assume a fixed payout ratio, and a constant growth rate for EPS,

DPS, and BVPS. 46 Exhibit RBH-21 illustrates that under the strict assumptions of

the Constant Growth DCF model, earnings, dividends, book value, and stock

Source: Zacks, Yahoo Finance, Value Line, and individual company first quarter 2016 earnings presentations and investor presentations. *See*, also, Anup Agrawal and Mark A. Chen, *Do Analysts Conflicts Matter? Evidence from Stock Recommendations*, Journal of Law and Economics, August 2008, at 503-537.

See, Direct Testimony of J. Randall Woolridge, at 45.

See Direct Testimony of Robert B. Hevert, at 27-28.

prices all grow at the same, constant rate in perpetuity. Because earnings are the fundamental driver of dividends, and knowing that investors tend to value common equity on the basis of Price/Earnings ratios, the Cost of Equity is a function of the expected growth in earnings, not dividends. That is, earnings growth enables both dividend and book value growth. Book value can increase over time only through the addition of retained earnings, or with the issuance of new equity. Both of those factors are derivative of earnings: retained earnings increases with the amount of earnings not distributed as dividends; and the price at which new equity is issued is a function of the EPS and the then-current P/E ratio. Similarly, earnings are the fundamental driver of a company's ability to pay dividends.<sup>47</sup>

In addition, Value Line is the only service on which Dr. Woolridge relies that provides DPS, BVPS, or sustainable growth projections. To the extent that the earnings projections services such as Zacks and First Call represent consensus estimates, the results are less likely to be skewed in one direction or another as a result of an individual analyst.

See, Direct Testimony of Robert B. Hevert, at 27-28; and Jing Liu, Doron Nissim, and Jacob Thomas, *Is Cash Flow King in Valuations?*, Financial Analysts Journal, Volume 63, Number 2, 2007.

1 <b>Q. D</b> o	you	agree	with	Dr.	Woolridge	that	historical	growth	rates	are

appropriate measures of expected growth for the Constant Growth DCF

3 **model?**<sup>48</sup>

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4 A. No, I do not. The growth component of the Constant Growth DCF model is a 5 forward-looking measure. To the extent historical growth influences investors' expectations of future growth, it already will be reflected in analysts' consensus 6 7 earnings estimates. Carleton and Vander Weide, for example, found "overwhelming evidence that consensus analysts' forecast of future growth is 8 9 superior to historically oriented growth measures in predicting the firm's stock 10 price."49 Consequently, I do not believe that historical growth rates are

appropriate for the Constant Growth DCF model.

Q. Have you conducted any analyses to determine which measures of growth are statistically related to the proxy companies' stock valuation levels?

14 A. Yes, I have. My analysis is based on the methodological approach used by 15 Professors Carleton and Vander Weide, who compared the predictive capability of historical growth estimates and analysts' forecasts on the valuation levels of 16 sixty-five utility companies. 50 I structured the analysis to assess whether earnings, 17 18 dividend, book value, or sustainable growth rates best explain utility stock 19 valuations. In particular, my analysis examined the statistical relationship 20 between the P/E ratios of the companies included in Dr. Woolridge's proxy group,

See, Direct Testimony of J. Randall Woolridge, at 45.

Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).

James H. Vander Weide and Willard T. Carleton, *Investor Growth Expectations: Analysts vs. history*, The Journal of Portfolio Management, Spring 1988.

and the projected EPS, DPS, and BVPS reported by Value Line, and sustainable growth rate calculated using Value Line data. To determine which, if any, of those growth rates are statistically related to utility stock valuations, I performed a series of regression analyses in which the projected growth rates were explanatory variables and the P/E ratio was the dependent variable. The results of those analyses are presented in Table 3, below.

Table 3: Regression Results- Price to Earnings and Growth Rates<sup>51</sup>

	Intercept	Coefficient	Standard Error	T-Statistic	F-Statistic
Scenario 1- Projected EPS	13.736	34.462	15.108	2.281	5.203
Scenario 2- Projected DPS	16.778	-21.296	14.886	-1.431	2.047
Scenario 3- Projected BVPS	14.629	22.832	39.329	0.581	0.337
Scenario 4- BR+SV Sustainable Growth	15.138	11.442	40.453	0.283	0.080
Scenario 5- Projected EPS Projected DPS Projected BVPS BR+SV Sustainable Growth	15.283	41.198 -26.857 37.759 -50.037	17.400 14.974 42.387 44.299	2.368 -1.794 0.891 -1.130	2.454

In the first set of analyses (Scenarios 1-4), I considered each growth rate separately (*i.e.*, I performed four separate regressions with P/E as the dependent variable and projected EPS, DPS, BVPS and the sustainable growth rate, respectively, as the independent variable). I also performed a single regression analysis that included all five variables as potential explanatory variables

1	(Scenario 5).	I then r	eviewed	the T-	and	F-Statistics	to	determine	whether	the
2	variables and	equations	s were sta	atistical	ly sig	gnificant. 52				

#### Q. What did those analyses reveal?

- A. The only growth rate that was statistically significant was Earnings Per Share.

  Because the DCF Model assumes that the current market value is a function of

  expected growth and, given that EPS growth is the only growth rate that is

  statistically related to electric utility valuation, earnings, not dividends or book

  value, is the proper measure of growth in the Constant Growth DCF Model.
- 9 Q. Is it possible to replicate Dr. Woolridge's DCF analysis?
- 10 A. No. As noted above, Dr. Woolridge's analysis is based on his personal view as to
  11 what constitutes a reasonable long-term growth rate. Because different analysts
  12 may well come to different conclusions based on their review of his growth rate
  13 data, we cannot replicate Dr. Woolridge's analyses.
- Q. Do you have any concerns with the projected analysts' EPS growth rates relied on by Dr. Woolridge?
- 16 A. Yes. In determining his projected analysts' EPS growth rate, Dr. Woolridge
  17 includes negative growth projections. In doing so, Dr. Woolridge has implicitly
  18 assumed that investors would consider committing capital to a company that is
  19 expected to have negative growth, in perpetuity. As Exhibit RBH-23
  20 demonstrates, eliminating negative growth rates from Dr. Woolridge's DCF

In general, a T-Statistic of 2.00 or greater indicates that the variable is likely to be different than zero, or "statistically significant." The F-Statistic is used to determine whether the model as a whole has statistically significant predictive capability.

- analysis increases the mean projected EPS growth rate by 52 basis points.
- 2 However, given that Dr. Woolridge's 4.88 percent growth rate is based on his
- 3 personal judgment, it is difficult to say how removing negative growth rates
- 4 would affect his analyses and recommendation.

### 5 C. Application of Multi-Stage DCF Approach

- 6 Q. Please briefly summarize Dr. Woolridge's observations regarding your
- 7 Multi-Stage DCF analysis.
- 8 A. First, Dr. Woolridge does not appear to disagree with the structure of the model
- 9 itself. For example, in his Exhibit JRW-9, page 1 of 2, Dr. Woolridge describes
- the "dividend discount model", which takes the same structure as my Multi-Stage
- DCF model. At page 41 of his Testimony, Dr. Woolridge explains that in the
- second, or "Transition" stage, the dividend payout ratio increases because there
- are fewer investment opportunities. The assumption of increasing payout ratios as
- capital investments decline also is consistent with my Multi-Stage analysis.
- 15 Although the dividend discount model is consistent in structure with my model,
- Dr. Woolridge argues that the terminal growth rate (that is, the long-term growth
- 17 rate in the third, or "terminal period") applied in my model is overstated.<sup>53</sup>
- 18 Q. Before responding to those points, please describe the Multi-Stage DCF
- model, and explain how the terminal growth rate is derived and applied.
- 20 A. As discussed in my Direct Testimony, the Multi-Stage DCF model enables
- analysts to model growth in three stages, rather than a single growth rate in

<sup>53</sup> See, Direct Testimony of J. Randall Woolridge, at 77-82.

perpetuity (as the Constant Growth DCF model assumes).<sup>54</sup> The terminal, or third stage growth rate, represents investors' expectations for long-term (that is, perpetual) growth beginning in the third stage. Because the model assumes fiveyear periods for the first and second stage, the terminal stage (and, therefore, the terminal growth rate) begins in the eleventh year.

# 6 Q. What is the basis of Dr. Woolridge's concern with your assumed long-term 7 growth rate based on expected GDP growth?

Dr. Woolridge states that "nominal GDP growth in recent decades has slowed and that a figure in the range of 4.0% to 5.0% is more appropriate today for the U.S. economy." To support his position, Dr. Woolridge reviews average nominal GDP growth over periods of ten to 50 years, and concludes, "economic growth in the U.S. has slowed considerably in recent decades." As shown on Chart 1 (below), however, since 1990 (*i.e.*, in "recent decades") the annual nominal growth rate in GDP has remained relatively stable, but for the period 2008 to 2012, which included the recent recession. Over that time, annual nominal GDP growth rates greater than 5.00 percent (the high end of Dr. Woolridge's suggested range) occurred in twelve of 26 years; growth rates of at least 5.35 percent occurred in eleven of 26 years.

See, Direct Testimony of Robert B. Hevert, at 31-32.

*Ibid.*, at 79.

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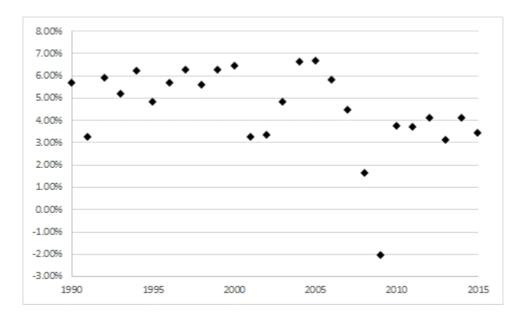
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Direct Testimony of J. Randall Woolridge, at 80.



Moreover, historical nominal GDP growth rates since 1960 reflect periods of differing inflation rates. For example, the real GDP growth rates in 1980 and 2008 were nearly identical at negative 0.24 percent and negative 0.29 percent, respectively. On a nominal basis, however, the growth rates were vastly different, at 8.75 percent and 1.66 percent. Knowing that inflation was significantly higher in the 1970s and early 1980s than it was in 2008, it is not surprising that nominal GDP rates are lower when viewed within the context of shorter term averages (*i.e.*, over the last ten or twenty years as Dr. Woolridge has done).

In addition, as shown in Table 4 (below), the recent economic downturn has had a significant effect on the real GDP growth rate calculated over shorter periods.

Source: Bureau of Economic Analysis, June 28, 2016 update.

Average Length	As Of 2015	As Of 2007
10-Year Average	1.41%	3.04%
20-Year Average	2.41%	3.07%
30-Year Average	2.60%	3.12%
40-Year Average	2.83%	3.14%
50-Year Average	2.89%	3.38%

As Table 4 demonstrates, prior to the recent recession the difference between the average GDP growth rates measured over varying time periods was minimal. Subsequent to the recession the differences have been quite large. Because I apply the long-term growth rate beginning ten years in the future, it would be inappropriate to give undue weight to short-term trends in the time series, as Dr. Woolridge suggests.

As to the inflation portion of the expected nominal growth rate, Dr. Woolridge does not seem to disagree with my expected inflation rate of 2.00 percent, as he noted that the current inflation is "in the 2% to 3% range." I also note that on page 85 of Dr. Woolridge's Direct Testimony, he provides the average growth rates (since 1960) for nominal GDP, the S&P 500 Index, the S&P 500 earnings per share, and the S&P 500 dividends per share. The average of those measures is 6.42 percent, which is 107 basis points above the 5.35 percent long-term GDP growth rate estimate included in my Direct Testimony. The 6.42 percent average

Source: Bureau of Economic Analysis, June 28, 2016 update.

Direct Testimony of J. Randall Woolridge, at 87. Note, the expected inflation rate has been updated to 2.02 percent in my Rebuttal Testimony Multi-Stage DCF analysis.

1	growth rate noted above also is 22 basis points greater than the approximately
2	6.20 percent long-term nominal GDP growth rate reported by the Bureau of
3	Economic Analysis. <sup>60</sup> I therefore disagree with Dr. Woolridge's view that my
4	assumed terminal growth rates are excessive.

# 5 Q. Are there examples in financial literature that support your calculation of the long-term growth rate based on GDP?

Yes. The use of expected long-term GDP growth in the terminal period is consistent with practice and financial literature. Morningstar, a source on which Dr. Woolridge relies for Market Risk Premium estimates, describes an approach for calculating the long-term growth estimate that is similar to that which is included in my model. As with my approach, Morningstar's method combines the historical average real GDP growth rate with a measure of inflation calculated using the TIPS spread. So

# Q. Does Dr. Woolridge provide any other data that supports your terminal growth rate assumption?

16 A. Yes, Dr. Woolridge cites to certain research to support his view that analysts'
17 earnings estimates are "overly optimistic and upwardly biased," including a

Source: Bureau of Economic Analysis, June 28, 2016 update. Compound annual return from 1929 – 2015.

Testimony and Exhibits of J. Randall Woolridge, at 49.

Dr. Roger Morin, for example, writes "[i]t is useful to remember that eventually all company growth rates, especially utility services growth rates, converge to a level consistent with the growth rate of the aggregate economy." *See*, Roger A. Morin, New Regulatory Finance, Public Utilities Report, Inc., 2006, at 308.

See, <u>Ibbotson SBBI 2013 Valuation Yearbook</u>, Morningstar, Inc., at 50-52.

Implied Expected Nominal GDP =  $((1 + \text{Historical Real GDP Growth}) \times (1 + \text{Implied Forward Inflation}) - 1$ , or 5.32 percent =  $((1 + 3.24 \text{ percent}) \times (1 + 2.02 \text{ percent})) - 1$ .

2010 report by McKinsey & Company ("McKinsey"). <sup>65</sup> The McKinsey report observes that "…long-term earnings growth for the market as a whole is unlikely to differ significantly from growth in GDP, as prior McKinsey research has shown." <sup>66</sup> In a footnote to that sentence, McKinsey further states that "[r]eal GDP has averaged 3 to 4 percent over past (*sic*) seven or eight decades, which would indeed be consistent with nominal growth of 5 to 7 percent given current inflation of 2 to 3 percent." <sup>67</sup> The McKinsey report therefore supports the terminal growth rate used in my Multi-Stage DCF model based on expected GDP; it represents the combination of historical real GDP growth and expected inflation, and is toward the lower end of the 5.00 percent to 7.00 percent range noted by McKinsey. <sup>68</sup>

Q. What is your response to Dr. Woolridge's reference to GDP forecasts provided by the Survey of Professional Forecasters, the Energy Information Administration ("EIA"), and the Congressional Budget Office ("CBO")?<sup>69</sup>

A. In the case of the Survey of Professional Forecasters, as Dr. Woolridge points out, it relates to the 2016 to 2026 period. That is, it does not apply to the terminal period, which begins in 2026. As to the CBO and EIA forecast, those projections

cover only fifteen years of a perpetual period, and represent forecasts from single

<sup>65</sup> Equity Analysts: Still too bullish, McKinsey & Company, McKinsey on Finance, Number 35, Spring 2010.

*Ibid.*, at 16-17.

*Ibid.*, at 17.

Please also note that consistent with the McKinsey approach, the terminal growth rate used in my Multi-Stage DCF model (*see* Exhibit RBH-14) is the product of real GDP growth (3.24 percent) and expected inflation (2.02 percent).

<sup>69</sup> See, Direct Testimony of J. Randall Woolridge, at 80-81.

entities. As such, I do not agree that those sources invalidate the growth rate used
in my analysis.

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In addition, the CBO provides updates regarding its forecasting record. In that context, the CBO discusses comparisons to other forecasts, and notes that "[d]espite their value, comparisons of forecasting errors can be misleading when forecasts are made for different purposes."70 In essence, the CBO notes that comparisons to other forecasts are not always apt, at least in part because they may be based on different assumptions and used for different purposes. Moreover, the CBO states that it is required to assume that future fiscal policy will reflect current law, so that it may "provide a benchmark" against which proposed changes in law may be assessed. 71 Given that purpose and structure, I disagree that the CBO's forecast invalidates the growth rate used in my Multi-Stage DCF analysis.

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The CBO also notes that among its two-year forecasts (since the early 1980's), the forecast error for "real output growth" and inflation (measured by the Consumer Price Index) has been 1.40 percentage points, and 0.80 percentage points,

<sup>70</sup> 

CBO's Economic Forecasting Record: 2015 Update, February 2015, at 4-5. 71

<sup>&</sup>quot;In particular, forecasters in the private sector attempt to predict the future stance of federal fiscal policy, and the Administration's forecasts assume the adoption of the fiscal policy reflected in the President's proposed budget. CBO, however, is required to assume that fiscal policy in the future will generally reflect the provisions in current law, an approach that derives from the agency's responsibility to provide a benchmark for lawmakers as they consider proposed changes in law. Forecasting errors may be driven by those different assumptions, particularly when policymakers are considering major changes in the fiscal policy embedded in current law."

1	respectively. <sup>72</sup>	That range of	of error, if applied	to the 4.30 percent	long-term CBO
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- 2 forecast noted by Dr. Woolridge, suggests that the 5.35 percent rate applied in my
- 3 Direct Testimony is within the range of the CBO's projections.<sup>73</sup>
- 4 Q. Do you have any other observations regarding Dr. Woolridge's position that
- 5 you should rely on economists' forecasts of real GDP growth beginning ten
- 6 **years in the future?**
- 7 A. Yes, I do. Dr. Woolridge is quite critical of economists' projections of interest
- 8 rates, noting that in hindsight, they often are incorrect.<sup>74</sup> At the same time, he is
- 9 critical of the fact that I do not rely on economists' real GDP growth rate
- projections.<sup>75</sup> Putting aside the fact that the Multi-Stage DCF model requires
- forecasts beginning ten years from now, not as of the present, Dr. Woolridge does
- not explain why economists' near-term interest rate projections are improper, but
- their long-term real GDP growth rate projections are sound.
- 14 Q. Did you perform any analyses in response to Dr. Woolridge's contention that
- 15 the currently elevated P/E ratios are expected to continue?
- 16 A. In response to Dr. Woolridge's assumption that current P/E ratios will persist in
- perpetuity, I also have included a series of Multi-Stage DCF analyses that assume

CBO's Economic Forecasting Record: 2015 Update, February 2015, at 1.

As to the use of expected inflation, I note that the TIPS spread has been affected by low levels of inflation, which likely are affected by recently low oil prices. As noted at page 30 of the Federal Reserve's February 2016 *Monetary Policy Report*, "Inflation is expected to remain low in the near term, in part because of recent further declines in energy prices, but to rise to 2 percent over the medium term as the transitory effects of declines in energy and import prices dissipate and the labor market strengthens further."

See, Direct Testimony of J. Randall Woolridge, at 16-18.

The Philadelphia Federal Reserve publishes the list of economists that provide forecasts with attribution. *See* http://www.frbsf.org/economic-research/publications.

1 that the current P/E ratio will remain in place by calculating the terminal value in 2 the Multi-Stage DCF analysis on the basis of the Combined Proxy Group's 3 current 30-day average P/E ratio. The results of my Multi-Stage DCF analyses 4

are shown on Table 10 in Section IX (see also, Exhibit RBH-14).

- 5 D. Application of the CAPM
- 6 Q. Please briefly describe Dr. Woolridge's CAPM analysis and results.
- 7 A. Dr. Woolridge's CAPM analyses produce an estimated Cost of Equity of 7.90 percent to 8.10 percent. Although Dr. Woolridge relies primarily on his DCF 8 9 analysis, he also considers his CAPM results in determining what he considers an appropriate range of the Company's Cost of Equity. 77 As with Dr. Woolridge's 10 11 DCF results, I strongly disagree that a CAPM result of 7.90 percent to 8.10 12 percent is a reasonable estimate of the Company's ROE. As discussed below, Dr. Woolridge's unduly low CAPM estimates primarily are the result of his estimated 13 14 Market Risk Premium.
- 15 Please describe how Dr. Woolridge calculates his Market Risk Premium Q. 16 estimate.
- Dr. Woolridge reviews a series of studies that calculate the MRP using different 17 A. 18 methodologies; he also considers the results of his "Building Blocks" approach.

See, Direct Testimony of J. Randall Woolridge, Exhibit JRW-11, at 1.

See, Direct Testimony of J. Randall Woolridge, at 63.

1	Based on those reviews, Dr. Woolridge concludes that the MRP ranges from 4.00
2	percent to 6.00 percent and, within that range, 5.50 percent is reasonable. <sup>78</sup>

### 3 Q. Does Dr. Woolridge express any concerns regarding your CAPM analysis?

4 A. Dr. Woolridge's principal disagreement with my CAPM analysis involves the 5 Market Risk Premium component of the model. As to my use of expected market 6 returns, Dr. Woolridge states that the result is "inflated due to errors and bias in [my] study."<sup>79</sup> Dr. Woolridge also points to the long-term EPS growth rates for 7 the S&P 500 based on the data from Bloomberg and Value Line, respectively, 80 8 9 and notes that they "are not consistent with historic or projected economic and earnings growth."81 In support of his position that the expected market return 10 11 included in my CAPM analysis is overstated, Dr. Woolridge cites two surveys: 12 the Duke Chief Financial Officers ("CFO") survey, and the Philadelphia Federal Reserve Survey of Professional Forecasters.<sup>82</sup> 13

## 14 Q. What is your response to Dr. Woolridge on those points?

15 A. First, by referring to the survey by the Federal Reserve Bank of Philadelphia, Dr.

Woolridge suggests that my estimated market return is inconsistent with those

used by professional forecasters. 83 On reviewing that survey, I note that only 18

of 40 survey participants responded to the question regarding the expected return

<sup>&</sup>lt;sup>78</sup> *Ibid.*, at 61; Exhibit JRW-11, at 1, 5-6.

<sup>79</sup> *Ibid.*, at 88. [Clarification added]

<sup>80</sup> *Ibid.*, at 84.

<sup>81</sup> *Ibid.*, at 85.

<sup>82</sup> *Ibid.*, at 88.

<sup>83</sup> Ibid.

1	for the S&P 500 over the next ten years. <sup>84</sup> Similarly, 26 of 40 responded to the
2	question regarding expected return on ten-year Treasury bonds. Because a
3	considerable portion of the survey respondents did not answer those questions, it
4	is difficult to have confidence that the estimates represent the market's expected
5	total return.
6	
7	Even if all 40 economists provided expected market returns and Treasury yields,
8	as noted earlier Dr. Woolridge gives economists' interest rate projections little
9	weight, going so far as to note that in a Bloomberg survey, "100% of the
10	economists were wrong."85 Yet, Dr. Woolridge gives economists' forecasts of
11	market returns and interest rates considerable weight in supporting his expected
12	Market Risk Premium.
13	
14	As to the Duke CFO survey, Dr. Woolridge's 8.75 percent ROE recommendation,
15	which applies to a company that is less risky than the overall market,86 is 245
16	basis points above the expected market return suggested by the survey results. If
17	the survey were a reasonable method of determining the expected market return,
18	Dr. Woolridge's ROE recommendation would be no higher than 6.30 percent. <sup>87</sup>
19	Moreover, as shown in Table 5 below, the survey respondents have provided

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estimates that, on average, significantly underestimated actual market returns.

See, Federal Reserve Bank of Philadelphia, Survey of Professional Forecasters, First Quarter of 2016, at 17.

<sup>85</sup> Direct Testimony of J. Randall Woolridge, at 16. [emphasis included]

<sup>86</sup> Dr. Woolridge and I agree that Beta coefficients for our proxy companies are less than 1.0. 6.30 percent equals the expected market return suggested by the Duke CFO survey.

Table 5: S&P 500 Market Return: Accuracy of Survey Estimates<sup>88</sup>

		Graham
		Harvey
	Actual	Estimate
2015	1.38%	6.07%
2014	13.69%	5.00%
2013	32.39%	3.40%
2012	16.00%	4.00%
2011	2.11%	5.30%
2010	15.06%	6.28%
Average	13.44%	5.01%

Further, the Duke CFO Survey authors have noted a distinction between the expected market return on one hand, and the hurdle rate on the other. In prior surveys, the hurdle rate was significantly higher than the expected market return. For example, the authors' survey showed that the reported average hurdle rate, which is the return required for capital investments, was above 13.00 percent. The author further reported that the Weighted Average Cost of Capital ("WACC") exceeded the expected market return, even though the WACC includes the cost of debt. For example, in 2012 the reported WACC was 9.30 percent even though the expected market return was 6.00 percent. Dr. Woolridge's reference to the 4.55 percent expected Market Risk Premium, which relies on the survey's expected market return, therefore should be given little weight.

Source: Morningstar, Inc., <u>2016 SBBI</u> Appendix A, at 3-5, 21-23; http://www.cfosurvey.org (1-year return estimates as of fourth quarter of the previous year).

Graham, John R. and Harvey, Campbell R, *The Equity Risk Premium* in 2015 (June 25, 2015), at 8, <a href="http://papers.ssrn.com/sol3/papers.cfm?abstract\_id=2611793">http://papers.ssrn.com/sol3/papers.cfm?abstract\_id=2611793</a>. At page 9, the authors note that hurdle rates are "used for actual investment decisions."

Duke/CFO Magazine Global Business Outlook survey – U.S., Second Quarter 2012 at 139, 159.

1	Q.	Do any of the authors cited in Woolridge's Equity Risk Premium survey
2		provide support for your approach to estimating the current MRP?
3	A.	Yes. A study by Pablo Fernandez titled "Market Risk Premium used in 71
4		countries in 2016: a survey with 6,932 answers" discusses how the required
5		Equity Risk Premium is commonly calculated using a Constant Growth DCF
6		approach. <sup>91</sup> That study states:
7		[t]he [implied equity premium] is the implicit [required equity
8		premium] used in the valuation of a stock (or market index)
9		that matches the current market price. The most widely used
10		model to calculate the [implied equity premium] is the
11		dividend discount model: the current price (P0) is the present
12		value of expected dividends discounted at the required rate of
13		return (Ke). If d1 is the dividend per share expected to be
14		received in year 1, and g the expected long term growth rate in
15		dividends per share:
16		$P_0 = d_1 / (Ke - g)$ , which implies:
17		[implied equity premium] = $d_1/P_0 + g - R_f^{92}$
18		
19		As discussed in my Direct Testimony, I calculated the ex-ante MRP in a similar
20		manner using a market capitalization weighted Constant Growth DCF calculation
21		on the individual companies in the S&P 500 Index.

Dr. Woolridge cites Pablo Fernandez's research; *see* Direct Testimony of J. Randall Woolridge, Exhibit JRW-11, at 5.

Pablo Fernandez, Alberto Ortiz, and Isabel Fernandez, Acin. Market Rick Premium, used in 71.

Pablo Fernandez, Alberto Ortiz, and Isabel Fernandez Acín, *Market Risk Premium used in 71 countries in 2016: a survey with 6,932 answers*, IESE Business School, at 10.

Q. Do you have any other observations regarding Dr. Woolridge's Equi	ty Risk
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#### Premium estimates?

A. Yes. Many of Dr. Woolridge's Equity Risk Premium estimates assume market returns nearly equal to, or below the Company's required return and as such, do not make either theoretical or practical sense. For example, Exhibit JRW-11, page 5 of 6 indicates that the average estimated Equity Risk Premium over all the articles included in the survey is 4.64 percent. Combining that estimate with Dr. Woolridge's 4.00 percent estimated Risk-Free Rate (Exhibit JRW-11, page 1 of 6) produces an estimated market return of 8.64 percent, which is 11 basis points below Dr. Woolridge's 8.75 percent recommendation.

Dr. Woolridge observes that "...a regulated public utility is less risky than the market," and should have a Beta coefficient less than 1.0.<sup>93</sup> Because his implied 8.64 percent market return is below his 8.75 percent ROE recommendation, its relevance to investors' actual required returns is questionable. Even focusing on studies from the 2010 to 2015 period (Exhibit JRW-11, page 6 of 6), the expected market return would be approximately 8.92 percent, which is only 17 basis points above Dr. Woolridge's 8.75 recommendation for FPL. Because such important elements of his CAPM analyses contradict each other, Dr. Woolridge's CAPM results are not reliable.

Direct Testimony of J. Randall Woolridge, at 56.

Q. Turning to Dr. Woolridge's position that the EPS growth rates used to develop your estimated market return are too high, did you consider where your estimates fall within the range of historical observations?

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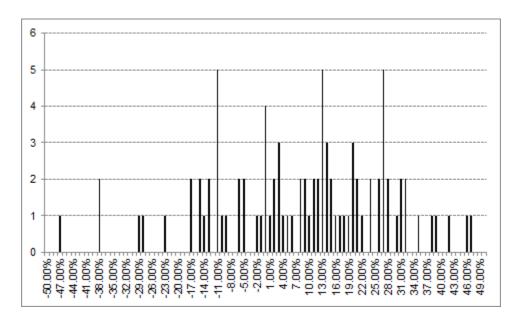
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Yes, I gathered the annual capital appreciation return on Large Company Stocks reported by Morningstar for the years 1926 through 2015, produced a histogram of those observations, and calculated the probability that a given capital appreciation return estimate would be observed. The results of that analysis, which are presented in Chart 2 (below), demonstrate that capital appreciation rates of 9.87 percent to 10.68 percent and higher actually occurred quite often. 94

Chart 2: Frequency Distribution of Observed Capital Appreciation Rates  $1926 - 2015^{95}$ 



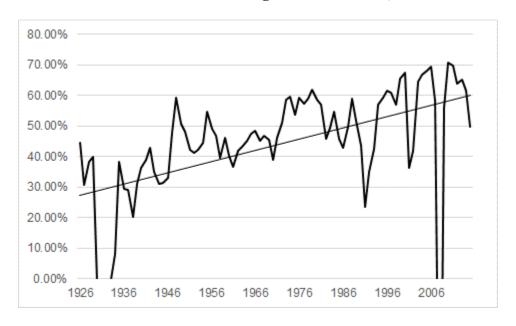
Source: Morningstar, Inc., 2016 Morningstar Stocks, Bonds, Bills and Inflation, Table A-3.

Under the Constant Growth DCF model's assumptions, the growth rate equals the rate of capital appreciation.

In fact, the growth rates Dr. Woolridge asserts are "overstated" by historical standards represent approximately the 49<sup>th</sup> to 51<sup>st</sup> percentile of the actual capital appreciation rates observed from 1926 to 2015.

Lastly, under the sustainable growth model, if the retention ratio is higher now than it historically has been, there would be reason to believe that expected growth rates would be higher than historical growth rates. To determine whether that has been the case, I calculated the annual retention ratio from 1926 to 2015 using earnings and dividends data published by Dr. Robert J. Shiller. As shown in Chart 3 (below), that data indicates the S&P 500 earnings retention has trended upward over time, and is currently well above its historical average. Consequently, the sustainable growth model included in Dr. Woolridge's DCF analysis suggests that the future growth of the S&P 500 could outpace its historical growth.

# Chart 3: S&P 500 Annual Earnings Retention Ratio, 1926 - 2015%



# 2 E. Bond Yield Plus Risk Premium Analysis

# Q. Please summarize Dr. Woolridge's response to your Bond Yield Plus Risk Premium analysis.

Dr. Woolridge believes that the Risk Premium derived from the analysis is "inflated" and "is a gauge of *commission* behavior and not *investor* behavior."<sup>97</sup> Dr. Woolridge further observes that my Risk Premium approach and results "reflect other factors used by utility commissions in authorizing ROEs in addition to capital costs."<sup>98</sup> In particular, Dr. Woolridge points to a potential discrepancy between settled and litigated cases.<sup>99</sup> In addition, Dr. Woolridge reasons that the analysis overstates the actual ROE, because the estimated risk premium is based

99 Ibid.

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Source: http://www.econ.yale.edu/~shiller/data.htm.

Direct Testimony of J. Randall Woolridge, at 90. [emphasis included]

<sup>&</sup>lt;sup>98</sup> *Ibid.*, at 14.

1	n historical Treasury yields, whereas the model is applied to current a	nc
2	xpected yields. 100	

- Q. What is your response to Dr. Woolridge's position that the Risk Premium analysis is a study of utility commissions' behavior, rather than investor behavior?
- 6 A. Those cases, and their associated decisions, reflect the same type of market-based 7 analyses at issue in this proceeding. Moreover, given that authorized returns are 8 publicly available, it is difficult to imagine that such data is not reflected, at least 9 to some degree, in investors' return expectations and requirements (American 10 Electric Power, one of Dr. Woolridge's proxy companies, discloses authorized 11 returns, by jurisdiction, in its 2015 SEC Form 10-K). Consequently, it is 12 reasonable to assume that authorized returns are a reasonable (although not the 13 only) measure of investor-required returns.
- Q. What is your response to Dr. Woolridge's statement that your analysis applies an historical risk premium to projected rates and as such, overstates the Cost of Equity?<sup>101</sup>
- 17 A. I applied both historical and projected interest rates to the regression coefficients
  18 developed in my Risk Premium analysis, not to an average historical risk
  19 premium. As discussed in my Direct Testimony, the regression coefficients
  20 specifically recognize that as interest rates increase the Equity Risk Premium

<sup>100</sup> Ibid

Direct Testimony of J. Randall Woolridge, at 89-91.

decreases. 102 A consequence of that relationship is that interest rates and the Cost of Equity generally move in the same direction, although not on a one-to-one basis. As projected interest rates increase, the Cost of Equity also will increase, but not to the same degree. Dr. Woolridge's concern that I have applied projected interest rates to an historical risk premium is misplaced in that (1) my analysis does not rely on an historical risk premium; and (2) because the estimated risk premium does not increase in lock step with interest rates, the resulting ROE estimate does not overstate the Cost of Equity.

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- 9 Q. What is your response to Dr. Woolridge's position that your Risk Premium 10 analysis must take into consideration the specific aspects of this proceeding 11 relative to all others? 103
- 12 First, every case has its unique set of issues and circumstances; there is no A. 13 disagreement on that point. Looking at over 1,000 cases over many economic 14 cycles, and using that data to quantify the relationship between the Equity Risk Premium and interest rates, mitigates that concern. I do agree, however, that the 15 Risk Premium model results should be considered an industry average ROE 16 17 estimate. To the extent FPL equity investors face incremental risks, its ROE 18 should be adjusted.

102 See, Direct Testimony of Robert B. Hevert, Exhibit RBH-3.

Direct Testimony of J. Randall Woolridge, at 90-91.

- Q. Do you believe that it is a concern, as Dr. Woolridge states, to include both fully litigated and settled rate cases in your Risk Premium analysis?<sup>104</sup>
- 3 No, I do not. Of the rate cases in my Risk Premium analysis, 373 were settled and A. 4 1,102 were fully litigated. More recently (from 2012 through June 2016), 75 5 cases were litigated and 84 were settled. The difference in average authorized returns between the two, however, was only three basis points. 6 Equally 7 importantly, and as illustrated on Exhibit RBH-24, the same inverse relationship 8 between interest rates and the Equity Risk Premium is present whether the 9 analysis includes fully litigated rate cases, settled rate cases, or both. I therefore 10 disagree with Dr. Woolridge's concern that the distinction between settled and 11 litigated cases is meaningful.
  - Q. Are authorized returns in other jurisdictions a relevant benchmark in assessing the reasonableness of ROE estimates and recommendations?
    - A. Yes, they are. It is important to recognize that in establishing their return requirements, investors consider a broad range of data, including returns authorized in other jurisdictions. Equity investors have many options available to them, and allocate their capital based on the expected risks and returns associated with those alternatives. Given that investors consider such data in framing their investment decisions, return recommendations that materially depart from observed industry norms such as such as Dr. Woolridge's 8.75 percent recommendation should be supported by clear and unambiguous reasons.

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<sup>104</sup> *Ibid*.

I also disagree with Dr. Woolridge's position that authorized returns are not
meaningful because they are measures of "commission behavior" as opposed to
measures of investors' return expectations. 105 There is no reason to believe that
other regulatory commissions do not consider the same type of market-related
factors at issue in this proceeding. Nor is there reason to assume that investors
dismiss authorized returns in establishing their return expectations. Rather, the
fact that companies such as American Electric Power - one of Dr. Woolridge's
proxy companies - report authorized returns in their annual Securities Exchange
Commission Form 10-K indicates that they are quite relevant to investors.

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The implications of not reconciling his ROE recommendation with authorized returns are particularly acute given that Dr. Woolridge's conclusion is based principally on his application of a single model for which his inputs are quite subjective, his results cannot be replicated, and whose underlying assumptions are incompatible with prevailing market conditions.

# What is your response to Dr. Woolridge's statement that the current norm is Q. for utility commissions to authorize ROEs below 10.00 percent?

18 A. First, from January 2014 through June 2016, utility commissions have authorized ROEs of 10.00 percent or higher for 12 vertically integrated electric utilities. 19 None, however, has authorized a return as low as 8.75 percent. 106 Second, 20 21 although Dr. Woolridge acknowledges that his recommendation is "below the

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Direct Testimony of J. Randall Woolridge, at 90.

Source: SNL Financial, excluding formula-based rate plans and limited issue riders.

- 1 average authorized ROEs for electric companies,"107 the lowest authorized ROE
- 2 for a vertically integrated electric utility since January 2014 was 55 basis points
- 3 above Dr. Woolridge's 8.75 percent recommendation. Here again, Dr.
- 4 Woolridge's conclusions are incompatible with observable market data.

## 5 F. Market-To-Book Ratios and the Cost of Equity

- 6 Q. Please briefly summarize Dr. Woolridge's position regarding the relationship
- 7 between Market/Book ratios and the Cost of Equity.
- 8 A. Dr. Woolridge suggests that M/B ratios in excess of unity indicate that the subject
- 9 company's earned Return on Equity exceeds its Cost of Equity. 108 In support of
- that position, Dr. Woolridge provides a series of three regression analyses
- 11 reflecting the relationship between the Return on Equity and M/B ratios for
- electric, natural gas, and water utilities, respectively. Because the Coefficient of
- Determination (sometimes referred to as the "R<sup>2</sup>") ranges from 77.00 percent in
- the case of electric utilities, to 56.00 percent in the case of natural gas utilities, Dr.
- Woolridge concludes that "there is a strong positive relationship" between M/B
- ratios and the ROE for utilities. 109

#### 17 Q. What is your response to Dr. Woolridge on those points?

- 18 A. First, it is important to note that the M/B ratio equals the market value (or stock
- price) per share, divided by the total common equity (or the book equity) per
- share. Book value per share is an accounting construct, which reflects historical

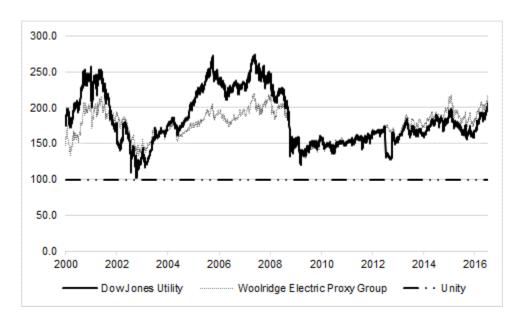
Direct Testimony of J. Randall Woolridge, at 67.

<sup>108</sup> *Ibid.*, at 33.

See, Direct Testimony of J. Randall Woolridge, at 35 and Exhibit JRW-6. Please note that there were only nine observations for the water group and twelve for the gas company group.

costs. In contrast, market value per share (*i.e.*, the stock price) is forward-looking, and a function of many variables, including (but not limited to) expected earnings and cash flow growth, expected payout ratios, measures of "earnings quality", the regulatory climate, the equity ratio, expected capital expenditures, and the earned return on common equity. As discussed below, because the numerator (market value per share) and the denominator (book value per share) are a function of different variables, M/B ratios over 100.00 percent do not demonstrate that regulatory commissions have consistently authorized returns in excess of the true Cost of Equity. To put the issue in context, the M/B ratio for the companies in the Dow Jones Utility Index, as well as Dr. Woolridge's proxy group have been well in excess of 1.00 since at least 2000 (*see* Chart 4, below).

See, for example, Roger A. Morin, New Regulatory Finance, Public Utility Reports, Inc., 2006, at 366. Please note that Dr. Morin cites several academic articles that address the various factors that affect the M/B ratio for utilities. In addition, the notion that book values should be set at a value approaching unity by regulatory commissions has been refuted for many years. As noted by Stewart Myers in 1972: "In short, a straightforward application of the cost of capital to a book value rate base does not automatically imply that market and book values will be equal. This is an obvious but important point. If straightforward approaches did imply equality of market and book values, then there would be no need to estimate the cost of capital. It would suffice to lower (raise) allowed earnings whenever markets were above (below) book." Stewart C. Myers, The Application of Finance Theory to Public Utility Rate Cases, The Bell Journal of Economics and Management Science, Vol. 3, No. 1 (Spring 1972), at 76.



In the context of rate-setting, the M/B ratio often is discussed relative to the Constant Growth DCF model. Under certain restrictive assumptions, that model can be rewritten to express the M/B ratio as follows:

$$\frac{M}{B} = \frac{ROE - G}{ke - G}$$
 Equation [1]

where ROE is the return on book equity,  $k_e$  is the risk-adjusted discount rate, and G is the long-term growth rate in dividends per share. Taking Equation [1] at face value, if M/B exceeds unity, then ROE exceeds  $k_e$ . Branch  $et\ al$ . point out that M/B is generally greater than or equal to one because the value of the firm as a going concern (price per share) generally exceeds the liquidation value (book value per share) and "...firms having going concern values greater than their

Source: SNL Financial and Bloomberg Professional.

1	liquidation values (most firms) and firms having finite prices (all firms) should
2	have $ROE > k_e > G$ ."112
3	
4	Any inferences drawn as to the relationship among M/B, $ROE$ , and $k_e$ from
5	Equation [1] rely on the acceptance of all assumptions of the Constant Growth
6	DCF model. Equally important, Equation [1] only can be solved from the

Constant Growth DCF model if we further assume: (1) a constant dividend payout

ratio in perpetuity; (2) no stock issuances or repurchases; and (3) that the firm is

in a steady state, in which the book equity growth rate equals the dividend growth

rate. Taken together, those assumptions are quite restrictive, and call into

question a definitive linkage between M/B, ROE, and  $k_e$ .

As Dr. Morin states, it is rarely the case in cost of service-based regulation that M/B ratios equal 1.00:

The third and perhaps most important reason for caution and skepticism is that application of the DCF model produces estimates of common equity cost that are consistent with investors' expected return only when stock price and book value are reasonably similar, that is, when the M/B is close to unity. As shown below, application of the standard DCF model to utility stocks understates the investor's expected return when the market-to-book (M/B) ratio of a given stock

Ben Branch, Anurag Sharma, Chetan Chawla, and Feng Tu; *An Updated Model of Price-to-Book*, Journal of Applied Finance, November 1, 2014, at 78.

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exceeds unity. This was particularly relevant in the capital market environment of the 1990s and 2000s where utility stocks were trading at M/B ratios well above unity and have been for nearly two decades. The converse is also true, that is, the DCF model overstates the investor's return when the stock's M/B ratio is less than unity. The reason for the distortion is that the DCF market return is applied to a book value rate base by the regulator, that is, a utility's earnings are limited to earnings on a book value rate base. <sup>113</sup>

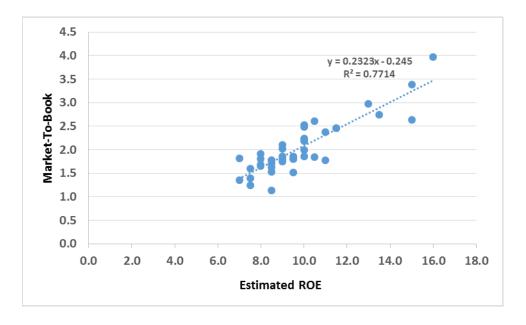
Because the Constant Growth DCF model traditionally used in rate regulation assumes a M/B of unity, it would understate investors' required return rate when market value exceeds book value. It would do so because investors evaluate and receive their returns on the market value of a utility's equity, whereas regulators authorize returns on book common equity. Consequently, the market-based DCF model will result in a total annual dollar return on book common equity equal to the total annual dollar return expected by investors only when market and book values are equal, a rare and unlikely situation.

In essence, M/B ratios in excess of unity simply means that the firm is worth more as a going concern than the book value of its assets. If Dr. Woolridge is of the view that M/B ratios in excess of unity reflect earned returns in excess of the Cost of Equity, it would follow that he also is of the view that utility commissions have

Roger A. Morin, <u>New Regulatory Finance</u>, Public Utilities Reports, Inc., 2006, at 434. [emphasis added]

1		been consistently authorizing returns in excess of the Cost of Equity for at least
2		the last fifteen years. Since Dr. Woolridge does not provide any additional
3		support for his position beyond the general observation that M/B ratios for electric
4		utilities have been greater than 100.00 percent, I disagree with that conclusion.
5		
6		Lastly, although the earned Return on Equity may be one factor explaining M/B
7		ratios, it is not the only factor. If it were, the regression equations presented in
8		Exhibit JRW-6 would produce reasonable ROE estimates when the M/B ratio
9		equals unity.
10	Q.	In that regard, have you reviewed the ROE and M/B ratio data provided in
11		Exhibit JRW-6?
11		Exhibit JRW-0:
12	A.	Yes, I have reproduced the chart contained in Exhibit JRW-6, Panel A (Electric
13		Companies), including the regression coefficients, in Chart 5 (below).

## Chart 5: Exhibit JRW-6, Panel A, With Regression Coefficients<sup>114</sup>



Based on that data, an M/B ratio of 1.00 is associated with an ROE of 5.36 percent. That estimate is only about 75 basis points above the Company's cost of debt (*i.e.*, 4.62 percent). In other words, for the M/B ratio to equal 1.00, the Cost of Equity would be nearly equal to the cost of debt, a condition that is highly improbable. Dr. Woolridge's own data therefore do not support his theory that ROEs in excess of unity indicate that the subject company's return exceeds investors' required returns.

1.00 = -0.245 + (5.36 percent x 0.232).

Source: Value Line. Note that as with Dr. Woolridge's Exhibit JRW-6, Panel A, my analyses include 42 observations and produce an R<sup>2</sup> of approximately 0.77.

- 1 Q. Have you analyzed whether the actual earned Return on Equity explains the
- 2 M/B ratios for Dr. Woolridge's proxy group?
- 3 Yes, I have. Based on data from SNL Financial, I performed a regression analysis A. 4 in which the M/B ratio was the dependent variable, and the most recent twelve-5 month Return on Average Common Equity ("ROACE") was the explanatory variable. As shown in Exhibit RBH-25, the R<sup>2</sup> was approximately 48.00 percent 6 7 (the coefficients and equation were statistically significant). Thus, other factors explain up to 52.00 percent of M/B ratios for Dr. Woolridge's proxy group. 116 8 9 Those results support the position that although the earned return on equity is a 10 factor that explains M/B ratios, it is not the only factor. In any case, the 11 regression equation indicates that a M/B ratio of 1.00 is associated with a Return 12 on Common Equity of 2.29 percent; an M/B ratio of 1.10 relates to an ROACE of 13 3.27 percent. Because those estimates are far below the Company's 4.62 percent

cost of debt, I do not agree that M/B ratios in excess of unity demonstrate

16 Q. Do you have any other points regarding this issue?

earnings in excess of investors' requirements.

17 A. Yes. It is important to keep in mind that, like P/E multiples, M/B ratios tend to be
18 used in practice as measures of relative, rather than absolute valuation. That is,
19 investors often use M/B ratios to value an individual company based on the
20 average M/B ratio of its peers. Such "market comparable" approaches to
21 valuation are useful because no one financial model is accepted as the true
22 measure of value at all times and under all conditions.

0.52 = (1 - 0.48).

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#### G. Relative Risk

A.

2	Q.	Do you believe that credit ratings are an appropriate measure to determine
3		the equity risk of FPL relative to the proxy group?

Although I agree that in general, credit ratings, and by extension credit spreads, are directionally related to the Cost of Equity, <sup>117</sup> I do not agree that changes in one is a direct measure of changes in the other. Debt and equity are different securities with different risk/return characteristics, different lives, and different investors. To that point, debt investors have a contractual, priority claim on cash flows not available to equity investors and as such, equity investors bear the residual risk of ownership. Moreover, because the life of debt is finite, debt investors' exposure to business and financial risk likewise is finite. Equity, on the other hand is perpetual and as such, equity investors are exposed to residual risk in perpetuity. Because debt and equity are distinct securities with different risk and return profiles, debt and equity investors themselves have different risk and return requirements. As such, any inferences drawn from credit ratings for the Company's Cost of Equity should be drawn with caution.

A visible measure of the distinction of the risks to which debt and equity investors are exposed is the difference in their respective Beta coefficients. Although I disagree with his application of the CAPM, Dr. Woolridge recommends average

As noted by Robert S. Harris and Felicia C. Marston, *Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts*, <u>Financial Management</u>, Summer 1992, at 68, "equity risk premia... increased with the increases in the spread between corporate and government bond yields".

Beta coefficients of 0.70 and 0.75 for our respective proxy groups. Duff & Phelps notes that as of December 2015, Beta coefficients for A-rated debt was negative .07<sup>119</sup>. That is, the Beta coefficients of A-rated debt are well below those of the equity Beta coefficients assumed by Dr. Woolridge. In fact, debt Beta coefficients in the range of .31 to .61 are associated with Ba and B rated debt, both of which are considered to be below investment grade. Those differences are a clear indication that the risks assumed by debt investors are far different than those assumed by equity investors.

9 Q. Did you perform any analyses to determine whether Dr. Woolridge's data 10 supports the assumption that there is a quantifiable difference in the Cost of 11 Equity for companies with different bond credit ratings?

Yes, I did. I first produced Constant Growth DCF results for each of the comparison companies using the growth rates and dividend yields reported by Dr. Woolridge. I then applied "credit scores" to Dr. Woolridge's comparison companies by converting the S&P bond ratings reported in his Direct Testimony to a numerical value. If there is a quantifiable relationship between the proxy companies' credit ratings and Cost of Equity, there should be a positive, statistically significant relationship between the credit score and the DCF results. That is, as credit quality deteriorates (resulting in a higher score), the Cost of Equity should increase. I therefore performed a regression analysis, in which the

Exhibit JRW-11, at 3.

A.

Duff & Phelps 2016 Valuation Handbook, John Wiley & Sons, Inc., 2016, at Appendix 3b.

Duff & Phelps 2016 Valuation Handbook, John Wiley & Sons, Inc., 2016, at Appendix 3b. Debt Beta coefficients for BBB-rated companies were .08.

dependent variable was the DCF result, and the explanatory variable was the credit score. As shown in Exhibit RBH-26, the regression analysis showed no statistically significant statistical relationship between the two. In fact, the R-squared of the regression was only about 2.20 percent, which indicates that credit ratings accounted for only 2.20 percent of the change in the DCF-estimated Cost of Equity.

#### H. Flotation Costs

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## 8 Q. Did Dr. Woolridge address the issue of flotation costs in his direct testimony?

9 A. Yes, Dr. Woolridge devotes several pages of his testimony discussing various reasons why he believes such an adjustment is not necessary. Dr. Woolridge does not account for flotation costs, reasoning that flotation costs for stock issuances are not out-of-pocket costs and, even if they were, current market conditions suggest that a *reduction* to the Cost of Equity is required to account for flotation costs. 122

#### 15 Q. Please respond to Dr. Woolridge in that regard.

A. First, I disagree with Dr. Woolridge's position that flotation costs for stock issuances are different than issuance costs associated with long-term debt.

Companies pay the same types of fees (both direct and indirect) regardless of whether they are issuing equity or debt. As to Dr. Woolridge's observation that

Ibid.

See, Direct Testimony of J. Randall Woolridge, at 91-93.

1	underwriter fees are not "out-of-pocket" expenses, 123 I view that to be a distinction
2	without a meaningful difference. Whether paid directly or via an underwriting
3	discount, the cost results in net proceeds that are less than the gross proceeds.
4	
5	I also disagree with Dr. Woolridge's position that flotation costs could represent a
6	reduction in Cost of Equity. Flotation costs are true and necessary costs to the
7	issuer, and represent funds that otherwise would be invested in long-lived assets.
8	As explained in my Direct Testimony, to the extent flotation costs are not
9	recovered, the issuing company is denied a portion of the opportunity to earn its
10	expected (or required) return. 124
11	
12	I have provided an illustrative example of the effect of flotation costs on the ROE
13	in Exhibit RBH-27.125 As shown in that schedule, due to the effect of flotation
14	costs, an authorized return of 11.15 percent would be required to realize an ROE
15	of 11.00 percent (i.e., a 15 basis point flotation cost adjustment). If flotation costs
16	are not recovered, the growth rate falls and the ROE decreases to 10.85 percent

123 *Ibid.*, at 92.

17

(i.e., below the required return). 126

See, Direct Testimony of Robert B. Hevert, at 47.

This example is based on an analysis performed by Dr. Roger Morin. *See*, Roger A. Morin, *New Regulatory Finance*, Public Utility Reports, Inc., 2006, at 330-332.

Exhibit RBH-27 is provided for illustrative purposes only. I have not relied on the results of the analysis in determining my recommended ROE and range.

## I. Capital Structure

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2	Q.	Please summarize	Dr.	Woolridge's	position	on	the	Company's	capital
3		structure.							

4 A. I disagree with Dr. Woolridge's conclusion that the Company's capital structure suggests less financial risk than the proxy companies. 127 5 To support his 6 conclusion, Dr. Woolridge compares the Company's capital structure to the 7 capital structures in place at the holding company level. As discussed in my 8 Direct Testimony, I analyzed the actual capital structures in place at the operating 9 companies held within my proxy group. Doing so reflects the nature of assets 10 financed by vertically integrated utilities such as FPL. Based on that review, it is 11 apparent that the Company's capital structure is generally consistent with the 12 capital structures of the proxy companies.

- 13 Q. Is there a specific example that demonstrates the varied nature of a utility 14 holding company's unregulated operations and capital structures?
- 15 A. Yes, there is. NextEra Energy Resources, ("NEER"), a wholly owned, indirect subsidiary of NEE, owns approximately 21,100MW of generating capacity across the U.S. and Canada. As of 2015, approximately 66.00 percent of NEER's generating capacity was fully committed under long-term contracts, with a weighted average life of approximately fifteen years. NEER's generating portfolio is diverse, with wind, natural gas and nuclear assets representing 91.00

See, Direct Testimony of J. Randall Woolridge, at 31.

*Ibid.*. at 16.

NextEra Energy, Inc., SEC Form 10-K for the Fiscal Year Ended December 31, 2015, at 4.

percent of the capacity.<sup>130</sup> In fact, NEER owns 2,721 MW of nuclear generating capacity, of which 1,621 MW is contracted.<sup>131</sup> NEER is responsible for the ultimate decommissioning of those plants.<sup>132</sup> Although Dr. Woolridge suggests that parent company capital structures are the better comparator of FPL's operating capital structure, he does not seem to have considered the effect of non-utility, project-financed assets at the consolidated parent level.

Lastly, and as discussed in my response to Mr. O'Donnell, my updated capital structure analysis continues to support the reasonableness of the Company's current capital structure.

## III. RESPONSE TO THE TESTIMONY OF FEA WITNESS GORMAN

12 Q. Please briefly summarize Mr. Gorman's recommendation regarding the
13 Company's Cost of Equity.

A. Mr. Gorman recommends an ROE of 9.25 percent, within a recommended range of 8.90 to 9.60 percent.<sup>133</sup> Mr. Gorman establishes his recommended ROE by reference to: (1) his constant growth DCF model using both consensus analyst growth rates and a sustainable growth rate (with median and average results ranging from 7.34 percent to 8.89 percent);<sup>134</sup> (2) his Multi-Stage DCF method (with mean and median results of 8.00 percent and 8.01 percent, respectively);<sup>135</sup>

*Ibid*.

*Ibid.*, at 16, 18.

*Ibid.*, at 18.

See Direct Testimony of Michael P. Gorman, at 2.

*Ibid.*, at 24, 41.

*Ibid*.

1		(3) his Risk Premium estimates (ranging 9.50 percent to 9.60 percent, with a point
2		estimate of 9.55 percent); <sup>136</sup> and (4) his Capital Asset Pricing Model analyses
3		(ranging from 7.90 percent to 9.25 percent). 137 In particular, Mr. Gorman's 9.25
4		percent recommendation represents the midpoint of his DCF (8.90 percent) and
5		Risk Premium (9.60 percent) analyses. 138
6	Q.	What are the principal analytical areas in which you disagree with Mr.
7		Gorman?
8	<b>A.</b>	The principal analytical areas in which I disagree with Mr. Gorman include:
9		1. Proxy group composition;
10		2. The application of the Constant Growth DCF model, and interpretation of
11		its results;
12		3. The Market Risk Premium component of his CAPM analysis, in
13		particular the expected market return from which the MRP is calculated;
14		4. The assumptions and methods underlying Mr. Gorman's Risk Premium
15		analyses;
16		5. The need for a flotation cost adjustment; and
17		6. Mr. Gorman's assessment of the Company's relative risk.

<sup>136</sup> 

*Ibid.*, at 47. *Ibid.*, at 53. *Ibid.*, at 54. 137

<sup>138</sup> 

## A. Proxy Group Composition

- 2 Q. Do you agree with Mr. Gorman's exclusion of Dominion Resources, Great
- 3 Plains Energy, Westar Energy, and Otter Tail Corporation from the proxy
- 4 **group?**<sup>139</sup>

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- 5 A. I agree with the exclusion of Dominion Resource, Great Plains Energy, and
- Westar Energy; as discussed in my response to Dr. Woolridge, I also have
- 7 excluded those companies due to their recent merger and acquisition activity.
- 8 However, I continue to include Otter Tail Corporation ("OTTR") in my analyses.
- 9 Mr. Gorman excluded OTTR from his proxy group because analyst earnings
- growth rates estimates were not available from any of the data sources he relies on
- 11 (Zacks, SNL Financial and Reuters). Because two of the data sources I rely on
- for earnings growth estimates (Yahoo and Value Line) report earnings growth
- rates for OTTR, I continue to include the company in my proxy group.

#### 14 B. Constant Growth DCF Model

- 15 Q. As a preliminary matter, does Mr. Gorman give his Constant Growth DCF
- results any weight in arriving at his 9.25 percent ROE recommendation?
- 17 A. Yes, as noted earlier, Mr. Gorman's 9.25 percent recommendation represents the
- midpoint of his 8.90 percent to 9.60 percent recommended range. The bottom end
- of that range (8.90 percent) is based on Mr. Gorman's Constant Growth DCF

<sup>139</sup> *Ibid.*, at 25.

1	median result of 8.89 percent, <sup>140</sup> and the upper bound (9.60 percent) represents the
2	point estimate of his Risk Premium results. 141

A.

To arrive at his median DCF estimate, Mr. Gorman discards his Multi-Stage DCF results (8.01 percent), and his Constant Growth DCF model results based on the "sustainable growth" method (7.34 percent) in favor of his Constant Growth DCF results based on analysts' growth rate projections (8.89 percent). Because Mr. Gorman does not rely on his Multi-Stage or sustainable growth DCF methods, I will not comment on his application of those approaches in my Rebuttal Testimony.

- Q. Do you have any concerns with the Constant Growth DCF model in general, and the weight that Mr. Gorman applies to those results in particular?
  - Yes, I do. The Constant Growth DCF model is based on several underlying assumptions that combine to establish an inverse relationship between expected growth and the dividend yield. That is, as expected growth increases, the price would increase and the dividend yield would decrease. Conversely, as expected growth decreases, the price would decrease and the dividend yield would increase. Mr. Gorman's Constant Growth DCF analysis (as do Dr. Woolridge's and Mr. Baudino's), however, assumes P/E ratios that are high by historical standards, (*see* Chart 6, below), but growth rates that are relatively low.

*Ibid.*, at 41, Table 4.

*Ibid.*, at 47.

*Ibid.*, at 41.



# Q. Are the growth rates assumed in Mr. Gorman's analysis consistent with historically high valuation levels?

No, they are not. Mr. Gorman's analysis assumes an average growth rate of 5.38 percent (*see* Exhibit MPG-5) which, he notes, is well below the long-term compound average growth rate for the economy as a whole (6.20 percent), and the long-term rate of stock market capital appreciation (on geometric average basis, 5.80 percent). As discussed earlier, the Constant Growth DCF model assumes that low growth rates would be associated with low prices (and high dividend yields), yet the proxy group average P/E ratio is well above its long-term average. In the context of the Constant Growth DCF model, the two are not compatible.

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Sources: SNL Financial. Proxy Group P/E ratio calculated as an index. Direct Testimony of Michael P. Gorman at 37.

The same conditions hold here. The utility sector has undergone an "abnormal expansion" in P/E ratios; there is no dispute on that point. Whereas Duff & Phelps recognized and adjusted its analyses to reflect the abnormal expansion in P/E ratios, Mr. Gorman's DCF analyses, and his interpretation of their results, do not.

See Direct Testimony of Michael P. Gorman at 52; Morningstar Inc., <u>Ibbotson SBBI 2014 Classic Yearbook</u> at 156 - 157. I also have addressed this issue in response to Dr. Woolridge's "Building Blocks" analysis.

Duff & Phelps, 2016 Valuation Handbook: Guide to Cost of Capital, at 3-30.

1	Lastly, if Mr. Gorman's position is that the current P/E ratio will sustain itself
2	over the long-run, as noted in my response to Dr. Woolridge, I have addressed
3	that concern by calculating the terminal value portion of the Multi-Stage DCF
4	model by reference to current P/E ratios. 147

Q. Please summarize your concerns with Mr. Gorman's use of a sustainable
 long-term growth in his DCF analysis.

Although we agree that it is appropriate to rely on analyst earnings growth estimates in applying the Constant Growth DCF model, Mr. Gorman asserts that those estimates should be limited to what he considers to be a reasonable estimate of long-term "sustainable" growth. In that regard, because they are higher than the five- and ten-year nominal GDP growth estimates from Blue Chip *Financial Forecasts*, Mr. Gorman concludes that the mean analyst consensus earnings growth estimates in my Constant Growth DCF analysis produce elevated estimates of the Cost of Equity.<sup>148</sup>

Α.

As noted in my response to Dr. Woolridge, prior academic research (as well as the analyses presented in my response to Dr. Woolridge) indicates that investors rely on analysts' earnings growth projections. Those analyses demonstrate Value Line's "Retained to Common Equity", which is the product of the expected Return on Common Equity and the expected Retention Ratio (which are the two variables included in Mr. Gorman's assessment of what may constitute

See Exhibit RBH-14.

See Direct Testimony of Michael P. Gorman at 37-38.

1	"sustainable growth" on page 32 of his direct testimony) have no statistically
2	significant ability to explain valuation levels (as measured by the P/E ratio, which
3	Mr. Gorman presents in his Exhibit MPG-2)

Although Mr. Gorman may be of the view that analyst growth rates are not sustainable, the relevant issue is whether investors rely on those projections in making their investment decisions. That is, what matters is that analysts' projections reflect widely held expectations influencing investors at the time they make their pricing decisions, *i.e.*, the market prices investors are willing to pay. I am not aware of empirical evidence supporting the position that investors would disregard analysts' estimates of growth in Earnings Per Share for the companies in our respective proxy groups, nor has Mr. Gorman provided any such evidence. Rather, the empirical evidence discussed in my response to Dr. Woolridge supports the use of analysts' earnings growth projections. I therefore disagree with Mr. Gorman's conclusion that *his* view of sustainable growth, rather than analysts' projections, is the more relevant measure of investor expectations.

# C. Application of Capital Asset Pricing Model

- 18 Q. Please briefly summarize Mr. Gorman's CAPM analysis and results.
- A. Mr. Gorman's two CAPM estimates (9.25 and 7.90 percent) are based on two measures of principally historical Market Risk Premium estimates, Blue Chip's projected 30-year Treasury yield of 3.40 percent as the risk-free rate, and an

average Beta coefficient of 0.75, as reported by Value Line. Based on his assessment of risk premiums in the current market, Mr. Gorman relies on the high-end 9.25 percent CAPM when estimating FPL's Cost of Equity. Mr. Gorman's analyses assume Market Risk Premium estimates of 7.80 percent (based on the long-term historical arithmetic average real market return from 1926 through 2015 as reported by Duff & Phelps, adjusted for current inflation forecasts), and 6.00 percent (based on the historical difference between the average return on the S&P 500 and the average total return on long-term government bonds). Combining those Market Risk Premium estimates with his projected long-term risk-free rate, Mr. Gorman develops expected market returns in the range of 9.40 to 11.20 percent.

# 12 Q. Turning first to the expected total market return, do you agree with Mr.

# Gorman's 9.40 and 11.20 percent estimates?

14 A. No, I do not. As a practical matter, Mr. Gorman's 9.40 percent estimate, which is
15 more than 250 basis points below the long-term average market return, falls in the
16 bottom 10<sup>th</sup> percentile of the 90 annual returns reported by Morningstar. His
17 11.20 percent estimate, which I believe is more reasonable, still falls in the bottom
18 24<sup>th</sup> percentile.

*Ibid.*, at 53 and Exhibit MPG-18.

*Ibid.*, at 53.

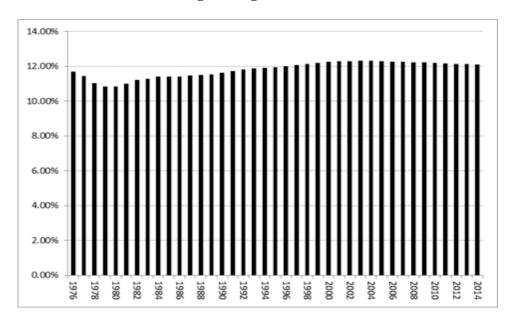
*Ibid.*, at 51 and Exhibit MPG-18.

Mr. Gorman's low Market risk premium of 6.00 percent plus his projected risk-free rate of 3.40 percent equals an estimated market return of 9.40 percent. *See* Direct Testimony of Michael P. Gorman, 51; Exhibit MPG-18.

On a rolling average basis.

A helpful perspective on the historical market return is the rolling 50-year average annual market return. As Mr. Gorman points out, from 1926 through 2015 the arithmetic average market return was 12.00 percent.<sup>154</sup> Over the 50 years ended 2015, the average return was 12.10 percent, only ten basis points removed from the longer-term average that Mr. Gorman reports. Over time, the fifty-year average return has been quite consistent, in the range of approximately 12.00 percent (*see* Chart 7, below).

Chart 7: 50-Year Rolling Average Market Return (1976 – 2015)<sup>155</sup>



Taken from that perspective, Mr. Gorman's 9.40 percent expected market return is well below the long-term market experience, and, therefore, is not reasonable.

Direct Testimony of Michael P. Gorman, at 51.

Source: Morningstar, Inc., <u>2016 SBBI</u> Appendix A Tables.

# D. Application of the Risk Premium Model

2	Q.	Please briefly describe Mr. Gorman's Risk Premium analyses.
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Mr. Gorman defines the "Risk Premium" as the difference between average
annual authorized equity returns for electric utilities, and a measure of long-term
interest rates each year from 1986 through March 2016. 156 Mr. Gorman's first
approach calculates the annual risk premium by reference to the 30-year Treasury
yield, and his second approach considers the average A-rated utility bond yield. 157
In each case, Mr. Gorman establishes his risk premium estimate by reference to
five-year and ten-year year rolling averages. The lower and upper bounds of Mr.
Gorman's Risk Premium range are defined by the lowest and highest rolling
average, respectively, regardless of the year in which those observations
occurred. 158

A.

Regarding the period over which he gathers and analyzes his data, Mr. Gorman suggests that his 31-year horizon is a "generally accepted period to develop a risk premium study using 'expectational' data." On page 44 of his direct testimony Mr. Gorman further states that "it is reasonable to assume that averages of annual achieved returns over long time periods will generally converge on the investors' expected returns," and concludes that his "risk premium study is based on expectational data, not actual investment returns, and, thus, need not encompass a

*Ibid.*. at 43.

Direct Testimony of Michael P. Gorman, at 41-42.

See Direct Testimony of Michael P. Gorman, 42, Exhibit MPG-13 and MPG-14.

Direct Testimony of Michael P. Gorman at 41-42; Exhibit MPG-13 and MPG-14.

very long historical time period." <sup>160</sup> Based on those assumptions, Mr. Gorman calculates a range of risk premium estimates of 4.25 percent to 6.71 percent using his Treasury bond analysis, and 2.88 percent to 5.53 percent using his A-rated utility bond analysis. Combined with a 3.40 percent projected Treasury yield and a 4.69 percent Baa-rated utility bond yield estimate, Mr. Gorman's Risk Premium analysis produces results ranging from 7.57 percent to 10.22 percent. <sup>161</sup> To calculate his Risk Premium-based ROE estimate, Mr. Gorman gives 75.00 percent weight to the high end of his risk premium estimates, and 25.00 percent to the low end, producing a range of 9.50 percent to 9.60 percent with a midpoint of 9.55 percent. <sup>162</sup>

Q. Do you have any general observations regarding Mr. Gorman's Risk

Premium estimates and how they weigh in his overall ROE
recommendation?

Yes, I do. In assessing his DCF analyses, Mr. Gorman decided to rely on his highest result and essentially discarded five of his six results, which ranged from 7.34 to 8.83 percent. In his Risk Premium analysis, however, Mr. Gorman retained risk premiums that produced ROE estimates that were more than 100 basis points *below* the DCF estimates that he chose not to rely on. Despite their low levels, Mr. Gorman gave those risk premium estimates (producing ROE results of 7.57 and 7.65 percent) weights of 25.00 percent in aggregate. Mr.

A.

*Ibid.*, at 44.

<sup>4.69% + 2.88% = 7.57%</sup>; 4.69% + 5.53% = 10.22%; 3.40% + 4.25% = 7.65%; 3.40% + 6.71% = 10.11%.

*Ibid.*, at 47.

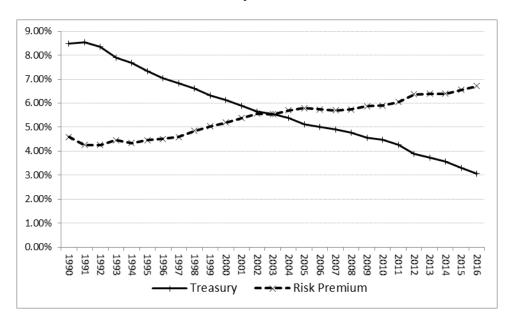
*Ibid.*, at 41.

1	Gorman offers no explanation as to why he would exclude DCF results of 8.83
2	percent and lower, yet include Risk Premium results of 7.57 percent and 7.65
3	percent.

- 4 Q. What are your specific concerns with Mr. Gorman's Risk Premium analysis?
- 5 A. I have three concerns with his analysis: (1) Mr. Gorman's method understates the 6 required risk premium in the current market because it ignores an important 7 relationship confirmed by his own data, i.e., that the risk premium is inversely 8 related to the level of interest rates (whether measured by Treasury or utility bond 9 yields); (2) the low end of Mr. Gorman's Risk Premium results is far lower than 10 any ROE authorized since at least 1986 and as such, has no relevance in 11 estimating the Company's Cost of Equity; and (3) Mr. Gorman suggests that a 12 Market/Book of 1.00 is a relevant benchmark for assessing authorized ROEs.<sup>164</sup>
- 13 Q. Turning first to the issue of Market/Book ratios, as discussed on page 42 of
  14 his direct testimony, do you agree with Mr. Gorman that M/B ratios should
  15 be used to assess the reasonableness of ROE recommendations?
- 16 A. No, for the reasons discussed in my response to Dr. Woolridge, I do not.
- 17 Q. Have you reviewed Mr. Gorman's Risk Premium analyses?
- A. Yes, I have. Considering first the Treasury yield-based analysis, I plotted the yields and Risk Premia over the 1986 to 2016 period included in Mr. Gorman's analysis. That graph, which is presented in Chart 8 (below), clearly indicates the inverse relationship between interest rates and the Equity Risk Premium.

<sup>164</sup> *Ibid.*. at 42.

Chart 8: Mr. Gorman's Treasury Yield-Based Risk Premium Data 165



There are several other points made clear in Chart 8. First, the low end of Mr. Gorman's Risk Premium range, 4.25 percent, was observed in the five-year period ending 1991. There is little question that Risk Premium estimates associated with economic environments 25 years ago have little to do with current market conditions. A very visible measure of such differences is the fact that before 2002, Treasury yields exceeded the Risk Premium (on a five-year average basis). As Chart 8 (*see also* Exhibit RBH-28) demonstrates, however, since then the opposite has been true – the Risk Premium has consistently exceeded Treasury yields. By that measure alone, it is clear that the low end of Mr. Gorman's range has little, if any, relevance to the current market environment.

Source: Direct Testimony of Michael P. Gorman, Exhibit MPG-13; based on five-year rolling average.

The high end of Mr. Gorman's range, 6.71 percent, occurred more recently (for the five year period ending March 2016). In fact, Exhibit MPG-13 indicates that his Equity Risk Premium averaged approximately 6.85 percent over the more recent period from 2015 through March 2016. Adding that 6.85 percent Equity Risk Premium to Mr. Gorman's projected Treasury yield of 3.40 percent produces an ROE estimate of 10.25 percent.

## Q. Has the Risk Premium increased as Treasury yields have decreased?

A. Yes. The relationship between the five-year average Equity Risk Premium and
Treasury yields is very clear. A simple linear regression demonstrates that the
two are highly related, with a Coefficient of Determination (R-Square) of
approximately 96.00 percent. That is, Mr. Gorman's data demonstrate that
changes in Treasury yields account for 96.00 percent of the change in the Equity
Risk Premium (*see* Chart 9, below). 167

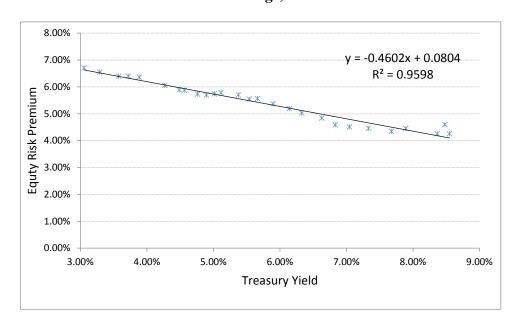
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Those findings are supported in academic studies. For example, Dr. Roger Morin notes that: "... [p]ublished studies by Brigham, Shome, and Vinson (1985), Harris (1986), Harris and Marston (1992, 1993), Carleton, Chambers, and Lakonishok (1983), Morin (2005), and McShane (2005), and others demonstrate that, beginning in 1980, risk premiums varied inversely with the level of interest rates - rising when rates fell and declining when interest rates rose." Roger A: Morin, New Regulatory Finance, Public Utilities Reports, Inc. 2006, at 128 [clarification added]

Based on Indicated Risk Premium.

Average)<sup>168</sup>



Turning back to Mr. Gorman's data, a simple linear regression analysis using annual (rather than the rolling average data) demonstrates that for every 100 basis point decrease in Treasury yields, the Equity Risk Premium increases by approximately 44 basis points (*see* Exhibit RBH-29). Similarly, the Equity Risk Premium increases approximately 45 basis points for every 100 basis point decrease in utility bond yields. Those results are consistent with those reported by Maddox, Pippert, and Sullivan, who determined that the Risk Premium would increase by 37 basis points for every 100 basis point change in the 30-year Treasury yield. 170

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See Exhibit RBH-28. Source: Exhibit MPG-13.

Serial correlation is not present or is inconclusive.

See Farris M. Maddox, Donna T. Pippert, and Rodney N. Sullivan, An Empirical Study of Ex Ante Risk Premiums for the Electric Utility Industry, Financial Management, Vol. 24, No. 3, Autumn 1995, at 93.

1	I also have found that accounting for additional factors by incorporating the credit
2	spread (taken from Mr. Gorman's exhibits) does not change the sign, statistical
3	significance, or the magnitude of the slope coefficient. <sup>171</sup> In short, including Mr.
4	Gorman's credit spreads do not change the finding that interest rates and the

Q. What are your conclusions regarding Mr. Gorman's Risk Premium analysis?

7 Α. Although Mr. Gorman includes rolling average estimates in his Risk Premium 8 analysis, doing so does not negate the finding that his approach relies on data 9 from markets that are so disconnected in time and substance from the current 10 environment that there is no reasonable basis for his conclusion that 9.60 percent 11 represents a proper Risk Premium-based estimate of the Company's Cost of 12 Equity. Consequently, it is appropriate to apply methods that have been accepted 13 in published literature, and which reflect the finding that interest rates and the 14 Equity Risk Premium move in opposite directions.

### E. Risk Factors and Market Sentiment

Equity Risk Premium are inversely related.

16 Q. Mr. Gorman suggests the market is placing a high value on utility stocks.<sup>172</sup>
17 Have you considered the utility sector's recent equity market performance
18 relative to the debt market?

19 A. Yes, I have. Because credit spreads, which represent the difference between the 20 yields on debt and Treasury yields, can be directly observed, we can review the

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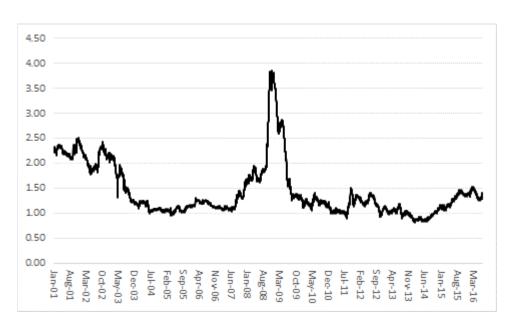
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See Exhibit RBH-29.

Direct Testimony of Michael P. Gorman, at 78.

change in spreads over time, and relative to other market sectors. Although credit spreads are not a full measure of equity risk, they reasonably can be seen to reflect, to some extent, investors' assessment of risk at a given point in time. As Chart 10 below indicates, but for the credit contraction that ended in 2003 and the financial crisis during 2008 and 2009, current credit spreads (for A-rated utilities) are near their highest level since the year 2000.

Chart 10: A-Rated Utility Credit Spreads 173



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Even considering the 2002 - 2003, and 2008 - 2009 market dislocations, the current utility credit spread (on a spot basis) is in the top 63<sup>rd</sup> percentile of spreads since January 2000; the thirty-day average is in the top 55<sup>th</sup> percentile. Looking to the period subsequent to the financial crisis (that is, since January 2010), the 30-day average credit spread is in the top 80<sup>th</sup> percentile (the spot spread is in the top 91st percentile). Taken from that perspective, it is apparent that investors

Source: Bloomberg Professional

1	currently	see th	ne utility	sector a	s relatively	risky,	and	require	higher	returns	as
2	compensa	ition f	or that ris	k.							

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As to the relationship between the level of Treasury yields and credit spreads, the level of explanatory value is rather low; Treasury yields explain only about 12.00 percent of the change in credit spreads. Equity market volatility (as measured by the VIX), on the other hand, explains about 60.00 percent of the change in credit spreads. That is, investors are concerned with market uncertainty, and require higher returns as uncertainty increases.

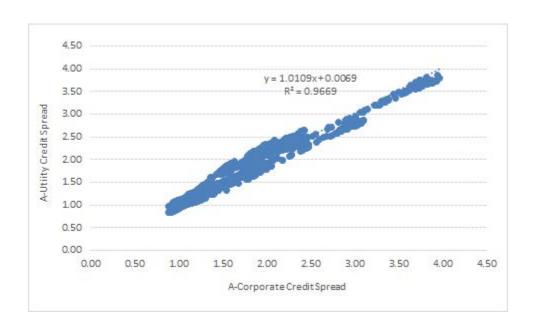
- 10 Q. Does any data presented by Mr. Gorman support the conclusion that credit
  11 spreads on A-rated utility debt are at historically elevated levels?
- 12 A. Yes. Mr. Gorman's Exhibit MPG-15 provides the spread between A-rated utility
  13 debt and Treasury bond yields. As shown in that exhibit, credit spreads on A14 rated utility debt are higher than they have been in eight of the previous ten years.
  15 Credit spreads were only higher during the 2008-2009 financial crisis.
- 16 Q. Have you also reviewed the relationship between credit spreads for A-rated
  17 utility debt relative to A-rated corporate debt?
- 18 A. Yes, I have. Although Mr. Gorman suggests that utility debt is trading at a
  19 premium to corporate debt<sup>176</sup>, I find the difference in yields to be only about two
  20 basis points. Given the historical volatility in the spread between corporate and

Source: Bloomberg Professional.

Source: Bloomberg Professional.

Direct Testimony and Exhibits of Michael P. Gorman, at 78.

utility A-rated debt, there is no reason to conclude that utility yields are different
than those of their corporate counterparts. That conclusion is consistent with the
finding that over time, there has been a nearly one-to-one relationship between
credit spreads on A-rated corporate and utility bonds. In fact, a regression
analysis in which corporate credit spreads are the explanatory variable and utility
credit spreads are the dependent variable shows that slope is approximately 1.00
and highly significant (see Chart 11, below). Because the intercept term is
statistically insignificant, we can conclude that there has been no material
difference between the two, and there certainly is no meaningful difference in the
current market.



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### Q. What do you conclude from those analyses?

First, it is clear that A-rated utility credit spreads are at historically elevated levels. Second, the utility credit spreads are not measurably different than their corporate counterparts. Based on those two observations, we can conclude that investors do not consider utilities to be less risky than historical levels, nor are they requiring lower returns for utilities relative to similarly rated corporate bonds. Consequently, I do not believe we can conclude that the current level of utility equity valuation levels is due to lower levels of perceived risk. Rather, it is my view that the valuation levels are related to the "reach for yield" that sometimes occurs during periods of low Treasury yields.

Source: Bloomberg Professional. Please note that for a univariate regression, the correlation coefficient equals the square root of the R-square. In this case, the square root of 0.9669 is approximately 0.98 (98.00 percent).

Q. Have there been other recent periods when utility equity valuation levels were high relative to both their long-term average and the market?

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- 3 A. Yes. In early 2015, the utility sector (as measured by the S&P Electric Utility 4 Index) traded at a Price/Earnings ratio of approximately 18.00. During the same 5 period, the overall market (as measured by the S&P 500) traded at a P/E of approximately 18.00. Those levels were quite similar to the current market. In 6 7 late January 2015, the utility sector began to lose value, and by the end of June 2015 it had lost approximately 15.50 percent of its value. The point simply is 8 9 that as investors see an increasing likelihood of higher interest rates, they will 10 move out of sectors that provided relatively high current yields. As they do, 11 valuations and P/E ratios fall. As discussed elsewhere in my Rebuttal Testimony, 12 that degree of instability in P/E ratios is incompatible with the assumptions 13 underlying the Constant Growth DCF model, rendering estimates from that model 14 highly questionable.
  - Q. Have you also considered the effect of the United Kingdom's decision to exit the European Union (sometimes referred to as the "Brexit") on Treasury yields?
- 18 A. Yes, I have. What is clear is that in the one week following the Brexit vote (that is, from June 23 to June 30) Treasury yields fell by 25 basis points. As Treasury yields fell, utility valuations increased, as investors sought the relatively high dividend yields offered by the sector. Subsequent to June 30, the market appeared

The Combined Proxy Group lost approximately 13.00 of its value between January 31, 2015 and the end of June 2015.

to have become more comfortable with the implications of the Brexit vote, interest rates began to increase, utility valuations fell, and the overall market increased to record levels. The volatility observed during that two-week period demonstrates the importance of understanding the factors underlying market conditions, and how those factors and conditions comport, or not, with the methods used to estimate the Cost of Equity.

### Q. What conclusions do you draw from those analyses?

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A. In my view, we cannot conclude that the recent levels of utility valuations are due
to a fundamental change in the risk perceptions of utility investors. Utility credit
spreads are at historically elevated levels, and there is no measurable difference
between credit spreads of A-rated utility debt, and A-rated corporate debt. That
is, based on analyses of credit spreads, there is no reason to conclude that
investors see utilities as less risky relative to either historical levels or to their
corporate counterparts.

# Q. Please briefly summarize Mr. Gorman's assessment of the Company's overall business risk.

17 A. Mr. Gorman summarizes certain rating agency reports and concludes that utilities
18 in general are seen as a low-risk sector, which has provided utilities "strong
19 access to capital." Mr. Gorman also notes that 85.00 to 90.00 percent of
20 regulated utilities have bond ratings in the range of A- to BBB, and FPL falls at

Source: Bloomberg Professional

Direct Testimony of Michael P. Gorman, at 11.

1	approximately the high-end of this range. 181	Lastly, Mr. Gorman suggests the
2	implementation of a four year rate plan would	not increase the Company's Cost of
3	Equity. 182	

### Q. Do the Company's current credit ratings distinguish it from other utilities?

5 A. No, they do not. As S&P notes, the vast majority of utility ratings fall within the 6 BBB to A- range. 183 The Company's current credit rating falls within that range. 7 In any event, as discussed in my response to Dr. Woolridge, credit ratings are not 8 full measures of equity risk. And as discussed in my response to Mr. Chriss, 9 investors' perceptions of regulatory supportiveness tend to be positively related to authorized equity returns. 184 Lastly, as Mr. Dewhurst explains, the Company's 10 11 authorized capital structure and return have enabled it to access capital, maintain 12 operating liquidity, and still have among the lowest retail rates in the region. In 13 that important sense, Mr. Gorman's conclusion that the Company's credit rating 14 somehow justifies an ROE that would be among the lowest authorized in the last 15 35 years for a vertically integrated electric utility is misplaced.

<sup>&</sup>lt;sup>181</sup> *Ibid.*, at 19.

<sup>182</sup> *Ibid.*, at 61-62.

Standard & Poor's RatingsDirect, *Industry Report Card: The Outlook For U.S. Regulated Utilities Remains Stable On Increasing Capital Spending And Robust Financial Performance*, December 16, 2014, at 6.

As noted in my response to Mr. O'Donnell, both Standard & Poors and Moody's consider the assessment of the regulatory environment a significant factor in determination of credit ratings.

- 1 Q. Mr. Gorman suggests there is insufficient evidence that interest rates will rise
- 2 to conclude that a four year rate plan will increase risks for shareholders. 185
- **3 What is your response?**
- 4 A. The principal issue is uncertainty, which represents risk to investors. 5 discussed in my Direct Testimony, with a multi-year rate plan FPL forgoes the option to seek rate relief as capital costs increase. 186 Should interest rates rise over 6 7 the course of the proposed four year rate period, the Company would be exposed to increases in the costs of both debt and equity. 187 As reported by Blue Chip, the 8 9 average consensus forecast is for the 30-year Treasury yield to rise to 3.40 percent 10 (approximately 100 basis points) in 2017 and 4.40 percent (approximately 200 basis point) by the end of proposed four year rate period. 188 In addition, market 11 12 expectations for increased long-term Treasury yields are apparent in the market 13 prices to buy or sell at-the-money options in long-term Government bond funds. 14 That is, the value of the option to sell the TLT (an exchange-traded fund of long-15 term Government bonds) in January 2018 at today's price is approximately one and a half times the value of the option to buy that fund. 189 Because bond prices 16 17 fall as interest rates increase, investors see a greater likelihood of increases in 18 long-term interest rates than decreases. As such, investors may require a premium 19 to the allowed ROE for compensation for the additional risk associated with

Direct Testimony of Michael P. Gorman, at 61-62.

Direct Testimony of Robert B. Hevert, at 50-51.

See Direct Testimony of Robert B. Hevert, at 20 and 63.

See. Blue Chip Financial Forecast, Vol. 35 No. 6, June 1, 2016, at 2, 14.

http://www.nasdaq.com/symbol/tlt/option-chain?dateindex=7

foregoing the opportunity to seek rate relief in the event of increasing capital costs.

# 3 Q. Do you agree with Mr. Gorman's position that relying on projected Treasury

4 yields is "problematic"? 190

A.

No, I do not. Mr. Gorman asserts that relying on projected yields does not consider "the highly likely outcome that current observable interest rates will prevail during the period rates determined in this proceeding will be in effect." Mr. Gorman then goes on to suggest that relative to projected interest rates, "current observable rates are just as likely to accurately predict future interest rates as are economists' projections." He concludes that the accuracy of those projections are "highly problematic." 192

# 12 Q. What is your general response to Mr. Gorman's position?

A. First, the relevant question is whether investors view consensus forecasts as important information as they make their investment decisions. Mr. Gorman has provided no information to conclude that they do not. As to his position that it is highly likely that observable interest rates will prevail during the period in which rates will be in effect, that has not been the case historically; as Chart 12 below demonstrates, 30-year Treasury yields two, three and four yields lagged have not been very accurate predictors of spot yields. That is especially the case for the longer lag periods (three and four years), which would more closely reflect the

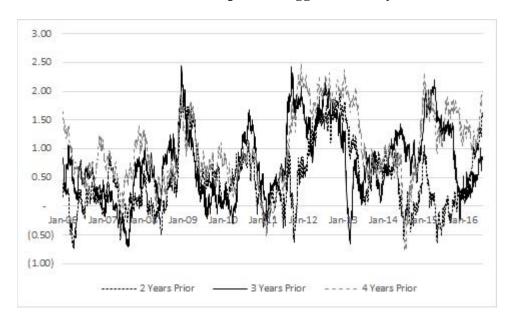
Direct Testimony of Michael P. Gorman, at 79 – 80.

<sup>&</sup>lt;sup>191</sup> *Ibid.*, at 79.

*Ibid.*, at 80.

term of the Company's proposed rate plan than does the roughly one-year lag reflected in Mr. Gorman's analysis (Exhibit MPG-21).

Chart 12: Difference in Spot vs. Lagged Treasury Yields 193



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In large measure, the inability of lagged yields to explain current yields relates to the decline in rates over time. As a practical matter, a simple trend variable has considerably greater explanatory value than do the lagged yields that Mr. Gorman favors. As shown in Exhibit RBH-30, the R-Square (which measures explanatory value of a given variable) increases from approximately 55.00 percent to approximately 82.00 percent. That is, a simple trend has a greater ability to explain current Treasury yields than do lagged observed Treasury yields. 194

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In my view, the relevant question becomes whether investors see that trend continuing over time. Simply extrapolating the trend, or even relying on prior

Source: Bloomberg Professional 194

It is interesting to note that including the Trend variable also changes the sign of the lagged Treasury yield variable from positive to negative.

Treasury yields as an estimate of future yields would assume that to be the case, even though central bank policy, which is a significant factor influencing interest rates, is changing. To that point, Mr. Gorman's observations include a highly unusual period in capital markets in which a number of central banks pursued a significant level of unconventional monetary stimulus (e.g., holding short-term rates near zero while also purchasing large quantities of long-term bonds), which led to long-term bond rates far below market estimates of normal rates. He has not explained, however, why such conditions will prevail two, three or four years in the future.

Regarding Mr. Gorman's observation that in the past, projected yields indicated interest rate increases even though actual yields did not increase, it is important to recognize that implied forward Treasury yields (which are based on observed interest rates) also indicated expectations of rate increases. Implied forward yields are based on the "Expectations" theory, which states that (for example) the current 30-year Treasury yield equals the combination of the current one-year Treasury yield, and the 29-year Treasury yield expected in one year. That is, an investor would be indifferent to (1) holding a 30-year Treasury to maturity, or (2) holding a one-year Treasury to maturity, then a 29-year Treasury bond, also to maturity.

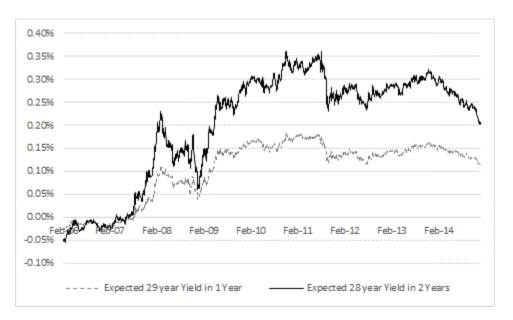
In addition to the Expectations theory, there are other theories regarding the term structure of interest rates, including: the Liquidity Premium Theory, which asserts that investors require a premium for holding long term bonds; the Market Segmentation Theory, which states that securities of different terms are not substitutable and, as such, the supply of and demand for short-term and long-term instruments is developed independently; and the Preferred Habitat Theory,

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As Chart 13 demonstrates, since 2006 the implied forward 29- and 28- year yields (one and two years hence, respectively) consistently exceeded the (interpolated) spot yields. That is, just as economists' projections implied increased interest rates, so did observable Treasury yields.

Chart 13: Forward vs. Interpolated Treasury Yields 196



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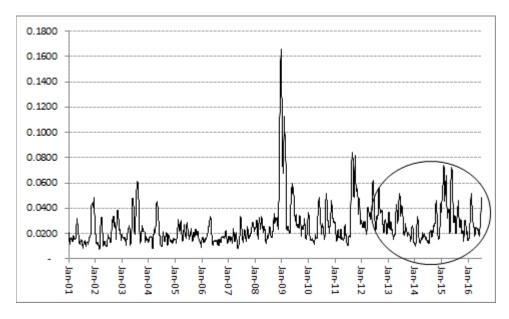
# Q. What do you conclude from those analyses?

First, Mr. Gorman's assertion that spot yields are a reasonable measure of expected yields is inconsistent with observable data; there has been a considerable amount of dispersion between the two. Moreover, the ability of lagged yields to estimate current yields decreases as the lag period increases. In that regard, there

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which states that in addition to interest rate expectations, certain investors have distinct investment horizons and will require a return premium for bonds with maturities outside of that preference. Source: Federal Reserve Schedule H.15

1		is no reason to conclude that current Treasury yields are a reasonable estimate of
2		the yields that will prevail two, three or four years in the future.
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4		Second, a simple trend variable provides more explanatory value than do
5		observed Treasury yields. But if we simply extrapolate that trend, by December
6		2018 the 30-year Treasury yield would be 0.58 percent (58 basis points; see
7		Exhibit RBH-30). On the other hand, if we were to assume that the current 30-
8		year Treasury yield will prevail for the next two to four years, we would have to
9		assume no change in central bank policies, macroeconomic growth, or any of the
10		other factors that recently have influenced Treasury yields.
11		
12		Lastly, Mr. Gorman's conclusion that consensus projections exceeded observed
13		yields does not seem to take into account the fact that implied forward yields also
14		indicated interest rate increases. Because forward yields have been directionally
15		consistent with economists' projections, and given that Mr. Gorman puts
16		considerable weight on observed yields, there is no reason to believe that
17		economists' projections are "highly problematic".
18	Q.	Do you have any further observations regarding interest rates, and their
19		effect on the Company's ROE?
20	A.	Yes. Since 2012, the 30-year Treasury yield has been quite volatile, especially
21		relative to its historical levels ( <i>see</i> Chart 14, below).



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That variability represents an element of uncertainty for investors; uncertainty and risk increase investors' required returns. Further, as rates become more variable, the option to seek rate relief in future periods becomes more valuable. Foregoing that option, therefore, comes at a greater cost. Consequently, the increased variability of Treasury yields provides further support for my ROE range and recommendation.

### F. Financial Integrity

- 10 Q. Please briefly summarize Mr. Gorman's assessment of his recommendation 11 as it affects measures of the Company's financial integrity.
- 12 A. Mr. Gorman evaluates the reasonableness of his ROE recommendation by calculating the *pro forma* effect that his recommended ROE would have on two of

Source: Bloomberg Professional. The Coefficient of Variation is calculated as the Standard Deviation divided by the Average. Calculations are based on 30-day moving periods.

the Company's key financial ratios with the goal of assessing whether those ratios would still fall within S&P's guideline ranges sufficient for an investment grade rating. 198 In that regard, Mr. Gorman develops the following *pro forma* ratios: (1) Debt to EBITDA; and (2) Funds From Operations ("FFO") to Total Debt. An important point is that Mr. Gorman's analysis assumes that the Company actually will earn the entirety of its authorized ROE on a going-forward basis.

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In his Exhibit MPG-19, Mr. Gorman develops the pro forma financial ratios noted above based on the Company's retail cost of service, and his recommended ROE of 9.25 percent. Mr. Gorman notes that his *pro forma* financial analysis suggests that his recommended ROE of 9.25 percent would be sufficient to maintain "credit metrics at an investment grade utility level." <sup>199</sup>

#### Q. Do you agree with Mr. Gorman's analysis and conclusion?

14 A. No, I do not. First, simply maintaining an "investment grade" rating is an inappropriate standard. According to Standard & Poor's, only 6 of 221 utilities have had below investment grade ratings. 200 As Mr. Dewhurst explains, FPL must 16 compete for capital within the utility sector in the first instance, and with companies beyond utilities, overall. If Mr. Gorman is of the view that simply maintaining an investment grade rating is sufficient for that purpose, I disagree. 20 In my practical experience raising capital for a regulated utility, I can say

See Direct Testimony of Michael P. Gorman, at 56-57.

<sup>199</sup> *Ibid.*, at 57.

<sup>200</sup> See Standard & Poor's RatingsDirect, The Outlook for U.S. Regulated Utilities Remains Stable on Increasing Capital Spending and Robust Financial Performance, December 16, 2014, at 7-20.

1		firsthand that the competition for capital can be acute. Based on that practical
2		experience, I also can say that Mr. Gorman's "investment grade" standard would
3		frustrate the ability of FPL, or any other regulated utility, to raise capital under a
4		variety of market conditions, and at reasonable costs and terms.
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6		That fundamental concern aside, a wide range of ROE outcomes create pro forma
7		coverage ratios that fall within S&P's guidelines for the Company's current
8		rating. As shown in Exhibit RBH-31, using Mr. Gorman's analysis, an ROE of
9		6.55 percent creates coverage ratios that also fall within FPL's current range.
10		There is little question that 6.55 percent is an unrealistic estimate of the
11		Company's Cost of Equity.
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13		Mr. Gorman concludes that his 9.25 percent recommendation produces pro forma
14		ratios within S&P's "Intermediate" guideline and therefore supports an
15		investment grade credit rating. <sup>201</sup> Again, using Mr. Gorman's analysis, an ROE of
16		6.55 percent produces coverage ratios that also fall within the "Intermediate"
17		range. Again, I do not believe that 6.55 percent is a realistic estimate of the
18		Company's Cost of Equity. My 11.00 percent ROE recommendation also
19		produces coverage ratios that fall within the "Intermediate" range. 202
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21		In my view, the observation that that Mr. Gorman's 9.25 percent ROE produces
22		pro forma ratios that fall within the same ratings band as the 6.55 percent ROE
	201 202	Direct Testimony of Michael P. Gorman, at 57. Exhibit RBH-31.

	support the Company's financial integrity. As noted earlier, there are factors well beyond <i>pro forma</i> coverage ratios that weigh in rating determinations.
	beyond pro forma coverage ratios that weigh in rating determinations.
	As noted above, Mr. Gorman's analysis also assumes that the Company actually
	will be able to earn its authorized return, and its Funds From Operations will not
	be diluted by regulatory lag, additional capital spending, or any of the other
	factors that may dilute earnings and cash flow.
	Lastly, as Mr. Gorman recognizes, credit rating agencies consider a number of
	factors beyond coverage ratios. As noted in my response to Mr. O'Donnell, 50.00
	percent of Moody's ratings factors relate to the regulatory environment. Mr.
	Gorman's ROE recommendation, which is far below the national average return
	for vertically integrated electric utilities, would introduce an element of regulatory
	risk that could put pressure on FPL's credit profile, potentially increasing its cost
	of capital. Because Mr. Gorman's analysis appears to be overly simplified,
	relying on its results may well lead to incorrect conclusions.
	G. Flotation Costs
Q.	What is Mr. Gorman's position with regard to flotation costs.
	Q.

Mr. Gorman acknowledges that flotation costs are a legitimate cost of doing

business, but suggests that the Commission only allow recovery if the actual costs

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- are demonstrated and proven to be reasonable. Mr. Gorman further asserts that
  because FPL does not issue common stock, it does not incur flotation costs.<sup>203</sup>
- 3 Q. What is your response to Mr. Gorman's position?
- 4 As explained in my direct testimony, flotation costs are part of the invested costs A. 5 of the utility, which are properly reflected on the balance sheet under "paid in capital." They are not current expenses, and therefore are not reflected on the 6 7 income statement. Rather, like investments in rate base or issuance costs of long-8 term debt, flotation costs are incurred over time, but remain part of the cost structure that exists during the test year and beyond. 204 Although FPL does not 9 issue common stock, it still must compete for equity capital with other NextEra 10 11 Energy affiliates and investment opportunities. The common stock that which has 12 been issued by NextEra Energy, the parent holding company, includes flotation 13 costs, which are passed through to FPL. As such, I continue to believe it is 14 appropriate to consider flotation costs in the determination of where the 15 Company's ROE falls within the range of results.

### H. Response to Mr. Gorman's Criticisms

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- 17 Q. Please summarize Mr. Gorman's criticisms of your Cost of Equity analyses.
- A. Mr. Gorman asserts my estimated ROE is overstated and should be rejected because (1) my CAPM is based on inflated estimates of the Market Risk

Direct Testimony of Michael P. Gorman, at 60-61.

Roger A. Morin, <u>New Regulatory Finance</u>, (Public Utilities Reports, Inc. 2006), at 321-322; Shannon P. Pratt, <u>Cost of Capital Estimation and Applications</u>, Second Edition, at 220-221; and Cleveland S. Patterson, Flotation Cost Allowance in Rate of Return Regulation: Comment, <u>The</u> Journal of Finance Vol. XXXVIII, No. 4. September 1983, at 1337.

Premiums; (2) my Bond Yield Plus Risk Premium is based on inflated utility Equity Risk Premium; (3) my Risk Premium analyses rely on "stale" Treasury yields; (4) my Constant Growth DCF results are based on excessive, unsustainable growth rates; and (5) my Multi-Stage DCF is based on an unrealistic GDP growth estimate and unsustainable payout ratio assumptions. <sup>205</sup> I respond to each of those criticisms in turn, below.

# 7 Q. Please summarize Mr. Gorman's criticisms of your CAPM analysis.

Mr. Gorman's concern with my CAPM analysis lies primarily with my Market Risk Premium estimates.<sup>206</sup> In particular, Mr. Gorman states that my 12.82 percent and 13.63 percent projected returns on the market are "inflated."<sup>207</sup> To determine the reasonableness of my derived expected market returns, it is instructive to understand how often various ranges of total returns actually have occurred over the 1926 to 2015 period. In fact, the 12.82 percent and 13.63 percent estimates presented in my Direct Testimony, which Mr. Gorman asserts are "inflated,"<sup>208</sup> represent the approximately 49<sup>th</sup> percentile of the actual returns observed from 1926 to 2015. In other words, of the 90 annual observations, 46 were 13.63 percent or higher. Moreover, given the historical volatility in market returns (as noted by Morningstar, the long-term standard deviation is 19.99 percent), my total return estimates of 12.82 percent and 13.63 percent are

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Direct Testimony of Michael P. Gorman, at 58.

*Ibid.*, at 63.

*Ibid.*, at 64.

<sup>08</sup> Ibid.

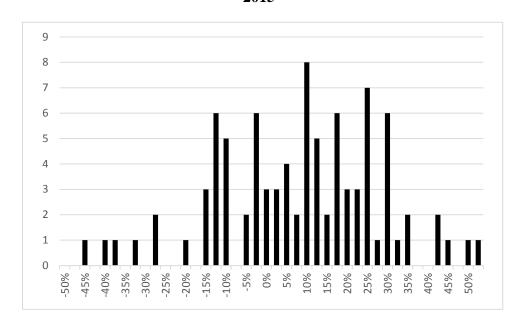
statistically	in distinguishable	from	the	long-term	arithmetic	average	of	11.95
percent. 209								

Mr. Gorman further asserts that the Market Risk Premia estimated from my projected market returns are "inflated and not reliable." I therefore performed a similar analysis using historical Market Risk Premia. I first gathered the annual Market Risk Premia reported by Morningstar, and produced a histogram of the observations (recall that Mr. Gorman includes historical data among the methods he uses to estimate the Market Risk Premium). The results of that analysis, which are presented in Chart 15 demonstrate that MRPs of at least 10.68 percent (the high end of the range of the MRP estimates in my Direct Testimony) will occur approximately half of the time.

See Morningstar, Inc., <u>2016 Ibbotson Stocks</u>, <u>Bonds</u>, <u>Bills and Inflation Classic Yearbook</u>, Appendix A, at 3-5; Exhibit RBH-32. Even if we were to look at the standard error, my estimate is well within one standard error of the long-term average.

Direct Testimony of Michael P. Gorman, at 63.

Chart 15: Frequency Distribution of Observed Market Risk Premia, 1926 - 2015<sup>211</sup>



# Q. Please summarize Mr. Gorman's criticisms of your Bond Yield Plus Risk Premium analysis.

Mr. Gorman's concern with my Bond Yield Plus Risk Premium analysis is my "contention" of a "simplistic inverse relationship" between the Equity Risk Premium and interest rates is not supported by academic research. Mr. Gorman further argues that the relevant factor explaining changes in the Equity Risk Premiums is the change to equity risk relative to debt risk, not changes in interest rates, alone. He concludes that my analysis ignores such investment risk differentials.

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Exhibit RBH-32.

Direct Testimony of Michael P. Gorman, at 66.

# Q. What is your response to Mr. Gorman's critiques?

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A. First, regarding the inverse relationship between the Equity Risk Premium and interest rates, I cited several academic studies in my Direct Testimony that support my findings.<sup>213</sup> Moreover, as explained above, Mr. Gorman's own data clearly demonstrate that the Equity Risk Premium moves inversely to interest rates (both Treasury Yields and Utility Bond Yields). Mr. Gorman may disagree with the premise, but empirical results based on his data support my position (*see* Exhibit RBH-29).

9 Q. Did you perform any additional analyses to address Mr. Gorman's concern
10 regarding the effect of expected market volatility and other interest rate
11 environments on your results?

Yes, I did. Although for the reasons discussed above I continue to believe the model is properly specified, I performed an additional analysis to specifically include the effect of equity market volatility, and credit spreads (*see* Exhibit RBH-33). As with my original Bond Yield Plus Risk Premium analysis, I defined the Risk Premium as the dependent variable, and the prevailing 30-year Treasury yield as an independent variable. I then included two additional explanatory variables: (1) the VIX (the Chicago Board Options Exchange's one-month volatility index, which is a common measure of volatility); and (2) the credit spread between the 30-year Treasury yield and the Moody's Baa Utility Index (as

Direct Testimony of Robert B. Hevert, at 24-25.

10	O.	What is your response to Mr. Gorman's concern that your CAPM and Bond
9		relative to Mr. Gorman's 9.25 percent recommendation (see, Exhibit RBH-33). 216
8		produces a more reasonable (although still low) ROE estimate of 9.95 percent
7		Treasury yield to the alternative Bond Yield Plus Risk Premium Analysis
6		Lastly, I note that applying Mr. Gorman's projected 3.40 percent 30-year
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4		Bond Yield Plus Risk Premium analysis. <sup>215</sup>
3		the resulting ROE estimates are generally consistent with those of my original
2		inverse relationship between Treasury yields and the Risk Premium remains, and
1		a measure of incremental risk). <sup>214</sup> In both instances, the statistically significant

What is your response to Mr. Gorman's concern that your CAPM and Bond Q.

Yield Plus Risk Premium analyses rely on "stale" Treasury yields?

12 A. The Treasury yield estimates used in my Direct Testimony corresponded with the 13 timing of the data used in my ROE analysis. Updated Treasury yield estimates as 14 of June 30, 2016 have been used in the analyses accompanying my Rebuttal 15 Testimony. Consequently, my analyses do not rely on "stale" Treasury yields, as 16 Mr. Gorman suggests.

<sup>214</sup> Mr. Gorman notes on page 27 of his testimony that his proxy group has an average Moody's credit rating of Baa1.

<sup>215</sup> See Exhibit RBH-3.

<sup>216</sup> Mr. Gorman uses a 3.40 percent projected Treasury yield in his risk premium analysis. See, Direct Testimony of Michael P. Gorman, at 47.

1	Q.	Turning to your DCF analysis, do you agree with Mr. Gorman's assertion
2		that the growth rates used in your constant growth DCF analysis are
3		"excessive" and "unsustainable"?

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A. No, I do not. Although Mr. Gorman argues that the consensus growth rates in my constant growth DCF model (averaging 5.39 percent) are high relative to his estimate of projected GDP growth and retention growth, he also notes that my mean results are similar to his own. Even though Mr. Gorman believes that my mean high Constant Growth DCF results of 10.08 percent, which are based on an average growth rate of 6.22 percent, are "not reasonable" estimates of the Company's Cost of Equity, those estimates are well within the prevailing range of authorized returns, a benchmark that Mr. Gorman appears to believe is relevant given that his Risk Premium method is predicated on authorized ROEs.<sup>217</sup>

Q. Please respond to Mr. Gorman's assertion your long-term growth rate is inconsistent with other consensus estimates of long-term GDP growth.

As noted in my response to Dr. Woolridge, the long-term growth rate in my multistage DCF analysis reflects growth expectations beginning ten years in the future, whereas Mr. Gorman's consensus GDP projections are only five or ten year projections. Because there are no consensus forecasts that begin in ten years, it is reasonable to assume that real growth will revert to its long-term average over time. Moreover, the terminal growth rate is intended to reflect expected growth in perpetuity and as such, the term of even the longest GDP forecast considered by

Direct Testimony of Michael P. Gorman, at 68-69.

Mr. Gorman does not reflect the expected, perpetual nature of the terminal gro	owth
assumed in the DCF model.	

In his Multi-Stage DCF analysis, Mr. Gorman cites to projections from the
Energy Information Administration ("EIA"), Congressional Budget Office
("CBO"), and other sources including the Social Security Administration
("SSA"), and suggests that the terminal growth rate in my Multi-Stage DCF
analysis is too high. $^{218}$ I address the EIA and CBO forecasts in my response to Dr.
Woolridge. In the case of the SSA forecast, my long-term growth estimate falls
well within the range of the "cases" that the SSA considers. 219 Moreover, Mr.
Gorman's 4.35 percent long-term sustainable growth rate conflicts with market
measures cited elsewhere in his testimony. For example, Mr. Gorman does not
consider the use of long-term historical data for the purpose of developing his
terminal growth rate, yet he relies on long-term historical data for the purposes of
his CAPM analyses. According to Duff & Phelps (which provides the data Mr.
Gorman relies on to estimate the historical Market Risk Premia), the arithmetic
average historical capital appreciation rate is 7.70 percent, which is substantially
higher than Mr. Gorman's 4.35 percent estimate of long-term GDP growth. <sup>220</sup>

*Ibid.*, at 39, 69.

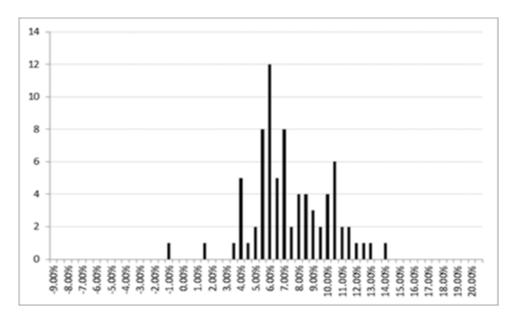
Tables V.B1 and V.B2 of the 2016 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds includes "Low Cost" scenario assumptions of 2.90 percent and 2.70 percent for the GDP Price Index, and Real GDP Growth, respectively, over the period 2025 through 2085. Combined, those projections indicate nominal GDP growth of approximately 5.70 percent.

Duff & Phelps, 2016 Valuation Handbook: Guide to Cost of Capital at 2-4. Even if we were to consider the geometric mean, the historical capital appreciation rate exceeds Mr. Gorman's 4.35 percent estimate; Mr. Gorman notes on page 37 of his testimony that the long-term geometric average growth rate is 5.80 percent.

Aside from the inconsistency with his other analyses, Mr. Gorman's low growth rate has the effect of producing unduly low DCF estimates.

To assess whether my 5.35 percent nominal GDP growth estimate is reasonable within the context of historical observations, consistent with Mr. Gorman's approach to his risk premium study, I calculated the average five- and ten-year annual GDP growth rates from 1929 to 2015, an 87-year period. I then arranged that data in histograms to provide a perspective of how frequently various levels of growth have occurred. As Chart 16 demonstrates, average annual growth as low as 4.35 percent has been observed very infrequently. In fact, average annual growth *exceeded* 4.35 percent in 68 of 77 ten-year periods.

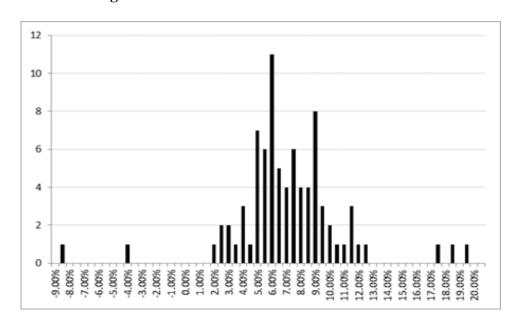
Chart 16: Average Annual GDP Growth Measured over Ten-Year Periods<sup>221</sup>



Source: Bureau of Economic Analysis.

I also calculated average GDP growth over five year periods. In that case, average annual GDP growth rate was greater than 4.35 percent in 70 of 82 periods (*see* Chart 17).

Chart 17: Average Annual GDP Growth Measured over Five-Year Periods<sup>222</sup>



Q. What is your response to Mr. Gorman's assertion that your payout ratio assumption is "unreasonable"?

Mr. Gorman argues that there is "no reason" to expect the dividend payout ratio of the proxy group to increase or change between growth stages of the model.<sup>223</sup> However, as noted in my Direct Testimony there are several reasons why management may adjust dividend payments in the near term, such as increases or decreases in expected capital spending.<sup>224</sup> Over the long term, it is reasonable to assume that payout ratios will converge to the industry average; that is, the

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<sup>&</sup>lt;sup>222</sup> *Ibid*.

Direct Testimony of Michael P. Gorman, at 72.

Direct Testimony of Robert B. Hevert, at 33.

1		analysis assumes that short-term trends in the payout ratio will not continue in
2		perpetuity.
3		
4		I also note that several of Mr. Gorman's proxy companies recently have discussed
5		target payout ratios that are highly consistent with my 67.30 percent assumption.
6		For example, in first and second quarter 2016 investor relations presentations,
7		Alliant Energy, NorthWestern Corporation, and Xcel Energy all noted target
8		payout ratios in the range of 60.00 percent to 70.00 percent. <sup>225</sup> Consequently, I
9		disagree with Mr. Gorman's position that a long-term payout ratio of
10		approximately 67.00 percent is unreasonable.
11		IV. RESPONSE TO SFHHA WITNESS BAUDINO
12	Q.	Please summarize Mr. Baudino's ROE analyses and ROE recommendation
12 13	Q.	Please summarize Mr. Baudino's ROE analyses and ROE recommendation in this proceeding.
	<b>Q.</b> A.	·
13		in this proceeding.
13 14		in this proceeding.  Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results
13 14 15		in this proceeding.  Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results of his Constant Growth DCF analyses. 226 Mr. Baudino also performs several
13 14 15		in this proceeding.  Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results of his Constant Growth DCF analyses. 226 Mr. Baudino also performs several
13 14 15 16		in this proceeding.  Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results of his Constant Growth DCF analyses. Mr. Baudino also performs several CAPM analyses, but does not rely on them to set his recommended ROE. 227
113 114 115 116 117		in this proceeding.  Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results of his Constant Growth DCF analyses. Mr. Baudino also performs several CAPM analyses, but does not rely on them to set his recommended ROE. Mr. Baudino notes that interest rates declined from January 2008 through May
113 114 115 116 117 118		in this proceeding.  Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results of his Constant Growth DCF analyses. Mr. Baudino also performs several CAPM analyses, but does not rely on them to set his recommended ROE. Mr. Baudino notes that interest rates declined from January 2008 through May 2016, and suggests that the required Return on Equity also is lower. As to the

1	equity ratio. <sup>229</sup> Lastly, because he believes they are accounted for in the stock
2	prices used in DCF analyses, Mr. Baudino suggests it is unnecessary to reflect
3	flotation costs in his ROE estimate. 230

- 4 Q. What are the principal areas in which you disagree with Mr. Baudino's ROE
- 5 analyses?
- 6 A. The principal areas in which I disagree with Mr. Baudino include: (1) the 7 composition and selection of the proxy group companies; (2) his reliance on the 8 Constant Growth DCF model to determine the Company's Cost of Equity; (3) the 9 growth rates applied in the Constant Growth DCF model; (4) the risk-free rate and 10 Market Risk Premium used in the CAPM; (5) whether the Bond Yield Plus Risk 11 Premium analysis provides reasonable estimates of the Company's Cost of 12 Equity; (6) the recovery of flotation costs; (7) our respective assessments of the 13 Company's level of business and financial risk; and (8) the reasonableness of the 14 Company's capital structure.

#### A. Proxy Group Composition

- Q. Please summarize the criteria by which Mr. Baudino selected his proxygroup.
- A. Mr. Baudino began with the electric utilities included in the June 2016 issue of AUS
   Utility Reports, and arrived at his proxy group by excluding companies that:
- 1. Were not rated at least "A" by Standard and Poor's or Moody's Investor Service;

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*Ibid.*, at 66-67.

<sup>229</sup> *Ibid.*, at 50.

1	2.	Have l	less than 50.00	percent of	f their reve	enues from	electric	operations;
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- 2 3. Do not have growth rates from Value Line and either Zacks or Thomson Financial;
- 4. Have recently cut or eliminated dividends; or
- 5. Were recently, or currently are involved in merger activities or significant restructuring.<sup>231</sup>

- Based on those criteria, Mr. Baudino developed a group of twelve companies.
- 8 Exhibit RBH-19 provides a comparison of the companies included in our
- 9 respective proxy groups.
- 10 Q. Are the scope and definition of the screens applied by Mr. Baudino generally
  11 consistent with those used in your Direct Testimony?
- 12 A. Although certain of the screening criteria are common to our analyses, there are certain differences between our approaches.
- Q. What are the primary differences between you and Mr. Baudino with respect
   to screening criteria?
- 16 A. The majority of the difference in our approaches relate to Mr. Baudino's use of
  17 proxy companies that: (1) receive less than 60.00 percent of their regulated net
  18 income from electric operations; (2) do not have meaningful amounts of regulated
  19 generating assets. In addition, seven companies included in my proxy group were
  20 excluded by Mr. Baudino because their bond credit ratings were below A from
  21 S&P or Moody's.

<sup>&</sup>lt;sup>231</sup> *Ibid.*, at 28.

I also excluded Edison International ("EIX") from my proxy group based on recent financial information. EIX's merchant generation business unit was placed into Chapter 11 bankruptcy and subsequently sold to NRG Energy. Although the sale of that segment was completed in April 2014, there are continuing effects on the company's near-term financial outlook associated with a settlement agreement related to the business units' bankruptcy, including required payments of \$204 million in 2015, and \$214 million in 2016. Consequently, I excluded EIX from my proxy group.

Despite those differences, the composition of our respective proxy groups has little effect on the differences in our analytical results.<sup>234</sup> Consequently, the analyses accompanying my Rebuttal Testimony include results for a Combined Proxy Group that contains most of the proxy companies relied on by the ROE witnesses in this case.<sup>235</sup>

See, Edison International, SEC Form 10-K, for the Fiscal Year Ended December 31, 2013, at 35-36.

See, Edison International, SEC Form 10-K, for the Fiscal Year Ended December 31, 2014, at 104. For example, Mr. Baudino reports an average Value Line Beta coefficient of 0.73 (see Exhibit No.\_\_(RAB-9), while the average Value Line Beta coefficient for my proxy group, excluding recent mergers, is 0.75 as of June 30, 2016.

As discussed in my response to Dr. Woolridge, I continue to exclude companies that have been party to a merger or significant transaction, or that do not own generation assets.

### B. Application of the Constant Growth DCF Analysis

1

2	Q.	Please briefly describe Mr. Baudino's Constant Growth DCF analysis and
3		results.
4	A.	Mr. Baudino calculates an average dividend yield of 3.44 percent by dividing
5		each proxy company's annualized dividend by its average monthly stock price for
6		the six-month period ending May 2016. <sup>236</sup> For the expected growth rate, Mr.
7		Baudino relies on Earnings Per Share growth rate projections from Value Line,
8		Zacks, and Thomson Financial, as well as Dividend Per Share growth rate
9		projections from Value Line. <sup>237</sup> Mr. Baudino then calculates DCF results based
10		on the mean and median growth rate of the four sources noted above, producing
11		eight ROE estimates, ranging from 8.15 percent to 9.54 percent. 238
12		
13		Mr. Baudino refers to the DCF results produced using mean growth rates as
14		"Method 1", and DCF results produced using median growth rates as "Method 2".
15		The mean DCF results of his Methods 1 and 2 were 8.64 percent and 8.87 percent,
16		respectively. <sup>239</sup>
17		
18		Lastly, Mr. Baudino considers a form of "sustainable growth", although he does
19		not appear to include that estimate in his final DCF analyses.

<sup>236</sup> Direct Testimony of Richard A. Baudino, at 29.

<sup>237</sup> 

Ibid., at 29.
Ibid., at 33, Exhibit No.\_\_\_(RAB-7).
Ibid. 238

- 1 Q. What are your concerns with Mr. Baudino's selection of growth rates for the
- 2 **DCF models.**
- 3 A. I disagree with Mr. Baudino's use of projected dividend growth rates in
- 4 estimating the Cost of Equity and the form of "sustainable growth" described in
- 5 Mr. Baudino's Direct Testimony. As discussed in my response to Dr. Woolridge,
- 6 academic literature supports the use of earnings growth rates in the DCF model.
- As also discussed in my response to Dr. Woolridge, my analyses demonstrate that
- 8 only earnings growth rates have a statistically significant ability to explain
- 9 valuation levels.
- 10 Q. Please describe the sustainable growth rate estimate used by Mr. Baudino.
- 11 A. Mr. Baudino states that he "utilized the sustainable growth formula", which he
- appears to have taken from Value Line's projected "Retained to Common Equity"
- rate. 240 As Mr. Baudino explains, the estimate is calculated as the product of the
- expected earned return on common equity ("R"), and the retention ratio (i.e., the
- portion of earnings not paid out in dividends, or "B").
- 16 Q. Do you agree with Mr. Baudino's sustainable growth rate estimate?
- 17 A. No, I do not. As discussed in my response to Dr. Woolridge, the sustainable
- growth model assumes that growth is a function of expected earnings, and the
- extent to which those earnings are retained (that is, not paid out in dividends).
- Mr. Baudino relies on the simplest form of the sustainable growth model, which
- sometimes is referred to as the "B x R" approach (where "B" is the earnings

<sup>&</sup>lt;sup>240</sup> *Ibid.*. at 31.

retention rate, and "R" is the expected Return on Common Equity). As Exhibit RBH-34 demonstrates, the B x R method is essentially equal to Value Line's "Retained to Common Equity" rate (differences are due to rounding).

If Mr. Baudino is going to consider a form of sustainable growth, he should use the "BR + SV" form of the model, which reflects growth from both internally generated funds (i.e., the "BR" term) and from issuances of equity (i.e., the "SV" term). As noted above, the first term is the product of the retention ratio (i.e., "B", or the portion of net income not paid in dividends) and the expected return on equity (i.e., "R"). The "SV" term can be represented as:

$$\left(\frac{m}{h}-1\right) \times Growth Rate in Common Shares$$

Where:

$$\frac{m}{h}$$
 = The Market to Book Ratio

In this form, the "SV" term reflects an element of growth as the product of (1) the growth in shares outstanding and (2) that portion of the market-to-book ratio that exceeds unity.

In addition, it is important to realize that for the purpose of setting utility rates, sustainable growth requires an estimate of the expected earned Return on Common Equity. Since the "R" in the "B x R" approach refers to the equity return, Mr. Baudino effectively has pre-supposed the Return on Common Equity projected by Value Line for his proxy group companies. Notwithstanding that Mr. Baudino has assumed the reasonableness of Value Line's projections for the

1	purpose of	his	sustainable	growth	calculation,	as	demonstrated	in	Exhibit	RBH-
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- 2 34, his recommended Cost of Equity of 9.00 percent is 108 basis points below the
- mean Return on Common Equity estimate (for his proxy group) of 10.08 percent.
- 4 Q. Putting aside those concerns, did Mr. Baudino use the sustainable growth
- 5 estimate in arriving at his DCF estimate?
- 6 A. No, he did not. Exhibit No.\_\_\_(RAB-7), page 2 provides the DCF calculations
- 7 that support Mr. Baudino's ROE recommendation; that page does not reference
- 8 the sustainable growth estimate. In addition, I have replicated Mr. Baudino's
- 9 Exhibit No.\_\_\_(RAB-7), page 2 (see Exhibit RBH-35), and confirmed that Mr.
- Baudino's DCF estimates do not include his sustainable growth estimate.
- 11 C. Multi-Stage DCF Analysis
- 12 O. What are Mr. Baudino's concerns with your Multi-Stage DCF analysis?
- 13 A. Mr. Baudino considers it "highly unlikely" that investors consider Multi-Stage
- DCF analyses, and he is concerned I have provided no evidence that investors (1)
- use GDP growth in their evaluation, or (2) rely on payout ratio assumptions
- similar to those included in my Multi-Stage DCF analysis. <sup>241</sup>
- 17 Q. Do you agree with Mr. Baudino's suggestion that it is "highly unlikely" that
- investors use Multi-Stage DCF models?
- 19 A. No, I do not. As discussed in my Direct Testimony, the Constant Growth DCF
- 20 Model requires a set of assumptions that can be quite limiting, and inconsistent

Direct Testimony of Richard A. Baudino, at 68.

with prevailing and expected conditions. Mr. Baudino has provided no basis to assume that investors would prefer the limited structure of the Constant Growth DCF Model to the more flexible Multi-Stage form. As to the use of Multi-Stage models, D. Roger Morin notes that it is "consistent with current valuation practices of institutional investors and is a common estimation technique used by financial analysts." For example, Morningstar describes a three-stage DCF approach (generally consistent with the model included in my Direct Testimony) in which the final stage assumes that long-run growth moves toward that of the overall economy. In addition, while we disagree on certain aspects of the application of the Multi-Stage DCF model, I note both Dr. Woolridge and Mr. Gorman also consider Multi-Stage DCF analyses.

#### 12 Q. Is GDP commonly used as a long-term growth rate assumption?

A. Yes, it is. As noted in my response to Dr. Woolridge, the use of expected long-term GDP growth in the terminal period is consistent with practice and financial literature. Morningstar's Multi-Stage DCF approach (noted above), for example, is similar to my methodology, including the use of GDP in the terminal growth period.<sup>244</sup> Nonetheless, if Mr. Baudino is of the view that (1) the Constant Growth DCF model is the better alternative, and (2) expected GDP growth is not a relevant measure of terminal growth, I have addressed those concerns by

*Ibid*.

Roger A. Morin, New Regulatory Finance, Public Utilities Reports, Inc., 2006, at 266.

See, Ibbotson SBBI 2013 Valuation Yearbook, Morningstar, Inc., at 50-52.

1		calculating the terminal value by reference to the proxy companies' recent P/E
2		ratios. <sup>245</sup>
3	Q.	What is your response to Mr. Baudino's concern with your assumption
4		regarding payout ratios? <sup>246</sup>
5	A.	I believe it is reasonable to assume that near-term payout ratios likely reflect
6		downward pressure due to increased utility capital requirements, but will revert to
7		the long-term industry average over the horizon of the DCF analysis. I note that
8		assumption is consistent with the Value Line data presented in Mr. Baudino's
9		Exhibit No(RAB-7), which indicates near-term dividend growth is expected
10		to outpace earnings growth by approximately 130 basis points, on average, for
11		Mr. Baudino's proxy group. In that regard, it is the Constant Growth DCF model
12		relied on by Mr. Baudino (which assumes that payout ratios will remain
13		unchanged in perpetuity) that is inconsistent with investor expectations.
14		
15		Moreover, as discussed in more detail in my response to Mr. Gorman, a number
16		of electric utility companies have indicated that their payout ratios likely will
17		increase, and that they are targeting payout ratio ranges highly consistent with the
18		long-term industry average used in my Multi-Stage DCF analysis.

As noted earlier, the Constant Growth DCF model assumes a constant P/E ratio, in perpetuity. Direct Testimony of Richard A. Baudino, at 68.

### D. Capital Asset Pricing Model

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2	Q.	Please summarize Mr. Baudino's CAPM analyses.
3	A.	As noted earlier, Mr. Baudino performs two sets of CAPM analyses. His first set
4		calculates two Market Risk Premium measures, which rely on the forecasted
5		market total return as determined using Value Line projections, and five and 20-
6		year Treasury security yields (i.e., 1.40 percent and 2.34 percent, respectively).
7		Mr. Baudino calculates a total growth rate for the market of 10.44 percent, using
8		the average of the book value and earnings growth forecasts (7.00 percent and
9		11.00 percent, respectively) for all companies covered by Value Line. Mr.
10		Baudino combines that average growth rate with Value Line's average expected
11		dividend yield of 0.84 percent for the same group of companies, and calculates an
12		expected market return of 10.44 percent. <sup>247</sup>
13		
14		Mr. Baudino's two Market Risk Premium measures represent the difference between (1)
15		his calculated expected market total return, and (2) the current yield on five and 20-year
16		Treasury securities. Mr. Baudino arrives at his CAPM results using the average Value
17		Line Beta coefficient of 0.73 for his proxy companies. <sup>248</sup>
18		
19		Mr. Baudino's second set of CAPM analyses calculate the geometric and
20		arithmetic mean long-term annual returns on stocks, and long-term annual income

returns on long-term government bonds, resulting in two historical measures of

247 Exhibit No.\_\_\_(RAB-8). Exhibit No.\_\_\_(RAB-8).

1		the Market Risk Premium. <sup>249</sup> Mr. Baudino uses those two Market Risk Premium
2		measures in combination with the current 20-year Treasury bond yield and the
3		average Value Line Beta coefficient to calculate two additional CAPM results.
4		
5		Although Mr. Baudino advises the Commission to consider only his DCF results
6		in establishing the Company's ROE, he does report CAPM results ranging from
7		6.02 percent to 8.28 percent, reasoning that those results indicate that his 9.00
8		percent ROE recommendation is "generous". 250
9	Q.	Do you agree with Mr. Baudino's application of the CAPM and his
10		interpretation of its results?
11	A.	No, there are two areas in which I disagree with Mr. Baudino: (1) the term of the
12		Treasury security used as the risk-free rate component of the model; and (2) the
13		calculation of the Market Risk Premium. In addition, for the reasons discussed
14		throughout my Rebuttal Testimony, I disagree that Mr. Baudino's 9.00 percent
15		ROE recommendation is "generous".
16	Q.	Turning first to the risk-free rate component, why do you disagree with Mr.
17		Baudino's use of five and 20-year Treasury securities as the measure of the
18		risk-free rate?
19	A.	As discussed below, the tenor of the risk-free rate used in the CAPM should
20		match the life (or duration) of the underlying investment. As noted by
21		Morningstar:
	249 250	Direct Testimony of Richard A. Baudino, at 38 and Exhibit No(RAB-9). <i>Ibid.</i> , at 41-42.

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The traditional thinking regarding the time horizon of the chosen Treasury security is that it should match the time horizon of whatever is being valued. When valuing a business that is being treated as a going concern, the appropriate Treasury yield should be that of a long-term Treasury bond. Note that the horizon is a function of the investment, not the investor. If an investor plans to hold stock in a company for only five years, the yield on a five-year Treasury note would not be appropriate since the company will continue to exist beyond those five years.<sup>251</sup>

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Pratt and Grabowski recommend a similar approach to selecting the risk-free rate: "In theory, when determining the risk-free rate and the matching ERP you should be matching the risk-free security and the ERP with the period in which the investment cash flows are expected."252 To that point, a 2004 paper titled Applying The Capital Asset Pricing Model by Robert Harris reviews current practices for application of the CAPM and, when summarizing best current practices, concludes "[t]he risk-free rate should match the tenor of the cash flows being valued."<sup>253</sup> As a practical matter, equity securities represent a perpetual claim on cash flows; 30-year Treasury bonds are the longest-maturity securities available to match that perpetual claim.

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253 Paper cited with permission of author.

Morningstar, Inc., 2013 Ibbotson Stocks, Bonds, Bills and Inflation Valuation Yearbook, at 44. 252 Shannon Pratt and Roger Gabrowski, Cost of Capital: Applications and Examples, 3rd Ed. (Hoboken, NJ: John Wiley & Sons, Inc., 2008), at 92. "ERP" is the Equity Risk Premium.

2	One measure of the term of expected cash flows is Equity Duration. In finance,
3	"duration" (whether for bonds or equity) typically refers to the present value
4	weighted time to receive the security's cash flows. In terms of its practical
5	application, duration is a measure of the percentage change in the market price of
6	a given stock in response to a change in the implied long-term return of that stock.
7	A common investment strategy is to "immunize" the portfolio by matching the
8	duration of investments with the term of the underlying asset in which the funds
9	are invested, or the term of a liability being funded.

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As demonstrated in Exhibit RBH-36, the average Equity Duration of the companies in Mr. Baudino's proxy group is approximately 30.47 years. Given that relatively long Equity Duration, and knowing that utility assets are comparatively long-lived, I continue to believe that it is appropriate to use the long-term Treasury yield as the measure of the risk-free rate.

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Q.

# Is Mr. Baudino's assumption that five and 20-year Treasury yields are equally valid measures of the risk-free rate supported by his data?

A. No, it is not. As discussed above, the mean Equity Duration of the companies in Mr. Baudino's proxy group is 30.47 years. In comparison, the current duration of five-year, 20-year and 30-year Treasuries are 4.88, 16.57, and 21.46 years respectively. Although the duration of even the longest-term Treasury security falls short of the average Equity Duration for Mr. Baudino's proxy group, the 30-

See Exhibit RBH-37.

1	year Treasury yield provides the longest available duration and, therefore, is the
2	best available security for that purpose. The principle of duration is relevant to
3	the electric utility stocks that comprise Mr. Baudino's proxy group, given that
4	institutional investors own (on average) 75.75 percent of those companies'
5	shares. <sup>255</sup>

# Q. Putting aside the issue of Equity Duration, does Mr. Baudino's DCF model recognize the perpetual nature of equity?

A. Yes, it does. As Mr. Baudino correctly observes, the Constant-Growth DCF model assumes growth in perpetuity: "the stream of income from the equity share is assumed to be perpetual; that is, there is no salvage or residual value at the end of some maturity date (as is the case with a bond)."<sup>256</sup>

# What would be the effect of assuming the companies in Mr. Baudino's proxy group only provided cash flows to equity investors over five or 20 years?

A. As shown in Exhibit RBH-38, assuming a 20-year holding period, the mean and median DCF would be 1.44 percent, and 1.69 percent, respectively. Interestingly, both of those ROE estimates are below Mr. Baudino's assumed 2.34 percent risk-free rate (*i.e.*, six month average of the 20-year Treasury yield). Assuming a holding period of five years produces mean and median ROE estimates of negative 36.93 percent and negative 36.50 percent, respectively. The only way Mr. Baudino's DCF results could be realized is if the shares were sold at the end of the five and 20-year holding periods, and the prices at which they are sold

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Q.

Source: SNL Financial.

Direct Testimony of Richard A. Baudino, at 26.

1	reflect cash flows in perpetuity. Those results support the point made earlier in
2	my testimony: The risk-free rate should reflect the perpetual nature of equity.
3	Because the longest-dated Treasury security is 30 years, that is the appropriate
4	term for this purpose.

- What is your response to Mr. Baudino's suggestion that "the risk-free rate should have no interest rate risk?" should have no interest rate risk?" 57
- A. The process of duration matching mitigates interest rate risk. In any event, if Mr.

  Baudino is concerned with interest rate risk, he should focus exclusively on shortterm Treasury Bills as the risk-free rate. Doing so, of course, would further
  decrease his already-low CAPM estimates. Consequently, I disagree with Mr.
  Baudino's position that interest rate risk disqualifies the 30-year Treasury yield as
  the appropriate measure of the risk-free rate.
- Q. What concerns do you have with Mr. Baudino's *ex-ante* Market Risk Premium calculations?
- 15 A. In arriving at his *ex-ante* Market Risk Premium estimates, Mr. Baudino calculates 16 the expected market return using an average of earnings growth projections (11.00 17 percent) and book value growth projections (7.00 percent). As noted above, 18 academic research indicates investors rely on estimates of earnings growth in 19 arriving at their investment decisions. The analysis presented in Exhibit RBH-22 20 (discussed in more detail in my response to Dr. Woolridge) also demonstrates 21 book value growth rates are not a statistically significant indicator of electric

<sup>257</sup> *Ibid.*, at 62.

Q.	Do you agree with Mr. Baudino's use of historical estimates of the MRP?
	increase his MRP estimate by 1.00 percentage points (100 basis points).
	book value growth estimates from Mr. Baudino's market return calculation would
	analysis but exclude them from his proxy company DCF analyses. Excluding
	explained, however, why it is reasonable to include those growth rates in his MRP
	value growth projections in his proxy group-based DCF analysis. He has not
	utility company valuations. In that regard, Mr. Baudino did not include book

A.

No, I do not. The MRP represents the additional return required by equity investors to assume the risks of owning the "market portfolio" of equity relative to long-term Treasury securities. As with other elements of Cost of Equity analyses, the MRP is meant to be a forward-looking parameter. As Morningstar observes:

It is important to note that the expected equity risk premium, as it is used in discount rates and cost of capital analysis, is a forward looking concept. That is, the equity risk premium that is used in the discount rate should be reflective of what investors think the risk premium will be going forward.<sup>258</sup>

That is why the MRP estimates used in my CAPM analyses specifically rely on forward-looking, market-based estimates of the expected market return.

Morningstar, Inc., 2013 Ibbotson Stocks, Bonds, Bills, and Inflation Valuation Yearbook, at 53.

1	Q.	Please briefly summarize Mr. Baudino's comments regarding your ex-ante
2		CAPM analyses.
3	A.	Mr. Baudino disagrees with my ex-ante Market Risk Premium, noting that the
4		underlying growth rates "are by no means long-run sustainable growth rates." 259
5		Mr. Baudino further suggests that the forecasted Treasury bond yields relied upon
6		in my CAPM analyses are "speculative at best and may or may not come to
7		pass.'' <sup>260</sup>
8	Q.	Do you agree with Mr. Baudino's concerns in that regard?
9	A.	No, I do not. As discussed in my response to Mr. Gorman, my estimates of the
10		Market Risk Premium and the growth rates underlying them are consistent with
11		historical measures.
12		
13		Regarding the use of projected interest rates, it is important to remember that, as
14		Mr. Baudino states, "[r]eturn on equity analysis is a forward-looking process." 261
15		In that regard, Mr. Gorman, Dr. Woolridge, and I consider forward-looking
16		estimates of the risk-free rate. Even if Mr. Baudino is concerned that the
17		projections may not come to pass, the increases in forward long-term Treasury
18		yields demonstrate that investors believe interest rates are likely to rise. <sup>262</sup>

Because our analyses are predicated on market expectations, the expected

Direct Testimony of Richard A. Baudino, at 63. *Ibid.*, at 62. *Ibid.*, at 30. 259

<sup>260</sup> 

<sup>261</sup> 

<sup>262</sup> See, Chart 13.

- 1 increase in Treasury yields (as reflected in increasing forward rates) is a
  2 measurable and relevant data point.
- 3 E. Bond Yield Plus Risk Premium Approach
- 4 Q. What concerns does Mr. Baudino express regarding your Bond Yield Plus
- 5 Risk Premium analyses?

- A. Mr. Baudino suggests that the Bond Yield Plus Risk Premium method is

  "imprecise and can only provide very general guidance," and notes that "[r]isk

  premiums can change substantially over time." In summary, Mr. Baudino likens

  the approach to a "blunt instrument". As to its application, Mr. Baudino disagrees with the use of projected Treasury yields in calculating the range of
- 12 Q. What is your response to Mr. Baudino's observations?

Risk Premium-based results.

13 A. As to Mr. Baudino's point that the Risk Premium can change over time, I agree. 14 As noted in my Direct Testimony (and as discussed in my response to Mr. 15 Gorman), there is a statistically significant negative relationship between long-16 term Treasury yields and the Equity Risk Premium. Given Mr. Baudino's 17 observation that interest rates have declined since 2008, the Bond Yield Plus Risk 18 Premium analysis provides an empirically and theoretically sound method of 19 quantifying the relationship between the Cost of Equity and interest rates. That is, 20 it provides a method to quantify the change that Mr. Baudino has observed.

Direct Testimony of Richard A. Baudino, at 65. *Ibid.* 

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2 As to Mr. Baudino's notion that the approach is a "blunt instrument," I disagree.

As shown in Exhibit RBH-12, the R-squared of the Bond Yield Plus Risk

Premium regression analysis is 0.71, indicating a rather high degree of

explanatory value. In comparison, Beta coefficients calculated based on the

Value Line methodology have a mean R-squared of only 0.19 (see Exhibit RBH-

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As Exhibit RBH-40 demonstrates, using the 95.00 percent confidence interval of

the Bond Yield Plus Risk Premium regression's equation coefficient estimates,

the ROE results range from 9.47 percent to 10.89 percent. That 142 basis point

range is approximately equal to the range of DCF model results reported by Mr.

Baudino (8.15 percent to 9.54 percent, or 139 basis points). 265 It also is

considerably less than the range of CAPM results reported by Mr. Baudino (6.02

percent to 8.28 percent, or 226 basis points). Consequently, the Bond Yield Plus

Risk Premium approach provides empirically and theoretically sound results that

can be used, at minimum, to assess the wide range of ROE results produced by

Mr. Baudino's analyses in general, and his 9.00 percent recommendation in

particular.

#### F. Flotation Costs

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2	Q.	Please now summarize Mr. Baudino's response to your proposed flotation
3		cost adjustment.

A. Mr. Baudino believes it is "likely that flotation costs are already accounted for in current stock prices" and that an adjustment to the DCF result would amount to "double counting." <sup>266</sup>

### 7 Q. Do you agree with Mr. Baudino's concerns?

A. No, I do not. Mr. Baudino states that "[m]ultiplying the dividend yield by a 4% flotation cost adjustment, for example, essentially assumes that the current stock price is wrong and that it must be adjusted downward to increase the dividend yield and the resulting cost of equity."<sup>267</sup>

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The flotation cost estimate used in my Direct Testimony, however, is well below 4.00 percent. Moreover, the adjustment is not calculated by "[m]ultiplying the dividend yield by a 4% flotation cost adjustment", as Mr. Baudino suggests. Rather, it is calculated by dividing the dividend yield by a factor of (1 – flotation costs). Further, Mr. Baudino's suggestion that current prices "likely" account for flotation costs is misplaced. Because of direct issuance costs (such as those provided in Exhibit RBH-9 to my Direct Testimony), the net proceeds received by the Company were less than the market price of the offerings. Absent a direct

Direct Testimony of Richard A. Baudino, at 66.

<sup>267</sup> *Ibid.*, at 67.

See, Exhibit RBH-18.

1	recovery of those costs, the ROE should be adjusted to reflect that deficiency
2	(which will persist in perpetuity).

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- I also note that although Mr. Baudino suggests that current prices "likely" account for flotation costs, he has provided no analyses as to what costs are reflected in prices, or how prices have adjusted in response to those costs. Conversely, my Direct Testimony provided a summary of direct costs incurred by the proxy companies to acquire the equity capital needed to fund the Company's rate base.
- 9 G. Relative Risk and Financial Integrity
- 10 Q. Has Mr. Baudino expressed any concerns with your consideration of the business risks associated with FPL?
- 12 A. Yes. Mr. Baudino suggests that the Company's credit rating already accounts for the risks discussed in my Direct Testimony.
- Q. Do you believe that credit ratings are an appropriate measure to determine the relative risk of FPL relative to the proxy group?
- A. Not entirely. As discussed in my response to Dr. Woolridge, credit ratings are directed toward the interests of debt investors. The view that differences in credit ratings "notches" among investment grade utilities can be used as a proxy for differences in the Cost of Equity fails to recognize the senior position that debt holders have relative to equity holders, and the investment horizon considered by equity holders. Moreover, Exhibit RBH-26 shows that there is not a quantifiable relationship between the proxy companies' credit ratings and Cost of Equity.

1	Q.	Does the fact that Standard & Poor's ranks FPL as having an "Excellent"
2		Business Risk Profile indicate they have less risk than other electric utilities?
3	A.	No, it does not. A review of recent regulated electric utilities credit ratings from
4		S&P Ratings Direct highlighted the prevalence of "Excellent" business risk
5		profiles among electric utilities. Of 107 electric utility operating companies,
6		S&P reported that 79 companies (i.e., approximately 75.00 percent) had
7		"Excellent" business risk profiles (see Exhibit RBH-41). Among those with
8		"Excellent" business risk profiles, S&P's credit ratings ranged from as high as
9		AA- to as low as BB+ (i.e., below investment grade). As such, FPL's "Excellent"
10		business risk profile from S&P does not distinguish the Company as being less
11		risky than other electric utilities, nor does it insulate the Company from the
12		detrimental effects of Mr. Baudino's ROE recommendation.

### 13 H. Capital Structure

- Q. What is Mr. Baudino's position with regard to the Company's capital structure?
- A. Mr. Baudino recommends an equity ratio of 55.00 percent if the Commission authorizes an ROE of 9.00 ROE, but an equity ratio of 53.00 percent if the allowed ROE is higher than 9.00 percent.<sup>269</sup> In support of his recommendation, Mr. Baudino notes the single highest equity ratio, at the holding company level, for his proxy group is approximately 55.00 percent and that the average equity

Direct Testimony of Richard A. Baudino, at 4 and 53.

ratio for the prox	y group us	sed in my	Direct '	Testimony	was appro	oximately	53.00
percent.							

A.

As discussed in my response to Dr. Woolridge, I believe the appropriate comparison is to the range of equity ratios in place at similar operating electric utilities. Reviewing the capital structures in place at the electric utility operating companies held within the Combined Proxy Group, it is apparent FPL's equity ratio is consistent with the proxy group's financing practices. I further discuss the Company's capital structure in response to Mr. O'Donnell.

#### V. RESPONSE TO WAL-MART WITNESS CHRISS

#### Q. Please summarize Mr. Chriss' testimony regarding the Company's ROE.

Mr. Chriss opposes my recommendation because it is higher than the average of authorized ROEs from regulatory commissions, both nationally and in Florida, since 2013.<sup>270</sup> Mr. Chriss also argues that the Commission should consider the Company's future test year and the percentage of revenues recovered through base rates versus cost recovery mechanisms.<sup>271</sup> Lastly, Mr. Chriss suggests that the Commission consider the effect of increases in rates on retailers. Chriss did not, however, undertake an independent, market-based analysis of the Company's Cost of Equity.

*Ibid.*. at 9-10.

See, Direct Testimony of Steve W. Chriss, at 10-11.

1	Q.	Have you reviewed and updated the information contained in Mr. Chriss'
2		Exhibit SWC-4?
3	A.	Yes. As shown in Exhibit RBH-42, I have updated Mr. Chriss' Exhibit SWC-4
4		and added jurisdictional rankings from Regulatory Research Associates ("RRA").
5		RRA, which is the source of Mr. Chriss' rate case data, provides an assessment of
6		the extent to which regulatory jurisdictions are constructive from investors'
7		perspectives, or not. As RRA explains, less constructive environments are
8		associated with higher levels of risk:
9		RRA maintains three principal rating categories, Above
10		Average, Average, and Below Average, with Above Average
11		indicating a relatively more constructive, lower-risk regulatory
12		environment from an investor viewpoint, and Below Average
13		indicating a less constructive, higher-risk regulatory climate
14		from an investor viewpoint. Within the three principal rating
15		categories, the numbers 1, 2, and 3 indicate relative position.
16		The designation 1 indicates a stronger (more constructive)
17		rating; 2, a mid range rating; and, 3, a weaker (less
18		constructive) rating. We endeavor to maintain an
19		approximately equal number of ratings above the average and
20		below the average. <sup>272</sup>
21		Sorting the data relating to Mr. Chriss' Exhibit SWC-4 by RRA's ranking, two
22		points become apparent. First, looking at all cases there is an approximately 45
	272	Source: Regulatory Research Associates, accessed May 18, 2015.

basis point difference between the average return for "Above Average" and "Average" jurisdictions (the higher-ranked jurisdictions providing the higher authorized returns), and a 25 basis point difference between "Average" and "Below Average" jurisdictions (see Table 6, below). As Table 6 indicates, ROEs for Vertically Integrated electric utilities in "Above Average" jurisdictions range from 9.70 percent to 10.95 percent, with a median of 10.20 percent.

Table 6: Average Authorized ROE by RRA Ranking

	AUTHORIZED ROE: VERTICALLY INTEGRATED			
RRA Ranking	Above Avg.	Avg.	Below Avg.	
Total Cases	18	46	7	
Minimum	9.70	9.00	9.48	
Mean	10.17	9.79	9.70	
Median	10.20	9.80	9.70	
Maximum	10.95	10.30	9.96	

Those observations are important since (as discussed in my response to Mr. O'Donnell, below) the authorized ROE is a very visible measure of the regulatory environment in which utilities operate. The regulatory environment, in turn, is important to utility analysts and investors.

# Q. Please now summarize Mr. Chriss' concerns regarding the effect of a rate increase on retailers.

A. Mr. Chriss states that "electricity is a significant operating cost for retailers", and that "[w]hen electric rates increase, that increased cost to retailers can put pressure on consumer prices and on the other expenses required by a business to

operate."273 Mr. Chriss suggests that the Commission "should thoroughly and carefully consider the impact to customers in examining the requested revenue requirement and ROE, in addition to all other facets of this case, to ensure that any increase in the Company's rates is only the minimum amount necessary to provide adequate and reliable service, while also providing an opportunity to earn a reasonable return."274

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Although Mr. Chriss points out certain pressures that apply to retail businesses such as Wal-Mart, those companies have options not available to regulated utilities such as FPL. Wal-Mart has the option to choose whether, where, and when to open retail stores; what services or products will be offered; whether to invest in expansions, or whether to cease operations in a given location. Further, retail businesses may choose to increase their prices without gaining the approval of regulatory commissions. Quite simply, the options available to retailers such as Wal-Mart are not available to regulated utilities. Such options have value; forgoing those options comes at a cost.

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Lastly, despite the pressures that Mr. Chriss discusses, since 200 Wal-Mart's Return on Shareholders' Equity has averaged over 20.00 percent. 275 Value Line currently estimates Wal-Mart's Beta coefficient to be 0.65, and assesses Wal-Mart's Financial Strength as A++. NextEra Energy, on the other hand, has a Beta

<sup>273</sup> 

Direct Testimony of Steve Chriss, at 7.

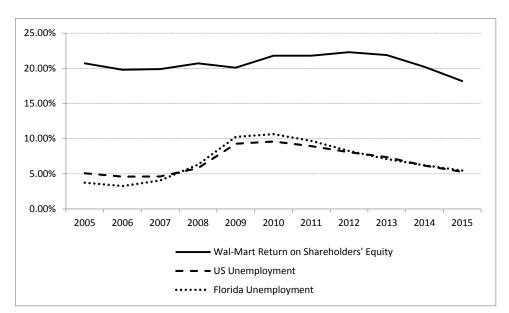
<sup>274</sup> Direct Testimony of Steve Chriss, at 7.

Source: Value Line, as of April 29, 2016.

1 coefficient of 0.70, and a Financial Strength rating of A. By those measures, Wal-2 Mart is measurably less risky than NextEra Energy.<sup>276</sup>

### Chart 18: Wal-Mart Return on Shareholders' Equity and Unemployment

4 rates (2005-2015)<sup>277</sup>



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Q. What is your response to Mr. Chriss' recommendation that the commission "examine" the proposed ROE in light of the company's future test year and cost recovery mechanisms?

A. Mr. Chriss asks the Commission to "examine" the proposed ROE in light of the company's future test year and percentage of revenue derived from cost recovery mechanisms, however he does not provide any explanation or analysis to support how these factors would affect FPL's ROE.<sup>278</sup>

Source: Value Line, as of May 20, 2016. Please note that Value Line does not separately rate FPL.

Sources: Value Line; Bureau of Labor Statistic (www.bls.gov).

Direct Testimony of Steve Chriss, at 13-14.

In that regard, the position that a reduction in revenue volatility necessarily requires a reduction in the Cost of Equity runs counter to Modern Portfolio Theory, which is the fundamental basis of the Capital Asset Pricing Model. Under Modern Portfolio Theory, total risk is separated into two distinct components: non-diversifiable risk, which is that portion of risk that can be attributed to the market as a whole; and non-systematic (or diversifiable) risk, which is attributable to the idiosyncratic nature of the subject company itself and, therefore, can be diversified away. Any reduction in the Cost of Equity depends on the type of risk that is reduced. If the risk assumed to be mitigated by rate mechanisms is diversifiable, there would be no reduction in the Cost of Equity because investors could otherwise mitigate the risk through portfolio diversification. If, on the other hand, the risk is non-diversifiable (that is, systematic), it may be that the factors that drove the need to implement the mechanisms also are systematic. That is, if the factors that drove the implementation of rate structures reflected increased systematic risk, those structures would offset that incremental risk and there would be no reduction in the Cost of Equity. Either way, Mr. Chriss has not addressed that crucial issue.

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### Q. How common are revenue stabilization and cost recovery mechanisms?

There is little question that revenue stabilization and cost recovery structures are becoming increasingly common. The increased use of such mechanisms has generally resulted from the growing cost of maintaining system reliability, coupled with the flat or declining sales volume. Adjustment mechanisms to recover fuel costs, purchased power expenses, energy efficiency and demand-side

program costs, new plant investment, and other expenses are common.<sup>279</sup> In addition, decoupling has been implemented by electric utilities in 27 jurisdictions.<sup>280</sup> Consequently, the implementation of alternative regulation mechanisms has become an increasingly visible issue to investors.

#### 5 Q. Are revenue stabilization mechanisms common among the proxy companies?

Yes, they are. Exhibit RBH-43 provides a summary of revenue stabilization mechanisms and cost trackers currently in effect at each electric utility subsidiary of the Combined Proxy Group companies. As Exhibit RBH-43 demonstrates, there are a substantial number of cost recovery mechanisms in place at the proxy companies. Although those mechanisms are diverse, they each address issues related to the timing or certainty of cost recovery. Exhibit RBH-43 also includes a summary of the alternative regulation and incentive plans currently in effect at the proxy companies. Those regulatory constructs include formula-based rate plans, which provide comprehensive adjustment mechanisms that automatically adjust rates in the event that the earned return is above or below an authorized range. Since revenue stabilization and cost recovery mechanisms are common among the proxy companies, I do not believe FPL is materially less risky than its peers by virtue of its recovery mechanisms.

A.

See Exhibit RBH-43.

See, for example, Alternative Regulation for Emerging Utility Challenges: 2015 Update, Edison Electric Institute, November 2015, at 4-5. Includes true-up plans, lost revenue adjustment mechanisms, and fixed/variable pricing.

1	Q.	Has Mr. Chriss considered the effect of his recommendation on the
2		Company's financial profile?
3	A.	No, he has not. As discussed in my response to Mr. O'Donnell (below), it is
4		important to recognize that both Moody's and Standard & Poor's put considerable
5		weight on the nature of regulation. Here, Mr. Chriss suggests that the
6		Commission should reduce the Company's ROE by some unspecified amount
7		without the benefit of market-based, comparative analyses to support that
8		recommendation. The consequence of such an action likely would indicate an
9		increased degree of regulatory risk. In my view, therefore, Mr. Chriss has not
10		reasonably considered the effect of his recommendation on the Company's
11		financial profile and, therefore, its ability to attract capital on reasonable terms.
12		VI. RESPONSE TO OTHER ROE WITNESSES
13	Q.	Please summarize Messrs. Brosch's and Pollock's testimony as they relate to
14		the Company's Cost of Capital.
15	A.	While they review recently authorized ROEs, neither Messrs. Brosch nor Pollock
16		perform an independent analysis of the Company's cost of capital.
17		
18		Based on his review of average authorized ROEs as well as changes in long-term
19		Treasury yields, Mr. Brosch concludes capital market conditions are "very

favorable" and recommends that the Commission therefore allow an ROE "that is

significantly lower than the authorized ROE levels approved in recent FPL rate

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1	orders."281 With regard to capital structure, Mr. Brosch recommends an equity
2	ratio of no more than 47.00 percent based on his review of the average equity
3	ratio used by large electric utility holding companies, as reported by AUS, EEI
4	and Y Charts. 282

Mr. Pollock performs a similar review of authorized ROEs for vertically integrated electric utilities and concludes that average authorized ROEs have declined and notes that the most recent authorized ROEs in Florida ranged from 10.25 percent to 10.50 percent. Based on that analysis Mr. Pollock concludes an 11.00 percent ROE is "excessive," and recommends the Commission authorize FPL an ROE below the average ROE allowed by other state regulatory commissions to reflect the lower risk associated with a 60.00 percent equity ratio. With regard to capital structure, Mr. Pollock recommends an equity ratio of 51.10 percent based on the average authorized electric utility equity ratio since 2012. Percent based on the average authorized electric utility equity ratio since

**O.** What

Q. What is your response to Messrs. Brosch and Pollock regarding the appropriate ROE for FPL in relation to recently authorized ROEs?

A. First, although both witnesses argue the average authorized ROE has recently been below 10.00 percent, as discussed in my response to Mr. Chriss, the median authorized ROE for vertically integrated utilities in credit supportive jurisdictions

See, Direct Testimony of Michael L. Brosch, at 38-39.

See, Direct Testimony of Michael L. Brosch, at 48, 50-51.

Direct Testimony of Jeffry Pollock, at 30.

*Ibid.*, at 30-31.

<sup>&</sup>lt;sup>285</sup> *Ibid.*, at 32.

has been 10.20 percent since January 2013. Of the 18 ROEs authorized for
vertically integrated electric utilities by credit supportive jurisdictions since the
beginning of 2013, 16 have been 10.00 percent or higher. 286

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Second, neither Mr. Brosch nor Mr. Pollock took in to consideration the when Company's specific business risks determining their ROE recommendations. As discussed in my Direct Testimony and discussed above, I believe the estimation of the Cost of Equity should take into consideration FPL's risk factors, including: (1) the Company's geographic risk, including its vulnerability to severe weather conditions; (2) the Company's need to access external capital; (3) the potential for new regulatory requirements associated with nuclear generation; and (4) the potential for an increase in the Cost of Equity over the Company's proposed four year rate period. Messrs. Brosch and Pollock's simple review of average authorized ROEs does not take into account those considerations.

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Q.

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should be lowered to reflect the general decline in 30-year Treasury yields? While the current 30-day average of the 30-year Treasury yield (2.50 percent as of June 30, 2016) is somewhat below the level seen at the time of the order in the Company's last rate case (2.81 percent as of December 13, 2012), Treasury yields have been rather volatile over the intervening period and spent much of the past

What is your response to Mr. Brosch's suggestion that the Company's ROE

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few years at higher levels.

A.

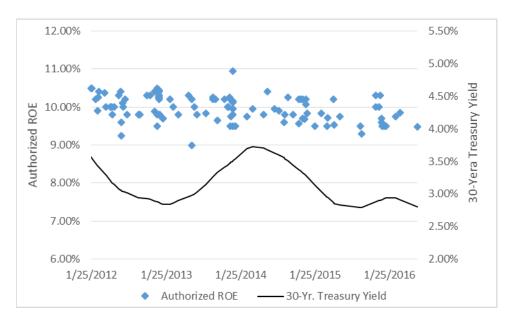
As discussed above, the recent lows in Treasury yields have been associated with a capital flight to safety associated with the "Brexit" and have recently begun to rise off the lows seen during that period. As discussed in my response to Mr. Gorman, consensus forecasts reported by Blue Chip continue to suggest investors expect rates to rise. Similarly, recent prices for options on the TLT index continue to show that investors are willing to pay a significant premium for protection against rising interest rates relative to declining interest rates. Importantly, the potential for rising rates represents risk for utility investors. For example, (as discussed above) the S&P Electric Utility Index lost approximately 15.00 percent of its value in the first half of 2015 as Treasury yields rose 86 basis points to 3.11 percent (from the end of January to the end of June).

# Q. Have authorized ROEs changed in tandem with recent fluctuations in Treasury yields?

No, they have not. As shown in Chart 19 below, since January 2012 there has been no discernible relationship between the level of authorized ROEs for electric utilities and changes in long-term interest rates. The fact that authorized returns remained relatively stable over that period reflects the inverse relationship between interest rates and the Equity Risk Premium; it also may reflect the observation that utility commissions recognize that Federal policy – including "Quantitative Easing" – created unusual market conditions.

## Chart 19: Authorized ROEs for Vertically Integrated Electric Utilities

#### (January 2012 - June 2016) and 30-Year Treasury Yields<sup>287</sup>



# Q. What is your response to Messrrs. Brosch's and Pollock's recommendations regarding the Company's capital structure?

Mr. Brosch suggests higher debt leverage would be beneficial to ratepayers and recommends an equity ratio of 47.00 percent (or lower) based on his estimate of the industry average equity ratio. <sup>288</sup> To support his conclusion, Mr. Brosch compares the Company's existing capital structure to the reported investor owned holding company equity ratios reported by AUS, Edison Electric Institute and Y Charts. <sup>289</sup> As discussed in my response to Dr. Woolridge (above), my review of the actual capital structures in place at the operating companies held within my proxy group reflects the nature of assets financed by vertically integrated utilities

<sup>289</sup> *Ibid.* 

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Source: Regulatory Research Associates and Federal Reserve Schedule H.15. Average 30-year Treasury over average lag period (200 days). Limited-issue riders are excluded.

See, Direct Testimony of Michael L. Brosch, at 51.

such as FPL. Based on that review, it is apparent that the Company's current			
capital structure is generally consistent with the capital structures of the proxy			
companies. As discussed in my response to Mr. O'Donnell (below), my updated			
capital structure analysis continues to support the reasonableness of the			
Company's capital structure.			

Mr. Pollock recommends an equity ratio of 51.10 percent based on the average authorized equity ratio since 2012.<sup>290</sup> A review of the authorized equity ratios reported in Mr. Pollock's Exhibit\_\_\_(JP-4), however, shows that the Company's 59.60 percent equity ratio is within the range of equity ratios authorized to other vertically integrated electric utilities and is consistent with the Company's most recently authorized equity ratio. Given FPL's specific operating risks and capital needs, I believe the Company's current capital structure is reasonable and Mr. Pollock's suggestion to rely on the average authorized equity ratio is misplaced.

#### VII. RESPONSE TO OPC WITNESS O'DONNELL

Q. Please summarize Mr. O'Donnell's recommendation regarding the
 Company's capital structure

A. Mr. O'Donnell recommends a capital structure of 46.93 percent long-term debt, 3.07 percent short-term debt, and 50.00 percent common equity. Mr. O'Donnell's recommendation is based on his review of other electric utility capital structures,

Direct Testimony of Jeffry Pollock, at 32 and Exhibit (JP-4).

- 1 authorized equity ratios reported by RRA, and the capital structure of NextEra
- 2 Energy and its unregulated subsidiaries.<sup>291</sup>

### 3 Q. Do you agree with Mr. O'Donnell's recommended capital structure?

4 A. No I do not. As noted in my Direct Testimony, FPL is a separate corporate entity 5 with its own capital structure and the Company's current capital structure is 6 consistent with the range of capital structures in place at the operating utilities held by the proxy companies.<sup>292</sup> As discussed by Company witness Dewhurst, 7 8 FPL has maintained a stable equity ratio over time, which has provided the 9 financial support necessary to maintain FPL's credit rating and access to capital 10 following severe storm damage and during turbulent economic conditions. As 11 discussed below, adding debt to the capital structure (as Mr. O'Donnell 12 recommends) increases financial risk and, therefore, the Cost of Equity.

# Q. How does the capital structure affect the Cost of Equity?

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14 A. In the practice of finance, we often speak of two general categories of risk:

15 business risk and financial risk. Business risk generally includes operating,

16 market, regulatory, and competitive uncertainties, whereas financial risk is

17 associated with additional levels of debt in the capital structure (often referred to

18 as "financial leverage"). As the degree of financial leverage increases, the risk of

19 financial distress (*i.e.*, the risk of not meeting financial obligations as they become

20 due) also increases. In essence, even if two firms face the same business risks, the

Direct Testimony of Kevin W. O'Donnell, at 15, 21.

Direct Testimony of Robert B. Hevert, at 67.

company	with	higher	levels	of c	debt	in its	capital	structure	is	likely to	o have	highe
total risk	and, t	herefor	e, high	ner o	costs	of bo	oth debt	and equ	ity.			

Business and financial risk are related in that financial leverage has the effect of concentrating business risk on equity investors. By way of example, if a firm were capitalized with 100.00 percent common equity, there would be no financial risk and individual equity holders would hold *pro rata* shares of business risk. If the firm were capitalized with 60.00 percent equity and 40.00 percent debt, the equity investors would continue to bear residual business risk, even though they represent only 60.00 percent of the capital structure. As Brigham and Gapenski point out, "...the use of debt, or financial leverage, concentrates the firm's business risk on its stockholders."<sup>293</sup>

It is also important to recognize both the complexity and the dynamic nature of the relationship between capital structure, financial integrity, cost of capital and maintaining ongoing access to capital at reasonable costs. In particular, financing costs go beyond coupon rates, and any measure of an "optimal" capital structure must consider the numerous objectives and constraints associated with financing decisions. In my practical experience raising capital for a publicly traded utility, I can say firsthand that capital structure "optimization" is an extremely complex notion. Simply reviewing holding company or authorized equity ratios without

Eugene F. Brigham, Louis C. Gapenski, <u>Financial Management</u>, <u>Theory and Practice</u>, 1994, The Dryden Press, at 528.

- 1 considering differences in situations, constraints, or objectives is an overly
  2 simplistic approach that is likely to lead to flawed conclusions.
- Q. Please describe your review of FPL's capital structure relative to industry
   practice.
- 5 A. In Exhibit RBH-10, I calculated the average capital structure for each of the utility 6 operating companies held by the proxy companies over the most recent eight 7 fiscal quarters (ending in the third calendar quarter of 2015). I have updated that 8 analysis in Exhibit RBH-17 using the Combined Proxy Group. As that Exhibit 9 demonstrates, for the period ending in the first quarter of 2016 the proxy group 10 companies' average common equity ratios ranged from 45.95 percent to 61.00 11 percent. Based on that updated review, FPL's equity ratio remains within the 12 range of those in place at the operating utilities of the proxy companies. Although 13 this comparison is not specific to FPL, it does recognize that utility operating 14 companies must finance long-lived assets, and must access capital regardless of 15 market conditions. It also indicates that the Company's equity ratio is within the 16 range of those in place at other vertically integrated electric utilities.
- Q. Are there implications of increasing the debt component and reducing the common equity component of FPL's capital structure?
- 19 A. Yes, there are. Based on criteria established by Standard and Poor's ("S&P"), a
  20 credit rating reflects the combination of the company's "Business Risk" rating
  21 and its "Financial Risk" rating. With regard to business risk, Standard & Poor's
  22 ("S&P") has noted that:

The assessment of regulatory risk is perhaps the most
important factor in Standard & Poor's Ratings Services'
analysis of a U.S. regulated, investor-owned utility's business
risk. Each of the other four factors we examinemarkets,
operations, competitiveness, and managementcan affect the
quality of the regulation a utility experiences, but we believe
the fundamental regulatory environment in the jurisdictions in
which a utility operates often influences credit quality the
most. <sup>294</sup>

Similarly, Moody's considers the regulatory structure to be so important that 50.00 percent of the factors that weigh in a ratings determination are related to the nature of regulation.<sup>295</sup> Among the factors considered by Moody's in assessing the regulatory framework are the predictability and consistency of regulatory actions:

As the revenues set by the regulator are a primary component of a utility's cash flow, the utility's ability to obtain predictable and supportive treatment within its regulatory framework is one of the most significant factors in assessing a utility's credit quality. The regulatory framework generally provides more certainty around a utility's cash flow and typically allows the company to operate

Standard & Poor's, *Utilities: Assessing U.S. Utility Regulatory Environments*, updated November 15, 2011

Moody's Investors Service, Rating Methodology; Regulated Gas and Electric Utilities, at 6 (Dec. 23, 2013).

1		with significantly less cushion in its cash flow metrics than
2		comparably rated companies in other industrial sectors.
3		***
4		In situations where the regulatory framework is less supportive,
5		or is more contentious, a utility's credit quality can deteriorate
6		rapidly. <sup>296</sup>
7		A decision by the Commission to increase FPL's debt ratio (i.e., increase FPL's
8		financial leverage) therefore could adversely affect investors' perception of the
9		regulatory environment in Florida.
10	Q.	Please explain your concern with Mr. O'Donnell's recommendation relative
11		to the financial community's view of Florida regulation.
12	A.	As discussed in my response to Mr. Chriss, Florida is considered to be a credit-
13		supportive jurisdiction. Any decrease in the perception of regulatory
14		supportiveness in Florida may increase investors' assessment of FPL's regulatory
15		risk (and therefore its business risk and Business Risk rating), increasing FPL's
16		cost of capital. As noted earlier, Moody's considers the regulatory structure to be
17		so important that 50.00 percent of the factors that weigh in a ratings determination
18		are related to the nature of regulation.
19		
20		As also discussed in Mr. Dewhurt's rebuttal testimony, if the Commission were to
21		adopt Mr. O'Donnell's recommendation, it would represent a departure from
	296	Moody's Investors Service, Regulatory Frameworks – Ratings and Credit Quality for Investor-Owned Utilities, at 2 (June 18, 2010).

recent precedent. In light of Moody's focus on "predictable and supportive
treatment," I strongly disagree with Mr. O'Donnell that his recommendation
somehow would not have any impact on how credit rating agencies view FPL. <sup>297</sup>
Such a dramatic change by the Commission from previous decisions would create
an immediate and lasting concern for investors of the supportiveness of the
regulation in Florida.

A.

# Q. What is your conclusion regarding the appropriate capital structure forFPL?

It is important for FPL's capital structure to reflect the Company's risks, and to provide sufficient financial support to maintain liquidity and access to capital. Considering that the proxy company average equity ratios range from 45.95 percent to 61.00 percent, I believe that FPL's 59.60 percent common equity ratio is reasonable. Increasing FPL's debt leverage would increase its Cost of Equity, and potentially reduce investor confidence in the regulatory support for its operations and increase its financial risk. I believe it is likely the increased financial and regulatory risk would increase investors' required returns.

See, Direct Testimony of Kevin W. O'Donnell, at 25-26.

#### VIII. RESPONSE TO OPC WITNESS LAWTON

2	Q.	Please summarize Mr. Lawton's testimony regarding the supportiveness of
3		Dr. Woolridge's ROE recommendation and Mr. O'Donnell's capital
4		structure recommendation for FPL's financial integrity.

A. Mr. Lawton suggests that Dr. Woolridge's 8.75 percent ROE recommendation and Mr. O'Donnell's 50.00 equity / 50.00 percent debt capitalization recommendation are sufficient to maintain FPL's financial integrity.<sup>298</sup> To support his position, Mr. Lawton notes that he reviewed credit rating agency commentary, and determined that FPL's credit quality is considered "strong," and "not threatened or under significant pressure of a downgrade."<sup>299</sup> Mr. Lawton also performs a *pro forma* analysis of certain financial metrics (including Cash From Operations to Interest, Cash From Operations to Debt, and Debt to Capital) to support his position and concludes that the results "indicate strong financial metrics, supporting FPL's current bond rating."<sup>300</sup>

# 15 Q. How do ratings agencies' view the use of credit metrics in ratings 16 determinations?

A. Ratings agencies provide benchmark guidelines that associate credit metric ranges with different credit ratings, but credit ratings are not determined by mechanical application of financial ratios to a rating matrix. For example, On November 30, 2007, S&P released a statement announcing that electric, gas, and water utility

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Direct Testimony of Daniel J. Lawton, at 30.

<sup>&</sup>lt;sup>299</sup> *Ibid.*, at 24.

<sup>300</sup> *Ibid.*, at 26.

1	ratings would be "categorized under the business risk/financial risk matrix used
2	by the Corporate Ratings group." 301 S&P also provided matrices of business and
3	financial risk, based on "Financial Risk Indicative Ratios": FFO/Debt;
4	FFO/Interest; and Total Debt/Capital. In that announcement, S&P noted that:
5	even after we assign a company business risk and
6	financial risk, the committee does not arrive by rote at
7	a rating based on the matrix. The matrix is a guide
8	it is not intended to convey precision in the ratings
9	process or reduce the decision to plotting intersections
10	on a graph. Many small positives and negatives that
11	affect credit quality can lead a committee to a different
12	conclusion than what is indicated in the matrix. <sup>302</sup>
13	
14	On May 27, 2009, S&P expanded its matrix, and noted the relative significance of
15	credit metrics to the rating process:
16	The rating matrix indicative outcomes are what we
17	typically observe - but are not meant to be precise
18	indications of guarantees of future rating opinions.
19	Positive and negative nuances in our analysis may lead
20	to a notch higher or lower than the outcomes indicated
21	in the various cells of the matrix.

Standard & Poor's Ratings Services, *U.S. Utilities Ratings Analysis Now Portrayed In The S&P Corporate Ratings Matrix*, Nov. 30, 2007, at 2 – 3. *Ibid.*, at 3.

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requirement. The metrics therefore are a result of the regulatory process, i.e., the

overall rate of return, which in turn is a function of the capital structure (debt and

Standard & Poor's Ratings Services, *Criteria Methodology: Business Risk/Financial Risk Matrix Expanded*, May 27, 2009, at 4-5.

Standard & Poor's Ratings Services, *Methodology: Business Risk/Financial Risk Matrix Expanded*, September 18, 2012, at 4.

1	equity ratios),	debt cost rate a	and the allowed	ROE. It	is not the other	way around

2 To set a component of the overall rate of return, such as the ROE and equity ratio,

based on pro forma credit metrics therefore is a circular exercise, and one that in

my experience is atypical of the regulatory process.

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Assessing recommended equity ratios and ROEs on the basis of *pro forma* credit metrics therefore should be done with the explicit understanding that other, often qualitative factors weigh heavily in ratings determinations. Like so many other aspects of corporate finance, ratings determinations are an empirical, but not an entirely mathematical exercise. Because so many other factors are considered, a focused review of *pro forma* metrics is the type of partial analysis that

# 13 Q. Please describe Mr. Lawton's *pro forma* financial metric analysis.

A. Alternately assuming FPL and OPC's proposed ROE and capital structures, Mr.

Lawton calculates the following ratios: Cash From Operation to Debt

(CFO/Debt), Cash From Operations to Interest (CFO/Interest), and Debt to Total

Capital (Debt/Capital). Mr. Lawton then compares the results of those ratios to

Moody's benchmark guidelines for "A" and "Baa" rated bonds.

Direct Testimony of Daniel J. Lawton, Exhibit\_\_\_(DJL-5). Mr. Lawton also varied certain revenue requirement assumptions based on the Company's and OPC's position, including rate

base and depreciation & amortization.

practitioners avoid.

1	Q.	Does Mr. Lawton's analysis support his position that OPC's recommended
2		8.75 percent ROE and 50.00 equity / 50.00 percent debt capital structure
3		would continue to support the Company's current bond rating?
4	A.	No, I do not believe so. As Mr. Lawton notes, Mr. O'Donnell's proposed 50.00
5		percent equity ratio falls below Moody's benchmark for an A rating (55.00

percent to 65.00 percent equity). 306 In addition, Mr. Lawton's pro forma financial metric analysis shows OPC's ROE and capital structure recommendations would result in a 22.52 percent CFO/Debt ratio, which is at the bottom end of the 22.00 percent to 30.00 percent benchmark guideline for an "A" rating. 307 As noted above, although a given financial metric may be within a given benchmark range, other factors may affect the rating agency's actual rating assessment.

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With regard to the CFO/Interest financial metric, I believe relying on Mr. Lawton's pro forma results to assess the credit supportiveness of any specific ROE or equity ratio is misplaced. In particular, I examined the robustness of using that measure as a threshold benchmark by recreating the analysis provided in Schedule (DJL-5) and testing variations in the assumed ROE. As shown in Table 7 (below) relying on the assumptions in the scenario in column "A" of Mr. Lawton's Schedule (DJL-5), including the Company's existing equity ratio of 59.60 percent, but adjusting the ROE to 0.00 percent (i.e., no return on equity) still produces a CFO/Interest in the "A" rating category. The assumption that the

<sup>306</sup> Direct Testimony of Daniel J. Lawton, at 30. A 35.00 percent to 45.00 percent Debt/Capital ratio implies a 55.00 percent to 65.00 percent equity ratio. 307

Company could maintain an A-rating with a 0.00 percent allowed return on equity is clearly misplaced, and certainly does not provide a reasonable benchmark for determining an equity ratio that satisfies the *Hope & Bluefield* standards acknowledged by Mr. Lawton. Assuming the scenario in column "B" of Mr. Lawton's schedule, including a 50.00 percent equity ratio, but adjusting the ROE to 6.25 percent also produces a CFO/Interest ratio in the A-rating category. Consequently, the CFO/Interest metric does not appear to be a good measure for assessing the reasonableness of ROE or capital structure proposals.

Table 7: CFO/Interest – Variations in Mr. Lawton's Analysis<sup>309</sup>

	Assum	ptions	Moody's Guideline (4.5x – 6.0x = A rating)	
Scenario	ROE	Equity Ratio	CFO/ Interest	Implied Rating
Scenario A – Original	11.50%	59.60%	8.6x	Aaa
Scenario A – with 0.00% ROE	0.00%	59.60%	4.8x	A
Scenario B – Original	8.75%	50.00%	5.1x	A
Scenario B – with 6.25% ROE	6.25%	50.00%	4.5x	A

I also note a similar test of the robustness of Mr. Lawton's CFO/Debt analysis produces similarly unlikely results. For example, assuming OPC's recommendations as provided in Schedule (DJL-5), but adjusting the ROE to negative 0.76 percent would still achieve a CFO/Debt ratio sufficient for a Baa rating (13.00 percent).

*Ibid.*, at 24.

See also, Exhibit RBH-44.

Lastly, I note that Moody's April 2015 Credit Opinion of FPL stated that a
downgrade of the Company's rating would be considered "if there are significant
cost disallowances or other changes to Florida's credit-supportive regulatory and
cost recovery framework, or if there is a sustained decline in cash flow coverage
metrics, including CFO Pre-WC-to-debt below 25%, or an increase in debt-to-
capitalization above the 40% range." Mr. Lawton's pro forma analysis indicates
OPC's recommendations result in financial metrics below the thresholds Moody's
notes would trigger consideration of a downgrade.

Q.

A.

Are there other considerations that should be taken in to account when determining the credit supportiveness of OPC's ROE and capital structure recommendations?

Yes. As noted above, financial metrics are only one factor rating agencies take into consideration when assessing a company's credit rating. The assessment of the regulatory environment is another important factor. In that regard, Moody's notes that the regulatory "framework in which a regulated utility operates is typically one of its most significant credit considerations. The regulatory structure and its general framework is a primary consideration that differentiates the industry from most other corporate sectors." Moody's further explains:

As the revenues set by the regulator are a primary component of a utility's cash flow, the utility's ability to obtain predictable and supportive treatment within its

See Moody's Investors Service, Special Comment: Regulatory Frameworks – Ratings and Credit Quality for Investor-Owned Utilities, June 18, 2010, at 1.

regulatory framework is one of the most significant
factors in assessing a utility's credit quality. The
regulatory framework generally provides more certainty
around a utility's cash flow and typically allows the
company to operate with significantly less cushion in its
cash flow metrics than comparably rated companies in
other industrial sectors. In situations where the
regulatory framework is less supportive, or is more
contentious, a utility's credit quality can deteriorate
rapidly. 311

I believe the effect of (1) authorizing an equity ratio significantly below the ratio long used by FPL to successfully finance its operations (through a range of market and operating conditions); and (2) authorizing an ROE that is not only 175 basis points below the Company's currently authorized ROE, but is also below the lowest ROE authorized for a vertically integrated electric utility in at least the last 30-years, would be to reduce investors' assessment of the regulatory supportiveness for FPL. A perception of unsupportiveness, or regulatory inconsistency, could linger long into the future and affect FPL's ability to access the capital markets on favorable terms, especially during times of market unrest or operational strain from extensive weather related damage.

#### IX. UPDATED AND REVISED ANALYSES

2	Э.	Have vou	updated	the analy	ses presented	in vour	Direct 7	Testimony?
_	<b>~</b> •			J	202 2200			

- 3 A. Yes. I have updated the Constant Growth DCF, Multi-Stage DCF, CAPM, and
- 4 Risk Premium analyses presented in my Direct Testimony with data as of June 30,
- 5 2016. As noted in my response to Dr. Woolridge, I performed the analyses for a
- 6 Combined Proxy Group comprised of the companies included by the opposing
- 7 ROE witnesses and me in our respective proxy groups.

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## 8 Q. Please summarize your updated CAPM analysis.

- 9 A. I have continued to use the same inputs used in my Direct Testimony, updated
- through June 30, 2016. For the risk-free rate, I continue to refer alternately to (1)
- the 30-day average of the 30-year Treasury yield; and (2) a consensus forecast of
- the average 30-year Treasury yield for 2017 and 2020. Likewise, I continue to
- rely on published Beta coefficients from Bloomberg and Value Line, and the ex-
- ante market risk premia described in my Direct Testimony (i.e., the expected
- return on the S&P 500 Index less the current 30-year Treasury yield).

### 16 Q. What are your updated CAPM results?

- 17 A. As shown in Table 8 (below; see also, Exhibit RBH-11), based upon updated
- market information, my CAPM analyses produce a range of ROE estimates from
- 19 8.97 percent to 12.64 percent.

	Bloomberg Derived Market Risk Premium	Value Line Derived Market Risk Premium
Bloomberg Beta	Coefficient	
Current 30-Year Treasury (2.50%)	8.97%	9.29%
Blue Chip Forecast 2017 (3.40%)	9.86%	10.19%
Blue Chip Forecast 2020 (4.40%)	10.86%	11.19%
Value Line Beta	Coefficient	
Current 30-Year Treasury (2.50%)	10.35%	10.75%
Blue Chip Forecast 2017 (3.40%)	11.25%	11.64%
Blue Chip Forecast 2020 (4.40%)	12.25%	12.64%

## 3 Q. Please summarize your updated Risk Premium analysis.

A. My updated Risk Premium analysis includes authorized ROEs as reported by Regulatory Research Associates through June 30, 2016. For the purpose of calculating the expected risk premium and ROE, I have used the current and projected 30-year Treasury yield. As shown in Table 9 (below; see also, Exhibit RBH-12), my updated results range from 10.04 percent to 10.37 percent.

**Table 9: Bond Yield Plus Risk Premium Results** 

Assumed Treasury Yield	Implied ROE
Current 30-Year Treasury (2.50%)	10.04%
Blue Chip Forecast 2017 (3.40%)	10.08%
Blue Chip Forecast 2020 (4.40%)	10.37%

# 1 Q. Please summarize your updated Constant Growth DCF and Multi-Stage

- 2 **DCF** analyses.
- 3 A. I have continued to use projected earnings growth rates from Zacks, First Call,
- 4 and Value Line in developing my Constant Growth and Multi-Stage DCF models.
- 5 The results are shown in Table 10 (below); see also, Exhibit RBH-13 to Exhibit
- 6 RBH-14.

**Table 10: Discounted Cash Flow Model Results** 

	Low Growth Rate	Mean Growth Rate	High Growth Rate
	Mean Constant G	rowth DCF Results	
30-Day Average	8.32%	8.91%	9.41%
90-Day Average	8.41%	8.99%	9.49%
180-Day Average	8.60%	9.19%	9.69%
	Mean Multi-St	age DCF Results	
	Low Growth Rate	Mean Growth Rate	High Growth Rate
30-Day Average	9.03%	9.16%	9.28%
90-Day Average	9.12%	9.26%	9.38%
180-Day Average	9.33%	9.48%	9.61%
Mean M	Multi-Stage DCF Re	sults – Terminal P/E	at 20.86
	Low Growth Rate	Mean Growth Rate	High Growth Rate
30-Day Average	9.44%	9.79%	10.09%
90-Day Average	9.67%	10.03%	10.32%
180-Day Average	10.18%	10.54%	10.84%

#### X. SUMMARY AND CONCLUSION

Ο. \	What are	vour overall	conclusions an	d recommendation	ıs?
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Based on the analyses discussed throughout my Rebuttal Testimony, I conclude that my recommended range of 10.50 percent to 11.50 percent, and within that range, 11.00 percent, remains a reasonable and appropriate estimate of FPL's Cost of Equity. The results of the updated DCF, CAPM, and Bond Yield Plus Risk Premium analyses, along with my analyses of capital market data, authorized returns in other regulatory jurisdictions, and assessment of rating agency concerns and criteria support the reasonableness of my range of ROE estimates and my recommendation. Furthermore, I do not support certain intervenors' recommendation to authorize a hypothetical capital structure below the Company's actual capital structure.

A.

As discussed above, the period over which my analyses were performed included market data that were highly unusual and inconsistent with the DCF model's fundamental assumptions. In my view, therefore, Risk Premium-based methods should be given more weight than the DCF-based approaches. Doing so supports my recommended range of 10.50 percent to 11.50 percent, and my ROE recommendation of 11.00 percent.

# 20 Q. Does this conclude your rebuttal testimony?

21 A. Yes, it does.

#### Capital Asset Pricing Model Results Bloomberg and Value Line Derived Market Risk Premium

	[1]	[2]	[3]	[4]	[5]	[6]
			Ex-Ante Marke	t Risk Premium	CAPM	Result
			Bloomberg	Value Line	Bloomberg	Value Line
	Risk-Free	Average Beta	Market DCF	Market DCF	Market DCF	Market DCF
	Rate	Coefficient	Derived	Derived	Derived	Derived
'						
PROXY GROUP BLOOMBERG BETA COEFFICIEN	IT					
Current 30-Year Treasury (30-day average) [7]	2.50%	0.610	10.59%	11.13%	8.97%	9.29%
Blue Chip Financial Forecast 2017 Projection [8]	3.40%	0.610	10.59%	11.13%	9.86%	10.19%
Blue Chip Financial Forecast 2020 Projection [9]	4.40%	0.610	10.59%	11.13%	10.86%	11.19%
Mean					9.90%	10.23%

			Ex-Ante Marke	t Risk Premium	CAPM	Result
			Bloomberg	Value Line	Bloomberg	Value Line
	Risk-Free	Average Beta	Market DCF	Market DCF	Market DCF	Market DCF
	Rate	Coefficient	Derived	Derived	Derived	Derived
PROXY GROUP VALUE LINE AVERAGE BETA CO	DEFFICIENT					
Current 30-Year Treasury (30-day average) [7]	2.50%	0.741	10.59%	11.13%	10.35%	10.75%
Blue Chip Financial Forecast 2017 Projection [8]	3.40%	0.741	10.59%	11.13%	11.25%	11.64%
Blue Chip Financial Forecast 2020 Projection [9]	4.40%	0.741	10.59%	11.13%	12.25%	12.64%
Mean					11.28%	11.68%

- Notes:

  [1] See Notes [7] and [8]

  [2] Source: Schedule (RBH)-16

  [3] Source: Schedule (RBH)-15

  [4] Source: Schedule (RBH)-15

  [5] Equals Col. [1] + (Col. [2] x Col. [3])

  [6] Equals Col. [1] + (Col. [2] x Col. [4])

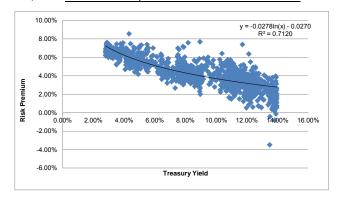
  [7] Source: Bloomberg Professional

  [8] Source: Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017.

  [9] Source: Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.

#### Bond Yield Plus Risk Premium

	[1]	[2]	[3] 30-Year	[4]	[5]
			Treasury	Risk	Return on
	Constant	Slope	Yield	Premium	Equity
	-2.70%	-2.78%			<u>.</u>
•	Current 30-	Year Treasury	2.50%	7.53%	10.04%
Blue Chip Financia	al Forecast 2	017 Projection	3.40%	6.68%	10.08%
Blue Chip Financia	al Forecast 2	020 Projection	4.40%	5.97%	10.37%



- Notes:

  [1] Constant of regression equation
  [2] Slope of regression equation
  [3] Source: Current = Bloomberg Professional,
  Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017.
  - Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
- [4] Equals [1] + ln([3]) x [2]
- [5] Equals [3] + [4]
- [6] Source: SNL Financial
- [7] Source: SNL Financial
- [8] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
- [9] Equals [7] [8]

Bon	d Yield Plus	Risk Premiur	n
[6]	[7]	[8]	[9]
Date of		30-Year	
Electric Rate	Return on	Treasury	Risk
Case	Equity	Yield	Premium
1/1/1980	14.50%	9.36%	5.14%
1/7/1980	14.39%	9.38%	5.01%
1/9/1980	15.00%	9.40%	5.60%
1/14/1980	15.17%	9.42%	5.75%
1/17/1980	13.93%	9.44%	4.49%
1/23/1980	15.50%	9.47%	6.03%
1/30/1980	13.86%	9.52%	4.34%
1/31/1980	12.61%	9.53%	3.08%
2/6/1980	13.71%	9.58%	4.13%
2/13/1980	12.80%	9.63%	3.17%
2/14/1980	13.00%	9.65%	3.35%
2/19/1980	13.50%	9.68%	3.82%
2/27/1980	13.75%	9.78%	3.97%
2/29/1980	13.75%	9.81%	3.94%
2/29/1980	14.00%	9.81%	4.19%
2/29/1980	14.77%	9.81%	4.96%
3/7/1980	12.70%	9.89%	2.81%
3/14/1980	13.50%	9.97%	3.53%
3/26/1980	14.16%	10.10%	4.06%
3/27/1980	14.24%	10.12%	4.12%
3/28/1980	14.50%	10.13%	4.37%
4/11/1980	12.75%	10.27%	2.48%
4/14/1980	13.85%	10.29%	3.56%
4/16/1980	15.50%	10.31%	5.19%
4/22/1980	13.25%	10.35%	2.90%
4/22/1980	13.90%	10.35%	3.55%
4/24/1980	16.80%	10.38%	6.43%
4/29/1980	15.50%	10.41%	5.09%
5/6/1980	13.70%	10.45%	3.25%
5/7/1980	15.00%	10.45%	4.55%
5/8/1980	13.75%	10.46%	3.29%
5/9/1980	14.35%	10.47%	3.88%
5/13/1980	13.60%	10.48%	3.12%

5/15/1980	13.25%	10.49%	2.76%
5/19/1980	13.75%	10.51%	3.24%
5/27/1980	13.62%	10.54%	3.08%
5/27/1980	14.60%	10.54%	4.06%
5/29/1980	16.00%	10.56%	5.44%
5/30/1980	13.80%	10.56%	3.24%
6/2/1980	15.63%	10.57%	5.06%
6/9/1980	15.90%	10.60%	5.30%
6/10/1980	13.78%	10.60%	3.18%
6/12/1980	14.25%	10.61%	3.64%
6/19/1980	13.40%	10.62%	2.78%
6/30/1980			
	13.00%	10.65% 10.65%	2.35%
6/30/1980	13.40%		2.75%
7/9/1980	14.75%	10.67%	4.08%
7/10/1980	15.00%	10.68%	4.32%
7/15/1980	15.80%	10.70%	5.10%
7/18/1980	13.80%	10.71%	3.09%
7/22/1980	14.10%	10.72%	3.38%
7/24/1980	15.00%	10.73%	4.27%
7/25/1980	13.48%	10.73%	2.75%
7/31/1980	14.58%	10.75%	3.83%
8/8/1980	13.50%	10.78%	2.72%
8/8/1980	14.00%	10.78%	3.22%
8/8/1980	15.45%	10.78%	4.67%
8/11/1980	14.85%	10.78%	4.07%
8/14/1980	14.00%	10.79%	3.21%
8/14/1980	16.25%	10.79%	5.46%
8/25/1980	13.75%	10.82%	2.93%
8/27/1980	13.80%	10.83%	2.97%
8/29/1980	12.50%	10.84%	1.66%
9/15/1980	13.50%	10.88%	2.62%
9/15/1980	13.93%	10.88%	3.05%
9/15/1980	15.80%	10.88%	4.92%
9/24/1980	12.50%	10.93%	1.57%
9/24/1980	15.00%	10.93%	4.07%
9/26/1980	13.75%	10.93%	2.81%
	14.10%		
9/30/1980		10.96%	3.14%
9/30/1980	14.20%	10.96%	3.24%
10/1/1980	13.90%	10.97%	2.93%
10/3/1980	15.50%	10.98%	4.52%
10/7/1980	12.50%	10.99%	1.51%
10/9/1980	13.25%	11.00%	2.25%
10/9/1980	14.50%	11.00%	3.50%
10/9/1980	14.50%	11.00%	3.50%
10/16/1980	16.10%	11.02%	5.08%
10/17/1980	14.50%	11.03%	3.47%
10/31/1980	13.75%	11.11%	2.64%
10/31/1980	14.25%	11.11%	3.14%
11/4/1980	15.00%	11.12%	3.88%
11/5/1980	13.75%	11.12%	2.63%
11/5/1980	14.00%	11.12%	2.88%
11/8/1980	13.75%	11.14%	2.61%
11/10/1980	14.85%	11.15%	3.70%
11/17/1980	14.00%	11.18%	2.82%
11/18/1980	14.00%	11.19%	2.81%
11/19/1980	13.00%	11.19%	1.81%
11/24/1980	14.00%	11.21%	2.79%
11/26/1980	14.00%	11.21%	2.79%
12/8/1980	14.15%	11.22%	2.93%
12/8/1980	15.10%	11.22%	3.88%
12/9/1980	15.35%	11.22%	4.13%
12/12/1980	15.45%	11.23%	4.22%
12/17/1980	13.25%	11.23%	2.02%
12/17/1980	15.80%	11.23%	4.57%
12/19/1980	14.50%	11.23%	3.27%
12/19/1980	14.64%	11.23%	3.41%
12/19/1980		11.23%	
12/22/1980	13.45%	11.23%	2.22%
	15.00%	11.23%	3.77%
12/30/1980	14.50%		3.28%
12/30/1980	14.95%	11.22%	3.73%
12/31/1980	13.39%	11.22%	2.17%
1/2/1981	15.25%	11.22%	4.03%
1/7/1981	14.30%	11.21%	3.09%
1/19/1981	15.25%	11.20%	4.05%
1/23/1981	13.10%	11.20%	1.90%
1/23/1981	14.40%	11.20%	3.20%
1/26/1981	15.25%	11.20%	4.05%
1/27/1981	15.00%	11.21%	3.79%
1/31/1981	13.47%	11.22%	2.25%
2/3/1981	15.25%	11.23%	4.02%
2/5/1981			
	15.75%	11.25%	4.50%
2/11/1981	15.60%	11.28%	4.32%
2/11/1981 2/20/1981			

3/11/1981	15.40%	11.49%	3.91%
3/12/1981	14.51%	11.50%	3.01%
3/12/1981	16.00%	11.50%	4.50%
3/13/1981	13.02%	11.52%	1.50%
3/18/1981	16.19%	11.55%	4.64%
3/19/1981	13.75%	11.56%	2.19%
3/23/1981	14.30%	11.58%	2.72%
3/25/1981	15.30%	11.60%	3.70%
4/1/1981	14.53%	11.68%	2.85%
4/3/1981	19.10%	11.71%	7.39%
4/9/1981	15.00%	11.78%	3.22%
4/9/1981	15.30%	11.78%	3.52%
4/9/1981	16.50%	11.78%	4.72%
4/9/1981	17.00%	11.78%	5.22%
4/10/1981	13.75%	11.80%	1.95%
4/13/1981	13.57%	11.82%	1.75%
4/15/1981	15.30%	11.85%	3.45%
4/16/1981		11.87%	1.63%
	13.50%		
4/17/1981	14.10%	11.87%	2.23%
4/21/1981	14.00%	11.90%	2.10%
4/21/1981	16.80%	11.90%	4.90%
4/24/1981	16.00%	11.95%	4.05%
4/27/1981	12.50%	11.97%	0.53%
4/27/1981	13.61%	11.97%	1.64%
4/29/1981	13.65%	12.00%	1.65%
4/30/1981	13.50%	12.02%	1.48%
5/4/1981	16.22%	12.05%	4.17%
5/5/1981	14.40%	12.07%	2.33%
5/7/1981	16.25%	12.11%	4.14%
5/7/1981	16.27%	12.11%	4.16%
5/8/1981	13.00%	12.13%	0.87%
5/8/1981	16.00%	12.13%	3.87%
5/12/1981	13.50%	12.16%	1.34%
5/15/1981	15.75%	12.22%	3.53%
5/18/1981	14.88%	12.23%	2.65%
5/20/1981	16.00%	12.26%	3.74%
5/21/1981	14.00%	12.27%	1.73%
5/26/1981	14.90%	12.30%	2.60%
5/27/1981	15.00%	12.31%	2.69%
5/29/1981	15.50%	12.34%	3.16%
6/1/1981	16.50%	12.35%	4.15%
6/3/1981	14.67%	12.37%	2.30%
6/5/1981	13.00%	12.39%	0.61%
6/10/1981	16.75%	12.42%	4.33%
6/17/1981	14.40%	12.46%	1.94%
6/18/1981	16.33%	12.47%	3.86%
6/25/1981	14.75%	12.51%	2.24%
6/26/1981	16.00%	12.52%	3.48%
6/30/1981	15.25%	12.54%	2.71%
7/1/1981	15.50%	12.56%	2.94%
7/1/1981	17.50%	12.56%	4.94%
7/10/1981	16.00%	12.62%	3.38%
7/14/1981	16.90%	12.64%	4.26%
		12.65%	
7/15/1981	16.00%		3.35%
7/17/1981	15.00%	12.67%	2.33%
7/20/1981	15.00%	12.68%	2.32%
7/21/1981	14.00%	12.69%	1.31%
7/28/1981	13.48%	12.74%	0.74%
7/31/1981	13.50%	12.78%	0.72%
7/31/1981	15.00%	12.78%	2.22%
7/31/1981	16.00%	12.78%	3.22%
			2.88%
8/5/1981	15.71%	12.83%	
8/10/1981	14.50%	12.87%	1.63%
8/11/1981	15.00%	12.88%	2.12%
8/20/1981	13.50%	12.95%	0.55%
8/20/1981	16.50%	12.95%	3.55%
8/24/1981	15.00%	12.97%	2.03%
8/28/1981	15.00%	13.01%	1.99%
9/3/1981		13.05%	1.45%
	14.50%		
9/10/1981	14.50%	13.11%	1.39%
9/11/1981	16.00%	13.12%	2.88%
9/16/1981	16.00%	13.15%	2.85%
9/17/1981	16.50%	13.16%	3.34%
9/23/1981	15.85%	13.20%	2.65%
9/28/1981	15.50%	13.23%	2.27%
10/9/1981	15.75%	13.33%	2.42%
10/15/1981	16.25%	13.37%	2.88%
10/16/1981	15.50%	13.38%	2.12%
10/16/1981	16.50%	13.38%	3.12%
10/19/1981	14.25%	13.39%	0.86%
10/20/1981	15.25%	13.41%	1.84%
10/20/1981	17.00%	13.41%	3.59%
10/23/1981	16.00%	13.45%	2.55%
	10.0070	. 5.45 /0	00/0

10/27/1981	10.00%	13.48%	-3.48%
10/29/1981	14.75%	13.51%	1.24%
10/29/1981	16.50%	13.51%	2.99%
11/3/1981	15.17%	13.53%	1.64%
11/5/1981	16.60%	13.55%	3.05%
11/6/1981	15.17%	13.56%	1.61%
11/24/1981	15.50%	13.61%	1.89%
11/25/1981	15.25%	13.61%	1.64%
11/25/1981	15.35%	13.61%	1.74%
11/25/1981	16.10%	13.61%	2.49%
11/25/1981	16.10%	13.61%	2.49%
12/1/1981	15.70%	13.61%	
			2.09%
12/1/1981	16.00%	13.61%	2.39%
12/1/1981	16.49%	13.61%	2.88%
12/1/1981	16.50%	13.61%	2.89%
12/4/1981	16.00%	13.61%	2.39%
12/11/1981	16.25%	13.63%	2.62%
12/14/1981	14.00%	13.63%	0.37%
12/15/1981	15.81%	13.63%	2.18%
12/15/1981	16.00%	13.63%	2.37%
12/16/1981	15.25%	13.63%	1.62%
12/17/1981	16.50%	13.63%	2.87%
12/18/1981	15.45%	13.63%	1.82%
12/30/1981	14.25%	13.67%	0.58%
12/30/1981	16.00%	13.67%	2.33%
12/30/1981	16.25%	13.67%	2.58%
12/31/1981	16.15%	13.67%	2.48%
1/4/1982	15.50%	13.67%	1.83%
1/11/1982	14.50%	13.72%	0.78%
1/11/1982	17.00%	13.72%	3.28%
1/13/1982	14.75%	13.74%	1.01%
1/14/1982	15.75%	13.75%	2.00%
1/15/1982	15.00%	13.76%	1.24%
1/15/1982	16.50%	13.76%	2.74%
1/22/1982	16.25%	13.79%	2.46%
1/27/1982	16.84%	13.81%	3.03%
1/28/1982	13.00%	13.81%	-0.81%
1/29/1982	15.50%	13.82%	1.68%
2/1/1982	15.85%	13.82%	2.03%
2/3/1982	16.44%	13.84%	2.60%
2/8/1982	15.50%	13.86%	1.64%
2/11/1982	16.00%	13.88%	2.12%
2/11/1982	16.20%	13.88%	2.32%
2/17/1982	15.00%	13.89%	1.11%
2/19/1982	15.17%	13.89%	1.28%
2/26/1982	15.25%	13.89%	1.36%
3/1/1982	15.03%	13.89%	1.14%
3/1/1982	16.00%	13.89%	2.11%
3/3/1982	15.00%	13.88%	1.12%
3/8/1982	17.10%	13.88%	3.22%
3/12/1982	16.25%	13.88%	2.37%
3/17/1982	17.30%	13.88%	3.42%
3/22/1982	15.10%	13.89%	1.21%
3/27/1982	15.40%	13.89%	1.51%
3/30/1982	15.50%	13.90%	1.60%
3/31/1982	17.00%	13.91%	3.09%
4/1/1982	14.70%	13.91%	0.79%
4/1/1982	16.50%	13.91%	2.59%
4/2/1982	15.50%	13.91%	1.59%
4/5/1982	15.50%	13.92%	1.58%
4/8/1982	16.40%	13.93%	2.47%
4/13/1982	14.50%	13.94%	0.56%
4/23/1982	15.75%	13.94%	1.81%
4/27/1982	15.00%	13.94%	1.06%
4/28/1982	15.75%	13.94%	1.81%
4/30/1982	14.70%	13.94%	0.76%
4/30/1982	15.50%	13.94%	1.56%
5/3/1982	16.60%	13.94%	2.66%
5/4/1982	16.00%	13.94%	2.06%
5/14/1982	15.50%	13.92%	1.58%
5/18/1982	15.42%	13.92%	1.50%
5/19/1982	14.69%	13.92%	0.77%
0, 10, 1002			
E/20/4000			1.09%
5/20/1982	15.00%	13.91%	4 4 4 4 4 4 1
5/20/1982	15.00% 15.10%	13.91%	1.19%
	15.00%		1.19% 1.59%
5/20/1982	15.00% 15.10% 15.50%	13.91% 13.91%	1.59%
5/20/1982 5/20/1982 5/20/1982	15.00% 15.10% 15.50% 16.30%	13.91% 13.91% 13.91%	1.59% 2.39%
5/20/1982 5/20/1982 5/20/1982 5/21/1982	15.00% 15.10% 15.50% 16.30% 17.75%	13.91% 13.91% 13.91% 13.91%	1.59% 2.39% 3.84%
5/20/1982 5/20/1982 5/20/1982 5/21/1982 5/27/1982	15.00% 15.10% 15.50% 16.30% 17.75% 15.00%	13.91% 13.91% 13.91% 13.91% 13.89%	1.59% 2.39% 3.84% 1.11%
5/20/1982 5/20/1982 5/20/1982 5/21/1982	15.00% 15.10% 15.50% 16.30% 17.75%	13.91% 13.91% 13.91% 13.91%	1.59% 2.39% 3.84%
5/20/1982 5/20/1982 5/20/1982 5/21/1982 5/27/1982	15.00% 15.10% 15.50% 16.30% 17.75% 15.00%	13.91% 13.91% 13.91% 13.91% 13.89%	1.59% 2.39% 3.84% 1.11%
5/20/1982 5/20/1982 5/20/1982 5/21/1982 5/27/1982 5/28/1982 5/28/1982	15.00% 15.10% 15.50% 16.30% 17.75% 15.00% 15.50% 17.00%	13.91% 13.91% 13.91% 13.91% 13.89% 13.89% 13.89%	1.59% 2.39% 3.84% 1.11% 1.61% 3.11%
5/20/1982 5/20/1982 5/20/1982 5/21/1982 5/27/1982 5/28/1982 5/28/1982 6/1/1982	15.00% 15.10% 15.50% 16.30% 17.75% 15.00% 15.50% 17.00% 13.75%	13.91% 13.91% 13.91% 13.91% 13.89% 13.89% 13.89% 13.89%	1.59% 2.39% 3.84% 1.11% 1.61% 3.11% -0.14%
5/20/1982 5/20/1982 5/20/1982 5/21/1982 5/27/1982 5/28/1982 5/28/1982 6/1/1982	15.00% 15.10% 15.50% 16.30% 17.75% 15.00% 15.50% 17.00% 13.75% 16.60%	13.91% 13.91% 13.91% 13.91% 13.89% 13.89% 13.89% 13.89%	1.59% 2.39% 3.84% 1.11% 1.61% 3.11% -0.14% 2.71%
5/20/1982 5/20/1982 5/20/1982 5/21/1982 5/27/1982 5/28/1982 5/28/1982 6/1/1982	15.00% 15.10% 15.50% 16.30% 17.75% 15.00% 15.50% 17.00% 13.75%	13.91% 13.91% 13.91% 13.91% 13.89% 13.89% 13.89% 13.89%	1.59% 2.39% 3.84% 1.11% 1.61% 3.11% -0.14%

6/14/1982	15.75%	13.88%	1.87%
6/15/1982	14.85%	13.88%	0.97%
6/18/1982	15.50%	13.87%	1.63%
6/21/1982	14.90%	13.87%	1.03%
6/23/1982	16.00%	13.86%	2.14%
6/23/1982	16.17%	13.86%	2.31%
6/24/1982	14.85%	13.86%	0.99%
6/25/1982	14.70%	13.86%	0.84%
7/1/1982	16.00%	13.84%	2.16%
7/2/1982	15.62%	13.84%	1.78%
7/2/1982	17.00%	13.84%	3.16%
7/13/1982	14.00%	13.82%	0.18%
7/13/1982	16.80%	13.82%	2.98%
7/14/1982	15.76%	13.82%	1.94%
7/14/1982	16.02%		2.20%
		13.82%	
7/19/1982	16.50%	13.80%	2.70%
7/22/1982	14.50%	13.77%	0.73%
7/22/1982	17.00%	13.77%	3.23%
7/27/1982	16.75%	13.75%	3.00%
7/29/1982	16.50%	13.74%	2.76%
8/11/1982	17.50%	13.68%	3.82%
8/18/1982	17.07%	13.63%	3.44%
8/20/1982	15.73%	13.60%	2.13%
8/25/1982	16.00%	13.57%	2.43%
8/26/1982	15.50%	13.56%	1.94%
8/30/1982	15.00%	13.55%	1.45%
9/3/1982	16.20%	13.53%	2.67%
9/8/1982	15.00%	13.52%	1.48%
9/15/1982	13.08%	13.50%	-0.42%
9/15/1982	16.25%	13.50%	2.75%
9/16/1982	16.00%	13.50%	2.50%
9/17/1982	15.25%	13.50%	1.75%
9/23/1982	17.17%	13.47%	3.70%
9/24/1982	14.50%	13.46%	1.04%
9/27/1982	15.25%	13.46%	1.79%
10/1/1982	15.50%	13.42%	2.08%
10/1/1982	15.90%	13.32%	2.58%
10/22/1982	15.75%	13.24%	2.51%
10/22/1982	17.15%	13.24%	3.91%
10/29/1982	15.54%	13.16%	2.38%
11/1/1982	15.50%	13.15%	2.35%
11/3/1982	17.20%	13.13%	4.07%
11/4/1982	16.25%	13.11%	3.14%
11/5/1982	16.20%	13.09%	3.11%
11/9/1982	16.00%	13.05%	2.95%
11/23/1982	15.50%	12.89%	2.61%
11/23/1982	15.85%	12.89%	2.96%
11/30/1982	16.50%	12.81%	3.69%
12/1/1982		12.79%	4.25%
	17.04%		
12/6/1982	15.00%	12.73%	2.27%
12/6/1982	16.35%	12.73%	3.62%
12/10/1982	15.50%	12.66%	2.84%
12/13/1982	16.00%	12.65%	3.35%
12/14/1982	15.30%	12.63%	2.67%
12/14/1982	16.40%	12.63%	3.77%
12/20/1982	16.00%	12.57%	3.43%
12/21/1982	14.75%	12.56%	2.19%
12/21/1982	15.85%	12.56%	3.29%
12/22/1982	16.25%	12.54%	3.71%
12/22/1982	16.58%	12.54%	4.04%
12/22/1982	16.75%	12.54%	4.21%
12/29/1982	14.90%	12.48%	2.42%
12/29/1982	16.25%	12.48%	3.77%
12/30/1982	16.00%	12.47%	3.53%
12/30/1982	16.35%	12.47%	3.88%
12/30/1982	16.77%	12.47%	4.30%
1/5/1983	17.33%	12.40%	4.93%
1/11/1983	15.90%	12.34%	3.56%
1/12/1983	14.63%	12.33%	2.30%
1/12/1983	15.50%	12.33%	3.17%
1/20/1983	17.75%	12.24%	5.51%
1/21/1983	15.00%	12.22%	2.78%
1/24/1983	14.50%	12.21%	2.29%
1/24/1983	15.50%	12.21%	3.29%
1/25/1983	15.85%	12.19%	3.66%
1/27/1983	16.14%	12.17%	3.97%
2/1/1983	18.50%	12.13%	6.37%
2/4/1983	14.00%	12.10%	1.90%
2/10/1983	15.00%	12.06%	2.94%
2/21/1983	15.50%	11.98%	3.52%
2/22/1983	15.50%	11.97%	3.53%
2/23/1983	15.10%	11.96%	3.14%
2/23/1983	16.00%	11.96%	4.04%
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3/2/1983	15.25%	11.89%	3.36%
3/9/1983	15.20%	11.82%	3.38%
3/15/1983	13.00%	11.77%	1.23%
3/18/1983	15.25%	11.73%	3.52%
3/23/1983	15.40%	11.69%	3.71%
3/24/1983	15.00%	11.67%	3.33%
3/29/1983	15.50%	11.63%	3.87%
3/30/1983	16.71%	11.61%	5.10%
3/31/1983	15.00%	11.59%	3.41%
4/4/1983	15.20%	11.58%	3.62%
4/8/1983	15.50%	11.51%	3.99%
4/11/1983	14.81%	11.49%	3.32%
4/19/1983	14.50%	11.38%	3.12%
4/20/1983	16.00%	11.36%	4.64%
4/29/1983	16.00%	11.24%	4.76%
5/1/1983	14.50%	11.24%	3.26%
5/9/1983	15.50%	11.15%	4.35%
5/11/1983	16.46%	11.12%	5.34%
5/12/1983	14.14%	11.11%	3.03%
5/18/1983	15.00%	11.05%	3.95%
5/23/1983	14.90%	11.01%	3.89%
5/23/1983	15.50%	11.01%	4.49%
5/25/1983	15.50%	10.98%	4.52%
5/27/1983	15.00%	10.96%	4.04%
5/31/1983	14.00%	10.95%	3.05%
5/31/1983	15.50%	10.95%	4.55%
6/2/1983	14.50%	10.93%	3.57%
6/17/1983	15.03%	10.84%	4.19%
7/1/1983	14.80%	10.78%	4.02%
7/1/1983	14.90%	10.78%	4.12%
7/8/1983	16.25%	10.76%	5.49%
7/13/1983	13.20%	10.75%	2.45%
7/19/1983	15.00%	10.74%	4.26%
7/19/1983	15.10%	10.74%	4.36%
7/25/1983	16.25%	10.73%	5.52%
7/28/1983	15.90%	10.74%	5.16%
8/3/1983	16.34%	10.75%	5.59%
8/3/1983	16.50%	10.75%	5.75%
8/19/1983	15.00%	10.80%	4.20%
8/22/1983	15.50%	10.80%	4.70%
8/22/1983	16.40%	10.80%	5.60%
8/31/1983	14.75%	10.84%	3.91%
9/7/1983	15.00%	10.86%	4.14%
9/14/1983	15.78%	10.89%	4.89%
9/16/1983	15.00%	10.90%	4.10%
9/19/1983	14.50%	10.91%	3.59%
9/20/1983	16.50%	10.91%	5.59%
9/28/1983	14.50%	10.94%	3.56%
9/29/1983	15.50%	10.95%	4.55%
9/30/1983	15.25%	10.95%	4.30%
9/30/1983	16.15%	10.95%	5.20%
10/4/1983	14.80%	10.96%	3.84%
10/7/1983	16.00%	10.97%	5.03%
10/13/1983	15.52%	10.99%	4.53%
10/17/1983	15.50%	11.00%	4.50%
		11.00%	
10/18/1983	14.50%		3.50%
10/19/1983	16.25%	11.01%	5.24%
10/19/1983	16.50%	11.01%	5.49%
10/26/1983	15.00%	11.04%	3.96%
	15.20%		4.16%
10/27/1983		11.04%	
11/1/1983	16.00%	11.06%	4.94%
11/9/1983	14.90%	11.09%	3.81%
11/10/1983	14.35%	11.10%	3.25%
11/23/1983	16.00%	11.13%	4.87%
11/23/1983	16.15%	11.13%	5.02%
11/30/1983	15.00%	11.14%	3.86%
12/5/1983	15.25%	11.15%	4.10%
12/6/1983	15.07%	11.15%	3.92%
12/8/1983	15.90%	11.16%	4.74%
12/9/1983	14.75%	11.17%	3.58%
12/12/1983	14.50%	11.17%	3.33%
12/15/1983	15.56%	11.19%	4.37%
12/19/1983	14.80%	11.21%	3.59%
12/20/1983	14.69%	11.22%	3.47%
12/20/1983	16.00%	11.22%	4.78%
12/20/1983	16.25%	11.22%	5.03%
12/22/1983	14.75%	11.23%	3.52%
12/22/1983	15.75%	11.23%	4.52%
1/3/1984	14.75%	11.27%	3.48%
1/10/1984	15.90%	11.30%	4.60%
1/12/1984	15.60%	11.31%	4.29%
1/18/1984	13.75%	11.33%	2.42%
1/19/1984	15.90%	11.33%	4.57%
	10.0070	50 / 0	

1/30/1984	16.10%	11.37%	4.73%
1/31/1984	15.25%	11.37%	3.88%
2/1/1984	14.80%	11.38%	3.42%
2/6/1984	13.75%	11.40%	2.35%
2/6/1984	14.75%	11.40%	3.35%
2/9/1984	15.25%	11.42%	3.83%
2/15/1984	15.70%	11.44%	4.26%
2/20/1984	15.00%	11.46%	3.54%
2/20/1984	15.00%	11.46%	3.54%
2/22/1984	14.75%	11.47%	3.28%
2/28/1984	14.50%	11.51%	2.99%
3/2/1984	14.25%	11.54%	2.71%
3/20/1984	16.00%	11.64%	4.36%
3/23/1984	15.50%	11.67%	3.83%
3/26/1984	14.71%	11.68%	3.03%
4/2/1984	15.50%	11.71%	3.79%
4/6/1984	14.74%	11.75%	2.99%
4/11/1984	15.72%	11.78%	3.94%
4/17/1984	15.00%	11.81%	3.19%
4/18/1984	16.20%	11.82%	4.38%
4/25/1984	14.64%	11.85%	2.79%
4/30/1984	14.40%	11.87%	2.53%
5/16/1984	14.69%	11.98%	2.71%
5/16/1984	15.00%	11.98%	3.02%
5/22/1984	14.40%	12.02%	2.38%
5/29/1984	15.10%	12.06%	3.04%
6/13/1984	15.25%	12.15%	3.10%
6/15/1984	15.60%	12.17%	3.43%
6/22/1984	16.25%	12.21%	4.04%
6/29/1984	15.25%	12.26%	2.99%
7/2/1984	13.35%	12.27%	1.08%
7/10/1984	16.00%	12.31%	3.69%
7/12/1984	16.50%	12.32%	4.18%
7/13/1984	16.25%	12.33%	3.92%
7/17/1984	14.14%	12.35%	1.79%
7/18/1984	15.30%	12.36%	2.94%
	15.50%	12.36%	3.14%
7/18/1984			
7/19/1984	14.30%	12.37%	1.93%
7/24/1984	16.79%	12.39%	4.40%
7/31/1984	16.00%	12.43%	3.57%
8/3/1984	14.25%	12.44%	1.81%
8/17/1984	14.30%	12.49%	1.81%
8/20/1984	15.00%	12.49%	2.51%
8/27/1984	16.30%	12.51%	3.79%
8/31/1984	15.55%	12.52%	3.03%
9/6/1984	16.00%	12.53%	3.47%
9/10/1984	14.75%	12.54%	2.21%
9/13/1984	15.00%	12.55%	2.45%
			4.82%
9/17/1984	17.38%	12.56%	
9/26/1984	14.50%	12.57%	1.93%
9/28/1984	15.00%	12.57%	2.43%
9/28/1984	16.25%	12.57%	3.68%
10/9/1984	14.75%	12.58%	2.17%
10/12/1984	15.60%	12.59%	3.01%
	15.00%	12.59%	2.41%
10/22/1984			
10/26/1984	16.40%	12.58%	3.82%
10/31/1984	16.25%	12.58%	3.67%
11/7/1984	15.60%	12.58%	3.02%
11/9/1984	16.00%	12.58%	3.42%
11/14/1984	15.75%	12.58%	3.17%
11/20/1984	15.25%	12.58%	2.67%
11/20/1984	15.92%	12.58%	3.34%
11/23/1984	15.00%	12.58%	2.42%
11/28/1984	16.15%	12.57%	3.58%
12/3/1984	15.80%	12.56%	3.24%
12/4/1984	16.50%	12.56%	3.94%
12/18/1984	16.40%	12.53%	3.87%
12/19/1984	14.75%	12.53%	2.22%
12/19/1984	15.00%	12.53%	2.47%
12/20/1984	16.00%	12.53%	3.47%
12/28/1984	16.00%	12.50%	3.50%
1/3/1985		12.49%	2.26%
	14.75%		
1/10/1985	15.75%	12.47%	3.28%
1/11/1985	16.30%	12.46%	3.84%
1/23/1985	15.80%	12.43%	3.37%
1/24/1985	15.82%	12.43%	3.39%
1/25/1985	16.75%	12.42%	4.33%
1/30/1985	14.90%	12.40%	2.50%
1/31/1985	14.75%	12.39%	2.36%
2/8/1985	14.47%	12.35%	2.12%
3/1/1985	13.84%	12.31%	1.53%
3/8/1985	16.85%	12.28%	4.57%
3/14/1985		12.25%	
	15.50%	12.2370	3.25%
0/ 1 // 1000			

3/15/1985	15.62%	12.25%	3.37%
3/29/1985	15.62%	12.17%	3.45%
4/3/1985	14.60%	12.14%	2.46%
4/9/1985	15.50%	12.11%	3.39%
4/16/1985	15.70%	12.06%	3.64%
4/22/1985	14.00%	12.02%	1.98%
4/26/1985	15.50%	11.98%	3.52%
4/29/1985	15.00%	11.97%	3.03%
5/2/1985	14.68%	11.94%	2.74%
5/8/1985	15.62%	11.89%	3.73%
5/10/1985	16.50%	11.87%	4.63%
5/29/1985	14.61%	11.73%	2.88%
5/31/1985	16.00%	11.71%	4.29%
6/14/1985	15.50%	11.61%	3.89%
7/9/1985	15.00%	11.45%	3.55%
7/16/1985	14.50%	11.39%	3.11%
7/26/1985 8/2/1985	14.50% 14.80%	11.33% 11.29%	3.17% 3.51%
8/7/1985	15.00%	11.29%	3.73%
8/28/1985	14.25%	11.15%	3.10%
8/28/1985	15.50%	11.15%	4.35%
8/29/1985	14.50%	11.15%	3.35%
9/9/1985	14.60%	11.11%	3.49%
9/9/1985	14.90%	11.11%	3.79%
9/17/1985	14.90%	11.08%	3.82%
9/23/1985	15.00%	11.06%	3.94%
9/27/1985	15.50%	11.05%	4.45%
9/27/1985	15.80%	11.05%	4.75%
10/2/1985	14.00%	11.03%	2.97%
10/2/1985	14.75%	11.03%	3.72%
10/3/1985	15.25%	11.03%	4.22%
10/24/1985	15.40%	10.96%	4.44%
10/24/1985	15.82%	10.96%	4.86%
10/24/1985	15.85%	10.96%	4.89%
10/28/1985	16.00%	10.95%	5.05%
10/29/1985	16.65%	10.94%	5.71%
10/31/1985	15.06%	10.93%	4.13%
11/4/1985 11/7/1985	14.50%	10.92% 10.90%	3.58% 4.60%
11/8/1985	15.50% 14.30%	10.89%	3.41%
12/12/1985	14.75%	10.73%	4.02%
12/18/1985	15.00%	10.75%	4.31%
12/20/1985	14.50%	10.67%	3.83%
12/20/1985	14.50%	10.67%	3.83%
12/20/1985	15.00%	10.67%	4.33%
1/24/1986	15.40%	10.41%	4.99%
1/31/1986	15.00%	10.35%	4.65%
2/5/1986	15.00%	10.32%	4.68%
2/5/1986	15.75%	10.32%	5.43%
2/10/1986	13.30%	10.29%	3.01%
2/11/1986	12.50%	10.28%	2.22%
2/14/1986	14.40%	10.24%	4.16%
2/18/1986 2/24/1986	16.00%	10.23%	5.77% 4.32%
2/24/1986	14.50% 14.00%	10.18% 10.15%	3.85%
3/5/1986	14.00%	10.15%	4.82%
3/11/1986	14.50%	10.00%	4.48%
3/12/1986	13.50%	10.02%	3.50%
3/27/1986	14.10%	9.86%	4.24%
3/31/1986	13.50%	9.84%	3.66%
4/1/1986	14.00%	9.83%	4.17%
4/2/1986	15.50%	9.81%	5.69%
4/4/1986	15.00%	9.78%	5.22%
4/14/1986	13.40%	9.69%	3.71%
4/23/1986	15.00%	9.57%	5.43%
5/16/1986	14.50%	9.32%	5.18%
5/16/1986	14.50%	9.32%	5.18%
5/29/1986	13.90%	9.19%	4.71%
5/30/1986	15.10%	9.18%	5.92%
6/2/1986	12.81%	9.17%	3.64%
6/11/1986	14.00%	9.07%	4.93%
6/24/1986 6/26/1986	16.63% 12.00%	8.94% 8.91%	7.69%
6/26/1986	12.00% 14.75%	8.91% 8.91%	3.09% 5.84%
6/30/1986	13.00%	8.87%	4.13%
7/10/1986	14.34%	8.75%	5.59%
7/11/1986	12.75%	8.73%	4.02%
7/14/1986	12.60%	8.71%	3.89%
7/17/1986	12.40%	8.66%	3.74%
7/25/1986	14.25%	8.57%	5.68%
8/6/1986	13.50%	8.44%	5.06%
8/14/1986	13.50%	8.35%	5.15%
9/16/1986	12.75%	8.06%	4.69%

9/19/1986	13.25%	8.03%	5.22%
10/1/1986	14.00%	7.95%	6.05%
10/3/1986	13.40%	7.93%	5.47%
10/31/1986	13.50%	7.77%	5.73%
11/5/1986	13.00%	7.75%	5.25%
12/3/1986	12.90%	7.58%	5.32%
12/4/1986	14.44%	7.58%	6.86%
12/16/1986	13.60%	7.52%	6.08%
12/22/1986	13.80%	7.51%	6.29%
12/30/1986	13.00%	7.49%	5.51%
1/2/1987	13.00%	7.49%	5.51%
1/12/1987	12.40%	7.47%	4.93%
1/12/1987	12.40%	7.47%	5.25%
3/2/1987	12.71%	7.47%	
3/3/1987			5.00%
	13.60%	7.47%	6.13%
3/4/1987	12.38%	7.47%	4.91%
3/10/1987	13.50%	7.47%	6.03%
3/13/1987	13.00%	7.47%	5.53%
3/31/1987	13.00%	7.46%	5.54%
4/6/1987	13.00%	7.47%	5.53%
4/14/1987	12.50%	7.49%	5.01%
4/16/1987	14.50%	7.50%	7.00%
4/27/1987	12.00%	7.54%	4.46%
5/5/1987	12.85%	7.58%	5.27%
5/12/1987	12.65%	7.62%	5.03%
5/28/1987	13.50%	7.70%	5.80%
6/15/1987	13.20%	7.78%	5.42%
6/29/1987	15.00%	7.83%	7.17%
6/30/1987	12.50%	7.84%	4.66%
7/8/1987	12.00%	7.86%	4.14%
7/10/1987	12.90%	7.86%	5.04%
7/15/1987	13.50%	7.88%	5.62%
7/16/1987	13.50%	7.88%	5.62%
7/16/1987	15.00%	7.88%	7.12%
7/10/1987	13.00%	7.92%	5.08%
7/27/1987	13.40%	7.92%	5.48%
7/27/1987	13.40%	7.92%	
			5.58%
7/31/1987	12.98%	7.95%	5.03%
8/26/1987	12.63%	8.06%	4.57%
8/26/1987	12.75%	8.06%	4.69%
8/27/1987	13.25%	8.06%	5.19%
9/9/1987	13.00%	8.14%	4.86%
9/30/1987	12.75%	8.31%	4.44%
9/30/1987	13.00%	8.31%	4.69%
10/2/1987	11.50%	8.33%	3.17%
10/15/1987	13.00%	8.43%	4.57%
11/2/1987	13.00%	8.55%	4.45%
11/19/1987	13.00%	8.64%	4.36%
11/30/1987	12.00%	8.68%	3.32%
12/3/1987	14.20%	8.70%	5.50%
12/15/1987	13.25%	8.77%	4.48%
12/16/1987	13.50%	8.78%	4.72%
12/16/1987	13.72%	8.78%	4.94%
12/17/1987	11.75%	8.79%	2.96%
12/18/1987	13.50%	8.80%	4.70%
12/21/1987	12.01%	8.81%	3.20%
12/22/1987	12.00%	8.81%	3.19%
12/22/1987	12.00%	8.81%	3.19%
12/22/1987	12.75%	8.81%	3.94%
12/22/1987	13.00%	8.81%	4.19%
1/20/1988	13.80%	8.94%	4.86%
1/26/1988	13.90%	8.95%	4.95%
1/29/1988	13.20%	8.96%	4.24%
2/4/1988			
	12.60%	8.96%	3.64%
3/1/1988	11.56%	8.94%	2.62%
3/23/1988	12.87%	8.92%	3.95%
3/24/1988	11.24%	8.92%	2.32%
3/30/1988	12.72%	8.92%	3.80%
4/1/1988	12.50%	8.92%	3.58%
4/7/1988	13.25%	8.93%	4.32%
4/25/1988	10.96%	8.96%	2.00%
5/3/1988	12.91%	8.97%	3.94%
5/11/1988	13.50%	8.99%	4.51%
5/16/1988	13.00%	8.99%	4.01%
6/30/1988	12.75%	9.00%	3.75%
7/1/1988	12.75%	8.99%	3.76%
7/20/1988	13.40%	8.96%	4.44%
8/5/1988	12.75%	8.92%	3.83%
8/23/1988	11.70%	8.93%	2.77%
8/29/1988	12.75%	8.94%	3.81%
8/30/1988	13.50%	8.94%	4.56%
9/8/1988	12.60%	8.95%	3.65%
10/13/1988	13.10%	8.93%	4.17%
. 2, . 3, 1000	10.1070	3.3070	/0

12/19/1988	13.00%	9.02%	3.98%
12/20/1988	12.25%	9.02%	3.23%
12/20/1988	13.00%	9.02%	3.98%
12/21/1988	12.90%	9.02%	3.88%
12/27/1988	13.00%	9.03%	3.97%
12/28/1988	13.10%	9.03%	4.07%
12/30/1988	13.40%	9.04%	4.36%
1/27/1989	13.00%	9.05%	3.95%
1/31/1989	13.00%	9.05%	3.95%
2/17/1989	13.00%	9.05%	3.95%
2/20/1989	12.40%	9.05%	3.35%
3/1/1989	12.76%	9.05%	3.71%
3/8/1989	13.00%	9.05%	3.95%
3/30/1989	14.00%	9.05%	4.95%
4/5/1989	14.20%	9.05%	5.15%
4/18/1989	13.00%	9.05%	3.95%
5/5/1989	12.40%	9.05%	3.35%
6/2/1989	13.20%	9.00%	4.20%
6/8/1989	13.50%	8.98%	4.52%
6/27/1989	13.25%	8.91%	4.34%
6/30/1989	13.00%	8.90%	4.10%
8/14/1989	12.50%	8.77%	3.73%
9/28/1989	12.25%	8.63%	3.62%
10/24/1989	12.50%	8.54%	3.96%
11/9/1989	13.00%	8.49%	4.51%
12/15/1989	13.00%	8.34%	4.66%
12/20/1989	12.90%	8.32%	4.58%
12/21/1989	12.90%	8.31%	4.59%
12/27/1989	12.50%	8.29%	4.21%
12/27/1989	13.00%	8.29%	4.71%
1/10/1990	12.80%	8.24%	4.56%
1/11/1990	12.90%	8.24%	4.66%
1/17/1990	12.80%	8.22%	4.58%
1/26/1990	12.00%	8.20%	3.80%
2/9/1990	12.10%	8.17%	3.93%
2/24/1990	12.86%	8.15%	4.71%
3/30/1990	12.90%	8.16%	4.74%
4/4/1990	15.76%	8.17%	7.59%
4/12/1990	12.52%	8.18%	4.34%
4/19/1990	12.75%	8.20%	4.55%
5/21/1990	12.10%	8.28%	3.82%
5/29/1990	12.40%	8.30%	4.10%
5/31/1990	12.00%	8.30%	3.70%
6/4/1990	12.90%	8.30%	4.60%
6/6/1990	12.25%	8.31%	3.94%
6/15/1990	13.20%	8.32%	4.88%
6/20/1990	12.92%	8.32%	4.60%
6/27/1990	12.90%	8.33%	4.57%
6/29/1990	12.50%	8.33%	4.17%
7/6/1990	12.10%	8.34%	3.76%
7/6/1990	12.35%	8.34%	4.01%
8/10/1990	12.55%	8.41%	4.14%
8/16/1990	13.21%	8.43%	4.78%
8/22/1990	13.10%	8.45%	4.65%
8/24/1990	13.00%	8.46%	4.54%
9/26/1990	11.45%	8.59%	2.86%
10/2/1990	13.00%	8.61%	4.39%
10/5/1990	12.84%	8.62%	4.22%
10/19/1990	13.00%	8.67%	4.33%
10/25/1990	12.30%	8.68%	3.62%
11/21/1990	12.70%	8.69%	4.01%
12/13/1990	12.30%	8.67%	3.63%
12/17/1990	12.87%	8.67%	4.20%
12/18/1990	13.10%	8.67%	4.43%
12/19/1990	12.00%	8.66%	3.34%
12/20/1990	12.75%	8.66%	4.09%
12/21/1990	12.50%	8.66%	3.84%
12/27/1990	12.79%	8.66%	4.13%
1/2/1991	13.10%	8.65%	4.45%
1/4/1991	12.50%	8.65%	3.85%
1/15/1991	12.75%	8.64%	4.11%
1/25/1991	11.70%	8.63%	3.07%
2/4/1991	12.50%	8.60%	3.90%
2/7/1991	12.50%	8.59%	3.91%
2/12/1991	13.00%	8.58%	4.43%
2/14/1991	12.72%	8.57%	4.15%
2/22/1991	12.80%	8.55%	4.25%
3/6/1991			
	13.10%	8.53%	4.57%
3/8/1991	12.30%	8.52%	3.78%
3/8/1991	13.00%	8.52%	4.48%
4/22/1991	13.00%	8.49%	4.51%
5/7/1991	13.50%	8.47%	5.03%
5/13/1991	13.25%	8.47%	4.78%
J1 1J1 188 1	13.2370	U.+1 70	7.7070

5/30/1991	12.75%	8.44%	4.31%
6/12/1991	12.00%	8.41%	3.59%
6/25/1991	11.70%	8.39%	3.31%
6/28/1991	12.50%	8.38%	4.12%
7/1/1991	12.00%	8.38%	3.62%
7/3/1991	12.50%	8.37%	4.13%
7/19/1991	12.10%	8.34%	3.76%
8/1/1991	12.90%	8.32%	4.58%
8/16/1991	13.20%	8.29%	4.91%
9/27/1991	12.50%	8.23%	4.27%
9/30/1991	12.25%	8.23%	4.02%
10/17/1991	13.00%	8.20%	4.80%
10/17/1331	12.50%	8.20%	4.30%
10/23/1991	12.55%	8.20%	4.35%
10/23/1991	11.80%	8.19%	3.61%
11/1/1991	12.00%	8.19%	3.81%
11/5/1991	12.00%	8.19%	4.06%
11/12/1991			
11/12/1991	12.50%	8.18%	4.32%
	13.25%	8.18%	5.07%
11/25/1991	12.40%	8.18%	4.22%
11/26/1991	11.60%	8.18%	3.42%
11/26/1991	12.50%	8.18%	4.32%
11/27/1991	12.10%	8.18%	3.92%
12/18/1991	12.25%	8.15%	4.10%
12/19/1991	12.60%	8.15%	4.45%
12/19/1991	12.80%	8.15%	4.65%
12/20/1991	12.65%	8.14%	4.51%
1/9/1992	12.80%	8.09%	4.71%
1/16/1992	12.75%	8.07%	4.68%
1/21/1992	12.00%	8.06%	3.94%
1/22/1992	13.00%	8.06%	4.94%
1/27/1992	12.65%	8.05%	4.60%
1/31/1992	12.00%	8.04%	3.96%
2/11/1992	12.40%	8.03%	4.37%
2/25/1992	12.50%	8.01%	4.49%
3/16/1992	11.43%	7.98%	3.45%
3/18/1992	12.28%	7.98%	4.30%
4/2/1992	12.10%	7.95%	4.15%
4/9/1992	11.45%	7.94%	3.51%
4/10/1992	11.50%	7.93%	3.57%
4/14/1992	11.50%	7.93%	3.57%
5/5/1992	11.50%	7.89%	3.61%
5/12/1992	11.87%	7.88%	3.99%
5/12/1992	12.46%	7.88%	4.58%
6/1/1992	12.30%	7.87%	4.43%
6/12/1992	10.90%	7.86%	3.04%
6/26/1992	12.35%	7.85%	4.50%
6/29/1992	11.00%	7.85%	3.15%
6/30/1992	13.00%	7.85%	5.15%
7/13/1992	11.90%	7.84%	4.06%
7/13/1992	13.50%	7.84%	5.66%
7/22/1992	11.20%	7.83%	3.37%
8/3/1992	12.00%	7.81%	4.19%
8/6/1992	12.50%	7.80%	4.70%
9/22/1992	12.00%	7.71%	4.70%
9/28/1992	11.40%	7.71%	3.69%
9/30/1992	11.75%	7.71%	4.05%
	13.00%		
10/2/1992 10/12/1992	12.20%	7.70% 7.70%	5.30%
10/12/1992	13.16%	7.70%	4.50%
10/10/1992			5.46%
11/3/1992	11.75% 12.00%	7.71%	4.04%
		7.71% 7.68%	4.29%
12/3/1992	11.85%		4.17%
12/15/1992	11.00%	7.66%	3.34%
12/16/1992	11.90%	7.66%	4.24%
12/16/1992	12.40%	7.66%	4.74%
12/17/1992	12.00%	7.66%	4.34%
12/22/1992	12.30%	7.65%	4.65%
12/22/1992	12.40%	7.65%	4.75%
12/29/1992	12.25%	7.63%	4.62%
12/30/1992	12.00%	7.63%	4.37%
12/31/1992	11.90%	7.63%	4.27%
1/12/1993	12.00%	7.61%	4.39%
1/21/1993	11.25%	7.59%	3.66%
2/2/1993	11.40%	7.56%	3.84%
2/15/1993	12.30%	7.52%	4.78%
2/24/1993	11.90%	7.49%	4.41%
2/26/1993	11.80%	7.48%	4.32%
2/26/1993	12.20%	7.48%	4.72%
4/23/1993	11.75%	7.29%	4.46%
5/11/1993	11.75%	7.25%	4.50%
5/14/1993	11.50%	7.24%	4.26%
5/25/1993	11.50%	7.23%	4.27%

5/28/1993	11.00%	7.22%	3.78%
6/3/1993	12.00%	7.21%	4.79%
6/16/1993	11.50%	7.19%	4.31%
6/18/1993	12.10%	7.18%	4.92%
6/25/1993	11.67%	7.17%	4.50%
7/21/1993	11.38%	7.10%	4.28%
7/23/1993	10.46%	7.09%	3.37%
8/24/1993	11.50%	6.96%	4.54%
9/21/1993	10.50%	6.81%	3.69%
9/29/1993	11.47%	6.77%	4.70%
9/30/1993	11.60%	6.76%	4.84%
11/2/1993	10.80%	6.60%	4.20%
11/12/1993		6.57%	5.43%
11/26/1993	12.00% 11.00%	6.52%	4.48%
12/14/1993	10.55%	6.48%	4.46%
12/16/1993	10.60%	6.48%	4.12%
12/21/1993	11.30%	6.47% 6.44%	4.83% 3.63%
1/4/1994	10.07%		
1/13/1994	11.00%	6.42%	4.58%
1/21/1994	11.00%	6.40%	4.60%
1/28/1994	11.35%	6.39%	4.96%
2/3/1994	11.40%	6.38%	5.02%
2/17/1994	10.60%	6.36%	4.24%
2/25/1994	11.25%	6.35%	4.90%
2/25/1994	12.00%	6.35%	5.65%
3/1/1994	11.00%	6.35%	4.65%
3/4/1994	11.00%	6.35%	4.65%
4/25/1994	11.00%	6.41%	4.59%
5/10/1994	11.75%	6.45%	5.30%
5/13/1994	10.50%	6.46%	4.04%
6/3/1994	11.00%	6.54%	4.46%
6/27/1994	11.40%	6.65%	4.75%
8/5/1994	12.75%	6.88%	5.87%
10/31/1994	10.00%	7.33%	2.67%
11/9/1994	10.85%	7.39%	3.46%
11/9/1994	10.85%	7.39%	3.46%
11/18/1994	11.20%	7.45%	3.75%
11/22/1994	11.60%	7.47%	4.13%
11/28/1994	11.06%	7.49%	3.57%
12/8/1994	11.50%	7.54%	3.96%
12/8/1994	11.70%	7.54%	4.16%
12/14/1994	10.95%	7.56%	3.39%
12/15/1994	11.50%	7.57%	3.93%
12/19/1994	11.50%	7.58%	3.92%
12/28/1994	12.15%	7.61%	4.54%
1/9/1995	12.28%	7.64%	4.64%
1/31/1995	11.00%	7.69%	3.31%
2/10/1995	12.60%	7.70%	4.90%
2/17/1995	11.90%	7.70%	4.20%
3/9/1995	11.50%	7.71%	3.79%
3/20/1995	12.00%	7.72%	4.28%
3/23/1995	12.81%	7.72%	5.09%
3/29/1995	11.60%	7.72%	3.88%
4/6/1995	11.10%	7.71%	3.39%
4/7/1995	11.00%	7.71%	3.29%
4/19/1995	11.00%	7.70%	3.30%
5/12/1995	11.63%	7.68%	3.95%
5/25/1995	11.20%	7.65%	3.55%
6/9/1995	11.25%	7.60%	3.65%
6/21/1995	12.25%	7.56%	4.69%
6/30/1995	11.10%	7.52%	3.58%
9/11/1995	11.30%	7.20%	4.10%
9/27/1995	11.30%	7.12%	4.18%
9/27/1995	11.50%	7.12%	4.38%
9/27/1995	11.75%	7.12%	4.63%
9/29/1995	11.00%	7.11%	3.89%
11/9/1995	11.38%	6.90%	4.48%
11/9/1995	12.36%	6.90%	5.46%
11/17/1995	11.00%	6.86%	4.14%
12/4/1995	11.35%	6.78%	4.57%
12/4/1995	11.40%	6.74%	4.66%
12/11/1995	11.60%	6.70%	4.90%
12/20/1995	12.00%	6.66%	5.34%
2/5/1996		6.48%	5.34%
3/29/1996	12.25% 10.67%	6.42%	4.25%
4/8/1996	11.00%	6.42%	4.25%
4/11/1996		6.43%	6.16%
4/11/1996	12.59%	6.43%	6.16%
4/11/1996	12.59%		
	11.25%	6.43%	4.82%
4/30/1996	11.00%	6.43%	4.57%
5/13/1996	11.00%	6.44%	4.56%
5/23/1996	11.25%	6.43%	4.82%
6/25/1996	11.25%	6.48%	4.77%

6/27/1996	11.20%	6.48%	4.72%
8/12/1996	10.40%	6.57%	3.83%
9/27/1996	11.00%	6.71%	4.29%
10/16/1996	12.25%	6.76%	5.49%
11/5/1996	11.00%	6.81%	4.19%
11/26/1996	11.30%	6.83%	4.47%
12/18/1996	11.75%	6.83%	4.92%
12/31/1996	11.50%	6.83%	4.67%
1/3/1997	10.70%	6.83%	3.87%
2/13/1997	11.80%	6.82%	4.98%
2/20/1997	11.80%	6.82%	4.98%
3/31/1997	10.02%	6.80%	3.22%
4/2/1997	11.65%	6.80%	4.85%
4/28/1997	11.50%	6.81%	4.69%
4/29/1997	11.70%	6.81%	4.89%
7/17/1997		6.77%	
	12.00%	6.60%	5.23% 4.40%
12/12/1997	11.00% 11.12%		4.40%
12/23/1997		6.57%	
2/2/1998	12.75%	6.39%	6.36%
3/2/1998	11.25%	6.29%	4.96%
3/6/1998	10.75%	6.27%	4.48%
3/20/1998	10.50%	6.22%	4.28%
4/30/1998	12.20%	6.12%	6.08%
7/10/1998	11.40%	5.94%	5.46%
9/15/1998	11.90%	5.78%	6.12%
11/30/1998	12.60%	5.58%	7.02%
12/10/1998	12.20%	5.54%	6.66%
12/17/1998	12.10%	5.52%	6.58%
2/5/1999	10.30%	5.38%	4.92%
3/4/1999	10.50%	5.34%	5.16%
4/6/1999	10.94%	5.32%	5.62%
7/29/1999	10.75%	5.52%	5.23%
9/23/1999	10.75%	5.70%	5.05%
11/17/1999	11.10%	5.90%	5.20%
1/7/2000	11.50%	6.05%	5.45%
1/7/2000	11.50%	6.05%	5.45%
2/17/2000	10.60%	6.17%	4.43%
3/28/2000	11.25%	6.20%	5.05%
5/24/2000	11.00%	6.18%	4.82%
7/18/2000	12.20%	6.16%	6.04%
9/29/2000	11.16%	6.03%	5.13%
11/28/2000	12.90%	5.89%	7.01%
11/30/2000	12.10%	5.88%	6.22%
1/23/2001	11.25%	5.79%	5.46%
2/8/2001	11.50%	5.77%	5.73%
5/8/2001	10.75%	5.62%	5.13%
6/26/2001	11.00%	5.62%	5.38%
7/25/2001	11.02%	5.60%	5.42%
7/25/2001	11.02%	5.60%	5.42%
7/31/2001	11.00%	5.59%	5.41%
8/31/2001	10.50%	5.56%	4.94%
9/7/2001	10.75%	5.55%	5.20%
9/10/2001	11.00%	5.55%	5.45%
9/20/2001	10.00%	5.55%	4.45%
10/24/2001	10.30%	5.54%	4.76%
11/28/2001	10.60%	5.49%	5.11%
12/3/2001	12.88%	5.49%	7.39%
12/20/2001	12.50%	5.50%	7.00%
1/22/2002	10.00%	5.50%	4.50%
3/27/2002	10.10%	5.45%	4.65%
4/22/2002	11.80%	5.45%	6.35%
5/28/2002	10.17%	5.46%	4.71%
6/10/2002	12.00%	5.47%	6.53%
6/18/2002	11.16%	5.48%	5.68%
6/20/2002	11.00%	5.48%	5.52%
6/20/2002	12.30%	5.48%	6.82%
7/15/2002	11.00%	5.48%	5.52%
9/12/2002	12.30%	5.45%	6.85%
9/26/2002	10.45%	5.41%	5.04%
12/4/2002	11.55%	5.29%	6.26%
12/13/2002	11.75%	5.27%	6.48%
12/20/2002	11.40%	5.25%	6.15%
1/8/2003	11.10%	5.19%	5.91%
1/31/2003	12.45%	5.13%	7.32%
2/28/2003	12.30%	5.05%	7.25%
3/6/2003	10.75%	5.03%	5.72%
3/7/2003	9.96%	5.02%	4.94%
3/20/2003	12.00%	4.98%	7.02%
4/3/2003	12.00%	4.96%	7.04%
4/15/2003	11.15%	4.94%	6.21%
6/25/2003	10.75%	4.79%	5.96%
6/26/2003	10.75%	4.79%	5.96%
7/9/2003	9.75%	4.79%	4.96%
	• /•		

7/16/2003	9.75%	4.79%	4.96%
7/10/2003	9.50%	4.80%	4.70%
8/26/2003	10.50%	4.83%	5.67%
12/17/2003	9.85%	4.03%	4.91%
12/17/2003	10.70%	4.94%	5.76%
12/17/2003	11.50%	4.94%	6.56%
12/19/2003	12.00%	4.94%	7.06%
12/19/2003	12.00%	4.94%	7.06%
12/19/2003		4.94% 4.94%	
	10.50%		5.56%
1/13/2004	12.00%	4.95%	7.05%
3/2/2004	10.75%	4.99%	5.76%
3/26/2004	10.25%	5.02%	5.23%
4/5/2004	11.25%	5.03%	6.22%
5/18/2004	10.50%	5.07%	5.43%
5/25/2004	10.25%	5.08%	5.17%
5/27/2004	10.25%	5.08%	5.17%
6/2/2004	11.22%	5.08%	6.14%
6/30/2004	10.50%	5.10%	5.40%
6/30/2004	10.50%	5.10%	5.40%
7/16/2004	11.60%	5.11%	6.49%
8/25/2004	10.25%	5.10%	5.15%
9/9/2004	10.40%	5.10%	5.30%
11/9/2004	10.50%	5.07%	5.43%
11/23/2004	11.00%	5.06%	5.94%
12/14/2004	10.97%	5.07%	5.90%
12/21/2004	11.25%	5.07%	6.18%
12/21/2004	11.50%	5.07%	6.43%
12/22/2004	10.70%	5.07%	5.63%
12/22/2004	11.50%	5.07%	6.43%
12/29/2004	9.85%	5.07%	4.78%
1/6/2005	10.70%	5.08%	5.62%
2/18/2005	10.30%	4.98%	5.32%
2/25/2005	10.50%	4.96%	5.54%
3/10/2005	11.00%	4.93%	6.07%
3/24/2005	10.30%	4.90%	5.40%
4/4/2005	10.00%	4.88%	5.12%
4/7/2005	10.25%	4.87%	5.38%
5/18/2005	10.25%	4.78%	5.47%
5/25/2005	10.75%	4.76%	5.99%
5/26/2005	9.75%	4.76%	4.99%
6/1/2005	9.75%	4.75%	5.00%
7/19/2005	11.50%	4.64%	6.86%
8/5/2005	11.75%	4.62%	7.13%
8/15/2005	10.13%	4.61%	5.52%
9/28/2005	10.00%	4.54%	5.46%
10/4/2005	10.75%	4.54%	6.21%
12/12/2005	11.00%	4.55%	6.45%
12/13/2005	10.75%	4.55%	6.20%
12/21/2005	10.29%	4.54%	5.75%
12/21/2005	10.40%	4.54%	5.86%
12/22/2005	11.00%	4.54%	6.46%
12/22/2005	11.15%	4.54%	6.61%
12/28/2005	10.00%	4.54%	5.46%
12/28/2005	10.00%	4.54%	5.46%
1/5/2006	11.00%	4.53%	6.47%
1/27/2006	9.75%	4.52%	5.23%
3/3/2006	10.39%	4.53%	5.86%
4/17/2006	10.20%	4.61%	5.59%
4/26/2006	10.60%	4.64%	5.96%
5/17/2006	11.60%	4.69%	6.91%
6/6/2006	10.00%	4.74%	5.26%
6/27/2006	10.75%	4.80%	5.95%
7/6/2006	10.20%	4.83%	5.37%
7/24/2006	9.60%	4.86%	4.74%
7/26/2006	10.50%	4.86%	5.64%
7/28/2006	10.05%	4.86%	5.19%
8/23/2006	9.55%	4.89%	4.66%
9/1/2006	10.54%	4.90%	5.64%
9/14/2006	10.00%	4.91%	5.09%
10/6/2006	9.67%	4.92%	4.75%
11/21/2006	10.08%	4.95%	5.13%
11/21/2006	10.08%	4.95%	5.13%
11/21/2006	10.12%	4.95%	5.17%
12/1/2006	10.25%	4.95%	5.30%
12/1/2006	10.50%	4.95%	5.55%
12/7/2006	10.75%	4.95%	5.80%
12/21/2006	10.90%	4.95%	5.95%
12/21/2006	11.25%	4.95%	6.30%
12/22/2006	10.25%	4.95%	5.30%
1/5/2007	10.00%	4.95%	5.05%
1/11/2007	10.10%	4.95%	5.15%
1/11/2007	10.10%	4.95%	5.15%
1/11/2007	10.90%	4.95%	5.95%

1/12/2007	10.10%	4.95%	5.15%
1/13/2007	10.40%	4.95%	5.45%
1/19/2007		4.94%	5.86%
	10.80%		
3/21/2007	11.35%	4.87%	6.48%
3/22/2007	9.75%	4.86%	4.89%
5/15/2007	10.00%	4.81%	5.19%
5/17/2007	10.25%	4.81%	5.44%
5/17/2007	10.25%	4.81%	5.44%
5/22/2007	10.20%	4.80%	5.40%
5/22/2007	10.50%	4.80%	5.70%
5/23/2007	10.70%	4.80%	5.90%
5/25/2007	9.67%	4.80%	4.87%
6/15/2007	9.90%	4.82%	5.08%
6/21/2007	10.20%	4.83%	5.37%
6/22/2007	10.50%	4.83%	5.67%
6/28/2007	10.75%	4.84%	5.91%
7/12/2007	9.67%	4.86%	4.81%
7/19/2007	10.00%	4.87%	5.13%
7/19/2007	10.00%	4.87%	5.13%
8/15/2007	10.40%	4.88%	5.52%
10/9/2007	10.00%	4.91%	5.09%
10/17/2007	9.10%	4.91%	4.19%
10/31/2007	9.96%	4.90%	5.06%
11/29/2007	10.90%	4.87%	6.03%
12/6/2007	10.75%	4.86%	5.89%
12/13/2007	9.96%	4.86%	5.10%
12/14/2007	10.70%	4.86%	5.84%
12/14/2007	10.80%	4.86%	5.94%
12/19/2007	10.20%	4.86%	5.34%
12/20/2007	10.20%	4.85%	5.35%
12/20/2007	11.00%		
		4.85%	6.15%
12/28/2007	10.25%	4.85%	5.40%
12/31/2007	11.25%	4.85%	6.40%
1/8/2008	10.75%	4.83%	5.92%
1/17/2008	10.75%	4.81%	5.94%
1/28/2008	9.40%	4.80%	4.60%
1/30/2008	10.00%	4.79%	5.21%
1/31/2008	10.71%	4.79%	5.92%
2/29/2008	10.25%	4.75%	5.50%
3/12/2008	10.25%	4.73%	5.52%
3/25/2008	9.10%	4.68%	4.42%
4/22/2008	10.25%	4.60%	5.65%
4/24/2008	10.10%	4.60%	5.50%
5/1/2008	10.70%	4.59%	6.11%
5/19/2008	11.00%	4.56%	6.44%
5/27/2008	10.00%	4.55%	5.45%
6/10/2008	10.70%	4.54%	6.16%
6/27/2008	10.50%	4.54%	5.96%
6/27/2008	11.04%	4.54%	6.50%
7/10/2008	10.43%	4.52%	5.91%
7/16/2008	9.40%	4.52%	4.88%
7/30/2008	10.80%	4.51%	6.29%
7/31/2008	10.70%	4.51%	6.19%
8/11/2008	10.25%	4.51%	5.74%
8/26/2008	10.25%		
		4.50%	5.68%
9/10/2008	10.30%	4.50%	5.80%
9/24/2008	10.65%	4.48%	6.17%
9/24/2008	10.65%	4.48%	6.17%
9/24/2008	10.65%	4.48%	6.17%
9/30/2008	10.20%	4.48%	5.72%
10/8/2008	10.15%	4.46%	5.69%
11/13/2008	10.55%	4.45%	6.10%
11/17/2008	10.20%	4.44%	5.76%
12/1/2008	10.25%	4.40%	5.85%
12/1/2008	11.00%	4.27%	6.73%
12/29/2008	10.00%	4.24%	5.76%
12/29/2008	10.20%	4.24%	5.96%
12/31/2008	10.75%	4.22%	6.53%
1/14/2009	10.50%	4.15%	6.35%
1/21/2009	10.50%	4.12%	6.38%
1/21/2009	10.50%	4.12%	6.38%
1/21/2009	10.50%	4.12%	6.38%
1/27/2009	10.76%	4.09%	6.67%
1/30/2009	10.50%	4.08%	6.42%
2/4/2009	8.75%	4.06%	4.69%
3/4/2009	10.50%	3.96%	6.54%
3/12/2009	11.50%	3.93%	7.57%
4/2/2009	11.10%	3.85%	7.25%
4/21/2009	10.61%	3.80%	6.81%
4/24/2009	10.00%	3.79%	6.21%
4/30/2009	11.25%	3.78%	7.47%
5/4/2009	10.74%	3.77%	6.97%
5/20/2009	10.25%	3.74%	6.51%

5/28/2009	10.50%	3.74%	6.76%
6/22/2009	10.00%	3.76%	6.24%
6/24/2009	10.80%	3.77%	7.03%
		3.77%	
7/8/2009	10.63%		6.86%
7/17/2009	10.50%	3.78%	6.72%
8/31/2009	10.25%	3.82%	6.43%
10/14/2009	10.70%	4.01%	6.69%
10/23/2009	10.88%	4.06%	6.82%
11/2/2009	10.70%	4.09%	6.61%
11/3/2009	10.70%	4.10%	6.60%
11/24/2009	10.25%	4.15%	6.10%
11/25/2009	10.75%	4.16%	6.59%
11/30/2009	10.35%	4.17%	6.18%
12/3/2009	10.50%	4.18%	6.32%
12/7/2009	10.70%	4.18%	6.52%
12/16/2009	10.90%	4.21%	6.69%
12/16/2009	11.00%	4.21%	6.79%
12/18/2009	10.40%	4.22%	6.18%
12/18/2009	10.40%	4.22%	6.18%
12/22/2009	10.20%	4.23%	5.97%
12/22/2009	10.40%	4.23%	6.17%
12/22/2009	10.40%	4.23%	6.17%
12/30/2009	10.00%	4.26%	5.74%
1/4/2010	10.80%	4.28%	6.52%
1/11/2010	11.00%	4.30%	6.70%
1/26/2010	10.13%	4.35%	5.78%
1/27/2010	10.40%	4.35%	6.05%
1/27/2010	10.40%	4.35%	6.05%
1/27/2010	10.40%		
		4.35%	6.35%
2/9/2010	9.80%	4.38%	5.42%
2/18/2010	10.60%	4.40%	6.20%
2/24/2010	10.18%	4.41%	5.77%
3/2/2010	9.63%	4.41%	5.22%
3/4/2010	10.50%	4.41%	6.09%
3/5/2010	10.50%	4.41%	6.09%
3/11/2010	11.90%	4.42%	7.48%
3/17/2010	10.00%	4.41%	5.59%
3/25/2010	10.15%	4.42%	5.73%
4/2/2010	10.10%	4.43%	5.67%
4/27/2010	10.00%	4.46%	5.54%
4/29/2010	9.90%	4.46%	5.44%
4/29/2010	10.06%	4.46%	5.60%
4/29/2010	10.26%	4.46%	5.80%
5/12/2010	10.30%	4.45%	5.85%
5/12/2010	10.30%	4.45%	5.85%
5/28/2010	10.10%	4.44%	5.66%
5/28/2010	10.10%	4.44%	5.76%
	10.20%	4.44%	
6/7/2010			5.86%
6/16/2010	10.00%	4.44%	5.56%
6/28/2010	9.67%	4.43%	5.24%
6/28/2010	10.50%	4.43%	6.07%
6/30/2010	9.40%	4.43%	4.97%
7/1/2010	10.25%	4.43%	5.82%
7/15/2010	10.53%	4.43%	6.10%
7/15/2010	10.70%	4.43%	6.27%
7/30/2010	10.70%	4.41%	6.29%
8/4/2010	10.50%	4.41%	6.09%
8/6/2010	9.83%	4.41%	5.42%
8/25/2010	9.90%	4.37%	5.53%
9/3/2010	10.60%	4.35%	6.25%
9/14/2010	10.70%	4.33%	6.37%
9/16/2010	10.00%	4.33%	5.67%
9/16/2010	10.00%	4.33%	5.67%
9/30/2010	9.75%	4.29%	5.46%
10/14/2010	10.35%	4.24%	6.11%
10/28/2010	10.70%	4.21%	6.49%
11/2/2010	10.38%	4.20%	6.18%
11/4/2010	10.70%	4.20%	6.50%
11/19/2010			
	10.20%	4.18%	6.02%
11/22/2010	10.00%	4.18%	5.82%
12/1/2010	10.13%	4.16%	5.97%
12/6/2010	9.86%	4.15%	5.71%
12/9/2010	10.25%	4.15%	6.10%
12/13/2010	10.70%	4.15%	6.55%
12/14/2010	10.13%	4.15%	5.98%
12/15/2010	10.44%	4.15%	6.29%
12/17/2010	10.00%	4.15%	5.85%
12/20/2010	10.60%	4.15%	6.45%
12/21/2010			
	10.30%	4.14%	6.16%
12/27/2010	9.90%	4.14%	5.76%
12/29/2010	11.15%	4.14%	7.01%
1/5/2011	10.15%	4.13%	6.02%
1/12/2011	10.30%	4.12%	6.18%

1/13/2011	10.30%	4.12%	6.18%
1/18/2011	10.00%	4.12%	5.88%
1/20/2011	9.30%	4.12%	5.18%
1/20/2011	10.13%	4.12%	6.01%
1/31/2011	9.60%	4.12%	5.48%
2/3/2011	10.00%	4.12%	5.88%
2/25/2011	10.00%	4.14%	5.86%
3/25/2011	9.80%	4.18%	5.62%
3/30/2011	10.00%	4.18%	5.82%
4/12/2011	10.00%	4.21%	5.79%
4/25/2011	10.74%	4.23%	6.51%
4/26/2011	9.67%	4.23%	5.44%
4/27/2011	10.40%	4.24%	6.16%
5/4/2011	10.00%	4.24%	5.76%
5/4/2011	10.00%	4.24%	5.76%
5/24/2011	10.50%	4.27%	6.23%
6/8/2011	10.75%	4.30%	6.45%
6/16/2011	9.20%	4.32%	4.88%
6/17/2011	9.95%	4.32%	5.63%
7/13/2011	10.20%	4.36%	5.84%
8/1/2011	9.20%	4.39%	4.81%
8/8/2011	10.00%	4.38%	5.62%
8/11/2011	10.00%	4.38%	5.62%
8/12/2011	10.35%	4.37%	5.98%
8/19/2011	10.25%	4.36%	5.89%
9/2/2011	12.88%	4.32%	8.56%
9/22/2011	10.00%	4.24%	5.76%
10/12/2011	10.30%	4.14%	6.16%
10/20/2011	10.50%	4.10%	6.40%
11/30/2011	10.90%	3.87%	7.03%
11/30/2011	10.90%	3.87%	7.03%
12/14/2011	10.00%	3.80%	6.20%
12/14/2011	10.30%	3.80%	6.50%
12/20/2011	10.20%	3.76%	6.44%
12/21/2011	10.20%	3.76%	6.44%
12/22/2011	9.90%	3.75%	6.15%
12/22/2011	10.40%	3.75%	6.65%
12/23/2011	10.19%	3.74%	6.45%
1/25/2012	10.50%	3.57%	6.93%
1/27/2012	10.50%	3.56%	6.94%
2/15/2012	10.20%	3.47%	6.73%
2/23/2012	9.90%	3.44%	6.46%
2/27/2012	10.25%	3.43%	6.82%
2/29/2012	10.40%	3.41%	6.99%
3/29/2012	10.37%	3.32%	7.05%
4/4/2012	10.00%	3.30%	6.70%
4/26/2012	10.00%	3.21%	6.79%
5/2/2012	10.00%	3.18%	6.82%
5/7/2012	9.80%	3.17%	6.63%
5/15/2012	10.00%	3.14%	6.86%
5/29/2012	10.05%	3.11%	6.94%
6/7/2012	10.30%	3.08%	7.22%
6/14/2012	9.40%	3.06%	6.34%
6/15/2012	10.40%	3.06%	7.34%
6/18/2012	9.60%	3.06%	6.54%
6/19/2012	9.25%	3.05%	6.20%
6/26/2012	10.10%	3.04%	7.06%
6/29/2012	10.00%	3.04%	6.96%
7/9/2012	10.20%	3.03%	7.17%
7/16/2012	9.80%	3.02%	6.78%
7/20/2012	9.31%	3.01%	6.30%
7/20/2012	9.81%	3.01%	6.80%
9/13/2012	9.80%	2.94%	6.86%
9/19/2012	9.80%	2.94%	6.86%
9/19/2012	10.05%	2.94%	7.11%
9/26/2012	9.50%	2.94%	6.56%
10/12/2012	9.60%	2.93%	6.67%
10/23/2012	9.75%	2.93%	6.82%
10/24/2012	10.30%	2.93%	7.37%
11/9/2012	10.30%	2.92%	7.38%
11/28/2012	10.40%	2.90%	7.50%
11/29/2012	9.75%	2.89%	6.86%
11/29/2012	9.88%	2.89%	6.99%
12/5/2012	9.71%	2.89%	6.82%
12/5/2012	10.40%	2.89%	7.51%
12/3/2012	9.80%	2.88%	6.92%
12/12/2012	9.50%	2.88%	6.62%
12/13/2012	10.50%	2.88%	7.62%
12/13/2012	10.30%	2.88%	7.52%
12/14/2012	9.71%	2.87%	6.84%
12/19/2012	10.25%	2.87%	7.38%
12/19/2012	9.50%	2.87%	6.63%
12/20/2012	9.50%	2.87%	6.93%
0 / 2 0 1 2	J.0070	2.01 /0	0.00/0

12/20/2012	10.25%	2.87%	7.38%
12/20/2012	10.25%	2.87%	7.38%
12/20/2012	10.30%	2.87%	7.43%
12/20/2012	10.40%	2.87%	7.53%
12/20/2012	10.45%	2.87%	7.58%
12/21/2012	10.20%	2.87%	7.33%
12/26/2012	9.80%	2.86%	6.94%
1/9/2013	9.70%	2.85%	6.85%
1/9/2013	9.70%	2.85%	6.85%
1/9/2013	9.70%	2.85%	6.85%
1/16/2013	9.60%	2.84%	6.76%
1/16/2013	9.60%	2.84%	6.76%
2/13/2013	10.20%	2.84%	7.36%
2/22/2013	9.75%	2.85%	6.90%
2/27/2013	10.00%	2.86%	7.14%
3/14/2013	9.30% 9.80%	2.88%	6.42% 6.90%
3/27/2013 5/1/2013		2.90%	6.90%
	9.84%	2.94%	
5/15/2013	10.30%	2.96%	7.34%
5/30/2013	10.20%	2.98%	7.22%
5/31/2013	9.00%	2.98%	6.02%
6/11/2013	10.00%	3.00%	7.00%
6/21/2013	9.75%	3.02%	6.73%
6/25/2013	9.80%	3.03%	6.77%
7/12/2013	9.36%	3.07%	6.29%
8/8/2013	9.83%	3.14%	6.69%
8/14/2013	9.15%	3.16%	5.99%
9/11/2013	10.20%	3.26%	6.94%
9/11/2013	10.25%	3.26%	6.99%
9/24/2013	10.20%	3.31%	6.89%
10/3/2013	9.65%	3.33%	6.32%
11/6/2013	10.20%	3.41%	6.79%
11/21/2013	10.00%	3.44%	6.56%
11/26/2013	10.00%	3.45%	6.55%
12/3/2013	10.25%	3.47%	6.78%
12/4/2013	9.50%	3.47%	6.03%
12/5/2013	10.20%	3.48%	6.72%
12/9/2013	8.72%	3.48%	5.24%
12/9/2013	9.75%	3.48%	6.27%
12/13/2013	9.75%	3.50%	6.25%
12/16/2013	9.95%	3.50%	6.45%
12/16/2013	9.95%	3.50%	6.45%
12/16/2013	10.12%	3.50%	6.62%
12/17/2013	9.50%	3.51%	5.99%
12/17/2013	10.95%	3.51%	7.44%
12/18/2013	8.72%	3.51%	5.21%
12/18/2013	9.80%	3.51%	6.29%
12/19/2013	10.15%	3.51%	6.64%
12/30/2013	9.50%	3.54%	5.96%
2/20/2014	9.20%	3.68%	5.52%
2/26/2014	9.75%	3.69%	6.06%
3/17/2014	9.55%	3.72%	5.83%
3/26/2014	9.40%	3.73%	5.67%
3/26/2014	9.96%	3.73%	6.23%
4/2/2014	9.70%	3.73%	5.97%
5/16/2014	9.80%	3.70%	6.10%
5/30/2014	9.70%	3.68%	6.02%
6/6/2014	10.40%	3.67%	6.73%
6/30/2014	9.55%	3.64%	5.91%
7/2/2014	9.62%	3.64%	5.98%
7/10/2014	9.95%	3.63%	6.32%
7/23/2014	9.75%	3.61%	6.14%
7/29/2014	9.45%	3.60%	5.85%
7/31/2014	9.90%	3.60%	6.30%
8/20/2014	9.75%	3.57%	6.18%
8/25/2014	9.60%	3.56%	6.04%
8/29/2014	9.80%	3.54%	6.26%
9/11/2014	9.60%	3.51%	6.09%
9/15/2014	10.25%	3.51%	6.74%
10/9/2014	9.80%	3.45%	6.35%
11/6/2014	9.56%	3.37%	6.19%
11/6/2014	10.20%	3.37%	6.83%
11/14/2014	10.20%	3.35%	6.85%
11/26/2014	9.70%	3.33%	6.37%
11/26/2014	10.20%	3.33%	6.87%
12/4/2014	9.68%	3.31%	6.37%
12/10/2014	9.25%	3.29%	5.96%
12/10/2014	9.25%	3.29%	5.96%
12/11/2014	10.07%	3.29%	6.78%
12/11/2014	10.07%	3.28%	6.92%
12/17/2014	9.17%	3.27%	5.90%
12/17/2014	9.83%	3.26%	6.57%
1/23/2015	9.50%	3.14%	6.36%
	5.00 /0	570	2.00/0

2/24/2015	9.83%	3.04%	6.79%
3/18/2015	9.75%	2.98%	6.77%
3/25/2015	9.50%	2.96%	6.54%
3/26/2015	9.72%	2.95%	6.77%
4/23/2015	10.20%	2.87%	7.33%
4/29/2015	9.53%	2.86%	6.67%
5/1/2015	9.60%	2.85%	6.75%
5/26/2015	9.75%	2.83%	6.92%
6/17/2015	9.00%	2.82%	6.18%
6/17/2015	9.00%	2.82%	6.18%
9/2/2015	9.50%	2.79%	6.71%
9/10/2015	9.30%	2.79%	6.51%
10/15/2015	9.00%	2.81%	6.19%
11/19/2015	10.00%	2.88%	7.12%
11/19/2015	10.30%	2.88%	7.42%
12/3/2015	10.00%	2.90%	7.10%
12/9/2015	9.14%	2.90%	6.24%
12/9/2015	9.14%	2.90%	6.24%
12/11/2015	10.30%	2.90%	7.40%
12/15/2015	9.60%	2.91%	6.69%
12/17/2015	9.70%	2.91%	6.79%
12/18/2015	9.50%	2.91%	6.59%
12/30/2015	9.50%	2.93%	6.57%
1/6/2016	9.50%	2.94%	6.56%
2/23/2016	9.75%	2.94%	6.81%
3/16/2016	9.85%	2.91%	6.94%
4/29/2016	9.80%	2.83%	6.97%
6/3/2016	9.75%	2.80%	6.95%
6/8/2016	9.48%	2.80%	6.68%
6/15/2016	9.00%	2.79%	6.21%
6/15/2016	9.00%	2.79%	6.21%
		# of Cases:	1,475
		Average:	4.51%
		J	

### Constant Growth Discounted Cash Flow Model 30 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
•			Average		Expected	Zacks	First Call	Value Line	Average			
		Annualized	Stock	Dividend	Dividend	Earnings	Earnings	Earnings	Earnings	Low	Mean	High
Company	Ticker	Dividend	Price	Yield	Yield	Growth	Growth	Growth	Growth	ROE	ROE	ROE
ALLETE, Inc.	ALE	\$2.08	\$59.67	3.49%	3.57%	5.50%	5.00%	4.00%	4.83%	7.56%	8.40%	9.08%
Alliant Energy Corporation	LNT	\$1.18	\$38.20	3.08%	3.17%	6.10%	6.60%	6.00%	6.23%	9.17%	9.40%	9.78%
Ameren Corporation	AEE	\$1.70	\$50.12	3.39%	3.49%	6.10%	5.20%	6.00%	5.77%	8.68%	9.26%	9.60%
American Electric Power Company, Inc.	AEP	\$2.24	\$66.05	3.39%	3.47%	4.90%	4.10%	4.00%	4.33%	7.46%	7.80%	8.37%
Avista Corporation	AVA	\$1.37	\$41.65	3.29%	3.37%	5.00%	5.00%	5.00%	5.00%	8.37%	8.37%	8.37%
CMS Energy Corporation	CMS	\$1.24	\$42.95	2.89%	2.98%	6.40%	7.24%	6.00%	6.55%	8.97%	9.53%	10.23%
DTE Energy Company	DTE	\$3.08	\$92.91	3.32%	3.40%	5.80%	5.35%	5.00%	5.38%	8.40%	8.79%	9.21%
El Paso Electric Company	EE	\$1.24	\$45.30	2.74%	2.81%	6.70%	7.00%	2.50%	5.40%	5.27%	8.21%	9.83%
Entergy Corporation	ETR	\$3.40	\$77.45	4.39%	4.47%	NA	NA	3.50%	3.50%	7.97%	7.97%	7.97%
Eversource Energy	ES	\$1.78	\$56.36	3.16%	3.25%	6.30%	5.49%	6.00%	5.93%	8.73%	9.18%	9.56%
FirstEnergy Corp.	FE	\$1.44	\$33.34	4.32%	4.51%	NA	NA	9.00%	9.00%	13.51%	13.51%	13.51%
IDACORP, Inc.	IDA	\$2.04	\$74.50	2.74%	2.79%	4.00%	4.00%	3.00%	3.67%	5.78%	6.46%	6.79%
MGE Energy, Inc.	MGEE	\$1.18	\$53.30	2.21%	2.27%	NA	4.00%	7.00%	5.50%	6.26%	7.77%	9.29%
NorthWestern Corporation	NWE	\$2.00	\$59.68	3.35%	3.44%	5.00%	5.00%	6.50%	5.50%	8.43%	8.94%	9.96%
OGE Energy Corp.	OGE	\$1.10	\$30.95	3.55%	3.63%	5.20%	4.30%	3.00%	4.17%	6.61%	7.80%	8.85%
Otter Tail Corporation	OTTR	\$1.25	\$30.96	4.04%	4.16%	NA	6.00%	6.00%	6.00%	10.16%	10.16%	10.16%
Pinnacle West Capital Corporation	PNW	\$2.50	\$75.82	3.30%	3.36%	4.00%	3.73%	4.00%	3.91%	7.09%	7.27%	7.36%
PNM Resources, Inc.	PNM	\$0.88	\$33.49	2.63%	2.74%	7.60%	8.76%	9.00%	8.45%	10.33%	11.19%	11.75%
Portland General Electric Company	POR	\$1.28	\$41.86	3.06%	3.15%	6.40%	6.57%	5.50%	6.16%	8.64%	9.31%	9.73%
SCANA Corporation	SCG	\$2.30	\$71.01	3.24%	3.32%	5.30%	5.40%	4.50%	5.07%	7.81%	8.39%	8.73%
Wisconsin Energy Corporation	WEC	\$1.98	\$61.68	3.21%	3.31%	6.30%	6.77%	6.00%	6.36%	9.31%	9.67%	10.09%
Xcel Energy Inc.	XEL	\$1.36	\$42.20	3.22%	3.31%	5.30%	5.27%	5.50%	5.36%	8.58%	8.67%	8.81%
PROXY GROUP MEAN				3.27%	3.36%	5.66%	5.54%	5.32%	5.55%	8.32%	8.91%	9.41%
PROXY GROUP MEDIAN				3.26%	3.34%	5.65%	5.31%	5.50%	5.45%	8.42%	8.73%	9.41%

Notes:

[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals 30-trading day average as of June 30, 2016
[3] Equals [1] / [2]
[4] Equals [3] x (1 + 0.5 x [8])
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])

[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Minimum([5], [6], [7])
[10] Equals [4] + [8]
[11] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

### Constant Growth Discounted Cash Flow Model - Combination Group 90 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
			Average		Expected	Zacks	First Call	Value Line	Average			
		Annualized	Stock	Dividend	Dividend	Earnings	Earnings	Earnings	Earnings	Low	Mean	High
Company	Ticker	Dividend	Price	Yield	Yield	Growth	Growth	Growth	Growth	ROE	ROE	ROE
ALLETE, Inc.	ALE	\$2.08	\$57.08	3.64%	3.73%	5.50%	5.00%	4.00%	4.83%	7.72%	8.57%	9.24%
Alliant Energy Corporation	LNT	\$1.18	\$36.64	3.21%	3.31%	6.10%	6.60%	6.00%	6.23%	9.30%	9.54%	9.91%
Ameren Corporation	AEE	\$1.70	\$48.90	3.48%	3.58%	6.10%	5.20%	6.00%	5.77%	8.77%	9.34%	9.68%
American Electric Power Company, Inc.	AEP	\$2.24	\$65.03	3.44%	3.52%	4.90%	4.10%	4.00%	4.33%	7.51%	7.85%	8.43%
Avista Corporation	AVA	\$1.37	\$40.48	3.38%	3.47%	5.00%	5.00%	5.00%	5.00%	8.47%	8.47%	8.47%
CMS Energy Corporation	CMS	\$1.24	\$41.70	2.97%	3.07%	6.40%	7.24%	6.00%	6.55%	9.06%	9.62%	10.32%
DTE Energy Company	DTE	\$3.08	\$89.93	3.42%	3.52%	5.80%	5.35%	5.00%	5.38%	8.51%	8.90%	9.32%
El Paso Electric Company	EE	\$1.24	\$44.56	2.78%	2.86%	6.70%	7.00%	2.50%	5.40%	5.32%	8.26%	9.88%
Entergy Corporation	ETR	\$3.40	\$76.55	4.44%	4.52%	NA	NA	3.50%	3.50%	8.02%	8.02%	8.02%
Eversource Energy	ES	\$1.78	\$56.58	3.15%	3.24%	6.30%	5.49%	6.00%	5.93%	8.72%	9.17%	9.54%
FirstEnergy Corp.	FE	\$1.44	\$34.24	4.21%	4.40%	NA	NA	9.00%	9.00%	13.40%	13.40%	13.40%
IDACORP, Inc.	IDA	\$2.04	\$73.58	2.77%	2.82%	4.00%	4.00%	3.00%	3.67%	5.81%	6.49%	6.83%
MGE Energy, Inc.	MGEE	\$1.18	\$51.38	2.30%	2.36%	NA	4.00%	7.00%	5.50%	6.34%	7.86%	9.38%
NorthWestern Corporation	NWE	\$2.00	\$59.59	3.36%	3.45%	5.00%	5.00%	6.50%	5.50%	8.44%	8.95%	9.97%
OGE Energy Corp.	OGE	\$1.10	\$29.13	3.78%	3.86%	5.20%	4.30%	3.00%	4.17%	6.83%	8.02%	9.07%
Otter Tail Corporation	OTTR	\$1.25	\$29.44	4.25%	4.37%	NA	6.00%	6.00%	6.00%	10.37%	10.37%	10.37%
Pinnacle West Capital Corporation	PNW	\$2.50	\$73.65	3.39%	3.46%	4.00%	3.73%	4.00%	3.91%	7.19%	7.37%	7.46%
PNM Resources, Inc.	PNM	\$0.88	\$32.94	2.67%	2.78%	7.60%	8.76%	9.00%	8.45%	10.37%	11.24%	11.79%
Portland General Electric Company	POR	\$1.28	\$40.24	3.18%	3.28%	6.40%	6.57%	5.50%	6.16%	8.77%	9.44%	9.86%
SCANA Corporation	SCG	\$2.30	\$69.22	3.32%	3.41%	5.30%	5.40%	4.50%	5.07%	7.90%	8.47%	8.81%
Wisconsin Energy Corporation	WEC	\$1.98	\$59.53	3.33%	3.43%	6.30%	6.77%	6.00%	6.36%	9.43%	9.79%	10.21%
Xcel Energy Inc.	XEL	\$1.36	\$41.15	3.31%	3.39%	5.30%	5.27%	5.50%	5.36%	8.66%	8.75%	8.90%
PROXY GROUP MEAN				3.35%	3.45%	5.66%	5.54%	5.32%	5.55%	8.41%	8.99%	9.49%
PROXY GROUP MEDIAN				3.34%	3.44%	5.65%	5.31%	5.50%	5.45%	8.49%	8.83%	9.46%

Notes:

[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals 90-trading day average as of June 30, 2016
[3] Equals [1] / [2]
[4] Equals [3] x (1 + 0.5 x [8])
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])

[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Minimum([5], [6], [7])
[10] Equals [4] + [8]
[11] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

### Constant Growth Discounted Cash Flow Model - Combination Group 180 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
			Average		Expected	Zacks	First Call	Value Line	Average			
		Annualized	Stock	Dividend	Dividend	Earnings	Earnings	Earnings	Earnings	Low	Mean	High
Company	Ticker	Dividend	Price	Yield	Yield	Growth	Growth	Growth	Growth	ROE	ROE	ROE
ALLETE, Inc.	ALE	\$2.08	\$54.07	3.85%	3.94%	5.50%	5.00%	4.00%	4.83%	7.92%	8.77%	9.45%
Alliant Energy Corporation	LNT	\$1.18	\$33.83	3.47%	3.58%	6.10%	6.60%	6.00%	6.23%	9.58%	9.81%	10.19%
Ameren Corporation	AEE	\$1.70	\$46.40	3.66%	3.77%	6.10%	5.20%	6.00%	5.77%	8.96%	9.54%	9.88%
American Electric Power Company, Inc.	AEP	\$2.24	\$61.54	3.64%	3.72%	4.90%	4.10%	4.00%	4.33%	7.71%	8.05%	8.63%
Avista Corporation	AVA	\$1.37	\$37.83	3.62%	3.71%	5.00%	5.00%	5.00%	5.00%	8.71%	8.71%	8.71%
CMS Energy Corporation	CMS	\$1.24	\$39.10	3.17%	3.27%	6.40%	7.24%	6.00%	6.55%	9.27%	9.82%	10.53%
DTE Energy Company	DTE	\$3.08	\$85.80	3.59%	3.69%	5.80%	5.35%	5.00%	5.38%	8.68%	9.07%	9.49%
El Paso Electric Company	EE	\$1.24	\$41.72	2.97%	3.05%	6.70%	7.00%	2.50%	5.40%	5.51%	8.45%	10.08%
Entergy Corporation	ETR	\$3.40	\$72.44	4.69%	4.78%	NA	NA	3.50%	3.50%	8.28%	8.28%	8.28%
Eversource Energy	ES	\$1.78	\$54.15	3.29%	3.38%	6.30%	5.49%	6.00%	5.93%	8.87%	9.31%	9.69%
FirstEnergy Corp.	FE	\$1.44	\$33.04	4.36%	4.55%	NA	NA	9.00%	9.00%	13.55%	13.55%	13.55%
IDACORP, Inc.	IDA	\$2.04	\$70.82	2.88%	2.93%	4.00%	4.00%	3.00%	3.67%	5.92%	6.60%	6.94%
MGE Energy, Inc.	MGEE	\$1.18	\$48.29	2.44%	2.51%	NA	4.00%	7.00%	5.50%	6.49%	8.01%	9.53%
NorthWestern Corporation	NWE	\$2.00	\$57.21	3.50%	3.59%	5.00%	5.00%	6.50%	5.50%	8.58%	9.09%	10.11%
OGE Energy Corp.	OGE	\$1.10	\$27.72	3.97%	4.05%	5.20%	4.30%	3.00%	4.17%	7.03%	8.22%	9.27%
Otter Tail Corporation	OTTR	\$1.25	\$28.18	4.44%	4.57%	NA	6.00%	6.00%	6.00%	10.57%	10.57%	10.57%
Pinnacle West Capital Corporation	PNW	\$2.50	\$69.12	3.62%	3.69%	4.00%	3.73%	4.00%	3.91%	7.41%	7.60%	7.69%
PNM Resources, Inc.	PNM	\$0.88	\$31.32	2.81%	2.93%	7.60%	8.76%	9.00%	8.45%	10.52%	11.38%	11.94%
Portland General Electric Company	POR	\$1.28	\$38.74	3.30%	3.41%	6.40%	6.57%	5.50%	6.16%	8.90%	9.56%	9.98%
SCANA Corporation	SCG	\$2.30	\$64.86	3.55%	3.64%	5.30%	5.40%	4.50%	5.07%	8.13%	8.70%	9.04%
Wisconsin Energy Corporation	WEC	\$1.98	\$55.89	3.54%	3.66%	6.30%	6.77%	6.00%	6.36%	9.65%	10.01%	10.43%
Xcel Energy Inc.	XEL	\$1.36	\$38.85	3.50%	3.59%	5.30%	5.27%	5.50%	5.36%	8.86%	8.95%	9.10%
PROXY GROUP MEAN				3.54%	3.64%	5.66%	5.54%	5.32%	5.55%	8.60%	9.19%	9.69%
PROXY GROUP MEDIAN				3.54%	3.65%	5.65%	5.31%	5.50%	5.45%	8.70%	9.01%	9.61%

Notes:

[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals 180-trading day average as of June 30, 2016
[3] Equals [1] / [2]
[4] Equals [3] x (1 + 0.5 x [8])
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])

[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Minimum([5], [6], [7])
[10] Equals [4] + [8]
[11] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

### Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EF	S Growth F	Rate Estima	ites	Long-Term		Payout Rati	io	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE I NT	\$59.67 \$38.20	5.50%	5.00% 6.60%	4.00% 6.00%	4.83%	5.32% 5.32%	66.00% 64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00)	9.51% 8.87%	16.83 19.84	3.16 3.73				
Alliant Energy Corporation  Ameren Corporation	AEE	\$38.20 \$50.12	6.10% 6.10%	5.20%	6.00%	6.23% 5.77%	5.32%	68.00%	64.00%	66.88%	(\$0.00) (\$0.00)	9.06%	18.87	3.73				
American Electric Power Company, Inc.	AEP	\$66.05	4.90%	4.10%	4.00%	4.33%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.23%	18.04	3.39				
Avista Corporation	AVA	\$41.65	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	8.70%	20.85	3.92				
CMS Energy Corporation	CMS	\$42.95	6.40%	7.24%	6.00%	6.55%	5.32%	63.00%	62.00%	66.88%	(\$0.00)	8.93%	19.51	3.67				
DTE Energy Company	DTE	\$92.91	5.80%	5.35%	5.00%	5.38%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	8.96%	19.39	3.64				
El Paso Electric Company Entergy Corporation	ETR	\$45.30 \$77.45	6.70% NA	7.00% NA	2.50% 3.50%	5.40% 3.50%	5.32% 5.32%	59.00% 67.00%	61.00% 59.00%	66.88% 66.88%	(\$0.00) \$0.00	8.71% 10.39%	20.78 13.90	2.61				
Eversource Energy	ES	\$56.36	6.30%	5.49%	6.00%	5.93%	5.32%	60.00%	58.00%	66.88%	(\$0.00)	9.14%	18.44	3.46				
FirstEnergy Corp.	FE	\$33.34	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	10.83%	12.79	2.40				
IDACORP, Inc.	IDA	\$74.50	4.00%	4.00%	3.00%	3.67%	5.32%	53.00%	60.00%	66.88%	(\$0.00)	8.80%	20.26	3.81				
MGE Energy, Inc.	MGEE NWF	\$53.30	NA 5.00%	4.00%	7.00%	5.50% 5.50%	5.32%	56.00% 65.00%	44.00% 59.00%	66.88%	(\$0.00)	8.17%	24.70	4.64				
NorthWestern Corporation OGE Energy Corp.	OGE	\$59.68 \$30.95	5.00%	5.00% 4.30%	6.50% 3.00%	5.50% 4.17%	5.32% 5.32%	67.00%	70.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.03% 9.24%	19.00 17.98	3.57 3.38				
Otter Tail Corporation	OTTR	\$30.96	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	(\$0.00)	9.39%	17.32	3.26				
Pinnacle West Capital Corporation	PNW	\$75.82	4.00%	3.73%	4.00%	3.91%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	8.91%	19.63	3.69				
PNM Resources, Inc.	PNM	\$33.49	7.60%	8.76%	9.00%	8.45%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	9.75%	15.89	2.99				
Portland General Electric Company	POR	\$41.86	6.40%	6.57%	5.50%	6.16%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	9.15%	18.40	3.46				
SCANA Corporation	SCG	\$71.01	5.30%	5.40%	4.50%	5.07%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	9.29%	17.75	3.33				
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL	\$61.68 \$42.20	6.30% 5.30%	6.77% 5.27%	6.00% 5.50%	6.36% 5.36%	5.32% 5.32%	68.00% 62.00%	67.00% 63.00%	66.88% 66.88%	(\$0.00) (\$0.00)	8.43% 9.11%	22.69 18.62	4.26 3.50				
Acci Energy inc.	ALL	Ψ42.20	0.0070	J.21 /0	0.0070	0.0070	0.0270	02.0070	00.0070	00.0070	MEAN	9.16%	10.02	0.00				
											MAX	10.83%						
											MIN	8.17%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.54	\$3.71	\$3.89	\$4.08	\$4.28	\$4.49	\$4.71	\$4.95	\$5.21	\$5.48	\$5.77	\$6.08	\$6.41	\$6.75	\$7.11	\$7.48
Alliant Energy Corporation	LNT	\$1.69	\$1.80	\$1.91	\$2.03	\$2.15	\$2.29	\$2.43	\$2.57	\$2.72	\$2.87	\$3.03	\$3.19	\$3.36	\$3.54	\$3.73	\$3.92	\$4.13
Ameren Corporation American Electric Power Company, Inc.	AEE AEP	\$2.38 \$3.59	\$2.52 \$3.75	\$2.66 \$3.91	\$2.82 \$4.08	\$2.98 \$4.25	\$3.15 \$4.44	\$3.33 \$4.64	\$3.52 \$4.85	\$3.71 \$5.09	\$3.91 \$5.34	\$4.13 \$5.62	\$4.35 \$5.92	\$4.58 \$6.23	\$4.82 \$6.56	\$5.08 \$6.91	\$5.35 \$7.28	\$5.63 \$7.67
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.92	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.01	\$2.15	\$2.29	\$2.44	\$2.60	\$2.76	\$2.93	\$3.10	\$3.28	\$3.46	\$3.65	\$3.84	\$4.04	\$4.26	\$4.49	\$4.73
DTE Energy Company	DTE	\$4.45	\$4.69	\$4.94	\$5.21	\$5.49	\$5.78	\$6.09	\$6.42	\$6.77	\$7.13	\$7.51	\$7.91	\$8.33	\$8.77	\$9.24	\$9.73	\$10.25
El Paso Electric Company	EE	\$2.03	\$2.14	\$2.26	\$2.38	\$2.51	\$2.64	\$2.78	\$2.93	\$3.09	\$3.25	\$3.43	\$3.61	\$3.80	\$4.01	\$4.22	\$4.44	\$4.68
Entergy Corporation Eversource Energy	ETR ES	\$5.81 \$2.76	\$6.01 \$2.92	\$6.22 \$3.10	\$6.44 \$3.28	\$6.67 \$3.48	\$6.90 \$3.68	\$7.16 \$3.90	\$7.46 \$4.12	\$7.79 \$4.35	\$8.15 \$4.59	\$8.56 \$4.84	\$9.02 \$5.10	\$9.50 \$5.37	\$10.00 \$5.65	\$10.54 \$5.96	\$11.10 \$6.27	\$11.69 \$6.61
FirstEnergy Corp.	FE	\$2.70	\$2.92	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.01	\$4.16	\$4.31	\$4.47	\$4.63	\$4.82	\$5.02	\$5.24	\$5.50	\$5.77	\$6.08	\$6.40	\$6.74	\$7.10	\$7.48	\$7.88
MGE Energy, Inc.	MGEE	\$2.06	\$2.17	\$2.29	\$2.42	\$2.55	\$2.69	\$2.84	\$2.99	\$3.16	\$3.33	\$3.50	\$3.69	\$3.89	\$4.09	\$4.31	\$4.54	\$4.78
NorthWestern Corporation	NWE	\$2.90	\$3.06	\$3.23	\$3.41	\$3.59	\$3.79	\$4.00	\$4.22	\$4.44	\$4.68	\$4.93	\$5.20	\$5.47	\$5.76	\$6.07	\$6.39	\$6.73
OGE Energy Corp.	OGE OTTR	\$1.69 \$1.56	\$1.76	\$1.83	\$1.91	\$1.99	\$2.07	\$2.16	\$2.26	\$2.37	\$2.49	\$2.61	\$2.75	\$2.90 \$3.05	\$3.05	\$3.22	\$3.39 \$3.56	\$3.57
Otter Tail Corporation Pinnacle West Capital Corporation	PNW	\$3.92	\$1.65 \$4.07	\$1.75 \$4.23	\$1.86 \$4.40	\$1.97 \$4.57	\$2.09 \$4.75	\$2.21 \$4.95	\$2.34 \$5.16	\$2.47 \$5.40	\$2.61 \$5.66	\$2.75 \$5.95	\$2.90 \$6.27	\$3.05 \$6.60	\$3.21 \$6.95	\$3.38 \$7.32	\$3.50 \$7.71	\$3.75 \$8.12
PNM Resources, Inc.	PNM	\$1.64	\$1.78	\$1.93	\$2.09	\$2.27	\$2.46	\$2.66	\$2.85	\$3.05	\$3.24	\$3.43	\$3.62	\$3.81	\$4.01	\$4.22	\$4.45	\$4.69
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.30	\$2.44	\$2.59	\$2.75	\$2.92	\$3.09	\$3.26	\$3.45	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
SCANA Corporation	SCG	\$3.81	\$4.00	\$4.21	\$4.42	\$4.64	\$4.88	\$5.13	\$5.39	\$5.67	\$5.97	\$6.28	\$6.62	\$6.97	\$7.34	\$7.73	\$8.14	\$8.58
Wisconsin Energy Corporation	WEC	\$2.34	\$2.49	\$2.65	\$2.82	\$2.99	\$3.18	\$3.38	\$3.58	\$3.79	\$4.01	\$4.23	\$4.45	\$4.69	\$4.94	\$5.20	\$5.48	\$5.77
Xcel Energy Inc.	XEL	\$2.10	\$2.21	\$2.33	\$2.46	\$2.59	\$2.73	\$2.87	\$3.03	\$3.19	\$3.36	\$3.54	\$3.72	\$3.92	\$4.13	\$4.35	\$4.58	\$4.83
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company ALLETE, Inc.	Ticker ALE		2016 66.00%	2017 65.25%	2018 64.50%	2019 63.75%	2020 63.00%	2021 63.65%	2022 64.29%	2023 64.94%	2024 65.59%	2025 66.23%	2026 66.88%	2027 66.88%	2028 66.88%	2029 66.88%	2030 66.88%	2031 66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS		63.00%	62.75% 62.50%	62.50%	62.25%	62.00%	62.81% 61.98%	63.63%	64.44% 63.94%	65.25%	66.07%	66.88%	66.88% 66.88%	66.88%	66.88%	66.88% 66.88%	66.88% 66.88%
DTE Energy Company El Paso Electric Company	FF		63.00% 59.00%	59.50%	62.00% 60.00%	61.50% 60.50%	61.00% 61.00%	61.98%	62.96% 62.96%	63.94%	64.92% 64.92%	65.90% 65.90%	66.88% 66.88%	66.88%	66.88% 66.88%	66.88% 66.88%	66.88%	66.88%
Entergy Corporation	ETR		67.00%	65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA MGEE		53.00% 56.00%	54.75% 53.00%	56.50% 50.00%	58.25%	60.00% 44.00%	61.15% 47.81%	62.29%	63.44% 55.44%	64.59% 59.25%	65.73% 63.07%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88%
MGE Energy, Inc. NorthWestern Corporation	MGEE NWE		56.00% 65.00%	53.00% 63.50%	50.00% 62.00%	47.00% 60.50%	44.00% 59.00%	47.81% 60.31%	51.63% 61.63%	55.44% 62.94%	59.25% 64.25%	63.07% 65.57%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
OGE Energy Corp.	OGF		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR		80.00%	75.75%	71.50%	67.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM		51.00%	52.00%	53.00%	54.00%	55.00%	56.98%	58.96%	60.94%	62.92%	64.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation Wisconsin Energy Corporation	SCG WFC		59.00% 68.00%	59.25% 67.75%	59.50% 67.50%	59.75% 67.25%	60.00% 67.00%	61.15% 66.98%	62.29% 66.96%	63.44% 66.94%	64.59% 66.92%	65.73% 66.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
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Desirated Assessed																		, .	ago <u>-</u>
Projected Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
									,		17	,			11	,			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.34	\$2.42	\$2.51	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$125.92
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.27	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$82.00
Ameren Corporation	AEE		\$1.71	\$1.78	\$1.86	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$106.24
American Electric Power Company, Inc.	AEP		\$2.40	\$2.53	\$2.67	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$138.31
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.30
CMS Energy Corporation	CMS		\$1.27	\$1.35	\$1.43	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$92.20
DTE Energy Company	DTE		\$2.95	\$3.09	\$3.23	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$198.64
El Paso Electric Company	EE		\$1.26	\$1.34	\$1.43	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$97.26
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$162.41
Eversource Energy	ES		\$1.75	\$1.84	\$1.94	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$121.82
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$75.89
IDACORP, Inc.	IDA		\$2.13	\$2.28	\$2.44	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$159.67
MGE Energy, Inc.	MGEE		\$1.22	\$1.22	\$1.21	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$118.15
NorthWestern Corporation	NWE		\$1.99	\$2.05	\$2.11	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$127.93
OGE Energy Corp.	OGE		\$1.18	\$1.24	\$1.31	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$64.15
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$65.02
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$159.45
PNM Resources, Inc.	PNM		\$0.91	\$1.00	\$1.11	\$1.23	\$1.35	\$1.51	\$1.68	\$1.86	\$2.04	\$2.23	\$2.42	\$2.55	\$2.68	\$2.83	\$2.98	\$3.13	\$74.46
Portland General Electric Company	POR		\$1.21	\$1.29	\$1.37	\$1.45	\$1.54	\$1.69	\$1.84	\$2.01	\$2.18	\$2.37	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$91.28
SCANA Corporation	SCG		\$2.36	\$2.49	\$2.63	\$2.77	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$4.66	\$4.91	\$5.17	\$5.45	\$5.74	\$152.23
Wisconsin Energy Corporation	WEC		\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.40	\$2.54	\$2.68	\$2.83	\$2.98	\$3.14	\$3.30	\$3.48	\$3.67	\$3.86	\$130.97
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.72	\$1.83	\$1.95	\$2.07	\$2.20	\$2.34	\$2.49	\$2.62	\$2.76	\$2.91	\$3.06	\$3.23	\$89.86
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Initial Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$59.67)	\$0.00	\$1.18	\$2.40	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3,42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$130.93
Alliant Energy Corporation	LNT	(\$38.20)	\$0.00	\$0.58	\$1.18	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$84.76
Ameren Corporation	AEE	(\$50.12)	\$0.00	\$0.86	\$1.76	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$110.01
American Electric Power Company, Inc.	AEP	(\$66.05)	\$0.00	\$1.21	\$2.45	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$143.44
Avista Corporation	AVA	(\$41.65)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$91.13
CMS Energy Corporation	CMS	(\$42.95)	\$0.00	\$0.64	\$1.31	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$95.36
DTE Energy Company	DTE	(\$92.91)	\$0.00	\$1.49	\$3.03	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$205.49
El Paso Electric Company	EE	(\$45.30)	\$0.00	\$0.64	\$1.30	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$100.39
Entergy Corporation	ETR	(\$77.45)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$170.22
Eversource Energy	ES	(\$56.36)	\$0.00	\$0.88	\$1.81	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$126.24
FirstEnergy Corp.	FE	(\$33.34)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$79.86
IDACORP, Inc.	IDA	(\$74.50)	\$0.00	\$1.07	\$2.17	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$164.94
MGE Energy, Inc.	MGEE	(\$53.30)	\$0.00	\$0.61	\$1.25	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$121.34
NorthWestern Corporation	NWE	(\$59.68)	\$0.00	\$1.00	\$2.04	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$132.44
OGE Energy Corp.	OGE	(\$30.95)	\$0.00	\$0.59	\$1.20	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$66.54
Otter Tail Corporation	OTTR	(\$30.95)	\$0.00	\$0.59	\$1.36	\$1.30	\$1.45	\$1.41	\$1.50	\$1.60	\$1.09	\$1.76	\$1.04	\$2.04	\$2.04	\$2.15	\$2.38	\$2.59	\$67.53
Pinnacle West Capital Corporation	PNW	(\$75.82)	\$0.00	\$1.31	\$2.66	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$164.88
PNM Resources, Inc.	PNW	(\$33.49)	\$0.00	\$0.46	\$2.00 \$0.95	\$2.96	\$3.09 \$1.35	\$3.23 \$1.51	\$3.39 \$1.68	\$3.56 \$1.86	\$3.75	\$2.23	\$4.19	\$4.41	\$4.65	\$4.90	\$2.98	\$5.43 \$3.13	\$77.60
Portland General Electric Company	POR	(\$33.49)	\$0.00	\$0.46	\$0.95 \$1.25	\$1.23 \$1.45	\$1.55 \$1.54	\$1.51 \$1.69	\$1.84	\$2.01	\$2.04	\$2.23	\$2.42	\$2.55	\$2.84	\$2.83 \$2.99	\$2.98	\$3.32	\$94.60
SCANA Corporation	SCG	(\$41.86)	\$0.00	\$1.19	\$1.25	\$1.45	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$2.70 \$4.66	\$2.84 \$4.91	\$2.99 \$5.17	\$5.45	\$5.74	\$94.60 \$157.97
Wisconsin Energy Corporation	WEC	(\$61.68)	\$0.00	\$0.85	\$2.42 \$1.75	\$2.77	\$2.93 \$2.13	\$2.26	\$3.36	\$2.54	\$2.68	\$2.83	\$4.43 \$2.98	\$3.14	\$3.30	\$3.48	\$3.45 \$3.67	\$3.86	\$134.83
	XEL	(\$42.20)	\$0.00	\$0.85	\$1.75 \$1.41	\$2.01	\$2.13 \$1.72	\$2.20 \$1.83	\$2.40 \$1.95	\$2.54 \$2.07	\$2.08	\$2.83	\$2.98	\$3.14 \$2.62	\$3.30	\$3.48 \$2.91	\$3.07 \$3.06	\$3.23	\$134.83
Xcel Energy Inc.	ΛEL	(42.20)	φυ.υυ	φυ.υ <del>υ</del>	φ1. <del>4</del> 1	φ1.0∠	φ1./2	φ1.00	φ1.90	φ2.U1	<b>Φ</b> Ζ.ΖU	<b>⊅∠.</b> J4	<b>⊅∠.49</b>	φ <b>2.</b> 02	φ2.70	<b>⊅</b> ∠.∀ I	φ3.00	<b>Φ</b> 3. <b>∠</b> 3	<b>Φ93.0</b> 6

# Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2]	[3] S Growth F	[4]	[5]	[6] Long-Term	[7]	[8] Payout Rati	[9]	[10]	[11] Solution	[12] Terminal	[13] Terminal				
									•		iterative		reminal	reminal				
Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE	\$57.08	5.50%	5.00%	4.00%	4.83%	5.32%	66.00%	63.00%	66.88%	(\$0.00)	9.70%	16.08	3.02				
Alliant Energy Corporation	LNT AEE	\$36.64 \$48.90	6.10% 6.10%	6.60% 5.20%	6.00% 6.00%	6.23% 5.77%	5.32% 5.32%	64.00% 68.00%	61.00% 64.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.03% 9.15%	19.01 18.39	3.57 3.46				
Ameren Corporation American Electric Power Company, Inc.	AEP	\$65.03	4.90%	4.10%	4.00%	4.33%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.15%	17.75	3.34				
Avista Corporation	AVA	\$40.48	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	8.80%	20.25	3.80				
CMS Energy Corporation	CMS	\$41.70	6.40%	7.24%	6.00%	6.55%	5.32%	63.00%	62.00%	66.88%	(\$0.00)	9.04%	18.94	3.56				
DTE Energy Company	DTE	\$89.93	5.80%	5.35%	5.00%	5.38%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.08%	18.75	3.52				
El Paso Electric Company	EE	\$44.56	6.70%	7.00%	2.50%	5.40%	5.32%	59.00%	61.00%	66.88%	(\$0.00)	8.77%	20.44	3.84				
Entergy Corporation	ETR ES	\$76.55 \$56.58	NA 6.30%	NA 5.49%	3.50% 6.00%	3.50% 5.93%	5.32% 5.32%	67.00% 60.00%	59.00% 58.00%	66.88% 66.88%	(\$0.00)	10.45% 9.13%	13.73 18.51	2.58 3.48				
Eversource Energy FirstEnergy Corp.	FE	\$34.24	0.30 % NA	0.49% NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	(\$0.00) \$0.00	10.69%	13.12	2.46				
IDACORP. Inc.	IDA	\$73.58	4.00%	4.00%	3.00%	3.67%	5.32%	53.00%	60.00%	66.88%	(\$0.00)	8.84%	20.01	3.76				
MGE Energy, Inc.	MGEE	\$51.38	NA	4.00%	7.00%	5.50%	5.32%	56.00%	44.00%	66.88%	(\$0.00)	8.28%	23.83	4.48				
NorthWestern Corporation	NWE	\$59.59	5.00%	5.00%	6.50%	5.50%	5.32%	65.00%	59.00%	66.88%	(\$0.00)	9.04%	18.97	3.56				
OGE Energy Corp.	OGE	\$29.13	5.20%	4.30%	3.00%	4.17%	5.32%	67.00%	70.00%	66.88%	(\$0.00)	9.49%	16.88	3.17				
Otter Tail Corporation	OTTR PNW	\$29.44 \$73.65	NA 4.00%	6.00% 3.73%	6.00% 4.00%	6.00% 3.91%	5.32% 5.32%	80.00% 64.00%	63.00% 65.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.61% 9.02%	16.45 19.05	3.09 3.58				
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW	\$32.94	7.60%	3.73% 8.76%	9.00%	8.45%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	9.02%	15.64	2.94				
Portland General Electric Company	POR	\$40.24	6.40%	6.57%	5.50%	6.16%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	9.31%	17.68	3.32				
SCANA Corporation	SCG	\$69.22	5.30%	5.40%	4.50%	5.07%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	9.40%	17.29	3.25				
Wisconsin Energy Corporation	WEC	\$59.53	6.30%	6.77%	6.00%	6.36%	5.32%	68.00%	67.00%	66.88%	(\$0.00)	8.54%	21.88	4.11				
Xcel Energy Inc.	XEL	\$41.15	5.30%	5.27%	5.50%	5.36%	5.32%	62.00%	63.00%	66.88%	(\$0.00)	9.20%	18.15	3.41				
											MEAN	9.26%						
											MAX MIN	10.69% 8.28%						
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Lattings per Strate		[14]	[10]	[10]	[17]	[IO]	[13]	[20]	[21]	[22]	[23]	[24]	[23]	[20]	[27]	[20]	[23]	[50]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.54	\$3.71	\$3.89	\$4.08	\$4.28	\$4.49	\$4.71	\$4.95	\$5.21	\$5.48	\$5.77	\$6.08	\$6.41	\$6.75	\$7.11	\$7.48
Alliant Energy Corporation  Ameren Corporation	LNT AEE	\$1.69 \$2.38	\$1.80 \$2.52	\$1.91 \$2.66	\$2.03 \$2.82	\$2.15 \$2.98	\$2.29 \$3.15	\$2.43 \$3.33	\$2.57 \$3.52	\$2.72 \$3.71	\$2.87 \$3.91	\$3.03 \$4.13	\$3.19 \$4.35	\$3.36 \$4.58	\$3.54 \$4.82	\$3.73 \$5.08	\$3.92 \$5.35	\$4.13 \$5.63
American Electric Power Company, Inc.	AEP	\$3.59	\$3.75	\$3.91	\$4.08	\$4.25	\$4.44	\$4.64	\$4.85	\$5.09	\$5.34	\$5.62	\$5.92	\$6.23	\$6.56	\$6.91	\$7.28	\$7.67
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.01	\$2.15	\$2.29	\$2.44	\$2.60	\$2.76	\$2.93	\$3.10	\$3.28	\$3.46	\$3.65	\$3.84	\$4.04	\$4.26	\$4.49	\$4.73
DTE Energy Company	DTE	\$4.45	\$4.69	\$4.94	\$5.21	\$5.49	\$5.78	\$6.09	\$6.42	\$6.77	\$7.13	\$7.51	\$7.91	\$8.33	\$8.77	\$9.24	\$9.73	\$10.25
El Paso Electric Company	EE	\$2.03	\$2.14	\$2.26	\$2.38	\$2.51	\$2.64	\$2.78	\$2.93	\$3.09	\$3.25	\$3.43	\$3.61	\$3.80	\$4.01	\$4.22	\$4.44	\$4.68
Entergy Corporation	ETR ES	\$5.81 \$2.76	\$6.01 \$2.92	\$6.22 \$3.10	\$6.44 \$3.28	\$6.67 \$3.48	\$6.90 \$3.68	\$7.16 \$3.90	\$7.46 \$4.12	\$7.79 \$4.35	\$8.15 \$4.59	\$8.56 \$4.84	\$9.02 \$5.10	\$9.50 \$5.37	\$10.00 \$5.65	\$10.54 \$5.96	\$11.10 \$6.27	\$11.69 \$6.61
Eversource Energy FirstEnergy Corp.	FE	\$2.70	\$2.92	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.01	\$4.16	\$4.31	\$4.47	\$4.63	\$4.82	\$5.02	\$5.24	\$5.50	\$5.77	\$6.08	\$6.40	\$6.74	\$7.10	\$7.48	\$7.88
MGE Energy, Inc.	MGEE	\$2.06	\$2.17	\$2.29	\$2.42	\$2.55	\$2.69	\$2.84	\$2.99	\$3.16	\$3.33	\$3.50	\$3.69	\$3.89	\$4.09	\$4.31	\$4.54	\$4.78
NorthWestern Corporation	NWE	\$2.90	\$3.06	\$3.23	\$3.41	\$3.59	\$3.79	\$4.00	\$4.22	\$4.44	\$4.68	\$4.93	\$5.20	\$5.47	\$5.76	\$6.07	\$6.39	\$6.73
OGE Energy Corp.	OGE	\$1.69	\$1.76	\$1.83	\$1.91	\$1.99	\$2.07	\$2.16	\$2.26	\$2.37	\$2.49	\$2.61	\$2.75	\$2.90	\$3.05	\$3.22	\$3.39	\$3.57
Otter Tail Corporation	OTTR PNW	\$1.56 \$3.92	\$1.65 \$4.07	\$1.75 \$4.23	\$1.86 \$4.40	\$1.97 \$4.57	\$2.09 \$4.75	\$2.21 \$4.95	\$2.34 \$5.16	\$2.47 \$5.40	\$2.61 \$5.66	\$2.75 \$5.95	\$2.90 \$6.27	\$3.05 \$6.60	\$3.21 \$6.95	\$3.38 \$7.32	\$3.56 \$7.71	\$3.75 \$8.12
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW	\$3.92 \$1.64	\$4.07	\$4.23 \$1.93	\$4.40	\$4.57 \$2.27	\$4.75 \$2.46	\$4.95 \$2.66	\$2.85	\$3.40 \$3.05	\$3.24	\$3.43	\$3.62	\$3.81	\$6.95 \$4.01	\$4.22	\$4.45	\$8.12 \$4.69
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.30	\$2.44	\$2.59	\$2.75	\$2.00	\$3.09	\$3.26	\$3.45	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
SCANA Corporation	SCG	\$3.81	\$4.00	\$4.21	\$4.42	\$4.64	\$4.88	\$5.13	\$5.39	\$5.67	\$5.97	\$6.28	\$6.62	\$6.97	\$7.34	\$7.73	\$8.14	\$8.58
Wisconsin Energy Corporation	WEC	\$2.34	\$2.49	\$2.65	\$2.82	\$2.99	\$3.18	\$3.38	\$3.58	\$3.79	\$4.01	\$4.23	\$4.45	\$4.69	\$4.94	\$5.20	\$5.48	\$5.77
Xcel Energy Inc.	XEL	\$2.10	\$2.21	\$2.33	\$2.46	\$2.59	\$2.73	\$2.87	\$3.03	\$3.19	\$3.36	\$3.54	\$3.72	\$3.92	\$4.13	\$4.35	\$4.58	\$4.83
Projected Annual																		***
Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP AVA		64.00%	64.75% 66.75%	65.50% 65.50%	66.25% 64.25%	67.00% 63.00%	66.98% 63.65%	66.96% 64.29%	66.94% 64.94%	66.92% 65.59%	66.90% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Avista Corporation CMS Energy Corporation	CMS		68.00% 63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.25%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company	DTF		63.00%	62.50%	62.00%	61.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	EE		59.00%	59.50%	60.00%	60.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Entergy Corporation	ETR		67.00%	65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc. NorthWestern Corporation	MGEE NWE		56.00% 65.00%	53.00% 63.50%	50.00% 62.00%	47.00% 60.50%	44.00% 59.00%	47.81% 60.31%	51.63% 61.63%	55.44% 62.94%	59.25% 64.25%	63.07% 65.57%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
OGE Energy Corp.	OGF		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR		80.00%	75.75%	71.50%	67.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM		51.00%	52.00%	53.00%	54.00%	55.00%	56.98%	58.96%	60.94%	62.92%	64.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL		68.00% 62.00%	67.75% 62.25%	67.50% 62.50%	67.25% 62.75%	67.00% 63.00%	66.98% 63.65%	66.96% 64.29%	66.94% 64.94%	66.92% 65.59%	66.90% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
AGGI ETICITY IIIG.	ΛĽL		04.00%	02.2070	UZ.JU70	02.1370	00.00%	00.00%	04.2970	U+.3470	00.0970	00.2370	00.0070	00.0076	00.0070	00.0070	00.00%	00.0070

Projected Annual																			
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
_																			Termina
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.34	\$2.42	\$2.51	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$120.32
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.27	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$78.59
Ameren Corporation	AEE		\$1.71	\$1.78	\$1.86	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$103.59
American Electric Power Company, Inc.	AEP		\$2.40	\$2.53	\$2.67	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$136.12
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$85.75
CMS Energy Corporation	CMS		\$1.27	\$1.35	\$1.43	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$89.48
DTE Energy Company	DTE		\$2.95	\$3.09	\$3.23	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$192.17
El Paso Electric Company	EE		\$1.26	\$1.34	\$1.43	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$95.66
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$160.45
Eversource Energy	ES		\$1.75	\$1.84	\$1.94	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$122.31
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$77.84
IDACORP, Inc.	IDA		\$2.13	\$2.28	\$2.44	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$157.69
MGE Energy, Inc.	MGEE		\$1.22	\$1.22	\$1.21	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$113.96
NorthWestern Corporation	NWE		\$1.99	\$2.05	\$2.11	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$127.73
OGE Energy Corp.	OGE		\$1.18	\$1.24	\$1.31	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$60.22
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$61.72
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$154.76
PNM Resources, Inc.	PNM		\$0.91	\$1.00	\$1.11	\$1.23	\$1.35	\$1.51	\$1.68	\$1.86	\$2.04	\$2.23	\$2.42	\$2.55	\$2.68	\$2.83	\$2.98	\$3.13	\$73.27
Portland General Electric Company	POR		\$1.21	\$1.29	\$1.37	\$1.45	\$1.54	\$1.69	\$1.84	\$2.01	\$2.18	\$2.37	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$87.75
SCANA Corporation	SCG		\$2.36	\$2.49	\$2.63	\$2.77	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$4.66	\$4.91	\$5.17	\$5.45	\$5.74	\$148.34
Wisconsin Energy Corporation	WEC		\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.40	\$2.54	\$2.68	\$2.83	\$2.98	\$3.14	\$3.30	\$3.48	\$3.67	\$3.86	\$126.29
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.72	\$1.83	\$1.95	\$2.07	\$2.20	\$2.34	\$2.49	\$2.62	\$2.76	\$2.91	\$3.06	\$3.23	\$87.58
Investor Cash Flows		[64] Initial	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$57.08)																	
Alliant Energy Corporation		(\$57.06)	\$0.00	\$1.18	\$2.40	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$125.33
	LNT	(\$36.64)	\$0.00 \$0.00	\$1.18 \$0.58	\$2.40 \$1.18	\$2.60 \$1.33	\$2.70 \$1.39	\$2.86 \$1.50	\$3.03 \$1.62	\$3.22 \$1.74	\$3.42 \$1.86	\$3.63 \$2.00	\$3.86 \$2.13	\$4.07 \$2.25	\$4.28 \$2.37	\$4.51 \$2.49	\$4.75 \$2.62	\$5.00 \$2.76	\$125.33 \$81.36
Ameren Corporation																			
	LNT	(\$36.64)	\$0.00	\$0.58	\$1.18	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$81.36
American Electric Power Company, Inc.	LNT AEE	(\$36.64) (\$48.90)	\$0.00 \$0.00	\$0.58 \$0.86	\$1.18 \$1.76	\$1.33 \$1.94	\$1.39 \$2.02	\$1.50 \$2.15	\$1.62 \$2.28	\$1.74 \$2.43	\$1.86 \$2.58	\$2.00 \$2.74	\$2.13 \$2.91	\$2.25 \$3.06	\$2.37 \$3.22	\$2.49 \$3.40	\$2.62 \$3.58	\$2.76 \$3.77	\$81.36 \$107.35
American Electric Power Company, Inc. Avista Corporation	LNT AEE AEP	(\$36.64) (\$48.90) (\$65.03)	\$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21	\$1.18 \$1.76 \$2.45	\$1.33 \$1.94 \$2.82	\$1.39 \$2.02 \$2.97	\$1.50 \$2.15 \$3.11	\$1.62 \$2.28 \$3.25	\$1.74 \$2.43 \$3.41	\$1.86 \$2.58 \$3.58	\$2.00 \$2.74 \$3.76	\$2.13 \$2.91 \$3.96	\$2.25 \$3.06 \$4.17	\$2.37 \$3.22 \$4.39	\$2.49 \$3.40 \$4.62	\$2.62 \$3.58 \$4.87	\$2.76 \$3.77 \$5.13	\$81.36 \$107.35 \$141.25
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	LNT AEE AEP AVA	(\$36.64) (\$48.90) (\$65.03) (\$40.48)	\$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68	\$1.18 \$1.76 \$2.45 \$1.38	\$1.33 \$1.94 \$2.82 \$1.48	\$1.39 \$2.02 \$2.97 \$1.52	\$1.50 \$2.15 \$3.11 \$1.61	\$1.62 \$2.28 \$3.25 \$1.71	\$1.74 \$2.43 \$3.41 \$1.82	\$1.86 \$2.58 \$3.58 \$1.93	\$2.00 \$2.74 \$3.76 \$2.05	\$2.13 \$2.91 \$3.96 \$2.19	\$2.25 \$3.06 \$4.17 \$2.30	\$2.37 \$3.22 \$4.39 \$2.42	\$2.49 \$3.40 \$4.62 \$2.55	\$2.62 \$3.58 \$4.87 \$2.69	\$2.76 \$3.77 \$5.13 \$2.83	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	LNT AEE AEP AVA CMS	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16	\$81.36 \$107.35 \$141.25 \$88.58
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	LNT AEE AEP AVA CMS DTE EE	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	LNT AEE AEP AVA CMS DTE	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy	LNT AEE AEP AVA CMS DTE EE ETR	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	LNT AEE AEP AVA CMS DTE EE ETR ES FE	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$126.72 \$81.81
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	LNT AEE AEP AVA CMS DTE EE ETR ES	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$126.72 \$81.81
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Passe Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$126.72 \$81.81 \$162.96 \$117.16
American Electric Power Company, Inc. Avista Corporation Avista Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38) (\$59.59)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$81.81 \$162.96 \$117.16 \$132.23
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38) (\$59.59) (\$29.13)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59	\$1.18 \$1.76 \$2.45 \$1.38 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.20	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.82 \$4.06 \$2.15	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$12.75 \$1.71 \$132.23 \$62.60
American Electric Power Company, Inc. Avvista Corporation CMS Energy Corporation DTE Energy Company El Pass Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$56.58) (\$51.38) (\$51.38) (\$59.59) (\$29.13)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.17 \$1.25 \$2.17 \$1.25	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.50	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.60	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.55 \$1.97	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$1.84 \$1.94	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.05 \$98.79 \$168.27 \$1126.72 \$81.81 \$117.16 \$132.25 \$62.60 \$64.23
American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38) (\$59.59) (\$29.13) (\$29.44) (\$73.65)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.26 \$1.36 \$2.66	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$2.96	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.09	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.50 \$3.39	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.60 \$3.56	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.94 \$4.19	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.74 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26 \$4.90	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.43	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.25 \$98.79 \$168.27 \$81.81 \$162.96 \$117.16 \$132.23 \$62.60 \$64.23 \$160.15
American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Pass Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle Corp.	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$573.58) (\$51.38) (\$59.59) (\$29.44) (\$73.65) (\$73.65) (\$73.65) (\$73.65)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.65 \$1.31 \$0.46	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.20 \$1.36 \$2.66 \$0.95	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$2.96 \$1.23	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.09 \$1.35	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.56 \$1.50 \$3.39 \$1.68	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.62 \$3.56 \$3.56 \$1.86	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94 \$4.19 \$2.42	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.85 \$4.06 \$2.15 \$2.26 \$4.90 \$2.83	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.43 \$3.13	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$12.25 \$117.16 \$132.23 \$62.60 \$64.23 \$160.15 \$76.40
American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Portland General Electric Company	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.24) (\$73.25) (\$29.13) (\$29.44) (\$73.65) (\$32.94)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.46 \$0.61	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.20 \$1.36 \$2.66 \$0.95 \$1.25	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$2.96 \$1.23 \$1.32 \$3.33 \$1.45	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$1.18 \$2.28 \$1.18 \$2.28 \$1.32 \$3.09 \$1.35 \$1.35 \$1.35	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.50 \$3.39 \$1.68 \$1.84	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.60 \$3.56 \$1.86	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$2.77 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23 \$2.23 \$3.23	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94 \$4.19 \$2.42 \$2.56	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.59 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55 \$2.70	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26 \$4.90 \$2.83 \$2.99	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.70 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98 \$3.15	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$4.50 \$2.39 \$2.51 \$5.43 \$3.13 \$3.31 \$3.31 \$3.32	\$81.36 \$107.3 \$141.2 \$88.58 \$92.64 \$199.0 \$98.79 \$168.2 \$126.77 \$81.81 \$162.9 \$132.2 \$62.60 \$64.23 \$76.40 \$91.07
American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM PNM PNM PSCG	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$51.38) (\$51.38) (\$59.59) (\$29.44) (\$73.65) (\$32.94) (\$40.24) (\$69.22)	\$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.86 \$0.60 \$1.07 \$0.60 \$1.00 \$0.59 \$0.59 \$0.59 \$0.67 \$1.31 \$0.46 \$0.61	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.26 \$1.36 \$2.66 \$0.95 \$1.25 \$2.42	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.38 \$1.32 \$2.96 \$1.23 \$1.45 \$2.77	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.09 \$1.35 \$1.35 \$1.35	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$1.50 \$1.51 \$3.23 \$1.51 \$3.23	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.50 \$3.39 \$1.68 \$1.84 \$3.36	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.62 \$3.56 \$1.86 \$2.01 \$3.60	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04 \$2.18	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23 \$2.37 \$4.13	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.94 \$4.19 \$2.42 \$2.56 \$4.43	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55 \$2.70 \$4.66	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68 \$2.84 \$4.91	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26 \$4.90 \$2.83 \$2.83 \$2.83 \$2.83	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98 \$3.15 \$5.45	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.43 \$3.13 \$3.32	\$81.36 \$107.35 \$141.25 \$88.58 \$92.64 \$199.02 \$98.79 \$168.27 \$81.81 \$162.96 \$132.23 \$62.60 \$64.23 \$160.15 \$76.40 \$91.07 \$154.07
American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Portland General Electric Company	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	(\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.24) (\$73.25) (\$29.13) (\$29.44) (\$73.65) (\$32.94)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.46 \$0.61	\$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.20 \$1.36 \$2.66 \$0.95 \$1.25	\$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$2.96 \$1.23 \$1.32 \$3.33 \$1.45	\$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$1.18 \$2.28 \$1.18 \$2.28 \$1.32 \$3.09 \$1.35 \$1.35 \$1.35	\$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69	\$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.50 \$3.39 \$1.68 \$1.84	\$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.60 \$3.56 \$1.86	\$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04	\$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$2.77 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23 \$2.23 \$3.23	\$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94 \$4.19 \$2.42 \$2.56	\$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.59 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55 \$2.70	\$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68	\$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26 \$4.90 \$2.83 \$2.99	\$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.70 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98 \$3.15	\$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$4.50 \$2.39 \$2.51 \$5.43 \$3.13 \$3.31 \$3.31 \$3.32	\$81.36 \$107.3 \$141.2 \$88.58 \$92.64 \$199.0 \$98.79 \$168.2 \$126.77 \$81.81 \$162.9 \$132.2 \$62.60 \$64.23 \$76.40 \$91.07

### Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EF	S Growth F	Rate Estima	ites	Long-Term	1	Payout Rati	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE I NT	\$54.07 \$33.83	5.50%	5.00% 6.60%	4.00% 6.00%	4.83%	5.32% 5.32%	66.00% 64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00)	9.95% 9.34%	15.21 17.54	2.86 3.30				
Alliant Energy Corporation  Ameren Corporation	AEE	\$33.83 \$46.40	6.10% 6.10%	5.20%	6.00%	6.23% 5.77%	5.32%	68.00%	64.00%	66.88%	(\$0.00) (\$0.00)	9.34%	17.54	3.28				
American Electric Power Company, Inc.	AEP	\$61.54	4.90%	4.10%	4.00%	4.33%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.52%	16.76	3.15				
Avista Corporation	AVA	\$37.83	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	9.05%	18.89	3.55				
CMS Energy Corporation	CMS	\$39.10	6.40%	7.24%	6.00%	6.55%	5.32%	63.00%	62.00%	66.88%	(\$0.00)	9.29%	17.74	3.33				
DTE Energy Company	DTE	\$85.80	5.80%	5.35%	5.00%	5.38%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.26%	17.88	3.36				
El Paso Electric Company Entergy Corporation	ETR	\$41.72 \$72.44	6.70% NA	7.00% NA	2.50% 3.50%	5.40% 3.50%	5.32% 5.32%	59.00% 67.00%	61.00% 59.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.01% 10.75%	19.12 12.97	3.59 2.44				
Eversource Energy	ES	\$54.15	6.30%	5.49%	6.00%	5.93%	5.32%	60.00%	58.00%	66.88%	(\$0.00)	9.30%	17.71	3.33				
FirstEnergy Corp.	FE	\$33.04	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	(\$0.00)	10.88%	12.67	2.38				
IDACORP, Inc.	IDA	\$70.82	4.00%	4.00%	3.00%	3.67%	5.32%	53.00%	60.00%	66.88%	(\$0.00)	8.98%	19.25	3.62				
MGE Energy, Inc.	MGEE NWF	\$48.29	NA 5.00%	4.00%	7.00%	5.50% 5.50%	5.32%	56.00% 65.00%	44.00% 59.00%	66.88%	(\$0.00)	8.46% 9.19%	22.42	4.21				
NorthWestern Corporation OGE Energy Corp.	OGE	\$57.21 \$27.72	5.20%	5.00% 4.30%	6.50% 3.00%	4.17%	5.32% 5.32%	67.00%	70.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.19%	18.20 16.03	3.42 3.01				
Otter Tail Corporation	OTTR	\$28.18	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	(\$0.00)	9.80%	15.72	2.95				
Pinnacle West Capital Corporation	PNW	\$69.12	4.00%	3.73%	4.00%	3.91%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	9.27%	17.84	3.35				
PNM Resources, Inc.	PNM	\$31.32	7.60%	8.76%	9.00%	8.45%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	10.05%	14.88	2.80				
Portland General Electric Company	POR	\$38.74	6.40%	6.57%	5.50%	6.16%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	9.46%	17.03	3.20				
SCANA Corporation Wisconsin Energy Corporation	SCG WEC	\$64.86 \$55.89	5.30% 6.30%	5.40% 6.77%	4.50% 6.00%	5.07% 6.36%	5.32% 5.32%	59.00% 68.00%	60.00% 67.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.67% 8.76%	16.19 20.51	3.04 3.85				
Xcel Energy Inc.	XEL	\$38.85	5.30%	5.27%	5.50%	5.36%	5.32%	62.00%	63.00%	66.88%	(\$0.00)	9.44%	17.12	3.22				
Accel Energy inc.	ALL	ψ00.00	0.0070	0.2170	0.0070	0.0070	0.0270	02.0070	00.0070	00.0070	MEAN	9.48%	17.12	U.LL				
											MAX	10.88%						
											MIN	8.46%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$3.38 \$1.69	\$3.54 \$1.80	\$3.71 \$1.91	\$3.89 \$2.03	\$4.08 \$2.15	\$4.28 \$2.29	\$4.49 \$2.43	\$4.71 \$2.57	\$4.95 \$2.72	\$5.21 \$2.87	\$5.48 \$3.03	\$5.77 \$3.19	\$6.08 \$3.36	\$6.41 \$3.54	\$6.75 \$3.73	\$7.11 \$3.92	\$7.48 \$4.13
Ameren Corporation	AEE	\$2.38	\$2.52	\$2.66	\$2.82	\$2.15	\$3.15	\$3.33	\$3.52	\$3.71	\$3.91	\$4.13	\$4.35	\$4.58	\$4.82	\$5.73 \$5.08	\$5.35	\$5.63
American Electric Power Company, Inc.	AEP	\$3.59	\$3.75	\$3.91	\$4.08	\$4.25	\$4.44	\$4.64	\$4.85	\$5.09	\$5.34	\$5.62	\$5.92	\$6.23	\$6.56	\$6.91	\$7.28	\$7.67
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.01	\$2.15	\$2.29	\$2.44	\$2.60	\$2.76	\$2.93	\$3.10	\$3.28	\$3.46	\$3.65	\$3.84	\$4.04	\$4.26	\$4.49	\$4.73
DTE Energy Company El Paso Electric Company	DTE EE	\$4.45 \$2.03	\$4.69 \$2.14	\$4.94 \$2.26	\$5.21 \$2.38	\$5.49 \$2.51	\$5.78 \$2.64	\$6.09 \$2.78	\$6.42 \$2.93	\$6.77 \$3.09	\$7.13 \$3.25	\$7.51 \$3.43	\$7.91 \$3.61	\$8.33 \$3.80	\$8.77 \$4.01	\$9.24 \$4.22	\$9.73 \$4.44	\$10.25 \$4.68
Entergy Corporation	ETR	\$5.81	\$6.01	\$6.22	\$6.44	\$6.67	\$6.90	\$7.16	\$7.46	\$7.79	\$8.15	\$8.56	\$9.02	\$9.50	\$10.00	\$10.54	\$11.10	\$4.00 \$11.69
Eversource Energy	ES	\$2.76	\$2.92	\$3.10	\$3.28	\$3.48	\$3.68	\$3.90	\$4.12	\$4.35	\$4.59	\$4.84	\$5.10	\$5.37	\$5.65	\$5.96	\$6.27	\$6.61
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.01	\$4.16	\$4.31	\$4.47	\$4.63	\$4.82	\$5.02	\$5.24	\$5.50	\$5.77	\$6.08	\$6.40	\$6.74	\$7.10	\$7.48	\$7.88
MGE Energy, Inc. NorthWestern Corporation	MGEE NWE	\$2.06 \$2.90	\$2.17 \$3.06	\$2.29 \$3.23	\$2.42 \$3.41	\$2.55 \$3.59	\$2.69 \$3.79	\$2.84 \$4.00	\$2.99 \$4.22	\$3.16 \$4.44	\$3.33 \$4.68	\$3.50 \$4.93	\$3.69 \$5.20	\$3.89 \$5.47	\$4.09 \$5.76	\$4.31 \$6.07	\$4.54 \$6.39	\$4.78 \$6.73
OGE Energy Corp.	OGE	\$1.69	\$1.76	\$1.83	\$1.91	\$1.99	\$2.07	\$2.16	\$2.26	\$2.37	\$2.49	\$2.61	\$2.75	\$2.90	\$3.76	\$3.22	\$3.39	\$3.57
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$4.23	\$4.40	\$4.57	\$4.75	\$4.95	\$5.16	\$5.40	\$5.66	\$5.95	\$6.27	\$6.60	\$6.95	\$7.32	\$7.71	\$8.12
PNM Resources, Inc.	PNM	\$1.64	\$1.78	\$1.93	\$2.09	\$2.27	\$2.46	\$2.66	\$2.85	\$3.05	\$3.24	\$3.43	\$3.62	\$3.81	\$4.01	\$4.22	\$4.45	\$4.69
Portland General Electric Company	POR SCG	\$2.04	\$2.17 \$4.00	\$2.30	\$2.44 \$4.42	\$2.59 \$4.64	\$2.75	\$2.92	\$3.09 \$5.39	\$3.26	\$3.45	\$3.64	\$3.83	\$4.03 \$6.97	\$4.25	\$4.47	\$4.71	\$4.96 \$8.58
SCANA Corporation Wisconsin Energy Corporation	WEC	\$3.81 \$2.34	\$4.00	\$4.21 \$2.65	\$4.42 \$2.82	\$4.64 \$2.99	\$4.88 \$3.18	\$5.13 \$3.38	\$5.39 \$3.58	\$5.67 \$3.79	\$5.97 \$4.01	\$6.28 \$4.23	\$6.62 \$4.45	\$6.97 \$4.69	\$7.34 \$4.94	\$7.73 \$5.20	\$8.14 \$5.48	\$8.58 \$5.77
Xcel Energy Inc.	XEL	\$2.10	\$2.43	\$2.33	\$2.46	\$2.59	\$2.73	\$2.87	\$3.03	\$3.19	\$3.36	\$3.54	\$3.72	\$3.92	\$4.13	\$4.35	\$4.58	\$4.83
Projected Annual																		
Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT AEE		64.00% 68.00%	63.25% 67.00%	62.50% 66.00%	61.75% 65.00%	61.00%	61.98% 64.48%	62.96% 64.96%	63.94% 65.44%	64.92% 65.92%	65.90% 66.40%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	64.00% 67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.25%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company	DTE		63.00%	62.50%	62.00%	61.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	EE FTR		59.00%	59.50% 65.00%	60.00% 63.00%	60.50%	61.00% 59.00%	61.98% 60.31%	62.96% 61.63%	63.94% 62.94%	64.92% 64.25%	65.90%	66.88%	66.88% 66.88%	66.88%	66.88% 66.88%	66.88% 66.88%	66.88%
Entergy Corporation Eversource Energy	ES		67.00% 60.00%	59.50%	59.00%	61.00% 58.50%	59.00% 58.00%	59.48%	60.96%	62.44%	63.92%	65.57% 65.40%	66.88% 66.88%	66.88%	66.88% 66.88%	66.88%	66.88%	66.88% 66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp. Otter Tail Corporation	OGE OTTR		67.00% 80.00%	67.75% 75.75%	68.50% 71.50%	69.25% 67.25%	70.00% 63.00%	69.48% 63.65%	68.96% 64.29%	68.44% 64.94%	67.92% 65.59%	67.40% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM		51.00%	52.00%	53.00%	54.00%	55.00%	56.98%	58.96%	60.94%	62.92%	64.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL		68.00% 62.00%	67.75% 62.25%	67.50% 62.50%	67.25% 62.75%	67.00% 63.00%	66.98% 63.65%	66.96% 64.29%	66.94% 64.94%	66.92% 65.59%	66.90% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
AGG ETICITY IIIG.	ΛĒL		02.0070	04.2070	UZ.JU70	02.1370	00.0076	00.0076	04.2970	U+.3470	00.0970	00.2370	00.0070	00.00%	00.00%	00.0070	00.00%	00.0070

Projected Appual																		, .	ugo o
Projected Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
			[]	()	[1-0]	()	[0.7	[1	()	()	[]	[]	[4-7	[]	[]	[]	[7	()	Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.34	\$2.42	\$2.51	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$113.80
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.27	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$72.50
Ameren Corporation	AEE		\$1.71	\$1.78	\$1.86	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$98.17
American Electric Power Company, Inc.	AEP		\$2.40	\$2.53	\$2.67	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$128.55
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$80.01
CMS Energy Corporation	CMS		\$1.27	\$1.35	\$1.43	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$83.85
DTE Energy Company	DTE		\$2.95	\$3.09	\$3.23	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$183.20
El Paso Electric Company	EE		\$1.26	\$1.34	\$1.43	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$89.50
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$151.57
Eversource Energy	ES		\$1.75	\$1.84	\$1.94	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$117.02
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$75.22
IDACORP, Inc.	IDA		\$2.13	\$2.28	\$2.44	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$151.68
MGE Energy, Inc.	MGEE		\$1.22	\$1.22	\$1.21	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$107.22
NorthWestern Corporation	NWE		\$1.99	\$2.05	\$2.11	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$122.57
OGE Energy Corp.	OGE		\$1.18	\$1.24	\$1.31	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$57.18
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$58.99
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$144.92
PNM Resources, Inc.	PNM		\$0.91	\$1.00	\$1.11	\$1.23	\$1.35	\$1.51	\$1.68	\$1.86	\$2.04	\$2.23	\$2.42	\$2.55	\$2.68	\$2.83	\$2.98	\$3.13	\$69.74
Portland General Electric Company	POR		\$1.21	\$1.29	\$1.37	\$1.45	\$1.54	\$1.69	\$1.84	\$2.01	\$2.18	\$2.37	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$84.48
SCANA Corporation	SCG		\$2.36	\$2.49	\$2.63	\$2.77	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$4.66	\$4.91	\$5.17	\$5.45	\$5.74	\$138.87
Wisconsin Energy Corporation	WEC		\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.40	\$2.54	\$2.68	\$2.83	\$2.98	\$3.14	\$3.30	\$3.48	\$3.67	\$3.86	\$118.39
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.72	\$1.83	\$1.95	\$2.07	\$2.20	\$2.34	\$2.49	\$2.62	\$2.76	\$2.91	\$3.06	\$3.23	\$82.60
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Initial Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$54.07)	\$0.00	\$1.18	\$2.40	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$118.81
Alliant Energy Corporation	LNT	(\$33.83)	\$0.00	\$0.58	\$1.18	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$75.27
Ameren Corporation	AEE	(\$46.40)	\$0.00	\$0.86	\$1.76	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$101.93
American Electric Power Company, Inc.	AEP	(\$61.54)	\$0.00	\$1.21	\$2.45	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$133.68
Avista Corporation	AVA	(\$37.83)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$82.84
CMS Energy Corporation	CMS	(\$39.10)	\$0.00	\$0.64	\$1.31	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$87.01
DTE Energy Company	DTE	(\$85.80)	\$0.00	\$1.49	\$3.03	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$190.06
El Paso Electric Company	EE	(\$41.72)	\$0.00	\$0.64	\$1.30	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$92.63
Entergy Corporation	ETR	(\$72.44)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$159.39
Eversource Energy	ES	(\$54.15)	\$0.00	\$0.88	\$1.81	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$121.44
FirstEnergy Corp.	FE	(\$33.04)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$79.19
IDACORP, Inc.	IDA	(\$70.82)	\$0.00	\$1.07	\$2.17	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$156.95
MGE Energy, Inc.	MGEE	(\$48.29)	\$0.00	\$0.61	\$1.25	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$110.42
NorthWestern Corporation	NWE	(\$57.21)	\$0.00	\$1.00	\$2.04	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$127.07
OGE Energy Corp.	OGE	(\$27.72)	\$0.00	\$0.59	\$1.20	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$59.56
Otter Tail Corporation	OTTR	(\$28.18)	\$0.00	\$0.67	\$1.36	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$61.50
Pinnacle West Capital Corporation	PNW	(\$69.12)	\$0.00	\$1.31	\$2.66	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$150.35
PNM Resources, Inc.	PNM	(\$31.32)	\$0.00	\$0.46	\$0.95	\$1.23	\$1.35	\$1.51	\$1.68	\$1.86	\$2.04	\$2.23	\$2.42	\$2.55	\$2.68	\$2.83	\$2.98	\$3.13	\$72.88
Portland General Electric Company	POR	(\$38.74)	\$0.00	\$0.61	\$1.25	\$1.45	\$1.54	\$1.69	\$1.84	\$2.01	\$2.18	\$2.37	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$87.80
SCANA Corporation	SCG	(\$64.86)	\$0.00	\$1.19	\$2.42	\$2.77	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$4.66	\$4.91	\$5.17	\$5.45	\$5.74	\$144.61
Wisconsin Energy Corporation	WEC	(\$55.89)	\$0.00	\$0.85	\$1.75	\$2.01	\$2.13	\$2.26	\$2.40	\$2.54	\$2.68	\$2.83	\$2.98	\$3.14	\$3.30	\$3.48	\$3.67	\$3.86	\$122.25
Xcel Energy Inc.	XEL	(\$38.85)	\$0.00	\$0.69	\$1.41	\$1.62	\$1.72	\$1.83	\$1.95	\$2.07	\$2.20	\$2.34	\$2.49	\$2.62	\$2.76	\$2.91	\$3.06	\$3.23	\$85.83
		(+====)	+	7	<del>+</del> ·····	T	<del></del>	+	+	7	<del></del>		7	7		<del></del>			

# Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2] FF	[3] S Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Ratio	[9]	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						Low	=		•									
Company	Ticker	Price	Zacks	First Call	Value Line	Growth	Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE I NT	\$59.67 \$38.20	5.50% 6.10%	5.00% 6.60%	4.00% 6.00%	4.00% 6.00%	5.32% 5.32%	66.00% 64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.28% 8.82%	17.80 20.15	3.34 3.79				
Alliant Energy Corporation  Ameren Corporation	AEE	\$50.20	6.10%	5.20%	6.00%	5.20%	5.32%	68.00%	64.00%	66.88%	(\$0.00)	8.92%	19.60	3.68				
American Electric Power Company, Inc.	AEP	\$66.05	4.90%	4.10%	4.00%	4.00%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.14%	18.45	3.47				
Avista Corporation	AVA	\$41.65	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	8.70%	20.85	3.92				
CMS Energy Corporation	CMS	\$42.95	6.40%	7.24%	6.00%	6.00%	5.32%	63.00%	62.00%	66.88%	(\$0.00)	8.80%	20.23	3.80				
DTE Energy Company	DTE	\$92.91	5.80%	5.35%	5.00%	5.00%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	8.86%	19.89	3.74				
El Paso Electric Company Entergy Corporation	EE ETR	\$45.30 \$77.45	6.70% NA	7.00% NA	2.50% 3.50%	2.50% 3.50%	5.32% 5.32%	59.00% 67.00%	61.00% 59.00%	66.88% 66.88%	(\$0.00) \$0.00	8.10% 10.39%	25.35 13.90	4.76 2.61				
Eversource Energy	ES	\$56.36	6.30%	5.49%	6.00%	5.49%	5.32%	60.00%	58.00%	66.88%	(\$0.00)	9.03%	18.98	3.57				
FirstEnergy Corp.	FE	\$33.34	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	10.83%	12.79	2.40				
IDACORP, Inc.	IDA	\$74.50	4.00%	4.00%	3.00%	3.00%	5.32%	53.00%	60.00%	66.88%	(\$0.00)	8.64%	21.21	3.99				
MGE Energy, Inc.	MGEE	\$53.30	NA	4.00%	7.00%	4.00%	5.32%	56.00%	44.00%	66.88%	(\$0.00)	7.90%	27.32	5.13				
NorthWestern Corporation	NWE	\$59.68 \$30.95	5.00% 5.20%	5.00% 4.30%	6.50% 3.00%	5.00%	5.32% 5.32%	65.00% 67.00%	59.00% 70.00%	66.88% 66.88%	(\$0.00)	8.91% 8.94%	19.65 19.49	3.69 3.66				
OGE Energy Corp. Otter Tail Corporation	OTTR	\$30.95	5.20% NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	(\$0.00) (\$0.00)	9.39%	17.32	3.26				
Pinnacle West Capital Corporation	PNW	\$75.82	4.00%	3.73%	4.00%	3.73%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	8.87%	19.87	3.73				
PNM Resources, Inc.	PNM	\$33.49	7.60%	8.76%	9.00%	7.60%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	9.52%	16.78	3.15				
Portland General Electric Company	POR	\$41.86	6.40%	6.57%	5.50%	5.50%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	8.99%	19.21	3.61				
SCANA Corporation	SCG	\$71.01	5.30%	5.40%	4.50%	4.50%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	9.14%	18.43	3.46				
Wisconsin Energy Corporation	WEC	\$61.68	6.30%	6.77%	6.00%	6.00%	5.32%	68.00%	67.00%	66.88%	(\$0.00)	8.35%	23.24	4.37				
Xcel Energy Inc.	XEL	\$42.20	5.30%	5.27%	5.50%	5.27%	5.32%	62.00%	63.00%	66.88%	(\$0.00) MFAN	9.08%	18.73	3.52				
											MAX	10.83%						
											MIN	7.90%						
Drainated Appual																		
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$3.38 \$1.69	\$3.52 \$1.79	\$3.66 \$1.90	\$3.80 \$2.01	\$3.95 \$2.13	\$4.11 \$2.26	\$4.29 \$2.39	\$4.48 \$2.53	\$4.68 \$2.68	\$4.91 \$2.82	\$5.16 \$2.98	\$5.44 \$3.14	\$5.73 \$3.30	\$6.03 \$3.48	\$6.35 \$3.66	\$6.69 \$3.86	\$7.05 \$4.07
Ameren Corporation	AEE	\$2.38	\$2.50	\$2.63	\$2.77	\$2.13	\$3.07	\$3.23	\$3.40	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88	\$5.14	\$5.41
American Electric Power Company, Inc.	AEP	\$3.59	\$3.73	\$3.88	\$4.04	\$4.20	\$4.37	\$4.55	\$4.75	\$4.98	\$5.22	\$5.49	\$5.78	\$6.08	\$6.41	\$6.75	\$7.11	\$7.49
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.00	\$2.12	\$2.25	\$2.39	\$2.53	\$2.68	\$2.83	\$2.99	\$3.16	\$3.33	\$3.51	\$3.69	\$3.89	\$4.10	\$4.32	\$4.55
DTE Energy Company	DTE	\$4.45	\$4.67	\$4.91	\$5.15	\$5.41	\$5.68	\$5.97	\$6.27	\$6.59	\$6.94	\$7.30	\$7.69	\$8.10	\$8.53	\$8.99	\$9.47	\$9.97
El Paso Electric Company Entergy Corporation	EE ETR	\$2.03 \$5.81	\$2.08 \$6.01	\$2.13 \$6.22	\$2.19 \$6.44	\$2.24 \$6.67	\$2.30 \$6.90	\$2.36 \$7.16	\$2.45 \$7.46	\$2.54 \$7.79	\$2.65 \$8.15	\$2.78 \$8.56	\$2.93 \$9.02	\$3.09 \$9.50	\$3.25 \$10.00	\$3.42 \$10.54	\$3.61 \$11.10	\$3.80 \$11.69
Eversource Energy	FS	\$2.76	\$2.91	\$0.22	\$3.24	\$3.42	\$3.61	\$3.80	\$4.01	\$4.23	\$8.15 \$4.45	\$4.69	\$9.02 \$4.94	\$9.50 \$5.20	\$5.48	\$10.54 \$5.77	\$6.08	\$6.40
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$4.64	\$4.81	\$5.01	\$5.24	\$5.50	\$5.79	\$6.10	\$6.43	\$6.77	\$7.13	\$7.51
MGE Energy, Inc.	MGEE	\$2.06	\$2.14	\$2.23	\$2.32	\$2.41	\$2.51	\$2.61	\$2.73	\$2.86	\$2.99	\$3.15	\$3.31	\$3.49	\$3.68	\$3.87	\$4.08	\$4.30
NorthWestern Corporation	NWE	\$2.90	\$3.05	\$3.20	\$3.36	\$3.52	\$3.70	\$3.89	\$4.09	\$4.30	\$4.52	\$4.76	\$5.01	\$5.28	\$5.56	\$5.86	\$6.17	\$6.50
OGE Energy Corp.	OGE	\$1.69 \$1.56	\$1.74 \$1.65	\$1.79 \$1.75	\$1.85 \$1.86	\$1.90 \$1.97	\$1.96 \$2.09	\$2.03 \$2.21	\$2.10 \$2.34	\$2.19 \$2.47	\$2.29 \$2.61	\$2.40 \$2.75	\$2.53 \$2.90	\$2.66 \$3.05	\$2.81 \$3.21	\$2.96 \$3.38	\$3.11 \$3.56	\$3.28 \$3.75
Otter Tail Corporation Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$1.75 \$4.22	\$4.38	\$4.54	\$2.09 \$4.71	\$4.90	\$2.34 \$5.10	\$2.47 \$5.34	\$5.59	\$2.75 \$5.87	\$2.90 \$6.19	\$6.52	\$6.86	\$3.38 \$7.23	\$3.56 \$7.61	\$8.02
PNM Resources, Inc.	PNM	\$1.64	\$1.76	\$1.90	\$2.04	\$2.20	\$2.37	\$2.54	\$2.71	\$2.88	\$3.06	\$3.23	\$3.41	\$3.59	\$3.78	\$3.98	\$4.19	\$4.42
Portland General Electric Company	POR	\$2.04	\$2.15	\$2.27	\$2.40	\$2.53	\$2.67	\$2.81	\$2.97	\$3.13	\$3.29	\$3.47	\$3.65	\$3.85	\$4.05		\$4.50	\$4.74
SCANA Corporation	SCG	\$3.81	\$3.98	\$4.16	\$4.35	\$4.54	\$4.75	\$4.97	\$5.21	\$5.46	\$5.74	\$6.03				\$4.27		\$8.24
Wisconsin Energy Corporation	WEC	\$2.34	00.40				φ4.73	Ψ4.57		φυ. <del>4</del> 0	φ3.74	φ0.U3	\$6.36	\$6.69	\$7.05	\$4.27 \$7.42	\$7.82	
Xcel Energy Inc.			\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$4.57	\$7.05 \$4.82	\$7.42 \$5.07	\$5.34	\$5.63
	XEL	\$2.10	\$2.48 \$2.21	\$2.63 \$2.33	\$2.79 \$2.45	\$2.95 \$2.58									\$7.05	\$7.42		
Projected Annual	XEL						\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$4.57	\$7.05 \$4.82	\$7.42 \$5.07	\$5.34	\$5.63
Dividend Payout Ratic	XEL		\$2.21	\$2.33	\$2.45	\$2.58	\$3.13 \$2.71	\$3.32 \$2.86	\$3.51 \$3.01	\$3.71 \$3.17	\$3.91 \$3.34	\$4.12 \$3.51	\$4.34 \$3.70	\$4.57 \$3.90	\$7.05 \$4.82 \$4.11	\$7.42 \$5.07 \$4.32	\$5.34 \$4.55	\$5.63 \$4.80
	XEL						\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$4.57	\$7.05 \$4.82	\$7.42 \$5.07	\$5.34	\$5.63
Company			\$2.21 [31]	\$2.33	\$2.45	\$2.58	\$3.13 \$2.71	\$3.32 \$2.86	\$3.51 \$3.01	\$3.71 \$3.17	\$3.91 \$3.34	\$4.12 \$3.51 [40]	\$4.34 \$3.70 [41]	\$4.57 \$3.90	\$7.05 \$4.82 \$4.11	\$7.42 \$5.07 \$4.32	\$5.34 \$4.55	\$5.63 \$4.80
Company ALLETE, Inc.	Ticker ALE		\$2.21 [31] 2016 66.00%	\$2.33 [32] 2017 65.25%	\$2.45 [33] 2018 64.50%	\$2.58 [34] 2019 63.75%	\$3.13 \$2.71 [35] 2020 63.00%	\$3.32 \$2.86 [36] 2021 63.65%	\$3.51 \$3.01 [37] 2022 64.29%	\$3.71 \$3.17 [38] 2023 64.94%	\$3.91 \$3.34 [39] 2024 65.59%	\$4.12 \$3.51 [40] 2025 66.23%	\$4.34 \$3.70 [41] 2026 66.88%	\$4.57 \$3.90 [42] 2027 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88%	\$5.34 \$4.55 [45] 2030 66.88%	\$5.63 \$4.80 [46] 2031 66.88%
ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT		[31] 2016 66.00% 64.00%	\$2.33 [32] 2017 65.25% 63.25%	[33] 2018 64.50% 62.50%	\$2.58 [34] 2019 63.75% 61.75%	\$3.13 \$2.71 [35] 2020 63.00% 61.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98%	\$3.51 \$3.01 [37] 2022 64.29% 62.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	Ticker ALE LNT AEE		\$2.21 [31] 2016 66.00% 64.00% 68.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00%	[33] 2018 64.50% 62.50% 66.00%	\$2.58 [34] 2019 63.75% 61.75% 65.00%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.	Ticker ALE LNT AEE AEP		\$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75%	[33] 2018 64.50% 62.50% 66.00% 65.50%	\$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25%	\$3.13 \$2.71 [35] 2020 63.00% 64.00% 67.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP AVA		\$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75%	[33] 2018 64.50% 62.50% 66.00% 65.50% 65.50%	[34] 2019 63.75% 61.75% 65.00% 66.25% 64.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS		\$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00% 63.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75% 62.75%	[33] 2018 64.50% 62.50% 66.00% 65.50% 65.50% 62.50%	\$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 62.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65% 62.81%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29% 63.63%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94% 64.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 65.92% 65.59% 65.25%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23% 66.07%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA		[31] 2016 66.00% 64.00% 68.00% 68.00% 68.00% 63.00% 63.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75%	[33] 2018 64.50% 62.50% 66.00% 65.50% 65.50%	[34] 2019 63.75% 61.75% 65.00% 66.25% 64.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 66.94% 64.94% 64.44% 63.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE		\$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00% 63.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50%	[33] 2018 64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00%	[34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 63.00% 63.00% 61.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94% 64.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.25% 64.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.20% 66.27% 65.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE		[31] 2016 66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00%	[32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 59.50% 65.00% 69.50%	[33] 2018 64.50% 62.50% 65.50% 65.50% 62.50% 62.00% 60.00%	[34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 61.50% 60.50% 61.00% 58.50%	\$3.13 \$2.71 [35] 2020 63.00% 64.00% 64.00% 67.00% 63.00% 62.00% 61.00% 61.00%	\$3.32 \$2.86 [36] 2021 63.65% 64.48% 66.98% 63.65% 62.81% 61.98% 60.198% 60.31% 59.48%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 62.96%	\$3.71 \$3.17 [38] 2023 64.94% 65.44% 66.94% 64.94% 64.94% 63.94% 63.94% 62.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 63.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.07% 65.90% 65.90% 65.90% 65.90% 65.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE		[31] 2016 66.00% 64.00% 68.00% 68.00% 63.00% 63.00% 67.00% 60.00% 65.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 65.00% 59.50% 65.00% 59.50%	[33] 2018 64.50% 62.50% 66.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 59.00%	[34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 61.50% 60.50% 61.00% 63.75% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 61.00% 59.00% 59.00% 59.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 63.65% 62.81% 61.98% 60.31% 59.31% 51.15%	\$3.51 \$3.01 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 65.44% 66.94% 64.44% 63.94% 62.94% 62.94% 57.44%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.95% 63.95%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.09% 66.07% 65.90% 65.90% 65.90% 65.90% 63.37%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corpo	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA		[31] 2016 66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 67.00% 60.00% 65.00% 65.00% 65.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 65.00% 59.50% 59.50% 54.75%	[33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 63.00% 59.00% 51.50% 66.50%	\$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 60.50% 60.50% 61.00% 58.50% 49.75% 58.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 62.00% 61.00% 61.00% 58.00% 48.00% 60.00%	\$3.32 \$2.86 [36] 2021 63.65% 64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 511.5%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29% 62.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 64.94% 64.94% 62.94% 62.94% 62.94% 63.94% 63.94% 63.94% 63.94% 63.94% 63.94% 64.44% 63.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.92% 64.95% 63.92% 60.92% 63.92% 63.92% 64.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.07% 65.90% 65.57% 65.57% 65.40% 65.57% 65.40% 65.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Ciroporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE ETR ES FE IDA MGEE		[31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 60.00% 65.00% 55.00% 56.00%	\$2.33 [32] 2017 66.25% 63.25% 67.00% 64.75% 62.75% 62.50% 59.50% 65.00% 59.50% 65.00% 59.50% 63.25% 54.00% 53.25% 53.25%	[33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 50.00%	\$2.58 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 60.50% 61.50% 60.50% 61.50% 60.50% 64.25% 6	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 62.00% 61.00% 61.00% 62.00% 61.00% 61.00% 64.00% 6	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 63.65% 61.98% 61.98% 61.98% 61.91% 6	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29% 62.26% 54.29% 62.26% 54.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 64.94% 64.44% 63.94% 62.94% 62.24% 67.44% 65.544%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.99% 66.59% 64.52% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 65.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.90% 66.90% 65.90% 65.90% 65.90% 65.57% 65.40% 63.73% 65.40% 63.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
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ALLETE, Inc. Alliant Energy Corporation American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. MGE Energy, Inc. MGE Tail Corporation OGE Energy Corp. DiaCorp. D	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW POR SCG		[31]  2016 66.00% 64.00% 68.00% 64.00% 63.00% 63.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00%	\$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.50% 62.50% 63.00% 63.	\$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.00% 62.00% 63.00% 59.00% 62.00% 63.00% 50.00% 64.50% 50.00% 63.00% 64.50% 65.50% 62.00% 63.00% 64.50% 65.00%	\$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 61.50% 47.50% 58.50% 47.00% 69.25% 67.25% 64.75% 58.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.50% 69.25%	\$3.13 \$2.71 [35] 2020 63.00% 64.00% 67.00% 63.00% 61.00% 61.00% 61.00% 64.00% 61.00% 61.00% 63.00% 64.00% 65.00% 60.0	\$3.32 \$2.86 [36] 2021 63.65% 64.88% 64.48% 66.98% 63.65% 62.81% 61.98% 61.15% 47.81% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65%	\$3.51 \$3.01 [37] 2022 64.29% 62.99% 64.96% 66.96% 63.63% 62.96% 61.63% 60.96% 51.63% 64.29% 65.63% 64.29% 65.63% 62.29% 64.29% 65.63% 64.29%	[38] 2023 64.94% 65.44% 66.94% 64.44% 63.94% 63.94% 62.94% 62.244% 62.94% 62.94% 62.94% 63.94% 60.94% 61.44% 63.94% 64.44% 63.94% 64.94% 65.94% 64.94% 64.94% 65.94% 64.94% 65.94% 64.94% 65.94% 64.94% 65.94% 66.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.59% 65.25% 64.92% 64.92% 64.92% 64.92% 64.92% 65.59% 64.25% 64.25% 64.25% 64.59% 62.5% 64.59% 63.25% 64.59% 63.25% 64.59%	\$4,12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.57% 65.57% 63.73% 63.07% 65.57% 64.90% 66.57% 65.57% 65.57% 65.57% 65.57% 65.57%	\$4,34 \$3,70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
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Projected Annual																			
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
•																			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.32	\$2.39	\$2.45	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$125.46
Alliant Energy Corporation	LNT		\$1.15	\$1.20	\$1.26	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$81.92
Ameren Corporation	AEE		\$1.70	\$1.76	\$1.83	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.94	\$3.10	\$3.26	\$3.43	\$3.62	\$106.00
American Electric Power Company, Inc.	AEP		\$2.39	\$2.51	\$2.65	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.01	\$138.14
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.30
CMS Energy Corporation	CMS		\$1.26	\$1.33	\$1.41	\$1.49	\$1.57	\$1.68	\$1.80	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$91.99
DTE Energy Company	DTE		\$2.94	\$3.07	\$3.19	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$198.32
El Paso Electric Company	EE		\$1.23	\$1.27	\$1.31	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$96.28
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$162.41
Eversource Energy	ES		\$1.75	\$1.83	\$1.91	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$121.57
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$75.89
IDACORP, Inc.	IDA		\$2.11	\$2.25	\$2.39	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$159.25
MGE Energy, Inc.	MGEE		\$1.20	\$1.18	\$1.16	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$117.36
NorthWestern Corporation	NWE		\$1.98	\$2.03	\$2.08	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$127.65
OGE Energy Corp.	OGE		\$1.17	\$1.21	\$1.26	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$63.91
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$65.02
Pinnacle West Capital Corporation	PNW		\$2.60	\$2.71	\$2.82	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$159.34
PNM Resources, Inc.	PNM		\$0.90	\$0.99	\$1.08	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$74.08
Portland General Electric Company	POR		\$1.21	\$1.27	\$1.34	\$1.42	\$1.49	\$1.63	\$1.77	\$1.92	\$2.08	\$2.26	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$90.98
SCANA Corporation	SCG		\$2.35	\$2.47	\$2.59	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$151.84
Wisconsin Energy Corporation	WEC		\$1.69	\$1.78	\$1.88	\$1.99	\$2.10	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$130.82
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.71	\$1.82	\$1.93	\$2.06	\$2.19	\$2.33	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.21	\$89.82
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Initial Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE. Inc.	ALE	(\$59.67)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$130.17
Alliant Energy Corporation	LNT	(\$38.20)	\$0.00	\$0.58	\$1.18	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$84.63
Ameren Corporation	AEE	(\$50.20)	\$0.00	\$0.86	\$1.75	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.94	\$3.10	\$3.26	\$3.43	\$3.62	\$109.62
American Electric Power Company, Inc.	AEP	(\$66.05)	\$0.00	\$1.20	\$2.44	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.02	\$143.14
Avista Corporation	AVA	(\$41.65)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$91.13
CMS Energy Corporation	CMS	(\$42.95)	\$0.00	\$0.64	\$1.30	\$1.49	\$1.57	\$1.68	\$1.80	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$95.03
DTE Energy Company	DTE	(\$92.91)	\$0.00	\$1.48	\$3.02	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$204.99
El Paso Electric Company	EE	(\$45.30)	\$0.00	\$0.62	\$1.24	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$98.82
Entergy Corporation	ETR	(\$77.45)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$170.22
Eversource Energy	ES	(\$56.36)	\$0.00	\$0.88	\$1.79	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$125.85
FirstEnergy Corp.	FE	(\$33.34)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$79.86
IDACORP, Inc.	IDA	(\$74.50)	\$0.00	\$1.06	\$2.14	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$164.27
MGE Energy, Inc.	MGEE	(\$53.30)	\$0.00	\$0.60	\$1.22	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$120.23
NorthWestern Corporation	NWE	(\$59.68)	\$0.00	\$1.00	\$2.03	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$132.00
OGE Energy Corp.	OGE	(\$30.95)	\$0.00	\$0.59	\$1.18	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$66.10
Otter Tail Corporation	OTTR	(\$30.96)	\$0.00	\$0.67	\$1.36	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$67.53
Pinnacle West Capital Corporation	PNW	(\$75.82)	\$0.00	\$1.31	\$2.65	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$164.71
PNM Resources, Inc.	PNM	(\$33.49)	\$0.00	\$0.45	\$0.93	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$77.03
Portland General Electric Company	POR	(\$41.86)	\$0.00	\$0.61	\$1.24	\$1.42	\$1.49	\$1.63	\$1.77	\$1.92	\$2.08	\$2.26	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$94.15
SCANA Corporation	SCG	(\$71.01)	\$0.00	\$1.18	\$2.40	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$157.34
Wisconsin Energy Corporation	WEC	(\$61.68)	\$0.00	\$0.85	\$1.74	\$1.99	\$2.10	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$134.59
Xcel Energy Inc.	XEL	(\$42.20)	\$0.00	\$0.69	\$1.41	\$1.62	\$1.71	\$1.82	\$1.93	\$2.06	\$2.19	\$2.33	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.21	\$93.03
		/																	

### Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2] EF	[3] PS Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Rati	[9] o	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						Low	_											
Company ALLETE, Inc.	Ticker ALE	Price \$57.08	Zacks 5.50%	First Call 5.00%	Value Line 4.00%	Growth 4.00%	Growth 5.32%	2016 66.00%	2020 63.00%	2026 66.88%	Proof (\$0.00)	IRR 9.46%	P/E Ratio 17.00	PEG Ratio 3.19				
Alliant Energy Corporation	LNT	\$36.64	6.10%	6.60%	6.00%	6.00%	5.32%	64.00%	61.00%	66.88%	(\$0.00)	8.97%	19.31	3.63				
Ameren Corporation	AEE	\$48.90	6.10%	5.20%	6.00%	5.20%	5.32%	68.00%	64.00%	66.88%	(\$0.00)	9.01%	19.11	3.59				
American Electric Power Company, Inc.	AEP	\$65.03	4.90%	4.10%	4.00%	4.00%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.20%	18.16	3.41				
Avista Corporation	AVA	\$40.48	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	8.80%	20.25	3.80				
CMS Energy Corporation	CMS	\$41.70 \$89.93	6.40% 5.80%	7.24% 5.35%	6.00% 5.00%	6.00% 5.00%	5.32% 5.32%	63.00% 63.00%	62.00% 61.00%	66.88% 66.88%	(\$0.00) (\$0.00)	8.91% 8.98%	19.63 19.24	3.69 3.62				
DTE Energy Company El Paso Electric Company	EE	\$44.56	6.70%	7.00%	2.50%	2.50%	5.32%	59.00%	61.00%	66.88%	(\$0.00)	8.15%	24.93	4.68				
Entergy Corporation	ETR	\$76.55	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	10.45%	13.73	2.58				
Eversource Energy	ES	\$56.58	6.30%	5.49%	6.00%	5.49%	5.32%	60.00%	58.00%	66.88%	(\$0.00)	9.02%	19.06	3.58				
FirstEnergy Corp.	FE	\$34.24	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	10.69%	13.12	2.46				
IDACORP, Inc.	IDA MGEE	\$73.58 \$51.38	4.00% NA	4.00% 4.00%	3.00% 7.00%	3.00% 4.00%	5.32% 5.32%	53.00% 56.00%	60.00% 44.00%	66.88% 66.88%	(\$0.00)	8.69% 8.00%	20.95 26.35	3.94 4.95				
MGE Energy, Inc. NorthWestern Corporation	NWE	\$59.59	5.00%	5.00%	6.50%	5.00%	5.32%	65.00%	59.00%	66.88%	(\$0.00) (\$0.00)	8.00%	19.61	3.69				
OGE Energy Corp.	OGE	\$29.13	5.20%	4.30%	3.00%	3.00%	5.32%	67.00%	70.00%	66.88%	(\$0.00)	9.17%	18.29	3.44				
Otter Tail Corporation	OTTR	\$29.44	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	(\$0.00)	9.61%	16.45	3.09				
Pinnacle West Capital Corporation	PNW	\$73.65	4.00%	3.73%	4.00%	3.73%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	8.97%	19.29	3.62				
PNM Resources, Inc.	PNM	\$32.94	7.60%	8.76%	9.00%	7.60%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	9.59%	16.51	3.10				
Portland General Electric Company	POR SCG	\$40.24	6.40% 5.30%	6.57%	5.50%	5.50% 4.50%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	9.14% 9.24%	18.47 17.96	3.47				
SCANA Corporation Wisconsin Energy Corporation	WEC	\$69.22 \$59.53	6.30%	5.40% 6.77%	4.50% 6.00%	4.50% 6.00%	5.32% 5.32%	59.00% 68.00%	60.00% 67.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.24% 8.47%	17.96 22.41	3.37 4.21				
Xcel Energy Inc.	XEL	\$39.53 \$41.15	5.30%	5.27%	5.50%	5.27%	5.32%	62.00%	63.00%	66.88%	(\$0.00)	9.18%	18.25	3.43				
	ALL.	ψ.1.10	5.50 /6	U.E1 /0	0.0070	J.21 /0	J.JL /0	02.00 /d	00.0070	00.0070	MEAN	9.12%	.5.25	0.40				
											MAX	10.69%						
											MIN	8.00%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
	Ti. 1	0015	0010	2017	2012	0010	0000	0001	0000	0000	0001			0007	0000	0000	0000	0001
Company ALLETE, Inc.	Ticker ALE	2015 \$3.38	2016 \$3.52	\$3.66	2018 \$3.80	2019 \$3.95	2020 \$4.11	<b>2021</b> \$4.29	2022 \$4.48	2023 \$4.68	2024 \$4.91	2025 \$5.16	<b>2026</b> \$5.44	2027 \$5.73	2028 \$6.03	2029 \$6.35	2030 \$6.69	2031 \$7.05
Alliant Energy Corporation	LNT	\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.39	\$2.53	\$2.68	\$2.82	\$2.98	\$3.14	\$3.70	\$3.48	\$3.66	\$3.86	\$4.07
Ameren Corporation	AEE	\$2.38	\$2.50	\$2.63	\$2.77	\$2.92	\$3.07	\$3.23	\$3.40	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88	\$5.14	\$5.41
American Electric Power Company, Inc.	AEP	\$3.59	\$3.73	\$3.88	\$4.04	\$4.20	\$4.37	\$4.55	\$4.75	\$4.98	\$5.22	\$5.49	\$5.78	\$6.08	\$6.41	\$6.75	\$7.11	\$7.49
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS DTE	\$1.89 \$4.45	\$2.00	\$2.12 \$4.91	\$2.25 \$5.15	\$2.39 \$5.41	\$2.53	\$2.68	\$2.83	\$2.99 \$6.59	\$3.16 \$6.94	\$3.33	\$3.51	\$3.69 \$8.10	\$3.89	\$4.10	\$4.32 \$9.47	\$4.55
DTE Energy Company El Paso Electric Company	EE	\$4.45 \$2.03	\$4.67 \$2.08	\$4.91 \$2.13	\$5.15 \$2.19	\$5.41 \$2.24	\$5.68 \$2.30	\$5.97 \$2.36	\$6.27 \$2.45	\$6.59 \$2.54	\$6.94 \$2.65	\$7.30 \$2.78	\$7.69 \$2.93	\$8.10 \$3.09	\$8.53 \$3.25	\$8.99 \$3.42	\$9.47 \$3.61	\$9.97 \$3.80
Entergy Corporation	FTR	\$5.81	\$6.01	\$6.22	\$6.44	\$6.67	\$6.90	\$7.16	\$7.46	\$7.79	\$8.15	\$8.56	\$9.02	\$9.50	\$10.00	\$10.54	\$11.10	\$11.69
Eversource Energy	ES	\$2.76	\$2.91	\$3.07	\$3.24	\$3.42	\$3.61	\$3.80	\$4.01	\$4.23	\$4.45	\$4.69	\$4.94	\$5.20	\$5.48	\$5.77	\$6.08	\$6.40
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$4.64	\$4.81	\$5.01	\$5.24	\$5.50	\$5.79	\$6.10	\$6.43	\$6.77	\$7.13	\$7.51
MGE Energy, Inc.	MGEE	\$2.06	\$2.14	\$2.23	\$2.32	\$2.41	\$2.51	\$2.61	\$2.73	\$2.86	\$2.99	\$3.15	\$3.31	\$3.49	\$3.68	\$3.87	\$4.08	\$4.30
NorthWestern Corporation OGE Energy Corp.	NWE OGE	\$2.90 \$1.69	\$3.05 \$1.74	\$3.20 \$1.79	\$3.36 \$1.85	\$3.52 \$1.90	\$3.70 \$1.96	\$3.89 \$2.03	\$4.09 \$2.10	\$4.30 \$2.19	\$4.52 \$2.29	\$4.76 \$2.40	\$5.01 \$2.53	\$5.28 \$2.66	\$5.56 \$2.81	\$5.86 \$2.96	\$6.17 \$3.11	\$6.50 \$3.28
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.03	\$2.34	\$2.19	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$4.22	\$4.38	\$4.54	\$4.71	\$4.90	\$5.10	\$5.34	\$5.59	\$5.87	\$6.19	\$6.52	\$6.86	\$7.23	\$7.61	\$8.02
PNM Resources, Inc.	PNM	\$1.64	\$1.76	\$1.90	\$2.04	\$2.20	\$2.37	\$2.54	\$2.71	\$2.88	\$3.06	\$3.23	\$3.41	\$3.59	\$3.78	\$3.98	\$4.19	\$4.42
Portland General Electric Company	POR	\$2.04	\$2.15	\$2.27	\$2.40	\$2.53	\$2.67	\$2.81	\$2.97	\$3.13	\$3.29	\$3.47	\$3.65	\$3.85	\$4.05	\$4.27	\$4.50	\$4.74
SCANA Corporation	SCG	\$3.81	\$3.98	\$4.16	\$4.35	\$4.54	\$4.75	\$4.97	\$5.21	\$5.46	\$5.74	\$6.03	\$6.36	\$6.69	\$7.05	\$7.42	\$7.82	\$8.24
Wisconsin Energy Corporation	WEC XEL	\$2.34 \$2.10	\$2.48 \$2.21	\$2.63 \$2.33	\$2.79 \$2.45	\$2.95 \$2.58	\$3.13 \$2.71	\$3.32 \$2.86	\$3.51 \$3.01	\$3.71 \$3.17	\$3.91 \$3.34	\$4.12 \$3.51	\$4.34 \$3.70	\$4.57 \$3.90	\$4.82 \$4.11	\$5.07 \$4.32	\$5.34 \$4.55	\$5.63 \$4.80
Xcel Energy Inc.	ΛEL	\$2.10	\$2.21	\$2.33	φ2.40	\$2.50	φ2./1	φ2.00	\$3.01	φ3.1 <i>1</i>	φ3.34	\$3.31	\$3.70	φ3.90	\$4.11	\$4.3Z	φ <del>4</del> .55	\$4.00
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Dividend Fayout Name			[01]	[OZ]	[OO]	[04]	[oo]	[ooj	[07]	[JOJ	[00]	[40]	[41]	[72]	[40]	[]	[40]	[+0]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE I NT		66.00%	65.25% 63.25%	64.50% 62.50%	63.75%	63.00% 61.00%	63.65% 61.98%	64.29%	64.94% 63.94%	65.59% 64.92%	66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88%
Alliant Energy Corporation Ameren Corporation	AEE		64.00% 68.00%	67.00%	66.00%	61.75% 65.00%	64.00%	64.48%	62.96% 64.96%	65.44%	65.92%	65.90% 66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88% 66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.25%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company	DTE		63.00%	62.50%	62.00%	61.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	EE		59.00%	59.50%	60.00%	60.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Entergy Corporation	ETR ES		67.00% 60.00%	65.00% 59.50%	63.00% 59.00%	61.00% 58.50%	59.00% 58.00%	60.31% 59.48%	61.63% 60.96%	62.94% 62.44%	64.25% 63.92%	65.57% 65.40%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Eversource Energy FirstEnergy Corp.	FE		55.00%	59.50% 53.25%	59.00% 51.50%	58.50% 49.75%	58.00% 48.00%	59.48% 51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp.	OGE		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR		80.00%	75.75%	71.50%	67.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM POR		51.00% 56.00%	52.00% 56.00%	53.00% 56.00%	54.00% 56.00%	55.00% 56.00%	56.98% 57.81%	58.96% 59.63%	60.94% 61.44%	62.92% 63.25%	64.90% 65.07%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Portland General Electric Company SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation	WEC		68.00%	67.75%	67.50%	67.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%

Projected Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
	<b>T</b>		2012	2017	2010	0040	2000	2004	0000	2000	0004	2005	0000	2007	2000	2029	0000	0004	Termin
Company ALLETE, Inc.	Ticker ALE		2016 \$2.32	2017 \$2.39	2018 \$2.45	2019 \$2.52	2020 \$2.59	2021 \$2.73	2022 \$2.88	2023 \$3.04	2024 \$3.22	2025 \$3.42	2026 \$3.64	2027 \$3.83	2028 \$4.04	\$4.25	2030 \$4.48	2031 \$4.71	Value \$119.86
Alliant Energy Corporation	LNT		\$1.15	\$1.20	\$1.26	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$78.51
Ameren Corporation	AEE		\$1.70	\$1.76	\$1.83	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.21	\$3.10	\$3.26	\$3.43	\$3.62	\$103.35
American Electric Power Company, Inc.	AEP		\$2.39	\$2.51	\$2.65	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.02	\$135.94
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$85.75
CMS Energy Corporation	CMS		\$1.26	\$1.33	\$1.43	\$1.49	\$1.57	\$1.68	\$1.71	\$1.93	\$2.06	\$2.00	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$89.27
DTE Energy Company	DTE		\$2.94	\$3.07	\$3.19	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$191.8
El Paso Electric Company	EE		\$1.23	\$1.27	\$1.31	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$94.68
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$160.4
Eversource Energy	ES		\$1.75	\$1.83	\$1.91	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$122.0
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$77.84
IDACORP, Inc.	IDA		\$2.11	\$2.25	\$2.39	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$157.2
MGE Energy, Inc.	MGEE		\$1.20	\$1.18	\$1.16	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$113.18
NorthWestern Corporation	NWE		\$1.98	\$2.03	\$2.08	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$127.4
OGE Energy Corp.	OGE		\$1.90	\$1.21	\$1.26	\$1.32	\$1.37	\$2.33 \$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$3.72 \$1.88	\$3.92 \$1.98	\$2.08	\$2.19	\$59.97
Otter Tail Corporation	OTTR		\$1.17	\$1.33	\$1.33	\$1.32	\$1.37	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.09	\$2.04	\$2.15	\$2.26	\$2.00	\$2.19	\$61.72
Pinnacle West Capital Corporation	PNW		\$2.60	\$2.71	\$2.82	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$154.6
PNM Resources. Inc.	PNM		\$0.90	\$0.99	\$1.08	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$72.88
Portland General Electric Company	POR		\$1.21	\$1.27	\$1.00	\$1.19	\$1.49	\$1.63	\$1.77	\$1.70	\$2.08	\$2.10	\$2.20	\$2.40	\$2.55	\$2.86	\$3.01	\$3.17	\$87.46
SCANA Corporation	SCG		\$2.35	\$2.47	\$2.59	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.17 \$5.51	\$147.94
Wisconsin Energy Corporation	WEC		\$1.69	\$1.78	\$1.88	\$1.99	\$2.00	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$126.14
Xcel Energy Inc.	XEL		\$1.09	\$1.76	\$1.53	\$1.62	\$1.71	\$1.82	\$1.93	\$2.46	\$2.02	\$2.76	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.76	\$87.55
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
		Initial																	
Company																			
	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/3
ALLETE, Inc.	ALE	(\$57.08)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$124.58
Alliant Energy Corporation	ALE LNT	(\$57.08) (\$36.64)	\$0.00 \$0.00	\$1.17 \$0.58	\$2.37 \$1.18	\$2.52 \$1.32	\$2.59 \$1.38	\$2.73 \$1.48	\$2.88 \$1.59	\$3.04 \$1.71	\$3.22 \$1.83	\$3.42 \$1.96	\$3.64 \$2.10	\$3.83 \$2.21	\$4.04 \$2.33	\$4.25 \$2.45	\$4.48 \$2.58	\$4.71 \$2.72	\$124.58 \$81.23
Alliant Energy Corporation Ameren Corporation	ALE LNT AEE	(\$57.08) (\$36.64) (\$48.90)	\$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86	\$2.37 \$1.18 \$1.75	\$2.52 \$1.32 \$1.89	\$2.59 \$1.38 \$1.96	\$2.73 \$1.48 \$2.08	\$2.88 \$1.59 \$2.21	\$3.04 \$1.71 \$2.34	\$3.22 \$1.83 \$2.48	\$3.42 \$1.96 \$2.63	\$3.64 \$2.10 \$2.79	\$3.83 \$2.21 \$2.94	\$4.04 \$2.33 \$3.10	\$4.25 \$2.45 \$3.26	\$4.48 \$2.58 \$3.43	\$4.71 \$2.72 \$3.62	\$124.58 \$81.23 \$106.98
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.	ALE LNT AEE AEP	(\$57.08) (\$36.64) (\$48.90) (\$65.03)	\$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20	\$2.37 \$1.18 \$1.75 \$2.44	\$2.52 \$1.32 \$1.89 \$2.78	\$2.59 \$1.38 \$1.96 \$2.93	\$2.73 \$1.48 \$2.08 \$3.05	\$2.88 \$1.59 \$2.21 \$3.18	\$3.04 \$1.71 \$2.34 \$3.33	\$3.22 \$1.83 \$2.48 \$3.49	\$3.42 \$1.96 \$2.63 \$3.67	\$3.64 \$2.10 \$2.79 \$3.86	\$3.83 \$2.21 \$2.94 \$4.07	\$4.04 \$2.33 \$3.10 \$4.29	\$4.25 \$2.45 \$3.26 \$4.51	\$4.48 \$2.58 \$3.43 \$4.75	\$4.71 \$2.72 \$3.62 \$5.01	\$124.58 \$81.23 \$106.98 \$140.98
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	ALE LNT AEE AEP AVA	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83	\$124.56 \$81.23 \$106.96 \$140.95 \$88.58
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	ALE LNT AEE AEP AVA CMS	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04	\$124.56 \$81.23 \$106.96 \$140.99 \$88.58 \$92.31
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	ALE LNT AEE AEP AVA CMS DTE	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67	\$124.56 \$81.23 \$106.96 \$140.95 \$88.58 \$92.31 \$198.53
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	ALE LNT AEE AEP AVA CMS DTE EE	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54	\$124.58 \$81.23 \$106.96 \$140.95 \$88.58 \$92.31 \$198.52 \$97.22
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82	\$124.58 \$81.23 \$106.96 \$140.95 \$88.58 \$92.31 \$198.52 \$97.22 \$168.27
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Extersy Corporation Eversource Energy	ALE LNT AEE AEP AVA CMS DTE EE ETR ES	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28	\$124.56 \$81.23 \$106.96 \$140.95 \$88.58 \$92.31 \$198.52 \$97.22 \$168.27 \$126.33
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation OTHS Energy Corporation DTE Energy Company El Pass Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97	\$124.56 \$81.23 \$106.96 \$140.99 \$88.58 \$92.31 \$198.52 \$97.22 \$168.23 \$126.33
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. DACORP, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02	\$124.56 \$81.23 \$106.96 \$140.99 \$88.58 \$92.31 \$198.52 \$168.23 \$126.33 \$81.81 \$162.29
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22	\$2.52 \$1.32 \$1.89 \$2.78 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13	\$2.59 \$1.38 \$1.96 \$2.93 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87 \$2.22	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87	\$124.56 \$81.23 \$106.96 \$140.96 \$88.58 \$92.31 \$198.55 \$97.22 \$168.25 \$126.33 \$81.81 \$162.29 \$116.06
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. DACORP, Inc. MothWestern Corporation	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38) (\$59.59)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$1.00	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03	\$2.52 \$1.32 \$1.89 \$2.78 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35	\$124.5( \$81.23 \$106.9( \$140.9( \$88.58 \$92.31 \$198.5( \$97.22 \$168.2( \$126.3( \$116.0( \$131.7(
Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38) (\$59.59) (\$29.13)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.87 \$2.22 \$3.35 \$1.69	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19	\$124.5; \$81.23 \$106.9; \$140.9; \$88.58; \$92.31; \$198.5; \$97.22; \$168.2; \$126.3; \$81.81; \$162.2; \$131.7; \$62.16
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. DACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OOGE Energy Corp. DITE Energy Corp. Other Teal Corporation OOGE Energy Corp. Other Teal Corporation OOGE Energy Corp. Other Teal Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$37.25) (\$57.38) (\$51.38) (\$59.59) (\$29.44)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.06 \$0.60 \$1.06 \$0.60 \$0.60 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.10 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$3.18 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60	\$3.22 \$1.83 \$2.48 \$3.49 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.87 \$2.22 \$3.35 \$5.15 \$1.96 \$1.94	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.28 \$3.97 \$5.02 \$2.87 \$4.28 \$3.97 \$5.02 \$2.87 \$4.28 \$3.97 \$5.01 \$4.28	\$124.5 \$81.23 \$106.9 \$140.9 \$88.56 \$92.31 \$198.5 \$97.22 \$168.2 \$126.3 \$81.81 \$162.2 \$116.0 \$131.7 \$62.16 \$64.23
Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. DACORP, Inc. MGE Energy, Inc. NorthWestern Corporation DGE Energy Corp. DTET Tail Corporation Pinnacle West Capital Corporation	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$73.58) (\$51.38) (\$59.59) (\$29.13) (\$29.13)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.59 \$0.59 \$0.59	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65	\$2.52 \$1.32 \$1.32 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.87 \$2.22 \$3.35 \$1.69 \$1.94	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36	\$124.5 \$81.23 \$106.9 \$140.9 \$88.55 \$92.31 \$198.5 \$97.22 \$168.2 \$126.3 \$81.81 \$162.2 \$116.0 \$131.7 \$62.1 \$64.23 \$160.0
Alliant Energy Corporation American Electric Power Company, Inc. Awista Corporation OMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Electric Company Entergy Corporation Eversource Energy EristEnergy Corp. IDACORP, Inc. MoEE Energy, Inc. NorthWestern Corporation OGE Energy Corp. OGE Energy Corp. OTHER TO THE TO T	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE OGE OTTR PNM	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$51.38) (\$51.38) (\$59.59) (\$29.13) (\$29.44) (\$73.65) (\$73.65)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.60 \$1.06 \$0.60 \$1.06 \$0.59 \$0.59 \$0.67 \$1.31	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.48 \$3.33 \$1.36 \$4.07 \$2.00 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41 \$1.41 \$3.20 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.41 \$1.45	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.60	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.61 \$3.18 \$1.58 \$2.71 \$1.50 \$1.50 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$1.55 \$1.71 \$3.70 \$3.71 \$3.71 \$3.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.10	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.37 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28	\$3.83 \$2.21 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.25 \$2.95	\$124.5; \$81.23 \$106.9; \$140.9; \$88.56 \$92.31 \$198.5; \$97.22 \$126.3; \$81.81 \$162.2; \$116.0; \$131.7; \$62.16 \$64.23 \$160.0; \$75.84
Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Corporation DTE Energy Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MothWestern Corporation OGE Energy Inc. OGE Energy Corp. DITE Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle Post Capital Corporation Post C	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGTR PNW PNM POR	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$76.55) (\$76.55) (\$76.55) (\$73.58) (\$51.38) (\$59.93) (\$29.13) (\$29.14) (\$73.65) (\$29.14) (\$73.65) (\$32.94)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.60 \$1.31 \$0.67 \$1.31 \$0.45 \$0.61	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.14 \$1.20 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$2.94 \$1.19 \$1.42	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.32 \$3.06 \$1.32 \$3.06 \$1.49	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.26 \$1.71 \$2.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.63	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.60 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.16 \$3.162 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.47 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.24 \$2.24 \$2.24 \$2.25 \$2.26 \$3.25	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	\$124.5 \$81.23 \$106.9 \$140.9 \$88.56 \$92.31 \$198.5 \$97.22 \$168.2 \$126.3 \$81.81 \$162.2 \$116.0 \$131.7 \$62.16 \$64.23 \$160.0 \$75.8 \$90.63
Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy Fintergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation PIM Resources, Inc. Portland General Electric Company SCANA Corporation	ALE LNT AEE AEP AVA CMS DTE EE ET ES FE IDA MGEE NWE OGE OTTR PNW PNM POR SCG	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$59.94) (\$29.44) (\$73.65) (\$32.94) (\$40.24)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.59 \$0.60 \$1.00 \$0.59 \$0.67 \$1.31 \$0.45 \$0.45 \$0.45	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.03 \$1.18 \$1.36 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32 \$1.32 \$1.42	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.13 \$2.18 \$1.37 \$1.37 \$1.30 \$1.30 \$1.30 \$1.40 \$2.85	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.26 \$1.71 \$2.25 \$2.35 \$1.41 \$3.20 \$1.45 \$1.65 \$3.00	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.45 \$1.45 \$1.60 \$1.77 \$3.24	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.15 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76 \$3.35 \$3.46	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.75 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26 \$3.97	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35 \$1.69 \$1.94 \$2.22 \$3.35 \$1.69 \$4.14 \$2.28 \$2.44 \$4.25	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53 \$2.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.66 \$2.86 \$4.97	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$2.38 \$3.50	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17 \$5.51	\$124.50 \$81.23 \$106.90 \$140.90 \$88.58 \$92.31 \$198.55 \$97.22 \$168.2: \$126.3: \$81.81 \$16.0: \$64.23 \$160.0: \$75.84 \$90.63 \$153.4!
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Corporation DTE Energy Company Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MorthWestern Corporation OGE Energy, Inc. OGE Energy, Corp. OIDET Tall Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Portland General Electric Company	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGTR PNW PNM POR	(\$57.08) (\$36.64) (\$48.90) (\$65.03) (\$40.48) (\$41.70) (\$76.55) (\$76.55) (\$76.55) (\$73.58) (\$51.38) (\$59.93) (\$29.13) (\$29.14) (\$29.14) (\$73.65) (\$32.94)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.60 \$1.31 \$0.67 \$1.31 \$0.45 \$0.61	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.14 \$1.20 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$2.94 \$1.19 \$1.42	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.32 \$3.06 \$1.32 \$3.06 \$1.49	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.26 \$1.71 \$2.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.63	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.60 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.16 \$3.162 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.47 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.24 \$2.24 \$2.24 \$2.25 \$2.26 \$3.25	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	\$124.5 \$81.23 \$106.9 \$140.9 \$88.56 \$92.31 \$198.5 \$97.22 \$168.2 \$126.3 \$81.81 \$162.2 \$116.0 \$131.7 \$62.16 \$64.23 \$160.0 \$75.8 \$90.63

### Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2] EF	[3] PS Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Rati	[9] o	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						Low	_		•									
Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$54.07 \$33.83	5.50% 6.10%	5.00% 6.60%	4.00% 6.00%	4.00% 6.00%	5.32% 5.32%	66.00% 64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.70% 9.28%	16.08 17.81	3.02 3.35				
Ameren Corporation	AEE	\$46.40	6.10%	5.20%	6.00%	5.20%	5.32%	68.00%	64.00%	66.88%	(\$0.00)	9.20%	18.10	3.40				
American Electric Power Company, Inc.	AFP	\$61.54	4.90%	4.10%	4.00%	4.00%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.43%	17.15	3.22				
Avista Corporation	AVA	\$37.83	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	9.05%	18.89	3.55				
CMS Energy Corporation	CMS	\$39.10	6.40%	7.24%	6.00%	6.00%	5.32%	63.00%	62.00%	66.88%	(\$0.00)	9.15%	18.40	3.46				
DTE Energy Company	DTE	\$85.80	5.80%	5.35%	5.00%	5.00%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.16%	18.34	3.45				
El Paso Electric Company	EE	\$41.72	6.70%	7.00%	2.50%	2.50%	5.32%	59.00%	61.00%	66.88%	(\$0.00)	8.34%	23.31	4.38				
Entergy Corporation	ETR	\$72.44	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	10.75%	12.97	2.44				
Eversource Energy	ES	\$54.15	6.30%	5.49%	6.00%	5.49%	5.32%	60.00%	58.00%	66.88%	(\$0.00)	9.19%	18.24	3.43				
FirstEnergy Corp. IDACORP. Inc.	FE	\$33.04	NA 4.00%	NA 4.00%	9.00% 3.00%	9.00%	5.32% 5.32%	55.00% 53.00%	48.00%	66.88% 66.88%	(\$0.00)	10.88%	12.67 20.15	2.38 3.79				
MGE Energy, Inc.	IDA MGEE	\$70.82 \$48.29	4.00% NA	4.00% 4.00%	7.00%	4.00%	5.32%	56.00%	60.00% 44.00%	66.88%	(\$0.00) (\$0.00)	8.82% 8.17%	24.78	4.66				
NorthWestern Corporation	NWF	\$57.21	5.00%	5.00%	6.50%	5.00%	5.32%	65.00%	59.00%	66.88%	(\$0.00)	9.07%	18.82	3.54				
OGE Energy Corp.	OGE	\$27.72	5.20%	4.30%	3.00%	3.00%	5.32%	67.00%	70.00%	66.88%	(\$0.00)	9.38%	17.36	3.26				
Otter Tail Corporation	OTTR	\$28.18	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	(\$0.00)	9.80%	15.72	2.95				
Pinnacle West Capital Corporation	PNW	\$69.12	4.00%	3.73%	4.00%	3.73%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	9.22%	18.06	3.39				
PNM Resources, Inc.	PNM	\$31.32	7.60%	8.76%	9.00%	7.60%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	9.81%	15.71	2.95				
Portland General Electric Company	POR	\$38.74	6.40%	6.57%	5.50%	5.50%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	9.29%	17.77	3.34				
SCANA Corporation	SCG	\$64.86	5.30%	5.40%	4.50%	4.50%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	9.51%	16.81	3.16				
Wisconsin Energy Corporation	WEC	\$55.89	6.30%	6.77%	6.00%	6.00%	5.32%	68.00%	67.00%	66.88%	(\$0.00)	8.68%	21.01	3.95				
Xcel Energy Inc.	XEL	\$38.85	5.30%	5.27%	5.50%	5.27%	5.32%	62.00%	63.00%	66.88%	(\$0.00)	9.41%	17.21	3.23				
											MEAN	9.33%						
											MAX MIN	10.88% 8.17%						
Desirated Associat																		
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
-	T: 1																	
Company ALLETE, Inc.	Ticker ALE	2015 \$3.38	2016 \$3.52	2017 \$3.66	2018 \$3.80	2019 \$3.95	2020 \$4.11	<b>2021</b> \$4.29	2022 \$4.48	2023 \$4.68	2024 \$4.91	2025 \$5.16	<b>2026</b> \$5.44	2027 \$5.73	2028 \$6.03	2029 \$6.35	2030 \$6.69	2031 \$7.05
Alliant Energy Corporation	LNT	\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.39	\$2.53	\$2.68	\$2.82	\$2.98	\$3.14	\$3.30	\$3.48	\$3.66	\$3.86	\$4.07
Ameren Corporation	AEE	\$2.38	\$2.50	\$2.63	\$2.77	\$2.92	\$3.07	\$3.23	\$3.40	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88	\$5.14	\$5.41
American Electric Power Company, Inc.	AEP	\$3.59	\$3.73	\$3.88	\$4.04	\$4.20	\$4.37	\$4.55	\$4.75	\$4.98	\$5.22	\$5.49	\$5.78	\$6.08	\$6.41	\$6.75	\$7.11	\$7.49
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.00	\$2.12	\$2.25	\$2.39	\$2.53	\$2.68	\$2.83	\$2.99	\$3.16	\$3.33	\$3.51	\$3.69	\$3.89	\$4.10	\$4.32	\$4.55
DTE Energy Company	DTE	\$4.45	\$4.67	\$4.91	\$5.15	\$5.41	\$5.68	\$5.97	\$6.27	\$6.59	\$6.94	\$7.30	\$7.69	\$8.10	\$8.53	\$8.99	\$9.47	\$9.97
El Paso Electric Company	EE	\$2.03	\$2.08	\$2.13	\$2.19	\$2.24	\$2.30	\$2.36	\$2.45	\$2.54	\$2.65	\$2.78	\$2.93	\$3.09	\$3.25	\$3.42	\$3.61	\$3.80
Entergy Corporation	ETR	\$5.81 \$2.76	\$6.01 \$2.91	\$6.22 \$3.07	\$6.44	\$6.67	\$6.90 \$3.61	\$7.16 \$3.80	\$7.46	\$7.79 \$4.23	\$8.15 \$4.45	\$8.56	\$9.02 \$4.94	\$9.50	\$10.00 \$5.48	\$10.54 \$5.77	\$11.10 \$6.08	\$11.69 \$6.40
Eversource Energy FirstEnergy Corp.	ES FE	\$2.76 \$2.00	\$2.91	\$3.07 \$2.38	\$3.24 \$2.59	\$3.42 \$2.82	\$3.61 \$3.08	\$3.80 \$3.34	\$4.01 \$3.59	\$4.23 \$3.85	\$4.45 \$4.10	\$4.69 \$4.35	\$4.94 \$4.58	\$5.20 \$4.82	\$5.48 \$5.08	\$5.77 \$5.35	\$6.08 \$5.63	\$6.40 \$5.93
IDACORP, Inc.	IDA	\$3.87	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$4.64	\$4.81	\$5.00 \$5.01	\$5.24	\$5.50	\$5.79	\$6.10	\$6.43	\$6.77	\$7.13	\$5.93 \$7.51
MGE Energy, Inc.	MGEE	\$2.06	\$2.14	\$2.23	\$2.32	\$2.41	\$2.51	\$2.61	\$2.73	\$2.86	\$2.99	\$3.15	\$3.31	\$3.49	\$3.68	\$3.87	\$4.08	\$4.30
NorthWestern Corporation	NWE	\$2.90	\$3.05	\$3.20	\$3.36	\$3.52	\$3.70	\$3.89	\$4.09	\$4.30	\$4.52	\$4.76	\$5.01	\$5.28	\$5.56	\$5.86	\$6.17	\$6.50
OGE Energy Corp.	OGE	\$1.69	\$1.74	\$1.79	\$1.85	\$1.90	\$1.96	\$2.03	\$2.10	\$2.19	\$2.29	\$2.40	\$2.53	\$2.66	\$2.81	\$2.96	\$3.11	\$3.28
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$4.22	\$4.38	\$4.54	\$4.71	\$4.90	\$5.10	\$5.34	\$5.59	\$5.87	\$6.19	\$6.52	\$6.86	\$7.23	\$7.61	\$8.02
PNM Resources, Inc.	PNM	\$1.64	\$1.76	\$1.90	\$2.04	\$2.20	\$2.37	\$2.54	\$2.71	\$2.88	\$3.06	\$3.23	\$3.41	\$3.59	\$3.78	\$3.98	\$4.19	\$4.42
Portland General Electric Company	POR	\$2.04	\$2.15	\$2.27	\$2.40	\$2.53	\$2.67	\$2.81	\$2.97	\$3.13	\$3.29	\$3.47	\$3.65	\$3.85	\$4.05	\$4.27	\$4.50	\$4.74
SCANA Corporation	SCG	\$3.81	\$3.98	\$4.16	\$4.35	\$4.54	\$4.75	\$4.97	\$5.21	\$5.46	\$5.74	\$6.03	\$6.36	\$6.69	\$7.05	\$7.42	\$7.82	\$8.24
Wisconsin Energy Corporation	WEC	\$2.34	\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$4.57	\$4.82	\$5.07	\$5.34	\$5.63
Xcel Energy Inc.	XEL	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.71	\$2.86	\$3.01	\$3.17	\$3.34	\$3.51	\$3.70	\$3.90	\$4.11	\$4.32	\$4.55	\$4.80
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
•																		
Company	Ticker		2016	2017 65.25%	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	V - L				64.50%	63.75%	63.00%	63.65%	64.29%	64.94% 63.94%	65.59% 64.92%	66.23% 65.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Alliant Energy Corporation	ALE		66.00%		62 50%				62 069/				00.00%				66.88%	
	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%				66 990/	66 220/	66 220/			
Ameren Corporation	LNT AEE		64.00% 68.00%	63.25% 67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%		66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc.	LNT AEE AEP		64.00% 68.00% 64.00%	63.25% 67.00% 64.75%	66.00% 65.50%	65.00% 66.25%	64.00% 67.00%	64.48% 66.98%	64.96% 66.96%	65.44% 66.94%	65.92% 66.92%	66.40% 66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation	LNT AEE		64.00% 68.00%	63.25% 67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%						
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	LNT AEE AEP AVA CMS		64.00% 68.00% 64.00% 68.00% 63.00%	63.25% 67.00% 64.75% 66.75% 62.75%	66.00% 65.50% 65.50% 62.50%	65.00% 66.25% 64.25% 62.25%	64.00% 67.00% 63.00% 62.00%	64.48% 66.98% 63.65% 62.81%	64.96% 66.96% 64.29% 63.63%	65.44% 66.94% 64.94% 64.44%	65.92% 66.92% 65.59% 65.25%	66.40% 66.90% 66.23% 66.07%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	LNT AEE AEP AVA		64.00% 68.00% 64.00% 68.00%	63.25% 67.00% 64.75% 66.75%	66.00% 65.50% 65.50%	65.00% 66.25% 64.25%	64.00% 67.00% 63.00%	64.48% 66.98% 63.65%	64.96% 66.96% 64.29%	65.44% 66.94% 64.94%	65.92% 66.92% 65.59%	66.40% 66.90% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	LNT AEE AEP AVA CMS DTE		64.00% 68.00% 64.00% 68.00% 63.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50%	66.00% 65.50% 65.50% 62.50% 62.00%	65.00% 66.25% 64.25% 62.25% 61.50%	64.00% 67.00% 63.00% 62.00% 61.00%	64.48% 66.98% 63.65% 62.81% 61.98%	64.96% 66.96% 64.29% 63.63% 62.96%	65.44% 66.94% 64.94% 64.44% 63.94%	65.92% 66.92% 65.59% 65.25% 64.92%	66.40% 66.90% 66.23% 66.07% 65.90%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	LNT AEE AEP AVA CMS DTE EE		64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50%	64.00% 67.00% 63.00% 62.00% 61.00%	64.48% 66.98% 63.65% 62.81% 61.98%	64.96% 66.96% 64.29% 63.63% 62.96% 62.96%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.44%	65.92% 66.92% 65.59% 65.25% 64.92%	66.40% 66.90% 66.23% 66.07% 65.90%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%
American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	LNT AEE AEP AVA CMS DTE EE ETR ES FE		64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00% 67.00% 60.00% 55.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 58.00% 48.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31% 59.48% 51.15%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.44% 57.44%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92% 60.59%	66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57% 65.40% 63.73%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA		64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00% 67.00% 55.00% 53.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25%	64.00% 67.00% 63.00% 62.00% 61.00% 59.00% 58.00% 48.00% 60.00%	64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 51.15% 61.15%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 62.29%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.44% 57.44% 63.44%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92% 60.59% 64.59%	66.40% 66.90% 66.23% 66.07% 65.90% 65.57% 65.40% 63.73% 65.73%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Amerean Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE		64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00% 60.00% 55.00% 56.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 59.50% 54.75% 53.00%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50% 50.00%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 48.00% 60.00% 44.00%	64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 51.15% 61.15% 47.81%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 62.29% 51.63%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.44% 63.44% 55.44%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.92% 63.92% 60.59% 64.59% 59.25%	66.40% 66.90% 66.23% 66.07% 65.90% 65.57% 65.40% 63.73% 63.07%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE		64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00% 60.00% 55.00% 56.00% 65.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 53.00% 63.50%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 50.00% 62.00%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00% 60.50%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 48.00% 48.00% 64.00% 59.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31% 59.48% 51.15% 47.81% 60.31%	64.96% 66.96% 64.29% 63.63% 62.96% 62.96% 61.63% 60.96% 54.29% 62.29% 51.63% 61.63%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.44% 57.44% 63.44% 55.44% 62.94%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92% 60.59% 64.59% 59.25% 64.25%	66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57% 63.73% 63.07% 65.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE		64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00% 60.00% 53.00% 55.00% 65.00% 67.00%	63.25% 67.00% 64.75% 66.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 53.00% 63.50% 67.75%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50% 50.00% 62.00% 68.50%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00% 60.50% 69.25%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 48.00% 60.00% 44.00% 59.00% 70.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31% 59.48% 51.15% 61.15% 67.81% 69.48%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 62.29% 61.63% 61.63% 68.96%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.94% 62.44% 57.44% 63.44% 63.44% 68.44%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92% 60.59% 64.59% 64.25% 67.92%	66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57% 63.73% 65.73% 65.73% 65.75% 67.40%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR		64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 67.00% 60.00% 55.00% 65.00% 67.00% 80.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 53.00% 67.75% 75.75%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50% 50.00% 68.50% 71.50%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00% 69.25% 67.25%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 58.00% 44.00% 59.00% 59.00% 63.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31% 59.48% 51.15% 61.15% 60.31% 69.48% 63.65%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 62.29% 61.63% 68.96% 64.29%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.44% 57.44% 63.44% 55.44% 62.94% 64.94%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92% 60.59% 64.59% 64.55% 67.92% 65.59%	66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57% 65.40% 63.73% 65.73% 63.07% 65.75% 67.40% 66.23%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACCRP, Inc. MGE Energy, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW		64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 67.00% 60.00% 55.00% 65.00% 65.00% 67.00% 60.00% 60.00% 60.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 63.50% 67.75% 64.25%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 50.00% 62.00% 68.50% 64.50%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 69.25% 47.00% 60.50% 60.50% 67.25% 64.75%	64.00% 67.00% 63.00% 62.00% 61.00% 59.00% 58.00% 48.00% 60.00% 44.00% 59.00% 63.00% 65.00%	64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 61.15% 47.81% 60.31% 69.48% 63.65% 65.31%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 51.63% 61.63% 68.96% 68.96% 65.63%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.94% 62.44% 55.44% 62.94% 64.94% 64.94% 65.94%	65.92% 66.92% 65.59% 65.25% 64.92% 64.25% 63.92% 60.59% 64.59% 59.25% 64.25% 65.59% 66.25%	66.40% 66.90% 66.23% 65.90% 65.90% 65.57% 65.40% 63.73% 63.73% 65.57% 67.40% 66.23% 66.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW		64.00% 68.00% 68.00% 63.00% 63.00% 67.00% 67.00% 55.00% 65.00% 67.00% 64.00% 64.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 65.00% 65.00% 67.75% 64.25% 64.25% 64.25%	66.00% 65.50% 65.50% 62.50% 62.00% 62.00% 63.00% 59.00% 56.50% 56.50% 62.00% 68.50% 71.50% 53.00%	65.00% 66.25% 64.25% 61.50% 60.50% 61.00% 58.50% 49.75% 60.50% 60.50% 69.25% 67.25% 64.75% 54.00%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 58.00% 48.00% 60.00% 59.00% 63.00% 65.00% 55.00%	64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 51.15% 61.15% 60.31% 60.34% 63.65% 63.65% 65.98%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 62.29% 61.63% 68.96% 64.29% 65.63% 65.63%	65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.44% 63.44% 62.44% 64.94% 64.94% 66.94% 60.94%	65.92% 66.92% 65.25% 64.92% 64.92% 64.92% 64.25% 63.92% 60.59% 64.59% 64.25% 67.92% 65.59% 62.92%	66.40% 66.29% 66.27% 65.90% 65.90% 65.57% 65.40% 63.73% 65.77% 67.40% 66.23% 64.90%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Portland General Electric Company Portland General Electric Company	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE OGE OTTR PNW PNM POR		64.00% 68.00% 64.00% 63.00% 63.00% 67.00% 60.00% 55.00% 65.00% 65.00% 60.00% 64.00% 51.00% 64.00% 51.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 59.50% 53.25% 53.25% 63.50% 67.75% 64.25% 52.00% 64.50%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 59.00% 59.00% 56.50% 50.00% 62.00% 64.50% 71.50% 64.50% 56.00%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 60.50% 69.25% 67.25% 64.75% 54.00%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 48.00% 44.00% 59.00% 63.00% 65.00% 55.00% 65.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.18% 60.31% 59.48% 60.31% 60.365% 65.31% 65.31% 56.98%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29% 64.29% 64.29% 65.63% 59.63%	65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.44% 63.44% 64.94% 64.94% 65.94% 60.94% 61.44%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.92% 60.59% 64.59% 64.59% 64.55% 66.25% 66.25% 63.92%	66.40% 66.93% 66.23% 66.07% 65.90% 65.90% 65.57% 65.47% 65.73% 65.73% 66.57% 66.57% 66.57% 66.57% 66.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	LNT AEE AEP AVA CMS DTE EE ETR FE IDA MGEE NWE OGE OTTM PNM PNM PSCG		64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 67.00% 67.00% 65.00% 65.00% 67.00% 60.00% 67.00% 60.00% 67.00% 60.00% 67.00% 60.00% 61.00% 61.00% 61.00% 61.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 63.25% 54.75% 64.25% 64.25% 62.00% 56.00%	66.00% 65.50% 65.50% 62.50% 62.00% 63.00% 59.00% 51.50% 56.00% 62.00% 64.50% 53.00% 55.00% 56.00%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00% 60.50% 67.25% 64.75% 54.00% 59.00% 59.75%	64.00% 67.00% 63.00% 61.00% 61.00% 59.00% 58.00% 48.00% 60.00% 59.00% 70.00% 65.00% 55.00% 65.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31% 59.48% 47.81% 60.31% 69.48% 65.31% 56.98% 57.81% 61.15%	64.96% 66.96% 64.29% 63.63% 62.96% 62.96% 61.63% 60.96% 54.29% 61.63% 68.96% 65.63% 65.63% 62.29%	65.44% 66.94% 64.94% 64.44% 63.94% 62.94% 62.24% 57.44% 63.44% 62.94% 66.94% 60.94% 61.44%	65.92% 66.92% 65.25% 65.25% 64.92% 64.92% 64.59% 64.59% 64.55% 64.25% 65.59% 66.25% 62.92% 63.92% 63.92%	66.40% 66.90% 66.23% 66.07% 65.90% 65.50% 65.57% 65.40% 63.73% 66.57% 67.40% 66.57% 64.90% 65.57% 64.90%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Portland General Electric Company Portland General Electric Company	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE OGE OTTR PNW PNM POR		64.00% 68.00% 64.00% 63.00% 63.00% 67.00% 60.00% 55.00% 65.00% 65.00% 60.00% 64.00% 51.00% 64.00% 51.00%	63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 59.50% 53.25% 53.25% 63.50% 67.75% 64.25% 52.00% 64.50%	66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 59.00% 59.00% 56.50% 50.00% 62.00% 64.50% 71.50% 64.50% 56.00%	65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 60.50% 69.25% 67.25% 64.75% 54.00%	64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 59.00% 48.00% 44.00% 59.00% 63.00% 65.00% 55.00% 65.00%	64.48% 66.98% 63.65% 62.81% 61.98% 61.18% 60.31% 59.48% 60.31% 60.365% 65.31% 65.31% 56.98%	64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29% 64.29% 64.29% 65.63% 59.63%	65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.44% 63.44% 64.94% 64.94% 65.94% 60.94% 61.44%	65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.92% 60.59% 64.59% 64.59% 64.55% 66.25% 66.25% 63.92%	66.40% 66.93% 66.23% 66.07% 65.90% 65.90% 65.57% 65.47% 65.73% 65.73% 66.57% 66.57% 66.57% 66.57% 66.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%

Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
																			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.32	\$2.39	\$2.45	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$113.34
Alliant Energy Corporation	LNT		\$1.15	\$1.20	\$1.26	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$72.42
Ameren Corporation	AEE		\$1.70	\$1.76	\$1.83	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.94	\$3.10	\$3.26	\$3.43	\$3.62	\$97.93
American Electric Power Company, Inc.	AEP		\$2.39	\$2.51	\$2.65	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.01	\$128.37
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$80.01
CMS Energy Corporation	CMS		\$1.26	\$1.33	\$1.41	\$1.49	\$1.57	\$1.68	\$1.80	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$83.65
DTE Energy Company	DTE		\$2.94	\$3.07	\$3.19	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$182.89
El Paso Electric Company	EE		\$1.23	\$1.27	\$1.31	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$88.51
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$151.57
Eversource Energy	ES		\$1.75	\$1.83	\$1.91	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$116.77
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$75.22
IDACORP, Inc.	IDA		\$2.11	\$2.25	\$2.39	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$151.26
MGE Energy, Inc.	MGEE		\$1.20	\$1.18	\$1.16	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$106.44
NorthWestern Corporation	NWE		\$1.98	\$2.03	\$2.08	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$122.29
OGE Energy Corp.	OGE		\$1.17	\$1.21	\$1.26	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$56.93
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$58.99
Pinnacle West Capital Corporation	PNW		\$2.60	\$2.71	\$2.82	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$144.82
PNM Resources, Inc.	PNM		\$0.90	\$0.99	\$1.08	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$69.36
Portland General Electric Company	POR		\$1.21	\$1.27	\$1.34	\$1.42	\$1.49	\$1.63	\$1.77	\$1.92	\$2.08	\$2.26	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$84.19
SCANA Corporation	SCG		\$2.35	\$2.47	\$2.59	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$138.47
Wisconsin Energy Corporation	WEC		\$1.69	\$1.78	\$1.88	\$1.99	\$2.10	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$118.24
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.71	\$1.82	\$1.93	\$2.06	\$2.19	\$2.33	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.21	\$82.57
Investor Cash Flows		[64] Initial	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	0/00/00	0/00/04			6/30/24	6/30/25	6/30/26				6/30/30	6/30/31
ALLETE, Inc.				12/31/10	0/30/17	0/30/10	0/30/19	6/30/20	6/30/21	6/30/22	6/30/23	0/30/24	0/30/23	0/30/20	6/30/27	6/30/28	6/30/29	0/30/30	0/30/31
Alliant Energy Corporation	ALE	(\$54.07)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	6/30/23 \$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	6/30/29 \$4.48	\$4.71	\$118.05
	ALE LNT																		
Ameren Corporation		(\$54.07)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$118.05
Ameren Corporation American Electric Power Company, Inc.	LNT	(\$54.07) (\$33.83)	\$0.00 \$0.00	\$1.17 \$0.58	\$2.37 \$1.18	\$2.52 \$1.32	\$2.59 \$1.38	\$2.73 \$1.48	\$2.88 \$1.59	\$3.04 \$1.71	\$3.22 \$1.83	\$3.42 \$1.96	\$3.64 \$2.10	\$3.83 \$2.21	\$4.04 \$2.33	\$4.25 \$2.45	\$4.48 \$2.58	\$4.71 \$2.72	\$118.05 \$75.14
	LNT AEE	(\$54.07) (\$33.83) (\$46.40)	\$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86	\$2.37 \$1.18 \$1.75	\$2.52 \$1.32 \$1.89	\$2.59 \$1.38 \$1.96	\$2.73 \$1.48 \$2.08	\$2.88 \$1.59 \$2.21	\$3.04 \$1.71 \$2.34	\$3.22 \$1.83 \$2.48	\$3.42 \$1.96 \$2.63	\$3.64 \$2.10 \$2.79	\$3.83 \$2.21 \$2.94	\$4.04 \$2.33 \$3.10	\$4.25 \$2.45 \$3.26	\$4.48 \$2.58 \$3.43	\$4.71 \$2.72 \$3.62	\$118.05 \$75.14 \$101.55
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	LNT AEE AEP AVA CMS	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57	\$2.73 \$1.48 \$2.08 \$3.05	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69
American Electric Power Company, Inc. Avista Corporation	LNT AEE AEP AVA CMS DTE	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	LNT AEE AEP AVA CMS	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	LNT AEE AEP AVA CMS DTE	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	LNT AEE AEP AVA CMS DTE EE ETR ES	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	LNT AEE AEP AVA CMS DTE EE ETR ES FE	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19
American Electric Power Company, Inc. Avista Corporation CMIS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Energy Corporation Eversource Energy	LNT AEE AEP AVA CMS DTE EE ETR ES	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	LNT AEE AEP AVA CMS DTE EE ETR ES FE	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.87 \$2.22	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28
American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21) (\$27.72)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.14 \$1.23 \$1.21	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.66 \$3.87 \$2.22 \$3.35 \$1.69	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28 \$109.32 \$126.63 \$59.12
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$54.15) (\$37.82) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$28.18)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$1.00	\$2.37 \$1.18 \$1.75 \$2.44 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.148 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28 \$109.32 \$126.63 \$59.12 \$61.50
American Electric Power Company, Inc. Avista Corporation OMS Energy Comparation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$70.82) (\$70.82) (\$72.72) (\$27.72) (\$27.72)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$1.06 \$0.60 \$1.00 \$0.67 \$1.31	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.36 \$3.87 \$2.22 \$3.35 \$1.69 \$1.94	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.08	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28 \$109.32 \$126.63 \$59.12 \$61.50 \$150.18
American Electric Power Company, Inc. Avvista Corporation OMS Energy Corporation DTE Energy Company El Pasos Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacie West Capital Corporation PhM Resources, Inc.	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$70.82) (\$48.29) (\$54.15) (\$57.21) (\$57.72) (\$27.72) (\$28.18) (\$69.12) (\$69.12)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59 \$0.59 \$0.67 \$1.31	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$2.54 \$1.13 \$2.13 \$2.13 \$1.32 \$1.32 \$2.94 \$1.19	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$2.171 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.60	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.10	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.37 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.04 \$4.05 \$2.40	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$5.83 \$4.83 \$5.83 \$4.83 \$4.83 \$4.83 \$4.83 \$4.83 \$4.83 \$4.83 \$4.83 \$4.83 \$4.83	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.25 \$2.51 \$5.25 \$2.51	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28 \$109.32 \$126.63 \$59.12 \$61.50 \$150.18 \$72.32
American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PMM Resources, Inc. Portland General Electric Company	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$72.24) (\$70.82) (\$57.21) (\$27.72) (\$28.18) (\$69.12) (\$31.32) (\$33.73)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.50 \$0.67 \$1.31 \$0.45 \$0.67 \$1.31 \$0.67	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$2.94 \$1.14	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30 \$1.49	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.45 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.19 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.47 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.24 \$2.57	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.28 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28 \$109.32 \$126.63 \$59.12 \$61.50 \$150.18 \$72.32
American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM PNW PNM POR SCG	(\$54.07) (\$33.83) (\$64.64) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$70.82) (\$54.15) (\$48.29) (\$57.21) (\$27.72) (\$28.18) (\$69.12) (\$31.32) (\$33.04)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59 \$0.59 \$0.45	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.25 \$2.14 \$1.25 \$2.14 \$1.25 \$2.03 \$1.18 \$1.36 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32 \$1.32 \$2.94 \$1.19 \$1.49	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.37 \$1.32 \$3.06 \$1.30 \$1.30 \$2.85	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$1.41 \$3.20 \$1.45 \$1.63 \$3.00	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.45 \$1.60 \$3.35 \$1.60 \$3.35 \$1.60 \$3.35 \$3.35 \$3.35 \$3.35 \$3.35 \$3.35 \$3.35 \$3.35 \$3.35 \$3.35 \$3.41 \$3.35	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.92 \$2.64 \$2.21 \$3.18 \$1.58 \$1.58 \$1.56 \$1.50 \$1.60 \$3.52 \$1.76 \$3.34	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08 \$3.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26 \$3.97	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28 \$2.44 \$4.25	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$3.48 \$3.23 \$4.08 \$3.53 \$1.78 \$2.24 \$4.36 \$2.40 \$2.57 \$4.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.71 \$4.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.66 \$2.86 \$4.97	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.73 \$4.13 \$2.08 \$2.38 \$2.38 \$5.09 \$2.80 \$3.01 \$5.23	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17 \$5.51	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$199.39 \$121.05 \$79.19 \$156.28 \$109.32 \$112.63 \$59.12 \$61.50 \$75.19 \$75.19 \$75.19 \$75.19 \$75.19 \$75.23
American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PMM Resources, Inc. Portland General Electric Company	LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	(\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$72.24) (\$70.82) (\$57.21) (\$27.72) (\$28.18) (\$69.12) (\$31.32) (\$33.73)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.50 \$0.67 \$1.31 \$0.45 \$0.67 \$1.31 \$0.67	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$2.94 \$1.14	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30 \$1.49	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.45 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.19 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.47 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.24 \$2.57	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.28 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	\$118.05 \$75.14 \$101.55 \$133.38 \$82.84 \$86.69 \$189.55 \$91.05 \$159.39 \$121.05 \$79.19 \$156.28 \$109.32 \$126.63 \$59.12 \$61.50 \$150.18 \$72.32

Projected Annual

### Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

									illate III II s									
Inputs		[1] Stock	[2] EF	[3] PS Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Rati	[9] o	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						High	_											
Company	Ticker ALE	Price \$59.67	Zacks		Value Line 4.00%	Growth 5.50%	Growth	2016 66.00%	2020	2026	Proof	IRR 9.70%		PEG Ratio 3.02				
ALLETE, Inc. Alliant Energy Corporation	LNT	\$38.20	5.50% 6.10%	5.00% 6.60%	6.00%	6.60%	5.32% 5.32%	64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.70% 8.96%	16.10 19.36	3.64				
Ameren Corporation	AEE	\$50.12	6.10%	5.20%	6.00%	6.10%	5.32%	68.00%	64.00%	66.88%	(\$0.00)	9.14%	18.45	3.47				
American Electric Power Company, Inc.	AEP	\$66.05	4.90%	4.10%	4.00%	4.90%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.38%	17.36	3.26				
Avista Corporation	AVA	\$41.65	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	8.70%	20.85	3.92				
CMS Energy Corporation	CMS	\$42.95	6.40%	7.24%	6.00%	7.24%	5.32%	63.00%	62.00%	66.88%	(\$0.00)	9.10%	18.64	3.50				
DTE Energy Company	DTE	\$92.91	5.80%	5.35%	5.00%	5.80%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.06%	18.85	3.54				
El Paso Electric Company	EE ETR	\$45.30 \$77.45	6.70% NA	7.00% NA	2.50% 3.50%	7.00% 3.50%	5.32% 5.32%	59.00% 67.00%	61.00% 59.00%	66.88% 66.88%	(\$0.00)	9.09% 10.39%	18.69 13.90	3.51 2.61				
Entergy Corporation Eversource Energy	ES	\$77.45 \$56.36	6.30%	5.49%	6.00%	6.30%	5.32%	60.00%	58.00%	66.88%	\$0.00 (\$0.00)	9.24%	18.00	3.38				
FirstEnergy Corp.	FF	\$33.34	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	10.83%	12.79	2.40				
IDACORP, Inc.	IDA	\$74.50	4.00%	4.00%	3.00%	4.00%	5.32%	53.00%	60.00%	66.88%	(\$0.00)	8.88%	19.81	3.72				
MGE Energy, Inc.	MGEE	\$53.30	NA	4.00%	7.00%	7.00%	5.32%	56.00%	44.00%	66.88%	(\$0.00)	8.47%	22.38	4.21				
NorthWestern Corporation	NWE	\$59.68	5.00%	5.00%	6.50%	6.50%	5.32%	65.00%	59.00%	66.88%	(\$0.00)	9.28%	17.78	3.34				
OGE Energy Corp.	OGE	\$30.95	5.20%	4.30%	3.00%	5.20%	5.32%	67.00%	70.00%	66.88%	(\$0.00)	9.52%	16.77	3.15				
Otter Tail Corporation	OTTR PNW	\$30.96 \$75.82	NA 4.00%	6.00% 3.73%	6.00% 4.00%	6.00% 4.00%	5.32% 5.32%	80.00% 64.00%	63.00% 65.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.39% 8.93%	17.32 19.51	3.26 3.67				
Pinnacle West Capital Corporation PNM Resources, Inc.	PNM	\$33.49	7.60%	3.73% 8.76%	9.00%	9.00%	5.32%	51.00%	55.00%	66.88%	(\$0.00)	9.91%	15.35	2.88				
Portland General Electric Company	POR	\$41.86	6.40%	6.57%	5.50%	6.57%	5.32%	56.00%	56.00%	66.88%	(\$0.00)	9.26%	17.90	3.36				
SCANA Corporation	SCG	\$71.01	5.30%	5.40%	4.50%	5.40%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	9.38%	17.36	3.26				
Wisconsin Energy Corporation	WEC	\$61.68	6.30%	6.77%	6.00%	6.77%	5.32%	68.00%	67.00%	66.88%	(\$0.00)	8.51%	22.06	4.15				
Xcel Energy Inc.	XEL	\$42.20	5.30%	5.27%	5.50%	5.50%	5.32%	62.00%	63.00%	66.88%	(\$0.00)	9.14%	18.44	3.46				
											MEAN	9.28%						
											MAX MIN	10.83% 8.47%						
											IVIIIN	0.4770						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.57	\$3.76	\$3.97	\$4.19	\$4.42	\$4.66	\$4.91	\$5.18	\$5.46	\$5.75	\$6.06	\$6.38	\$6.72	\$7.07	\$7.45	\$7.85
Alliant Energy Corporation	LNT	\$1.69	\$1.80	\$1.92	\$2.05	\$2.18	\$2.33	\$2.47	\$2.63	\$2.78	\$2.94	\$3.11	\$3.27	\$3.45	\$3.63	\$3.82	\$4.03	\$4.24
Ameren Corporation	AEE	\$2.38	\$2.53	\$2.68	\$2.84	\$3.02	\$3.20	\$3.39	\$3.59	\$3.79	\$4.01	\$4.22	\$4.45	\$4.69	\$4.94	\$5.20	\$5.47	\$5.77
American Electric Power Company, Inc.	AEP	\$3.59	\$3.77	\$3.95	\$4.14	\$4.35	\$4.56	\$4.79 \$2.53	\$5.03	\$5.29	\$5.56 \$2.95	\$5.85	\$6.16	\$6.49 \$3.44	\$6.84	\$7.20	\$7.58	\$7.99
Avista Corporation CMS Energy Corporation	AVA CMS	\$1.89 \$1.89	\$1.98 \$2.03	\$2.08 \$2.17	\$2.19 \$2.33	\$2.30 \$2.50	\$2.41 \$2.68	\$2.53 \$2.87	\$2.66 \$3.06	\$2.80 \$3.25	\$2.95 \$3.44	\$3.10 \$3.64	\$3.27 \$3.83	\$3.44 \$4.03	\$3.62 \$4.25	\$3.82 \$4.47	\$4.02 \$4.71	\$4.23 \$4.96
DTE Energy Company	DTE	\$4.45	\$4.71	\$4.98	\$5.27	\$5.58	\$5.90	\$6.24	\$6.59	\$6.95	\$7.34	\$7.73	\$8.14	\$8.58	\$9.03	\$9.51	\$10.02	\$10.55
El Paso Electric Company	EE	\$2.03	\$2.17	\$2.32	\$2.49	\$2.66	\$2.85	\$3.04	\$3.23	\$3.43	\$3.64	\$3.84	\$4.04	\$4.26	\$4.49	\$4.72	\$4.98	\$5.24
Entergy Corporation	ETR	\$5.81	\$6.01	\$6.22	\$6.44	\$6.67	\$6.90	\$7.16	\$7.46	\$7.79	\$8.15	\$8.56	\$9.02	\$9.50	\$10.00	\$10.54	\$11.10	\$11.69
Eversource Energy	ES	\$2.76	\$2.93	\$3.12	\$3.32	\$3.52	\$3.75	\$3.98	\$4.21	\$4.46	\$4.71	\$4.97	\$5.23	\$5.51	\$5.80	\$6.11	\$6.44	\$6.78
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA MGEE	\$3.87 \$2.06	\$4.02 \$2.20	\$4.19 \$2.36	\$4.35 \$2.52	\$4.53 \$2.70	\$4.71 \$2.89	\$4.91 \$3.08	\$5.13 \$3.28	\$5.36 \$3.48	\$5.63 \$3.69	\$5.91 \$3.90	\$6.23 \$4.10	\$6.56 \$4.32	\$6.91 \$4.55	\$7.28 \$4.79	\$7.66 \$5.05	\$8.07 \$5.32
MGE Energy, Inc. NorthWestern Corporation	NWE	\$2.06	\$3.09	\$3.29	\$3.50	\$2.70	\$3.97	\$4.22	\$3.28 \$4.48	\$3.48 \$4.75	\$5.09	\$5.29	\$4.10 \$5.58	\$4.32 \$5.87	\$4.55 \$6.19	\$4.79 \$6.52	\$5.05 \$6.86	\$5.32 \$7.23
OGE Energy Corp.	OGE	\$1.69	\$1.78	\$1.87	\$1.97	\$2.07	\$2.18	\$2.29	\$2.41	\$2.54	\$2.67	\$2.81	\$2.96	\$3.12	\$3.29	\$3.46	\$3.65	\$3.84
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.08	\$4.24	\$4.41	\$4.59	\$4.77	\$4.97	\$5.19	\$5.43	\$5.70	\$5.99	\$6.31	\$6.64	\$7.00	\$7.37	\$7.76	\$8.18
PNM Resources, Inc.	PNM	\$1.64	\$1.79	\$1.95	\$2.12	\$2.31	\$2.52	\$2.73	\$2.95	\$3.16	\$3.37	\$3.57	\$3.76	\$3.95	\$4.17	\$4.39	\$4.62	\$4.87
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.32	\$2.47	\$2.63	\$2.80	\$2.98	\$3.17	\$3.35	\$3.55	\$3.74	\$3.94	\$4.15	\$4.37	\$4.61	\$4.85	\$5.11
SCANA Corporation	SCG WEC	\$3.81 \$2.34	\$4.02	\$4.23 \$2.67	\$4.46 \$2.85	\$4.70 \$3.04	\$4.96 \$3.25	\$5.22 \$3.46	\$5.50 \$3.68	\$5.80	\$6.11 \$4.12	\$6.43 \$4.35	\$6.78 \$4.59	\$7.14 \$4.83	\$7.52 \$5.09	\$7.92	\$8.34 \$5.64	\$8.78 \$5.94
Wisconsin Energy Corporation Xcel Energy Inc.	XEL	\$2.34	\$2.50 \$2.22	\$2.87	\$2.85 \$2.47	\$3.04	\$3.25 \$2.74	\$2.89	\$3.05	\$3.90 \$3.22	\$3.39	\$4.35	\$3.76	\$4.83 \$3.96	\$5.09 \$4.17	\$5.36 \$4.40	\$5.64 \$4.63	\$5.94 \$4.88
Acci Energy inc.	ALL	Ψ2.10	VZ.ZZ	Ψ2.04	Ψ211	Ψ2.00	Ψ2.74	ΨΣ.00	ψ0.00	Ψ0.22	ψ0.00	ψ0.01	ψ0.70	ψ0.00	ψ4.17	ψτ.τυ	ψ4.00	ψ4.00
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE I NT		66.00% 64.00%	65.25% 63.25%	64.50% 62.50%	63.75% 61.75%	63.00% 61.00%	63.65% 61.98%	64.29% 62.96%	64.94% 63.94%	65.59% 64.92%	66.23% 65.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Alliant Energy Corporation  Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.25%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company	DTE		63.00%	62.50%	62.00%	61.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	EE		59.00%	59.50%	60.00%	60.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Entergy Corporation	ETR ES		67.00% 60.00%	65.00% 59.50%	63.00% 59.00%	61.00% 58.50%	59.00% 58.00%	60.31% 59.48%	61.63% 60.96%	62.94% 62.44%	64.25% 63.92%	65.57% 65.40%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Eversource Energy FirstEnergy Corp.	FE		55.00%	53.25%	59.00% 51.50%	58.50% 49.75%	58.00% 48.00%	59.48% 51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp.	OGE		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR		80.00%	75.75%	71.50%	67.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM POR		51.00% 56.00%	52.00% 56.00%	53.00% 56.00%	54.00% 56.00%	55.00% 56.00%	56.98% 57.81%	58.96% 59.63%	60.94% 61.44%	62.92% 63.25%	64.90% 65.07%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Portland General Electric Company SCANA Corporation	SCG		59.00%	56.00% 59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation	WEC		68.00%	67.75%	67.50%	67.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%

			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
																			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.35	\$2.45	\$2.56	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$126.32
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.28	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$82.12
Ameren Corporation	AEE		\$1.72	\$1.80	\$1.88	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$106.39
American Electric Power Company, Inc.	AEP		\$2.41	\$2.56	\$2.71	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$138.62
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.30
CMS Energy Corporation	CMS		\$1.28	\$1.36	\$1.46	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$92.48
DTE Energy Company	DTE		\$2.97	\$3.11	\$3.27	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$199.00
El Paso Electric Company	EE		\$1.28	\$1.38	\$1.49	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$97.94
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$162.41
Eversource Energy	ES		\$1.76	\$1.86	\$1.96	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$122.04
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$75.89
IDACORP, Inc.	IDA		\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$159.89
MGE Energy, Inc.	MGEE		\$1.23	\$1.25	\$1.26	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$119.03
NorthWestern Corporation	NWE		\$2.01	\$2.09	\$2.17	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$128.54
OGE Energy Corp.	OGE		\$1.19	\$1.27	\$1.35	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$64.40
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$65.02
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$159.50
PNM Resources, Inc.	PNM		\$0.91	\$1.01	\$1.13	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$74.72
Portland General Electric Company	POR		\$1.22	\$1.30	\$1.38	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$91.48
SCANA Corporation	SCG		\$2.37	\$2.51	\$2.65	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$152.48
Wisconsin Energy Corporation	WEC		\$1.70	\$1.81	\$1.92	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$131.14
				\$1.46	\$1.54	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$89.91
Projected Annual Data	XEL	[64]	\$1.37						[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	1801	[81]
Xoel Energy Inc. Projected Annual Data Investor Cash Flows	XEL	[64] Initial	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Projected Annual Data Investor Cash Flows	Ticker	Initial Outflow	[65] 6/30/16	[66] 12/31/16	[67] 6/30/17	[68] 6/30/18	[69] 6/30/19	[70] 6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
Projected Annual Data Investor Cash Flows Company ALLETE, Inc.	Ticker ALE	Initial Outflow (\$59.67)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19	[67] 6/30/17 \$2.42	[68] 6/30/18 \$2.67	[69] 6/30/19 \$2.78	[70] 6/30/20 \$2.97	6/30/21 \$3.16	6/30/22 \$3.36	6/30/23 \$3.58	6/30/24 \$3.81	6/30/25 \$4.05	6/30/26 \$4.27	6/30/27 \$4.49	6/30/28 \$4.73	6/30/29 \$4.98	6/30/30 \$5.25	6/30/31 \$131.57
Projected Annual Data Investor Cash Flows Company ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT	Initial Outflow (\$59.67) (\$38.20)	[65] 6/30/16 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58	[67] 6/30/17 \$2.42 \$1.19	[68] 6/30/18 \$2.67 \$1.35	[69] 6/30/19 \$2.78 \$1.42	[70] 6/30/20 \$2.97 \$1.53	6/30/21 \$3.16 \$1.65	6/30/22 \$3.36 \$1.78	6/30/23 \$3.58 \$1.91	6/30/24 \$3.81 \$2.05	6/30/25 \$4.05 \$2.19	6/30/26 \$4.27 \$2.31	6/30/27 \$4.49 \$2.43	6/30/28 \$4.73 \$2.56	6/30/29 \$4.98 \$2.69	6/30/30 \$5.25 \$2.84	6/30/31 \$131.57 \$84.96
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	Ticker ALE LNT AEE	Initial Outflow (\$59.67) (\$38.20) (\$50.12)	[65] 6/30/16 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87	[67] 6/30/17 \$2.42 \$1.19 \$1.77	[68] 6/30/18 \$2.67 \$1.35 \$1.96	[69] 6/30/19 \$2.78 \$1.42 \$2.05	[70] 6/30/20 \$2.97 \$1.53 \$2.19	6/30/21 \$3.16 \$1.65 \$2.33	6/30/22 \$3.36 \$1.78 \$2.48	6/30/23 \$3.58 \$1.91 \$2.64	6/30/24 \$3.81 \$2.05 \$2.80	6/30/25 \$4.05 \$2.19 \$2.98	6/30/26 \$4.27 \$2.31 \$3.13	6/30/27 \$4.49 \$2.43 \$3.30	6/30/28 \$4.73 \$2.56 \$3.48	6/30/29 \$4.98 \$2.69 \$3.66	6/30/30 \$5.25 \$2.84 \$3.86	6/30/31 \$131.57 \$84.96 \$110.24
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.	Ticker ALE LNT AEE AEP	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP AVA	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05
Projected Annual Data Investor Cash Flows Company ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.38 \$1.32 \$3.05 \$1.33	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.38 \$1.32 \$3.05 \$1.33	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34)	[65]  6/30/16  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy Fisher Corp. IDACORP, Inc.	Ticker ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30)	[65]  6/30/16  \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60	[67]  6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27	[70] 6/30/20 \$2,97 \$1,53 \$2,19 \$3,21 \$1,61 \$1,80 \$3,87 \$1,88 \$4,32 \$2,36 \$1,71 \$3,00 \$1,47	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$5.270 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$6.09 \$3.88 \$3.40 \$4.62 \$3.04	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$7.82 \$4.54 \$3.97 \$5.40 \$3.50	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29 \$122.58
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Entergy Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$3.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$4.32 \$2.36 \$1.71 \$3.00	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.16	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc.  Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.  Avista Corporation  DTE Energy Corporation  DTE Energy Company  El Paso Electric Company  Entergy Corporation  Eversource Energy  FirstEnergy Corp.  IDACORP, Inc.  MGE Energy, Inc.  NorthWestern Corporation	Ticker ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30)	[65]  6/30/16  \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.60	[67]  6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27	[70] 6/30/20 \$2,97 \$1,53 \$2,19 \$3,21 \$1,61 \$1,80 \$3,87 \$1,88 \$4,32 \$2,36 \$1,71 \$3,00 \$1,47	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$5.270 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$7.82 \$4.54 \$3.97 \$5.40 \$3.50	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29 \$122.58
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corporation DACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30) (\$59.68)	[65]  6/30/16  \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.22	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$5.15 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74 \$3.73	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$5.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.49 \$3.58 \$4.49 \$3.58 \$4.49 \$3.58 \$4.49 \$3.58 \$4.41 \$4.4	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.05 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$3.56 \$4.83	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29 \$122.58 \$133.37
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation Ameren Corporation Company Austral Corporation Company Elergy Corporation DIE Energy Company Entergy Company Entergy Corporation Elevaso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. ModE Energy, Inc. NorthWestern Corporation OGE Energy Corp. OUTE Tail Corporation OGE Energy Corp. OUTE Tail Corporation OGE Energy Corp. OUTE Tail Corporation	Ticker ALE LNT AEE AEP AVA OMS DTE EE ETR ES FE IDA MGEE NWE OGE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$60.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$63.33) (\$74.50) (\$53.30) (\$59.68) (\$30.95)	[65]  6/30/16  \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.28 \$2.27 \$1.28	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.64 \$1.27 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.60 \$3.87 \$1.80 \$3.87 \$1.80 \$3.87 \$1.30 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.65 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.66	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22 \$1.81	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$3.93 \$2.89 \$3.09	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.53 \$4.54 \$2.57	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29 \$122.58 \$133.37 \$66.97
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation DTE Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy Finstenery Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. University Corp. Description DGE Energy Corp. DGE	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	Initial Outflow (\$59.67) (\$59.67) (\$59.67) (\$59.67) (\$50.12) (\$60.05) (\$41.65) (\$42.95) (\$42.95) (\$60.05) (\$50.33.34) (\$57.45) (\$56.36) (\$53.33) (\$59.68) (\$30.95) (\$53.09) (\$50.96)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.64 \$1.50 \$0.65 \$2.03 \$0.65 \$2.03 \$0.60 \$1.08 \$0.60 \$1.08 \$0.60 \$1.08 \$0.60 \$1.08 \$0.66 \$1.00 \$0.66 \$1.00 \$0.6	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18 \$1.28 \$1.28 \$1.36	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.33 \$1.32	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$3.67 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$1.32	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.69 \$1.69 \$1.50	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$2.78 \$2.27 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.22 \$1.81 \$1.71	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.73 \$3.89 \$2.46 \$3.47 \$1.90	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74 \$3.73 \$1.98 \$1.94	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.09 \$2.04	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83 \$2.57 \$2.57	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29 \$133.37 \$66.97 \$67.53
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. OGE Torporation OGE Torporation OGE Torporation OGE Torporation OTE Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PMM Resources, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$60.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$55.36) (\$55.	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32	[67] 6/30/17 \$2.42 \$1.17 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.28 \$2.07 \$1.22 \$3.05 \$1.25	[68] 6/30/18 \$2.67 \$1.36 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.32 \$2.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$2.17 \$2.23 \$1.23 \$1.25 \$1.52 \$3.31 \$1.52 \$3.31 \$1.52 \$3.31 \$1.52 \$3.31 \$1.52 \$3.31	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59 \$1.41 \$3.25	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.66 \$1.56 \$3.34	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60 \$3.58	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.22 \$1.81 \$1.71	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90 \$1.82 \$3.99	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74 \$3.73 \$1.98 \$1.94 \$4.22	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.09 \$2.09	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15 \$4.68	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$4.36 \$2.32 \$2.26 \$4.93	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$4.83 \$2.57 \$2.51 \$5.47	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.55 \$79.86 \$165.29 \$122.58 \$133.37 \$66.97 \$67.53
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc.  Alliant Energy Corporation Ameren Corporation Ameren Corporation Office Company El Paso Electric Power Company, Inc.  Avista Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. UDIT Tall Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PMM Resources, Inc. Portland General Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW	Initial Outflow (\$59.67) (\$59.67) (\$50.05) (\$50.05) (\$60.05) (\$41.65) (\$42.95) (\$92.91) (\$65.36) (\$77.45) (\$56.36) (\$73.30) (\$53.34) (\$74.50) (\$50.68) (\$30.95) (\$30.96) (\$75.82) (\$33.96)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.69 \$1.08 \$0.62 \$1.01 \$0.62 \$1.01 \$0.62 \$1.01 \$0.62 \$1.01 \$0.62 \$1.04 \$0.67 \$1.32	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$2.07 \$1.28 \$2.07 \$1.36 \$2.66 \$2.68 \$2.09 \$5.09 \$5.09 \$5.09 \$5.09 \$5.09	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.27 \$2.26 \$1.32 \$1.32 \$2.27 \$2.26 \$1.32	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$51.32 \$3.10 \$1.32	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.41 \$3.25 \$1.55 \$1.41	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.66 \$1.50 \$3.41 \$1.74	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.93 \$1.74 \$1.60 \$3.58 \$1.92	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.78 \$3.78 \$3.78 \$3.78	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.47 \$3.47 \$1.90 \$1.82 \$3.99 \$2.31	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$1.98 \$4.42 \$2.551	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$2.89 \$2.90 \$2.04 \$4.44 \$4.44 \$2.65	6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.80 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.62 \$2.20 \$2.15 \$4.68 \$2.79	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.32 \$2.22 \$2.26 \$4.93 \$2.93	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.24 \$2.38 \$5.19 \$3.24	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$7.82 \$4.54 \$3.57 \$5.40 \$3.56 \$4.83 \$2.57 \$2.51 \$5.47 \$3.50 \$3.50	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.29 \$122.58 \$133.37 \$66.97 \$67.53 \$143.96
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	Ticker ALE LNT AEE AVA CMS DTE EE EF IDA MGEE OGE OTE PNW PNM POR	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$45.30) (\$77.45) (\$55.30) (\$59.91) (\$45.30) (\$59.96) (\$53.34) (\$74.50) (\$59.96) (\$75.82) (\$30.95) (\$30.95) (\$30.95) (\$33.49) (\$41.86)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32 \$0.46	[67]  6/30/17  \$2.42  \$1.19  \$1.77  \$2.47  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$1.27 \$2.26 \$1.43 \$1.32 \$2.97 \$1.25 \$1.32 \$2.97 \$1.32 \$	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.33 \$1.52 \$1.52 \$1.52 \$1.52 \$1.52 \$1.52 \$1.53 \$	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59 \$1.41 \$3.25 \$1.59 \$1.59 \$1.59	6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.169 \$2.76 \$1.60 \$1.50 \$3.41 \$1.74 \$1.89	6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60 \$3.58 \$1.92 \$2.06	6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.61 \$2.49 \$3.63 \$2.19 \$3.22 \$1.81 \$1.71 \$3.78 \$2.12 \$2.24	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.82 \$3.99 \$2.31 \$2.44	6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$3.50 \$3.73 \$1.98 \$4.12 \$2.74 \$3.73 \$1.94 \$4.22 \$2.51 \$2.64	6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.04 \$4.44 \$2.65 \$2.78	6/30/27 \$4.49 \$2.43 \$3.30 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15 \$4.68 \$2.79 \$2.92	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26 \$4.93 \$2.93 \$3.08	6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19 \$3.09	6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.56 \$4.83 \$2.57 \$5.40 \$3.56 \$4.83 \$2.57 \$2.51 \$5.47 \$3.25 \$3.42	6/30/31 \$131.57 \$84.96 \$110.24 \$143.96 \$91.13 \$95.80 \$206.05 \$101.44 \$170.22 \$126.58 \$79.86 \$165.25 \$133.37 \$66.97 \$77.98 \$94.89

Projected Annual

# Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

Part
Company   Comp
ALLÉTE INC  ALE SOLO 5-5175 50976 40070 5070 5070 5070 5070 5070 5070 507
Allent Engrey Corporation   LNT   Staff   84   91   95   52   52   64   97   97   98   98   3-49   97   98   98   3-49   98   98   98   98   98   98   98
Amenic Departed Fore Company, Nr. AEE 5410 8 101. 0 201. 0
American Ecole Private Company, Inc. AEP 850.3 4.05% 4.07% 6.00% 5
Avalle Composition
DIE Femogricompany  PE \$44.0 6, 70% 7.00% 2.00% 5.00%
El Pasa Esteric Company  El S 446 60 70% 7 70% 2 90% 5 20% 5
Elmengy Coproration   ETR   \$76.55   NA   NA   \$3.07%   \$3.07%   \$3.07%   \$3.07%   \$3.07%   \$0.07%   \$0.00%   \$
Evensiourse Energy  Fig. \$34.24 M, N. N. N. N. O.O.W. 6.07W, 6.07
FileElberg (Orgon   FE   \$83,424   NA   NA   9,07%   9,07%   5,07%   5,07%   4,07%   6,00%   6,08%   10,00   10,09%   13,12   2,46   NA   MGE   10,000   10,000%   10,
MOE Energy Inc.  MOE Start Sta
North/Mesenders Corporation Note: \$9.99
OGE Energy Corp.  OGE \$2913 5 20% 4.30% 3.00% 5.20% 5.20% 5.20% 6.00% 70.00% 6.88% (st.00) 9.69% 15.74 2.96 Uniter Tal Corporation PWW \$73.65 4.00% 3.73% 4.00% 4.00% 5.32% 80.00% 6.30% 6.88% (st.00) 9.61% 15.84 3.55 4.00% 5.70% 10.00
Oller Tail Corporation OTTR \$29.44 NA 6.00% 6.00% 5.00% 6.00
Primade Vesta Capital Corporation   PNW   \$73.65   4.00%   8.73%   4.00%   5.23%   54.00%   60.0%   60.88%   10.00   9.04%   10.94   3.56   Profitant Company   PNM   \$32.65   4.00%   6.00%
PMM Resources, Inc.  PMM S322-94  7 60%  8 78%  8 78%  9 60%  8 78%  8 78%  9 60%  8 78%  9 60%  8 78%  8 7
SCANA Coporation SCG 899.22 5.30% 5.40% 4.50% 5.40% 6.32% 590.0% 60.00% 60.80% (aco.) 9.49% 16.92 3.18 Welconsine Energy Corporation XEL 941.15 5.30% 5.27% 5.50% 5.50% 5.50% 6.30% 67.00% 63.80% (aco.) 9.24% 17.07 3.38  ***MAX 10.99%** ***
Wisconsin Energy Corporation   WEC   \$99.3   6.30%   6.77%   6.00%   6.77%   6.32%   68.00%   68.89%   gio.com   2.47%   7.27%   7.28%   7.2
Xeel Energy Inc.
Projected Annual   Earnings per Share
Projected Annual Earnings per Share   [14]
Earnings per Share  [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [3  Company Ticker 2016 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 20  ALE Es Inc.  ALE Sh.338 55.75 83.76 83.07 \$4.19 \$4.42 \$4.66 \$4.07 \$1.81 \$1.81 \$5.18 \$5.66 \$5.75 \$6.66 \$5.75 \$6.06 \$5.75 \$6.07 \$7.45 \$7.7 \$4.19 \$7.41 \$4.27 \$4.07 \$4
Earnings per Share    144   [15]   16   177   18   19   201   201   201   22   23   24   25   26   27   28   29   19   20   20   20   20   20   20   20   2
Earmings per Share    144   159   166   177   178   179   120   120   120   121   122   123   124   125   126   127   128   129   12   120
Company   Ticker   2015   2016   2017   2018   2019   2020   2021   2022   2023   2024   2025   2026   2027   2028   2029   2030   20
ALLET Inc.  ALE \$3.38 \$3.57 \$3.76 \$3.97 \$4.19 \$4.42 \$4.66 \$4.91 \$5.18 \$5.46 \$5.75 \$6.06 \$6.38 \$6.72 \$7.07 \$7.45 \$7.  Alleta Einery Corporation  LNT \$1.69 \$1.60 \$1.92 \$2.05 \$2.16 \$2.33 \$2.45 \$2.35 \$2.68 \$2.78 \$2.94 \$2.63 \$2.75 \$2.79 \$2.94 \$2.15 \$2.33 \$2.45 \$4.55 \$4.60 \$4.94 \$5.20 \$5.47 \$5.  American Electric Power Company, Inc.  AEE \$2.38 \$2.58 \$2.58 \$2.56 \$3.20 \$3.20 \$3.20 \$3.20 \$3.39 \$3.59 \$3.79 \$4.01 \$4.22 \$4.45 \$4.69 \$4.94 \$5.20 \$5.47 \$5.  Avista Corporation  CMS \$1.89 \$1.98 \$1.98 \$2.08 \$2.19 \$2.30 \$2.41 \$2.25 \$3.26 \$6.52 \$2.55 \$5.56 \$5.65 \$6.16 \$6.49 \$6.84 \$7.20 \$5.75 \$7.59 \$7.59 \$7.  Avista Corporation  CMS \$1.89 \$1.98 \$1.98 \$2.08 \$2.19 \$2.30 \$2.41 \$2.25 \$3.26 \$6.52 \$2.55 \$5.56 \$5.60 \$6.84 \$7.20 \$3.44 \$3.62 \$3.82 \$4.00 \$4.41 \$4.50 \$4.71 \$4.99 \$5.27 \$5.28 \$2.56 \$2.50 \$5.24 \$8.25 \$3.10 \$3.27 \$3.44 \$3.82 \$3.82 \$4.00 \$4.41 \$4.71 \$4.99 \$5.27 \$5.28 \$2.26 \$2.25 \$3.10 \$2.25 \$3.25 \$3.40 \$3.84 \$3.83 \$4.03 \$4.45 \$4.75 \$4.71 \$4.99 \$5.27 \$5.28 \$2.48 \$2.28 \$3.20 \$3.24 \$3.25 \$3.44 \$3.62 \$3.82 \$4.00 \$4.41 \$4.75 \$4.00 \$4.0
Allant Energy Corporation  AEE \$2.38 \$2.58 \$2.58 \$2.68 \$2.75 \$2.40 \$3.11 \$3.27 \$3.45 \$3.63 \$3.82 \$4.00
American Electric Power Company, Inc.  AEE \$2.38 \$2.53 \$2.88 \$2.53 \$2.88 \$2.44 \$3.02 \$3.30 \$3.30 \$3.59 \$3.79 \$3.07 \$4.01 \$4.22 \$4.45 \$4.69 \$4.94 \$5.20 \$5.47 \$5.37 \$3.44 \$3.62 \$3.26
Avista Corporation   AVA
CMS Energy Corporation  CMS \$1.89 \$2.03 \$2.17 \$2.33 \$2.50 \$2.68 \$2.67 \$3.06 \$3.25 \$3.44 \$3.64 \$3.83 \$4.03 \$4.25 \$4.47 \$4.17 \$4.95 \$1.07 \$4.45 \$4.07 \$4.17 \$4.95 \$1.07 \$4.45 \$4.07 \$4.17 \$4.95 \$1.07 \$4.45 \$4.07 \$4.17 \$4.95 \$1.07 \$4.45 \$4.07 \$4.17 \$4.95 \$1.07 \$4.45 \$4.07 \$4
DTE Energy Company  DTE S4.45 84.71 84.98 85.27 \$5.58 \$5.90 \$6.24 \$6.69 \$6.95 \$7.74 \$7.73 \$8.14 \$8.95 \$9.03 \$9.61 \$10.02 \$10.05
El Paso Electric Company  EE \$2.03 \$2.17 \$2.32 \$2.49 \$2.66 \$2.95 \$3.04 \$3.23 \$3.42 \$3.64 \$3.84 \$4.04 \$4.26 \$4.49 \$4.72 \$4.98 \$5.55 Entergy Corporation  ETR \$5.81 \$6.01 \$6.22 \$6.44 \$6.67 \$6.90 \$7.16 \$7.76 \$7.76 \$7.98 \$1.15 \$8.65 \$9.02 \$9.50 \$1.00 \$7.16 \$4.11 \$4.97 \$8.15 \$4.00 \$4.95
Entergy Corporation S
Eversource Energy ES \$2.76 \$2.93 \$3.12 \$3.32 \$3.52 \$3.75 \$3.98 \$4.21 \$4.46 \$4.71 \$4.97 \$5.23 \$5.51 \$5.80 \$6.11 \$6.4 \$6. FirstEnergy Corp. FE \$2.00 \$2.18 \$2.38 \$2.38 \$2.38 \$2.28 \$2.28 \$3.08 \$3.34 \$3.5.9 \$3.85 \$4.10 \$4.35 \$4.62 \$5.06 \$5.35 \$5.63 \$5.51 \$5.80 \$6.51 \$7.28 \$7.66 \$8. \$10ACORP. Inc.  IDA \$3.87 \$4.02 \$4.19 \$4.35 \$4.53 \$4.71 \$4.91 \$5.53 \$5.13 \$5.36 \$5.63 \$5.51 \$6.65 \$6.91 \$7.28 \$7.66 \$8. \$10ACORP. Inc.  MGE Energy Inc.  MGE Es \$2.00 \$2.20 \$2.30 \$2.25 \$2.70 \$2.18 \$4.93 \$5.13 \$5.36 \$5.63 \$5.51 \$6.52 \$5.70 \$6.58 \$6.55 \$6.52 \$5.70 \$6.50
IDACORF_Inc.   IDA
MGEE \$2.06 \$2.20 \$2.36 \$2.52 \$2.70 \$2.89 \$3.08 \$3.28 \$3.48 \$3.69 \$3.90 \$4.10 \$4.32 \$4.55 \$4.79 \$5.05 \$5.00 \$5.00 \$5.00 \$5.00 \$5.20 \$5.30 \$3.50 \$3.50 \$3.50 \$3.50 \$3.20 \$3.29 \$5.44 \$4.8 \$4.75 \$5.02 \$5.52 \$5.52 \$5.58 \$5.87 \$5.07 \$5.00 \$5
NorthWestern Corporation NVE \$2.90 \$3.09 \$3.29 \$3.50 \$3.73 \$3.97 \$4.22 \$4.48 \$4.75 \$5.02 \$5.29 \$5.58 \$5.87 \$6.19 \$6.25 \$6.86 \$7.00 \$6.20 \$6.169 \$1.78 \$1.87 \$1.97 \$2.07 \$2.18 \$2.29 \$2.41 \$2.54 \$2.67 \$2.81 \$2.96 \$3.12 \$3.29 \$3.46 \$3.65 \$3.00 \$1.78 \$1.86 \$1.75 \$1.86 \$1.97 \$2.09 \$2.11 \$2.34 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.65 \$3.00 \$1.78 \$1.86 \$1.75 \$1.86 \$1.75 \$1.86 \$1.97 \$2.09 \$2.21 \$2.34 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.55 \$3.00 \$1.79 \$1.90 \$1.95 \$1.90 \$2.09 \$2.11 \$2.34 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.55 \$3.50 \$3.21 \$3.28 \$3.85 \$3.55 \$3.70 \$3.99 \$3.21 \$3.28 \$3.80 \$3.25 \$3.25 \$3.20
OGE Energy Cop. OGE \$1.69 \$1.78 \$1.87 \$1.97 \$2.07 \$2.18 \$2.29 \$2.41 \$2.54 \$2.67 \$2.81 \$2.96 \$3.12 \$3.29 \$3.46 \$3.65 \$3.00 tter Tail Corporation OTTR \$1.56 \$1.65 \$1.75 \$1.86 \$1.97 \$2.09 \$2.21 \$2.34 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.56 \$3.90 Finnace West Capital Corporation PNW \$3.92 \$4.08 \$4.24 \$4.41 \$4.59 \$4.77 \$4.97 \$5.19 \$5.19 \$5.19 \$5.13 \$5.70 \$5.99 \$6.31 \$6.64 \$7.00 \$7.37 \$7.76 \$8.8 PMR Resources, Inc. PNM \$1.64 \$1.79 \$1.95 \$2.12 \$2.31 \$2.52 \$2.73 \$2.95 \$3.16 \$3.37 \$3.57 \$3.76 \$3.95 \$4.17 \$4.39 \$4.62 \$4.80 \$
Other Tail Corporation OTTR \$1.56 \$1.65 \$1.65 \$1.75 \$1.86 \$1.975 \$1.75 \$1.86 \$1.975 \$2.09 \$2.21 \$2.21 \$2.21 \$2.21 \$2.21 \$2.26 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.56 \$3.21 \$3.38 \$3.56 \$3.21 \$3.38 \$3.56 \$3.21 \$3.38 \$3.56 \$3.21 \$3.38 \$3.56 \$3.21 \$3.32 \$3.25 \$3.40 \$3.24 \$3.24 \$3.24 \$3.24 \$3.24 \$3.24 \$3.25
Pinnacle West Capital Corporation
Portland General Electric Company
SCANA Corporation SCG \$3.81 \$4.02 \$4.23 \$4.46 \$4.70 \$4.96 \$5.22 \$5.50 \$5.80 \$6.11 \$6.43 \$6.78 \$7.14 \$7.52 \$7.92 \$8.34 \$8. Wisconsin Energy Corporation WEC \$2.34 \$2.50 \$2.67 \$2.85 \$3.04 \$3.25 \$3.46 \$3.58 \$3.90 \$4.12 \$4.35 \$4.55 \$4.59 \$4.83 \$5.09 \$5.36 \$5.64 \$5.5 \$5.00 \$5.00 \$6.00 \$6.00 \$6.25 \$6
Wisconsin Energy Corporation         WEC         \$2.34         \$2.50         \$2.67         \$2.85         \$3.04         \$3.25         \$3.46         \$3.88         \$3.90         \$4.12         \$4.35         \$4.89         \$4.83         \$5.09         \$5.36         \$5.64         \$5.           Xcel Energy Inc.         XEL         \$2.10         \$2.22         \$2.34         \$2.47         \$2.60         \$2.74         \$2.89         \$3.05         \$3.22         \$3.39         \$3.57         \$3.76         \$3.96         \$4.17         \$4.40         \$4.63         \$4.           Projected Annual Dividend Payout Ratic         [31]         [32]         [33]         [34]         [35]         [36]         [37]         [38]         [39]         [40]         [41]         [42]         [43]         [44]         [45]         [4           Company         Ticker         2016         2017         2018         2019         2020         2021         2022         2023         2024         2025         2026         2027         2028         2029         2030         20           Allient Energy Corporation         LNT         64.00%         63.25%         64.50%         63.05%         64.00%         64.94%         65.99%
Xel   \$2.10   \$2.22   \$2.34   \$2.47   \$2.60   \$2.74   \$2.89   \$3.05   \$3.22   \$3.39   \$3.57   \$3.76   \$3.96   \$4.17   \$4.40   \$4.63   \$4.47   \$4.60   \$4.60
Projected Annual Dividend Payout Ratic [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [44] [45] [47] [47] [48] [48] [48] [48] [48] [48] [48] [48
Dividend Payout Ratic   [31]   [32]   [33]   [34]   [35]   [36]   [37]   [38]   [39]   [40]   [41]   [42]   [43]   [44]   [45]   [44]   [45]
Dividend Payout Ratic   [31]   [32]   [33]   [34]   [35]   [36]   [37]   [38]   [39]   [40]   [41]   [42]   [43]   [44]   [45]   [44]   [45]
Company Ticker 2016 2017 2018 2019 202 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 20 ALLETE, Inc. ALE 66.00% 65.25% 64.50% 63.75% 63.00% 63.65% 64.29% 64.94% 65.59% 66.23% 66.88
ALLÉTÉ, Inc.  ALE 66.00% 65.25% 64.00% 63.75% 63.00% 63.65% 64.29% 64.94% 65.59% 66.23% 66.88
Alliant Energy Corporation  LNT  64.00% 63.25% 62.50% 61.00% 61.00% 61.40% 62.96% 62.96% 63.94% 64.92% 65.90% 66.88% 66.8
American Electric Power Company, Inc. AEP 64.00% 67.00% 66.00% 66.25% 66
American Electric Power Company, Inc.         AEP         64.00%         64.75%         65.50%         66.25%         67.00%         66.98%         66.98%         66.94%         66.90%         66.88%         66.
CMS Energy Corporation CMS 63.00% 62.75% 62.50% 62.25% 62.00% 62.81% 63.63% 64.44% 65.25% 66.07% 66.88% 66.
DTE Energy Company DTE 63.00% 62.50% 62.00% 61.50% 61.00% 61.98% 62.96% 63.94% 64.92% 65.90% 66.88%
El Paso Electric Company EE 59.00% 59.50% 60.00% 60.50% 61.00% 61.98% 62.96% 63.94% 64.92% 65.90% 66.88% 66
Entergy Corporation ETR 67.00% 65.00% 63.00% 61.00% 59.00% 60.31% 61.63% 62.94% 64.25% 65.57% 66.88%
Lessoutice Literary 5.3 50.00% 35.35% 35.00% 35.35% 48.00% 51.15% 54.29% 57.44% 60.59% 63.73% 66.88%
IDACORP, Inc.   IDA
MGE Energy, Inc. MGEE 56.00% 53.00% 50.00% 47.00% 44.00% 47.81% 51.63% 55.44% 59.25% 63.07% 66.88% 6
NorthWestern Corporation NWE 65.00% 63.50% 62.00% 60.50% 59.00% 60.31% 61.63% 62.94% 64.25% 65.57% 66.88% 6
OGE Energy Corp. OGE 67.00% 67.75% 68.50% 69.25% 70.00% 69.48% 68.96% 68.44% 67.92% 67.40% 66.88% 66
Otter Tail Corporation OTTR 80.00% 75.75% 71.50% 67.25% 63.00% 63.65% 64.29% 64.94% 65.59% 66.23% 66.88% 66
Pinnacle West Capital Corporation PNW 64.00% 64.25% 64.50% 64.50% 64.50% 65.00% 65.31% 65.63% 65.94% 66.25% 66.57% 66.88%
Frini resources, iii. Fring 51.00% 52.00% 55.00% 56.00% 56.00% 56.00% 57.81% 59.63% 61.44% 63.25% 65.07% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.80% 66
Formation General Electric Company FOR 50.00% 50.00

Projected Annual																		., . u	gc 10
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
			- ' '						,							,			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.35	\$2.45	\$2.56	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$120.72
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.28	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$78.72
Ameren Corporation	AEE		\$1.72	\$1.80	\$1.88	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$103.73
American Electric Power Company, Inc.	AEP		\$2.41	\$2.56	\$2.71	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$136.43
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$85.75
CMS Energy Corporation	CMS		\$1.28	\$1.36	\$1.46	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$89.76
DTE Energy Company	DTE		\$2.97	\$3.11	\$3.27	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$192.52
El Paso Electric Company	EE		\$1.28	\$1.38	\$1.49	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$96.34
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$160.45
Eversource Energy	ES		\$1.76	\$1.86	\$1.96	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$122.53
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$77.84
IDACORP, Inc.	IDA		\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$157.91
MGE Energy, Inc.	MGEE		\$1.23	\$1.25	\$1.26	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$114.84
NorthWestern Corporation	NWE		\$2.01	\$2.09	\$2.17	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$128.33
OGE Energy Corp.	OGE		\$1.19	\$1.27	\$1.35	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$60.47
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$61.72
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$154.81
PNM Resources, Inc.	PNM		\$0.91	\$1.01	\$1.13	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$73.52
Portland General Electric Company	POR		\$1.22	\$1.30	\$1.38	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$87.95
SCANA Corporation	SCG		\$2.37	\$2.51	\$2.65	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$148.58
Wisconsin Energy Corporation	WEC		\$1.70	\$1.81	\$1.92	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$126.47
Xcel Energy Inc.	XEL		\$1.37	\$1.46	\$1.54	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$87.64
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Initial Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$57.08)	\$0.00	\$1.19	\$2.42	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$125.97
Alliant Energy Corporation	LNT	(\$36.64)	\$0.00	\$0.58	\$1.19	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$81.56
Ameren Corporation	AEE	(\$48.90)	\$0.00	\$0.87	\$1.77	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$107.59
American Electric Power Company, Inc.	AEP	(\$65.03)	\$0.00	\$1.21	\$2.47	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$141.77
Avista Corporation	AVA	(\$40.48)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.58
CMS Energy Corporation	CMS	(\$41.70)	\$0.00	\$0.64	\$1.32	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$93.08
DTE Energy Company	DTE	(\$89.93)	\$0.00	\$1.50	\$3.05	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$199.58
El Paso Electric Company	EE	(\$44.56)	\$0.00	\$0.65	\$1.33	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$99.84
Entergy Corporation	ETR	(\$76.55)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$168.27
Eversource Energy	ES	(\$56.58)	\$0.00	\$0.89	\$1.82	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$127.06
FirstEnergy Corp.	FE	(\$34.24)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$81.81
IDACORP, Inc.	IDA	(\$73.58)	\$0.00	\$1.08	\$2.18	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$163.30
MGE Energy, Inc.	MGEE	(\$51.38)	\$0.00	\$0.62	\$1.28	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$118.40
NorthWestern Corporation	NWE	(\$59.59)	\$0.00	\$1.01	\$2.07	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$133.16
OGE Energy Corp.	OGE	(\$29.13)	\$0.00	\$0.60	\$1.22	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$63.04
Otter Tail Corporation	OTTR	(\$29.44)	\$0.00	\$0.67	\$1.36	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$64.23
Pinnacle West Capital Corporation	PNW	(\$73.65)	\$0.00	\$1.32	\$2.66	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$160.28
PNM Resources, Inc.	PNM	(\$32.94)	\$0.00	\$0.46	\$0.95	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$76.78
Portland General Electric Company	POR	(\$40.24)	\$0.00	\$0.61	\$1.26	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$91.37
SCANA Corporation	SCG	(\$69.22)	\$0.00	\$1.19	\$2.43	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$154.46
Wisconsin Energy Corporation	WEC	(\$59.53)	\$0.00	\$0.86	\$1.76	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$130.44
	XEL		\$0.00	\$0.69	\$1.41	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79		\$3.10	\$3.26	\$90.90
Xcel Energy Inc.		(\$41.15)														\$2.94			

### Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2] EF	[3] PS Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Rati	[9] o	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						High	_											
ALLETE, Inc.	Ticker ALE	Price \$54.07	Zacks 5.50%	First Call 5.00%	Value Line 4.00%	Growth 5.50%	Growth 5.32%	2016 66.00%	2020 63.00%	2026 66.88%	Proof \$0.00	IRR 10.16%	P/E Ratio 14.55	PEG Ratio 2.73				
Alliant Energy Corporation	LNT	\$33.83	6.10%	6.60%	6.00%	6.60%	5.32%	64.00%	61.00%	66.88%	(\$0.00)	9.44%	17.12	3.22				
Ameren Corporation	AEE	\$46.40	6.10%	5.20%	6.00%	6.10%	5.32%	68.00%	64.00%	66.88%	(\$0.00)	9.45%	17.05	3.20				
American Electric Power Company, Inc.	AEP	\$61.54	4.90%	4.10%	4.00%	4.90%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	9.69%	16.14	3.03				
Avista Corporation	AVA	\$37.83	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	(\$0.00)	9.05%	18.89	3.55				
CMS Energy Corporation	CMS DTF	\$39.10 \$85.80	6.40% 5.80%	7.24% 5.35%	6.00% 5.00%	7.24% 5.80%	5.32% 5.32%	63.00% 63.00%	62.00% 61.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.48% 9.37%	16.96 17.39	3.19 3.27				
DTE Energy Company El Paso Electric Company	EE	\$41.72	6.70%	7.00%	2.50%	7.00%	5.32%	59.00%	61.00%	66.88%	(\$0.00)	9.42%	17.39	3.23				
Entergy Corporation	ETR	\$72.44	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	10.75%	12.97	2.44				
Eversource Energy	ES	\$54.15	6.30%	5.49%	6.00%	6.30%	5.32%	60.00%	58.00%	66.88%	(\$0.00)	9.40%	17.29	3.25				
FirstEnergy Corp.	FE	\$33.04	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	(\$0.00)	10.88%	12.67	2.38				
IDACORP, Inc.	IDA MGEE	\$70.82 \$48.29	4.00% NA	4.00% 4.00%	3.00% 7.00%	4.00% 7.00%	5.32% 5.32%	53.00% 56.00%	60.00% 44.00%	66.88% 66.88%	(\$0.00) (\$0.00)	9.06% 8.79%	18.82 20.33	3.54 3.82				
MGE Energy, Inc. NorthWestern Corporation	NWE	\$57.21	5.00%	5.00%	6.50%	6.50%	5.32%	65.00%	59.00%	66.88%	(\$0.00)	9.46%	17.04	3.20				
OGE Energy Corp.	OGE	\$27.72	5.20%	4.30%	3.00%	5.20%	5.32%	67.00%	70.00%	66.88%	(\$0.00)	10.03%	14.95	2.81				
Otter Tail Corporation	OTTR	\$28.18	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	(\$0.00)	9.80%	15.72	2.95				
Pinnacle West Capital Corporation	PNW	\$69.12	4.00%	3.73%	4.00%	4.00%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	9.29%	17.73	3.33				
PNM Resources, Inc. Portland General Electric Company	PNM POR	\$31.32 \$38.74	7.60% 6.40%	8.76% 6.57%	9.00% 5.50%	9.00% 6.57%	5.32% 5.32%	51.00% 56.00%	55.00% 56.00%	66.88% 66.88%	\$0.00 (\$0.00)	10.22% 9.57%	14.38 16.57	2.70 3.11				
SCANA Corporation	SCG	\$64.86	5.30%	5.40%	4.50%	5.40%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	9.77%	15.84	2.98				
Wisconsin Energy Corporation	WEC	\$55.89	6.30%	6.77%	6.00%	6.77%	5.32%	68.00%	67.00%	66.88%	(\$0.00)	8.85%	19.95	3.75				
Xcel Energy Inc.	XEL	\$38.85	5.30%	5.27%	5.50%	5.50%	5.32%	62.00%	63.00%	66.88%	(\$0.00)	9.48%	16.95	3.19				
											MEAN	9.61%						
											MAX MIN	10.88% 8.79%						
											IVIIN	0.19%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.57	\$3.76	\$3.97	\$4.19	\$4.42	\$4.66	\$4.91	\$5.18	\$5.46	\$5.75	\$6.06	\$6.38	\$6.72	\$7.07	\$7.45	\$7.85
Alliant Energy Corporation	LNT	\$1.69	\$1.80	\$1.92	\$2.05	\$2.18	\$2.33	\$2.47	\$2.63	\$2.78	\$2.94	\$3.11	\$3.27	\$3.45	\$3.63	\$3.82	\$4.03	\$4.24
American Electric Power Company, Inc.	AEE AEP	\$2.38 \$3.59	\$2.53 \$3.77	\$2.68 \$3.95	\$2.84 \$4.14	\$3.02 \$4.35	\$3.20 \$4.56	\$3.39 \$4.79	\$3.59 \$5.03	\$3.79 \$5.29	\$4.01 \$5.56	\$4.22 \$5.85	\$4.45 \$6.16	\$4.69 \$6.49	\$4.94 \$6.84	\$5.20 \$7.20	\$5.47 \$7.58	\$5.77 \$7.99
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$4.79 \$2.53	\$2.66	\$2.80	\$2.50 \$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.03	\$2.17	\$2.33	\$2.50	\$2.68	\$2.87	\$3.06	\$3.25	\$3.44	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
DTE Energy Company	DTE	\$4.45	\$4.71	\$4.98	\$5.27	\$5.58	\$5.90	\$6.24	\$6.59	\$6.95	\$7.34	\$7.73	\$8.14	\$8.58	\$9.03	\$9.51	\$10.02	\$10.55
El Paso Electric Company	EE	\$2.03	\$2.17	\$2.32	\$2.49	\$2.66	\$2.85	\$3.04	\$3.23	\$3.43	\$3.64	\$3.84	\$4.04	\$4.26	\$4.49	\$4.72	\$4.98	\$5.24
Entergy Corporation	ETR ES	\$5.81 \$2.76	\$6.01 \$2.93	\$6.22 \$3.12	\$6.44 \$3.32	\$6.67 \$3.52	\$6.90 \$3.75	\$7.16 \$3.98	\$7.46 \$4.21	\$7.79 \$4.46	\$8.15 \$4.71	\$8.56 \$4.97	\$9.02 \$5.23	\$9.50 \$5.51	\$10.00 \$5.80	\$10.54 \$6.11	\$11.10 \$6.44	\$11.69 \$6.78
Eversource Energy FirstEnergy Corp.	FF F	\$2.76	\$2.93	\$2.38	\$2.59	\$2.82	\$3.75 \$3.08	\$3.34	\$4.21	\$3.85	\$4.71 \$4.10	\$4.97 \$4.35	\$5.23 \$4.58	\$5.51 \$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.02	\$4.19	\$4.35	\$4.53	\$4.71	\$4.91	\$5.13	\$5.36	\$5.63	\$5.91	\$6.23	\$6.56	\$6.91	\$7.28	\$7.66	\$8.07
MGE Energy, Inc.	MGEE	\$2.06	\$2.20	\$2.36	\$2.52	\$2.70	\$2.89	\$3.08	\$3.28	\$3.48	\$3.69	\$3.90	\$4.10	\$4.32	\$4.55	\$4.79	\$5.05	\$5.32
NorthWestern Corporation	NWE	\$2.90	\$3.09	\$3.29	\$3.50	\$3.73	\$3.97	\$4.22	\$4.48	\$4.75	\$5.02	\$5.29	\$5.58	\$5.87	\$6.19	\$6.52	\$6.86	\$7.23
OGE Energy Corp.	OGE OTTR	\$1.69 \$1.56	\$1.78 \$1.65	\$1.87 \$1.75	\$1.97 \$1.86	\$2.07 \$1.97	\$2.18	\$2.29 \$2.21	\$2.41 \$2.34	\$2.54 \$2.47	\$2.67 \$2.61	\$2.81 \$2.75	\$2.96 \$2.90	\$3.12 \$3.05	\$3.29 \$3.21	\$3.46	\$3.65 \$3.56	\$3.84 \$3.75
Otter Tail Corporation Pinnacle West Capital Corporation	PNW	\$3.92	\$4.08	\$1.75 \$4.24	\$4.41	\$1.97	\$2.09 \$4.77	\$4.97	\$2.34 \$5.19	\$2.47 \$5.43	\$5.70	\$2.75 \$5.99	\$2.90 \$6.31	\$6.64	\$7.00	\$3.38 \$7.37	\$3.56 \$7.76	\$3.75 \$8.18
PNM Resources, Inc.	PNM	\$1.64	\$1.79	\$1.95	\$2.12	\$2.31	\$2.52	\$2.73	\$2.95	\$3.16	\$3.37	\$3.57	\$3.76	\$3.95	\$4.17	\$4.39	\$4.62	\$4.87
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.32	\$2.47	\$2.63	\$2.80	\$2.98	\$3.17	\$3.35	\$3.55	\$3.74	\$3.94	\$4.15	\$4.37	\$4.61	\$4.85	\$5.11
SCANA Corporation	SCG	\$3.81	\$4.02	\$4.23	\$4.46	\$4.70	\$4.96	\$5.22	\$5.50	\$5.80	\$6.11	\$6.43	\$6.78	\$7.14	\$7.52	\$7.92	\$8.34	\$8.78
Wisconsin Energy Corporation	WEC XEL	\$2.34 \$2.10	\$2.50 \$2.22	\$2.67 \$2.34	\$2.85 \$2.47	\$3.04 \$2.60	\$3.25 \$2.74	\$3.46 \$2.89	\$3.68 \$3.05	\$3.90 \$3.22	\$4.12 \$3.39	\$4.35 \$3.57	\$4.59 \$3.76	\$4.83 \$3.96	\$5.09 \$4.17	\$5.36 \$4.40	\$5.64 \$4.63	\$5.94 \$4.88
Xcel Energy Inc.	ΛEL	\$2.10	\$2.22	\$2.34	φ2.4 <i>1</i>	\$2.00	<b>Φ2.74</b>	<b>Ф</b> 2.09	\$3.03	\$3.22	<b>Φ</b> 3.39	\$3.37	\$3.70	\$3.90	\$4.17	\$4.40	ψ <del>4</del> .03	\$4.00
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE I NT		66.00% 64.00%	65.25% 63.25%	64.50% 62.50%	63.75% 61.75%	63.00% 61.00%	63.65% 61.98%	64.29% 62.96%	64.94% 63.94%	65.59% 64.92%	66.23% 65.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Alliant Energy Corporation  Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.25%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company	DTE		63.00%	62.50%	62.00%	61.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company Entergy Corporation	EE ETR		59.00% 67.00%	59.50% 65.00%	60.00% 63.00%	60.50% 61.00%	61.00% 59.00%	61.98% 60.31%	62.96% 61.63%	63.94% 62.94%	64.92% 64.25%	65.90% 65.57%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE OGF		65.00% 67.00%	63.50% 67.75%	62.00% 68.50%	60.50% 69.25%	59.00% 70.00%	60.31% 69.48%	61.63% 68.96%	62.94% 68.44%	64.25% 67.92%	65.57% 67.40%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
OGE Energy Corp. Otter Tail Corporation	OGE		67.00% 80.00%	67.75% 75.75%	68.50% 71.50%	69.25% 67.25%	70.00% 63.00%	69.48% 63.65%	68.96% 64.29%	68.44% 64.94%	67.92% 65.59%	67.40% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM		51.00%	52.00%	53.00%	54.00%	55.00%	56.98%	58.96%	60.94%	62.92%	64.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL		68.00% 62.00%	67.75% 62.25%	67.50% 62.50%	67.25% 62.75%	67.00% 63.00%	66.98% 63.65%	66.96% 64.29%	66.94% 64.94%	66.92% 65.59%	66.90% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Aloo, Energy Inc.	ALL		UE.00 /0	UZ.ZJ/0	UE.UU/0	UL.1 U /0	00.0078	00.00/0	UT.43/0	UT.34 /0	00.0370	00.2070	00.0070	00.0070	UU.UU /6	00.0070	00.00 /0	JU.JU /0

Projected Annual																			
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
				,					Ų7			17	1. 7			,		1. 1	Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.35	\$2.45	\$2.56	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$114.20
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.28	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$72.63
Ameren Corporation	AEE		\$1.72	\$1.80	\$1.88	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$98.31
American Electric Power Company, Inc.	AEP		\$2.41	\$2.56	\$2.71	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$128.86
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$80.01
CMS Energy Corporation	CMS		\$1.28	\$1.36	\$1.46	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$84.13
DTE Energy Company	DTE		\$2.97	\$3.11	\$3.27	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$183.56
El Paso Electric Company	EE		\$1.28	\$1.38	\$1.49	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$90.17
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$151.57
Eversource Energy	ES		\$1.76	\$1.86	\$1.96	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$117.24
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$75.22
IDACORP, Inc.	IDA		\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$151.91
MGE Energy, Inc.	MGEE		\$1.23	\$1.25	\$1.26	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$108.10
NorthWestern Corporation	NWE		\$2.01	\$2.09	\$2.17	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$123.17
OGE Energy Corp.	OGE		\$1.19	\$1.27	\$1.35	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$57.42
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$58.99
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.97	\$3.10	\$3.25	\$3,41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$144.97
PNM Resources, Inc.	PNM		\$0.91	\$1.01	\$1.13	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$70.00
Portland General Electric Company	POR		\$1.22	\$1.30	\$1.38	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$84.68
SCANA Corporation	SCG		\$2.37	\$2.51	\$2.65	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$139.12
Wisconsin Energy Corporation	WEC		\$1.70	\$1.81	\$1.92	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$118.57
						\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$82.66
Xcel Energy Inc.  Projected Annual Data	XEL		\$1.37	\$1.46	\$1.54	\$1.03	ψ1.73	\$1.04	\$1.50	Ψ2.00	ΨΣ.ΣΣ	<del></del>	ΨΣ.02	7-13-0	7	7-12		75.25	70-100
Xcel Energy Inc.  Projected Annual Data Investor Cash Flows	XEL	[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Projected Annual Data	XEL	[64] Initial Outflow																	
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc.	Ticker ALE	Initial Outflow (\$54.07)	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74] 6/30/24 \$3.81	[75] 6/30/25 \$4.05	[76]	[77]	[78]	[79] 6/30/29 \$4.98	[80] 6/30/30 \$5.25	[81]
Projected Annual Data Investor Cash Flows	Ticker ALE LNT	Initial Outflow (\$54.07) (\$33.83)	[65] 6/30/16 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58	[67] 6/30/17 \$2.42 \$1.19	[68] 6/30/18 \$2.67 \$1.35	[69] 6/30/19 \$2.78 \$1.42	[70] 6/30/20 \$2.97 \$1.53	[71] 6/30/21 \$3.16 \$1.65	[72] 6/30/22 \$3.36 \$1.78	[73] 6/30/23 \$3.58 \$1.91	[74] 6/30/24 \$3.81 \$2.05	[75] 6/30/25 \$4.05 \$2.19	[76] 6/30/26 \$4.27 \$2.31	[77] 6/30/27 \$4.49 \$2.43	[78] 6/30/28 \$4.73 \$2.56	[79] 6/30/29 \$4.98 \$2.69	[80] 6/30/30 \$5.25 \$2.84	[81] 6/30/31 \$119.44 \$75.47
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc.	Ticker ALE LNT AEE	Initial Outflow (\$54.07)	[65] 6/30/16 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87	[67] 6/30/17 \$2.42 \$1.19 \$1.77	[68] 6/30/18 \$2.67 \$1.35 \$1.96	[69] 6/30/19 \$2.78 \$1.42 \$2.05	[70] 6/30/20 \$2.97 \$1.53 \$2.19	[71] 6/30/21 \$3.16 \$1.65 \$2.33	[72] 6/30/22 \$3.36 \$1.78 \$2.48	[73] 6/30/23 \$3.58 \$1.91 \$2.64	[74] 6/30/24 \$3.81 \$2.05 \$2.80	[75] 6/30/25 \$4.05 \$2.19 \$2.98	[76] 6/30/26 \$4.27 \$2.31 \$3.13	[77] 6/30/27 \$4.49 \$2.43 \$3.30	[78] 6/30/28 \$4.73 \$2.56 \$3.48	[79] 6/30/29 \$4.98 \$2.69 \$3.66	[80] 6/30/30 \$5.25 \$2.84 \$3.86	[81] 6/30/31 \$119.44 \$75.47 \$102.17
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT	Initial Outflow (\$54.07) (\$33.83)	[65] 6/30/16 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58	[67] 6/30/17 \$2.42 \$1.19	[68] 6/30/18 \$2.67 \$1.35	[69] 6/30/19 \$2.78 \$1.42	[70] 6/30/20 \$2.97 \$1.53	[71] 6/30/21 \$3.16 \$1.65	[72] 6/30/22 \$3.36 \$1.78	[73] 6/30/23 \$3.58 \$1.91	[74] 6/30/24 \$3.81 \$2.05	[75] 6/30/25 \$4.05 \$2.19	[76] 6/30/26 \$4.27 \$2.31	[77] 6/30/27 \$4.49 \$2.43	[78] 6/30/28 \$4.73 \$2.56	[79] 6/30/29 \$4.98 \$2.69	[80] 6/30/30 \$5.25 \$2.84	[81] 6/30/31 \$119.44 \$75.47
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	Ticker ALE LNT AEE AEP AVA	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc.  Alliant Energy Corporation  American Electric Power Company, Inc.	Ticker ALE LNT AEE AEP AVA CMS	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company ITE Energy Company ITE Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Eversource Energy	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$2.53 \$5.61 \$3.25	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09	[79] 6/30/29 \$4.98 \$2.69 \$3.65 \$5.07 \$2.69 \$3.15 \$6.70 \$3.35 \$7.42 \$4.31	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.39 \$121.78
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.46 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.27	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$12.47 \$87.45 \$190.62 \$93.67 \$159.39 \$121.78 \$79.19
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Eversource Energy	Ticker ALE LNT AEE AEP AVA CMS DTE ETR ES FE IDA	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$2.53 \$5.61 \$3.25	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$5.47 \$6.03 \$3.50 \$3.06 \$4.16	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.88 \$3.40 \$4.62	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09	[79] 6/30/29 \$4.98 \$2.69 \$3.65 \$5.07 \$2.69 \$3.15 \$6.70 \$3.35 \$7.42 \$4.31	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.39 \$121.78 \$79.19
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29)	[65] 6/30/16 \$0.00 \$	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.60	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.28	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$2.83 \$3.127	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69	[72]  6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$2.36 \$3.01 \$2.49 \$3.63 \$3.21 \$3.72 \$4.76 \$3.72 \$4.76 \$5.24 \$3.01 \$2.49 \$3.69 \$3.50 \$3.50 \$3.50 \$3.50 \$3.50 \$3.50 \$4.76 \$3.70 \$3.50 \$	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.116 \$2.74	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89	[77]  6/30/27  \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.462 \$4.62 \$3.04	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$3.10 \$4.09 \$3.58 \$4.87 \$3.21	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.35 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.39 \$121.78 \$79.19 \$157.30
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	Ticker ALE LNT AEP AVA CMS DTE EE ETR FE IDA MGEE NWE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$49.40) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.60 \$1.08 \$0.62 \$1.01	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$1.48 \$2.83	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47	[75] 6/30/25 \$4.05 \$2.19 \$2.29 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74 \$3.73	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.99 \$121.78 \$79.19 \$157.30 \$112.80
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	Initial Outflow (\$54.07) (\$54.07) (\$63.83) (\$46.40) (\$61.54) (\$37.83) (\$45.20) (\$41.72) (\$72.44) (\$70.82) (\$48.29) (\$57.21) (\$27.72)	[65] 6/30/16 50.00 \$0.00	[66]  12/31/16  \$1.19  \$0.58  \$0.87  \$1.21  \$0.64  \$1.50  \$0.64  \$1.50  \$0.65  \$2.03  \$0.89  \$0.60  \$1.08  \$0.62  \$1.01  \$0.60	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$3.25 \$1.22 \$1.25 \$2.18 \$1.28 \$2.27 \$1.22	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.64 \$1.27 \$2.64 \$1.27 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.80 \$3.87 \$1.80 \$3.87 \$1.83 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.66	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.55 \$4.76 \$2.86 \$3.10 \$2.86 \$3.10 \$4.86 \$3.10 \$4.86 \$3.10 \$4.86	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90	[75] 6/30/25 \$4.05 \$2.19 \$2.29 \$4.12 \$2.19 \$2.56 \$5.45 \$2.76 \$3.50 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.83 \$2.09	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$6.04 \$3.06 \$3.88 \$3.46 \$3.46 \$3.46 \$3.04 \$4.62 \$3.04 \$4.52	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$3.50 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83 \$2.57	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.99 \$121.78 \$79.19 \$157.30 \$111.65 \$128.99 \$59.99
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	Ticker ALE LNT AEP AVA CMS DTE EE ET ES FE IDA MGEE NWE OGE	Initial Outflow (\$54.07) (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$72.44) (\$54.15) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$27.72) (\$22.81)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.64 \$1.50 \$0.65 \$2.03 \$0.60 \$1.08 \$0.60 \$1.08 \$0.62 \$1.01 \$0.65 \$0.60 \$1.08 \$0.60 \$1.08 \$0.65 \$0.66 \$0.6	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$2.07 \$1.28 \$2.07 \$1.36	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.27 \$2.26 \$1.43 \$1.35	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$1.32	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$2.76 \$1.69 \$2.76 \$1.60 \$1.60	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.82 \$4.45 \$2.20 \$4.45 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22 \$1.81 \$1.71	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90 \$1.82	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$3.06 \$4.16 \$2.74 \$3.73 \$1.98	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.00	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$3.15 \$3.17 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83 \$2.57 \$5.40 \$3.50 \$7.52 \$5.54 \$5.54 \$5.54 \$5.55 \$7.82 \$	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$193.67 \$159.39 \$121.78 \$79.19 \$157.30 \$111.65 \$128.00 \$59.99 \$61.50
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corporation Eversource Energy FirstEnergy Corpo. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation OGE Energy Corp. Innacle West Capital Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES IDA MGEE NWE OGE OTTM	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$70.82) (\$54.15) (\$45.415) (\$70.82) (\$45.21) (\$27.72) (\$28.18) (\$69.12)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.60 \$1.08 \$0.60 \$0.60 \$1.31	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.25 \$2.18 \$1.28 \$2.07 \$1.22 \$1.26 \$2.66	[68] 6/30/18 \$2.67 \$1.36 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$2.64 \$1.27 \$2.26 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.43 \$1.43 \$1.43 \$1.43 \$1.43 \$1.43 \$1.43 \$1.43	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$2.17 \$2.21 \$2.83 \$1.22 \$1.52 \$3.10 \$3.10	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.37 \$3.00 \$1.47 \$3.50 \$1.59 \$1.59 \$1.59 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.66 \$1.50 \$3.41	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.72	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$3.25 \$3.27 \$3.89 \$2.46 \$3.91 \$3.25 \$3.89 \$3.91 \$3.89 \$3.91	[75] 6/30/25 \$4.05 \$2.19 \$2.29 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$1.98 \$4.22	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.99 \$2.09 \$2.44	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$3.88 \$3.40 \$4.62 \$3.04 \$4.62 \$3.04 \$4.62 \$3.04 \$4.62 \$3.04 \$4.62 \$3.64 \$4.65	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.25 \$4.87 \$3.25 \$4.87 \$3.25 \$4.87 \$3.25 \$4.87 \$3.25 \$4.87 \$4.81	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.35 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.59 \$5.40 \$3.56 \$3.59 \$5.40 \$3.56 \$5.47	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$97.45 \$190.62 \$159.39 \$121.78 \$79.19 \$157.30 \$111.65 \$128.00 \$59.99 \$61.50
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETS FE IDA MGEE NWE OGE OTTR PNW	Initial Outflow (\$54.07) (\$53.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$54.15) (\$72.44) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$28.18) (\$69.12) (\$69.12)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.69 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$2.07 \$1.28 \$2.07 \$1.36	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.27 \$2.26 \$1.43 \$1.35	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$1.32	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$2.76 \$1.69 \$2.76 \$1.60 \$1.60	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60 \$3.58 \$1.92	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.22 \$1.81 \$1.91 \$2.25	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.82 \$3.99 \$1.82 \$3.93	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$3.50 \$3.73 \$1.94 \$4.12 \$2.51	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.04 \$4.44 \$4.44	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15 \$4.69 \$2.42	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26 \$4.93 \$2.26 \$4.93 \$2.26 \$4.93 \$2.26	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.48 \$5.09 \$3.80 \$5.07 \$5.00 \$	[80] 6/30/30 \$5,25 \$2,84 \$3,86 \$5,34 \$3,32 \$7,06 \$3,50 \$7,82 \$4,54 \$3,97 \$5,40 \$3,56 \$4,83 \$2,51 \$5,25 \$1,56 \$2,51 \$5,25 \$3,25	[81] 6/30/31 \$119,44 \$75,47 \$102,17 \$134,20 \$82,84 \$87,45 \$190,62 \$93,67 \$159,39 \$121,78 \$79,19 \$157,30 \$111,65 \$128,00 \$59,99 \$61,50 \$150,44 \$73,24
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corporation Eversource Energy FirstEnergy Corpo. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation OGE Energy Corp. Innacle West Capital Corporation	Ticker ALE LNT AEE AVA CMS DTE EER ES IDA MGEE NWE OGE OTTR PNW PNW POR	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$70.82) (\$57.21) (\$27.72) (\$27.72) (\$28.18) (\$69.12) (\$31.32) (\$33.04)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.60 \$1.08 \$0.60 \$0.60 \$1.31	[67]  6/30/17  \$2.42  \$1.19  \$1.77  \$2.47  \$1.38  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$1.27 \$2.26 \$1.43 \$1.32	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$3.10 \$1.39 \$1.55	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.37 \$3.00 \$1.47 \$3.50 \$1.59 \$1.59 \$1.59 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.10 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.66 \$1.66 \$1.66 \$1.66 \$1.66 \$3.41 \$1.89	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60 \$3.58 \$1.92 \$2.09	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.03 \$2.49 \$3.63 \$2.49 \$3.63 \$2.19 \$3.81 \$3.72 \$3.81 \$3.72 \$4.76 \$3.72 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.25 \$5.24 \$5.26 \$5.24 \$5.26 \$5.24 \$5.26 \$5.26 \$5.27 \$	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$3.25 \$3.27 \$3.89 \$2.46 \$3.91 \$3.25 \$3.89 \$3.91 \$3.89 \$3.91	[75] 6/30/25 \$4.05 \$2.19 \$2.29 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$1.98 \$4.22	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.99 \$2.09 \$2.44	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$4.66 \$4.62 \$4.66 \$	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.28 \$4.87 \$3.28 \$4.87 \$3.28 \$4.87 \$3.28 \$4.81	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.73 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19 \$3.09	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.59 \$5.40 \$3.56 \$3.59 \$5.40 \$3.56 \$5.47	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$97.45 \$190.62 \$159.39 \$121.78 \$79.19 \$157.30 \$111.65 \$128.00 \$59.99 \$61.50
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc.  Alliant Energy Corporation American Electric Power Company, Inc.  Avista Corporation CMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FristEnergy Corp.  IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PNM Resources, Inc.	Ticker ALE LNT AEE AEP AVA CMS EE ET ES FE IDA MGEE NWE OGE OTTR PNM POR SCG	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$47.72) (\$72.44) (\$54.15) (\$72.44) (\$54.15) (\$70.82) (\$48.29) (\$48.29) (\$48.29) (\$68.27) (\$27.72) (\$28.18) (\$69.12) (\$69.	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.69 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$3.30 \$4.10 \$1.82 \$1.25 \$2.18 \$1.28 \$2.07 \$1.36 \$2.69 \$2.69 \$2.49	[68]  6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$1.27 \$2.26 \$51.43 \$1.32 \$51.37 \$2.26 \$1.27 \$2.26 \$1.27 \$2.26 \$1.27 \$2.26 \$1.27 \$2.26	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$51.52 \$1.30 \$1.31 \$51.57	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$1.80 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.47 \$2.55 \$1.45 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15 \$3.15	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.50 \$3.41 \$1.74 \$1.89 \$3.43	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$1.93 \$2.21 \$3.40 \$1.93 \$2.93 \$2.93 \$3.54 \$3.68	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22 \$1.81 \$1.71 \$3.78 \$2.12 \$2.24	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.25 \$2.46 \$3.47 \$1.90 \$1.82 \$3.99 \$1.82 \$3.99 \$1.82 \$3.99 \$1.82 \$4.82	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.54 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$3.50 \$3.66 \$4.16 \$2.74 \$3.73 \$1.98 \$1.98 \$1.94 \$4.22 \$2.51 \$2.64	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.23 \$4.39 \$2.20 \$2.20 \$4.44 \$2.65 \$2.78	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.80 \$4.50 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.12 \$2.20 \$2.15 \$4.62 \$2.79 \$2.92 \$2.15 \$4.57 \$5.29 \$	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$3.16 \$7.05 \$4.09 \$3.58 \$4.09 \$3.58 \$4.87 \$4.09 \$3.58 \$4.81 \$4.93 \$4.81	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.75 \$3.33 \$7.42 \$4.31 \$3.77 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19 \$3.09 \$3.09 \$3.59 \$3.09 \$3.59 \$3.09	[80] 6/30/30 \$5,25 \$2,84 \$3,86 \$5,34 \$3,32 \$7,06 \$3,50 \$7,82 \$4,54 \$3,97 \$5,40 \$3,56 \$4,83 \$2,51 \$5,25 \$1,56 \$2,51 \$5,25 \$3,25	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.39 \$157.30 \$121.78 \$79.19 \$157.30 \$111.65 \$128.00 \$59.99 \$61.50 \$5128.00 \$59.99 \$61.50 \$114.89
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company	Ticker ALE LNT AEE AVA CMS DTE EER ES IDA MGEE NWE OGE OTTR PNW PNW POR	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$70.82) (\$57.21) (\$27.72) (\$27.72) (\$28.18) (\$69.12) (\$31.32) (\$33.04)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.68 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32 \$0.46	[67]  6/30/17  \$2.42  \$1.19  \$1.77  \$2.47  \$1.38  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$1.32  \$3.05  \$	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$1.27 \$2.26 \$1.43 \$1.32	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$3.10 \$1.39 \$1.55	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59 \$1.41 \$3.25 \$1.59 \$1.41	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.10 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.66 \$1.66 \$1.66 \$1.66 \$1.66 \$3.41 \$1.89	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60 \$3.58 \$1.92 \$2.09	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.03 \$2.49 \$3.63 \$2.49 \$3.63 \$2.19 \$3.81 \$3.72 \$3.81 \$3.72 \$4.76 \$3.72 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.25 \$5.24 \$5.26 \$5.24 \$5.26 \$5.24 \$5.26 \$5.26 \$5.27 \$	[74] 6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.47 \$1.90 \$2.53 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.40 \$3.91 \$2.50 \$3.91 \$	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$4.22 \$2.51 \$2.66 \$4.16 \$2.76 \$3.73 \$1.98 \$4.22 \$2.56	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$6.35 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.00 \$4.44 \$2.65 \$2.70	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$3.60 \$4.62 \$4.66 \$4.62 \$4.66 \$	[78] 6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.28 \$4.87 \$3.28 \$4.87 \$3.28 \$4.87 \$3.28 \$4.81	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.73 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19 \$3.09	[80] 6/30/30 \$5,25 \$2,84 \$3,86 \$5,34 \$3,32 \$7,06 \$3,50 \$7,82 \$4,54 \$3,97 \$5,40 \$3,97 \$5,40 \$3,50	[81] 6/30/31 \$119.44 \$75.47 \$102.17 \$134.20 \$82.84 \$87.45 \$190.62 \$93.67 \$159.39 \$121.78 \$79.19 \$157.30 \$111.65 \$128.00 \$128.00 \$128.00 \$128.00 \$128.00

### Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 30 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

							9											
Inputs		[1] Stock	[2]	[3] PS Growth F	[4] Pate Estima	[5]	[6] Long-Term	[7]	[8] Payout Ration	[9]	[10]	[11] Solution	[12] Terminal	[13] Terminal				
							-		-									
Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$59.67 \$38.20	5.50% 6.10%	5.00% 6.60%	4.00% 6.00%	4.83% 6.23%	5.32% 5.32%	66.00% 64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00) \$0.00	10.66% 9.15%	20.86 20.86	3.92 3.92				
Ameren Corporation	AEE	\$50.20	6.10%	5.20%	6.00%	5.77%	5.32%	68.00%	64.00%	66.88%	\$0.00	9.60%	20.86	3.92				
American Electric Power Company, Inc.	AEP	\$66.05	4.90%	4.10%	4.00%	4.33%	5.32%	64.00%	67.00%	66.88%	\$0.00	10.01%	20.86	3.92				
Avista Corporation	AVA	\$41.65	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	8.70%	20.86	3.92				
CMS Energy Corporation	CMS	\$42.95	6.40%	7.24%	6.00%	6.55%	5.32%	63.00%	62.00%	66.88%	\$0.00	9.30%	20.86	3.92				
DTE Energy Company	DTE	\$92.91	5.80%	5.35%	5.00%	5.38%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.36%	20.86	3.92				
El Paso Electric Company	EE	\$45.30	6.70%	7.00%	2.50%	5.40%	5.32%	59.00%	61.00%	66.88%	\$0.00	8.73%	20.86	3.92				
Entergy Corporation	ETR	\$77.45	NA	NA 5 400/	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	12.50%	20.86	3.92				
Eversource Energy	ES FF	\$56.36 \$33.34	6.30% NA	5.49% NA	6.00% 9.00%	5.93% 9.00%	5.32% 5.32%	60.00% 55.00%	58.00% 48.00%	66.88% 66.88%	\$0.00 \$0.00	9.82% 13.37%	20.86	3.92 3.92				
FirstEnergy Corp. IDACORP, Inc.	IDA	\$33.34 \$74.50	4.00%	4.00%	3.00%	3.67%	5.32%	53.00%	60.00%	66.88%	\$0.00	8.96%	20.86	3.92				
MGE Energy, Inc.	MGEE	\$53.30	NA	4.00%	7.00%	5.50%	5.32%	56.00%	44.00%	66.88%	\$0.00	7.21%	20.86	3.92				
NorthWestern Corporation	NWE	\$59.68	5.00%	5.00%	6.50%	5.50%	5.32%	65.00%	59.00%	66.88%	\$0.00	9.54%	20.86	3.92				
OGE Energy Corp.	OGE	\$30.95	5.20%	4.30%	3.00%	4.17%	5.32%	67.00%	70.00%	66.88%	\$0.00	10.04%	20.86	3.92				
Otter Tail Corporation	OTTR	\$30.96	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	10.39%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$75.82	4.00%	3.73%	4.00%	3.91%	5.32%	64.00%	65.00%	66.88%	\$0.00	9.24%	20.86	3.92				
PNM Resources, Inc.	PNM	\$33.49	7.60%	8.76%	9.00%	8.45%	5.32%	51.00%	55.00%	66.88%	\$0.00	11.21%	20.86	3.92				
Portland General Electric Company	POR	\$41.86	6.40%	6.57%	5.50%	6.16%	5.32%	56.00%	56.00%	66.88%	\$0.00	9.84%	20.86	3.92				
SCANA Corporation	SCG	\$71.01	5.30%	5.40%	4.50%	5.07%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	10.17%	20.86	3.92				
Wisconsin Energy Corporation	WEC XEL	\$61.68 \$42.20	6.30% 5.30%	6.77% 5.27%	6.00% 5.50%	6.36% 5.36%	5.32% 5.32%	68.00% 62.00%	67.00% 63.00%	66.88%	\$0.00 \$0.00	7.96% 9.72%	20.86 20.86	3.92 3.92				
Xcel Energy Inc.	ΛEL	<b>⊅</b> 4∠.∠U	5.30%	5.21%	ე.ე∪%	ა.აზ%	5.32%	02.00%	U3.UU%	66.88%	\$0.00 MEAN	9.72%	20.80	3.92				
											MAX	13.37%						
											MIN	7.21%						
Desirated Assess																		
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE LNT	\$3.38 \$1.69	\$3.54 \$1.80	\$3.71 \$1.91	\$3.89 \$2.03	\$4.08 \$2.15	\$4.28 \$2.29	\$4.49 \$2.43	\$4.71 \$2.57	\$4.95 \$2.72	\$5.21 \$2.87	\$5.48 \$3.03	\$5.77 \$3.19	\$6.08 \$3.36	\$6.41 \$3.54	\$6.75 \$3.73	\$7.11 \$3.92	\$7.48 \$4.13
Alliant Energy Corporation Ameren Corporation	AEE	\$1.09	\$1.80	\$1.91	\$2.03	\$2.15	\$2.29 \$3.15	\$3.33	\$2.57 \$3.52	\$3.71	\$2.87	\$3.03 \$4.13	\$3.19 \$4.35	\$3.36 \$4.58	\$3.54 \$4.82	\$5.73 \$5.08	\$5.92 \$5.35	\$4.13 \$5.63
American Electric Power Company, Inc.	AEP	\$3.59	\$3.75	\$3.91	\$4.08	\$4.25	\$4.44	\$4.64	\$4.85	\$5.09	\$5.34	\$5.62	\$5.92	\$6.23	\$6.56	\$6.91	\$7.28	\$7.67
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.01	\$2.15	\$2.29	\$2.44	\$2.60	\$2.76	\$2.93	\$3.10	\$3.28	\$3.46	\$3.65	\$3.84	\$4.04	\$4.26	\$4.49	\$4.73
DTE Energy Company	DTE	\$4.45	\$4.69	\$4.94	\$5.21	\$5.49	\$5.78	\$6.09	\$6.42	\$6.77	\$7.13	\$7.51	\$7.91	\$8.33	\$8.77	\$9.24	\$9.73	\$10.25
El Paso Electric Company	EE	\$2.03	\$2.14	\$2.26	\$2.38	\$2.51	\$2.64	\$2.78	\$2.93	\$3.09	\$3.25	\$3.43	\$3.61	\$3.80	\$4.01	\$4.22	\$4.44	\$4.68
Entergy Corporation	ETR	\$5.81	\$6.01	\$6.22	\$6.44	\$6.67	\$6.90	\$7.16	\$7.46	\$7.79	\$8.15	\$8.56	\$9.02	\$9.50	\$10.00	\$10.54	\$11.10	\$11.69
Eversource Energy	ES	\$2.76	\$2.92	\$3.10	\$3.28	\$3.48	\$3.68	\$3.90	\$4.12	\$4.35	\$4.59	\$4.84	\$5.10	\$5.37	\$5.65	\$5.96	\$6.27	\$6.61
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA MGEE	\$3.87 \$2.06	\$4.01 \$2.17	\$4.16 \$2.29	\$4.31 \$2.42	\$4.47 \$2.55	\$4.63 \$2.69	\$4.82 \$2.84	\$5.02 \$2.99	\$5.24 \$3.16	\$5.50 \$3.33	\$5.77 \$3.50	\$6.08 \$3.69	\$6.40 \$3.89	\$6.74 \$4.09	\$7.10 \$4.31	\$7.48 \$4.54	\$7.88 \$4.78
MGE Energy, Inc. NorthWestern Corporation	NWE	\$2.06	\$3.06	\$3.23	\$2.42 \$3.41	\$2.55 \$3.59	\$2.69	\$2.84 \$4.00	\$2.99 \$4.22	\$3.16 \$4.44	\$3.33 \$4.68	\$3.50 \$4.93	\$5.20	\$5.89 \$5.47	\$4.09 \$5.76	\$6.07	\$4.54 \$6.39	\$4.78 \$6.73
OGE Energy Corp.	OGE	\$1.69	\$1.76	\$1.83	\$1.91	\$1.99	\$2.07	\$2.16	\$2.26	\$2.37	\$2.49	\$2.61	\$2.75	\$2.90	\$3.76	\$3.22	\$3.39	\$3.57
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$4.23	\$4.40	\$4.57	\$4.75	\$4.95	\$5.16	\$5.40	\$5.66	\$5.95	\$6.27	\$6.60	\$6.95	\$7.32	\$7.71	\$8.12
PNM Resources, Inc.	PNM	\$1.64	\$1.78	\$1.93	\$2.09	\$2.27	\$2.46	\$2.66	\$2.85	\$3.05	\$3.24	\$3.43	\$3.62	\$3.81	\$4.01	\$4.22	\$4.45	\$4.69
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.30	\$2.44	\$2.59	\$2.75	\$2.92	\$3.09	\$3.26	\$3.45	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
SCANA Corporation	SCG	\$3.81	\$4.00	\$4.21	\$4.42	\$4.64	\$4.88	\$5.13	\$5.39	\$5.67	\$5.97	\$6.28	\$6.62	\$6.97	\$7.34	\$7.73	\$8.14	\$8.58
Wisconsin Energy Corporation	WEC	\$2.34	\$2.49	\$2.65	\$2.82	\$2.99	\$3.18	\$3.38	\$3.58	\$3.79	\$4.01	\$4.23	\$4.45	\$4.69	\$4.94	\$5.20	\$5.48	\$5.77
Xcel Energy Inc.	XEL	\$2.10	\$2.21	\$2.33	\$2.46	\$2.59	\$2.73	\$2.87	\$3.03	\$3.19	\$3.36	\$3.54	\$3.72	\$3.92	\$4.13	\$4.35	\$4.58	\$4.83
Projected Annual																		
Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS DTE		63.00%	62.75% 62.50%	62.50%	62.25%	62.00%	62.81% 61.98%	63.63%	64.44% 63.94%	65.25% 64.92%	66.07%	66.88%	66.88% 66.88%	66.88%	66.88%	66.88% 66.88%	66.88%
DTE Energy Company El Paso Electric Company	EE		63.00% 59.00%	62.50% 59.50%	62.00% 60.00%	61.50% 60.50%	61.00% 61.00%	61.98% 61.98%	62.96% 62.96%	63.94% 63.94%	64.92% 64.92%	65.90% 65.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Entergy Corporation	ETR		67.00%	65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp.	OGE		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR		80.00%	75.75%	71.50%	67.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Pinnacle West Capital Corporation	PNW		64.00%	64.25%	64.50%	64.75%	65.00%	65.31%	65.63%	65.94%	66.25%	66.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
PNM Resources, Inc.	PNM POR		51.00% 56.00%	52.00% 56.00%	53.00% 56.00%	54.00% 56.00%	55.00% 56.00%	56.98% 57.81%	58.96% 59.63%	60.94% 61.44%	62.92% 63.25%	64.90% 65.07%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Portland General Electric Company SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation	WEC		68.00%	67.75%	67.50%	67.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%

| Cash Flows   |   |  | [47]  | [48]  | [49]   
  | [50]  | [51]   | [52]  
   | [53]  | [54]  | [55]  
   | [56]  | [57]  | [58]  | [59]  | [60]  
   | [61]  | [62]  
           | [63]  |
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  |   |  |   
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   |   |   |   |   |   
   |   |   
           | Terminal  |
| Company  | Ticker  |  | 2016  | 2017  | 2018   
  | 2019  | 2020   | 2021  
   | 2022  | 2023  | 2024  
   | 2025  | 2026  | 2027  | 2028  | 2029  
   | 2030  | 2031  
           | Value   |
| ALLETE, Inc.   | ALE   |  | \$2.34  | \$2.42  | \$2.51   
  | \$2.60  | \$2.70   | \$2.86  
   | \$3.03  | \$3.22  | \$3.42  
   | \$3.63  | \$3.86  | \$4.07  | \$4.28  | \$4.51  
   | \$4.75  | \$5.00  
           | \$156.10  |
| Alliant Energy Corporation   | LNT   |  | \$1.15  | \$1.21  | \$1.27   
  | \$1.33  | \$1.39   | \$1.50  
   | \$1.62  | \$1.74  | \$1.86  
   | \$2.00  | \$2.13  | \$2.25  | \$2.37  | \$2.49  
   | \$2.62  | \$2.76  
           | \$86.22   |
| Ameren Corporation   | AEE   |  | \$1.71  | \$1.78  | \$1.86   
  | \$1.94  | \$2.02   | \$2.15  
   | \$2.28  | \$2.43  | \$2.58  
   | \$2.74  | \$2.91  | \$3.06  | \$3.22  | \$3.40  
   | \$3.58  | \$3.77  
           | \$117.47  |
| American Electric Power Company, Inc.  | AEP   |  | \$2.40  | \$2.53  | \$2.67   
  | \$2.82  | \$2.97   | \$3.11  
   | \$3.25  | \$3.41  | \$3.58  
   | \$3.76  | \$3.96  | \$4.17  | \$4.39  | \$4.62  
   | \$4.87  | \$5.13  
           | \$159.96  |
| Avista Corporation   | AVA   |  | \$1.35  | \$1.39  | \$1.43   
  | \$1.48  | \$1.52   | \$1.61  
   | \$1.71  | \$1.82  | \$1.93  
   | \$2.05  | \$2.19  | \$2.30  | \$2.42  | \$2.55  
   | \$2.69  | \$2.83  
           | \$88.33   |
| CMS Energy Corporation   | CMS   |  | \$1.27  | \$1.35  | \$1.43   
  | \$1.52  | \$1.61   | \$1.73  
   | \$1.86  | \$2.00  | \$2.14  
   | \$2.29  | \$2.44  | \$2.57  | \$2.71  | \$2.85  
   | \$3.00  | \$3.16  
           | \$98.58   |
| DTE Energy Company   | DTE   |  | \$2.95  | \$3.09  | \$3.23   
  | \$3.38  | \$3.53   | \$3.78  
   | \$4.04  | \$4.33  | \$4.63  
   | \$4.95  | \$5.29  | \$5.57  | \$5.87  | \$6.18  
   | \$6.51  | \$6.85  
           | \$213.74  |
| El Paso Electric Company   | EE  |  | \$1.26  | \$1.34  | \$1.43   
  | \$1.52  | \$1.61   | \$1.72  
   | \$1.85  | \$1.98  | \$2.11  
   | \$2.26  | \$2.42  | \$2.54  | \$2.68  | \$2.82  
   | \$2.97  | \$3.13  
           | \$97.62   |
| Entergy Corporation  | ETR   |  | \$4.03  | \$4.05  | \$4.06   
  | \$4.07  | \$4.07   | \$4.32  
   | \$4.60  | \$4.90  | \$5.24  
   | \$5.61  | \$6.03  | \$6.35  | \$6.69  | \$7.05  
   | \$7.42  | \$7.82  
           | \$243.80  |
| Eversource Energy  | ES  |  | \$1.75  | \$1.84  | \$1.94   
  | \$2.03  | \$2.14   | \$2.32  
   | \$2.51  | \$2.72  | \$2.93  
   | \$3.17  | \$3.41  | \$3.59  | \$3.78  | \$3.98  
   | \$4.20  | \$4.42  
           | \$137.81  |
| FirstEnergy Corp.  | FE  |  | \$1.20  | \$1.27  | \$1.33   
  | \$1.40  | \$1.48   | \$1.71  
   | \$1.95  | \$2.21  | \$2.49  
   | \$2.77  | \$3.06  | \$3.23  | \$3.40  | \$3.58  
   | \$3.77  | \$3.97  
           | \$123.80  |
| IDACORP, Inc.  | IDA   |  | \$2.13  | \$2.28  | \$2.44   
  | \$2.60  | \$2.78   | \$2.94  
   | \$3.13  | \$3.33  | \$3.55  
   | \$3.79  | \$4.07  | \$4.28  | \$4.51  | \$4.75  
   | \$5.00  | \$5.27  
           | \$164.36  |
| MGE Energy, Inc.   | MGEE  |  | \$1.22  | \$1.22  | \$1.21   
  | \$1.20  | \$1.18   | \$1.36  
   | \$1.55  | \$1.75  | \$1.97  
   | \$2.21  | \$2.47  | \$2.60  | \$2.74  | \$2.88  
   | \$3.04  | \$3.20  
           | \$99.77   |
| NorthWestern Corporation   | NWE   |  | \$1.99  | \$2.05  | \$2.11   
  | \$2.17  | \$2.24   | \$2.41  
   | \$2.60  | \$2.80  | \$3.01  
   | \$3.23  | \$3.47  | \$3.66  | \$3.85  | \$4.06  
   | \$4.28  | \$4.50  
           | \$140.45  |
| OGE Energy Corp.   | OGE   |  | \$1.18  | \$1.24  | \$1.31   
  | \$1.38  | \$1.45   | \$1.50  
   | \$1.56  | \$1.62  | \$1.69  
   | \$1.76  | \$1.84  | \$1.94  | \$2.04  | \$2.15  
   | \$2.27  | \$2.39  
           | \$74.41   |
| Otter Tail Corporation   | OTTR  |  | \$1.32  | \$1.33  | \$1.33   
  | \$1.32  | \$1.32   | \$1.41  
   | \$1.50  | \$1.60  | \$1.71  
   | \$1.82  | \$1.94  | \$2.04  | \$2.15  | \$2.26  
   | \$2.38  | \$2.51  
           | \$78.28   |
| Pinnacle West Capital Corporation  | PNW   |  | \$2.61  | \$2.72  | \$2.84   
  | \$2.96  | \$3.09   | \$3.23  
   | \$3.39  | \$3.56  | \$3.75  
   | \$3.96  | \$4.19  | \$4.41  | \$4.65  | \$4.90  
   | \$5.16  | \$5.43  
           | \$169.43  |
| PNM Resources, Inc.  | PNM   |  | \$0.91  | \$1.00  | \$1.11   
  | \$1.23  | \$1.35   | \$1.51  
   | \$1.68  | \$1.86  | \$2.04  
   | \$2.23  | \$2.42  | \$2.55  | \$2.68  | \$2.83  
   | \$2.98  | \$3.13  
           | \$97.74   |
| Portland General Electric Company  | POR   |  | \$1.21  | \$1.29  | \$1.37   
  | \$1.45  | \$1.54   | \$1.69  
   | \$1.84  | \$2.01  | \$2.18  
   | \$2.37  | \$2.56  | \$2.70  | \$2.84  | \$2.99  
   | \$3.15  | \$3.32  
           | \$103.51  |
| SCANA Corporation  | SCG   |  | \$2.36  | \$2.49  | \$2.63   
  | \$2.77  | \$2.93   | \$3.14  
   | \$3.36  | \$3.60  | \$3.85  
   | \$4.13  | \$4.43  | \$4.66  | \$4.91  | \$5.17  
   | \$5.45  | \$5.74  
           | \$178.92  |
|  |   |  | \$1.69  | \$1.79  | \$1.90   
  | \$2.01  | \$2.13   | \$2.26  
   | \$2.40  | \$2.54  | \$2.68  
   | \$2.83  | \$2.98  | \$3.14  | \$3.30  | \$3.48  
   | \$3.67  | \$3.86  
           | \$120.42  |
|  | WEC   |  |   |   |  
  |   | 11   | 04.00   
   | 04.05   | \$2.07  | \$2.20  
   | \$2.34  | \$2.49  | \$2.62  | \$2.76  | \$2.91  
   | \$3.06  | \$3.23  
           | \$100.68  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data   | XEL   | ro #1  | \$1.37  | \$1.45  | \$1.53   
  | \$1.62  | \$1.72   | \$1.83  
   | \$1.95  |   | •   
   |   |   |   |   |   
   |   |   
           |   |
| Wisconsin Energy Corporation Xcel Energy Inc.  |   | [64]   | \$1.37<br>[65]  | \$1.45<br>[66]  | \$1.53<br>[67]   
  | \$1.62<br>[68]  | \$1.72<br>[69]   | [70]  
   | \$1.95<br>[71]  | [72]  | [73]  
   | [74]  | [75]  | [76]  | [77]  | [78]  
   | [79]  | [80]  
           | [81]  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company  | XEL   | Initial<br>Outflow   | [65]<br>6/30/16   | [66]<br>12/31/16  | [67]<br>6/30/17  
  | [68]<br>6/30/18   | [69]<br>6/30/19  | [70]<br>6/30/20   
   | [71]<br>6/30/21   | [72]<br>6/30/22   | [73]<br>6/30/23   
   | [74]<br>6/30/24   | [75]<br>6/30/25   | [76]<br>6/30/26   | [77]<br>6/30/27   | [78]<br>6/30/28   
   | [79]<br>6/30/29   | [80]  
           | [81]<br>6/30/31   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc.   | XEL<br>Ticker<br>ALE  | Initial<br>Outflow<br>(\$59.67)  | [65]<br>6/30/16<br>\$0.00   | [66]<br>12/31/16<br>\$1.18  | [67]<br>6/30/17<br>\$2.40  
  | [68]<br>6/30/18<br>\$2.60   | [69]<br>6/30/19<br>\$2.70  | [70]<br>6/30/20<br>\$2.86   
   | [71]<br>6/30/21<br>\$3.03   | [72]<br>6/30/22<br>\$3.22   | [73]<br>6/30/23<br>\$3.42   
   | [74]<br>6/30/24<br>\$3.63   | [75]<br>6/30/25<br>\$3.86   | [76]<br>6/30/26<br>\$4.07   | [77]<br>6/30/27<br>\$4.28   | [78]<br>6/30/28<br>\$4.51   
   | [79]<br>6/30/29<br>\$4.75   | [80]<br>6/30/30<br>\$5.00   
           | [81]<br>6/30/31<br>\$161.11   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation  | Ticker ALE LNT  | Initial<br>Outflow<br>(\$59.67)<br>(\$38.20)   | [65]<br>6/30/16<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58  | [67]<br>6/30/17<br>\$2.40<br>\$1.18  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33   | [69]<br>6/30/19<br>\$2.70<br>\$1.39  | [70]<br>6/30/20<br>\$2.86<br>\$1.50   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62   | [72]<br>6/30/22<br>\$3.22<br>\$1.74   | [73]<br>6/30/23<br>\$3.42<br>\$1.86   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00   | [75]<br>6/30/25<br>\$3.86<br>\$2.13   | [76]<br>6/30/26<br>\$4.07<br>\$2.25   | [77]<br>6/30/27<br>\$4.28<br>\$2.37   | [78]<br>6/30/28<br>\$4.51<br>\$2.49   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62   | [80]<br>6/30/30<br>\$5.00<br>\$2.76   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation   | Ticker ALE LNT AEE  | Initial<br>Outflow<br>(\$59.67)<br>(\$38.20)<br>(\$50.12)  | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc.  | Ticker ALE LNT AEE AEP  | Initial<br>Outflow<br>(\$59.67)<br>(\$38.20)<br>(\$50.12)<br>(\$66.05)   | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation   | Ticker ALE LNT AEE AEP AVA  | Initial<br>Outflow<br>(\$59.67)<br>(\$38.20)<br>(\$50.12)<br>(\$66.05)<br>(\$41.65)  | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation  | Ticker ALE LNT AEE AEP AVA CMS  | Initial<br>Outflow<br>(\$59.67)<br>(\$38.20)<br>(\$50.12)<br>(\$66.05)<br>(\$41.65)<br>(\$42.95)   | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$0.64  | [67]<br>6/30/17<br>\$2.40<br>\$1.76<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company   | Ticker ALE LNT AEE AEP AVA CMS DTE  | Initial<br>Outflow<br>(\$59.67)<br>(\$38.20)<br>(\$50.12)<br>(\$66.05)<br>(\$41.65)<br>(\$42.95)<br>(\$92.91)  | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$0.64<br>\$1.49  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31<br>\$3.03  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company   | Ticker ALE LNT AEE AEP AVA CMS DTE EE   | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$92.91) (\$45.30)  | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00   | [66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31<br>\$3.03<br>\$1.30  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.26   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$2.54   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation DETERETY Company El Paso Electric Company Entergy Corporation   | Ticker ALE LNT AEE AVA CMS DTE EE ETR   | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45)  | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$0.64<br>\$1.49<br>\$0.64<br>\$2.03  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31<br>\$3.03<br>\$4.10  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07   | [69]<br>\$2.70<br>\$1.39<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07   | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$5.57<br>\$5.54<br>\$6.35   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97<br>\$7.42   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Entergy Company Entergy Corporation Entergy Corporation Entergy Corporation Eversource Energy   | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES                                      | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36)  | [65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00  | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$0.64<br>\$1.49<br>\$0.64<br>\$2.03<br>\$0.88  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31<br>\$3.03<br>\$1.30<br>\$4.10<br>\$1.81  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$3.38<br>\$1.52   | [69]<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14   | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32<br>\$2.32   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51   | [72]<br>\$3.22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72  | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.14<br>\$4.63<br>\$2.15<br>\$2.24<br>\$2.93   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$2.57<br>\$6.35<br>\$3.59   | [77]<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78  | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$6.18<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97<br>\$7.42<br>\$4.20   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.23   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.  | Ticker ALE LNT AEP AVA CMS DTE EE ETR ES FE                                       | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34)  | [65]  6/30/16  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$0.64<br>\$1.49<br>\$0.64<br>\$2.03<br>\$0.88<br>\$0.66  | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32<br>\$2.32<br>\$1.71   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24<br>\$2.93<br>\$2.49   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17<br>\$2.77   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.06   | [76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98<br>\$3.58   
   | [79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.23<br>\$127.77   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.   | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA                               | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50)  | [65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00  | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$0.64<br>\$1.49<br>\$0.64<br>\$2.03<br>\$0.88<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.60<br>\$0.6 | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17  
  | [68]<br>6/30/18<br>\$2,60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$2.60   | [69]<br>6/30/19<br>\$2,70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48<br>\$2.78  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.16<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32<br>\$2.32<br>\$1.71<br>\$2.94   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$4.05<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$3.58<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24<br>\$2.93<br>\$2.49<br>\$3.55   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$4.95<br>\$5.61<br>\$3.17<br>\$2.77<br>\$3.79   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.06<br>\$4.07   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$5.57<br>\$5.54<br>\$6.35<br>\$3.59<br>\$3.23<br>\$4.28   | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40<br>\$4.51   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$7.42<br>\$4.20<br>\$3.77<br>\$5.00   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$142.23<br>\$142.23<br>\$127.77<br>\$169.63   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.  | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETS FE IDA MGEE                             | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30)  | [65]  6/30/16  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00  \$0.00   | [66]<br>12/31/16<br>\$1.18<br>\$0.58<br>\$0.86<br>\$1.21<br>\$0.68<br>\$1.21<br>\$0.64<br>\$1.49<br>\$0.64<br>\$2.03<br>\$0.88<br>\$0.60<br>\$1.07<br>\$0.60  | [67]  6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25   
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$2.60<br>\$1.20   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48<br>\$2.78<br>\$1.18  | [70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$3.15<br>\$3.15   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24<br>\$2.93<br>\$2.49<br>\$3.55<br>\$1.97   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.29<br>\$4.96<br>\$3.17<br>\$3.77<br>\$3.77<br>\$3.79   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.44<br>\$5.29<br>\$3.41<br>\$3.06<br>\$4.07<br>\$2.47   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$2.54<br>\$3.59<br>\$3.59<br>\$3.23<br>\$4.28<br>\$2.60   | [77]<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74  | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.88   
   | [79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$3.13<br>\$4.42<br>\$3.97<br>\$5.27<br>\$5.27   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.23<br>\$127.77<br>\$169.63<br>\$102.97   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation  | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE                      | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30) (\$59.68)  | [65]  6/30/16  \$0.00   | [66]  12/31/16 \$1.18 \$0.58 \$0.58 \$1.21 \$0.68 \$1.21 \$0.64 \$2.03 \$0.64 \$2.03 \$0.60 \$1.07 \$0.61   | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.25 \$2.17 \$1.25   
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$2.60<br>\$1.20<br>\$2.17   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48<br>\$2.78<br>\$1.18<br>\$2.24  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32<br>\$2.32<br>\$1.71<br>\$2.94<br>\$1.36<br>\$2.41   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.85<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$1.55<br>\$2.60   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75<br>\$2.80   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24<br>\$2.93<br>\$2.49<br>\$3.55<br>\$1.97<br>\$3.55<br>\$1.97<br>\$3.55<br>\$1.97   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17<br>\$3.77<br>\$3.79<br>\$2.27   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$6.03<br>\$3.41<br>\$3.06<br>\$4.07<br>\$2.47<br>\$3.47   | [76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66  | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$3.85   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.82<br>\$4.75<br>\$2.82   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97<br>\$7.42<br>\$4.20<br>\$3.77<br>\$5.00<br>\$3.04<br>\$4.28   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$5.31<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$4.50   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.27<br>\$166.63<br>\$102.97<br>\$144.96   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. OGE Energy Corp.  | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE                  | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$60.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$59.68) (\$30.95)  | [65]  6/30/16  \$0.00   | [66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59   | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.31<br>\$3.03<br>\$1.30<br>\$4.10<br>\$1.81<br>\$1.25<br>\$2.17<br>\$1.25<br>\$2.04  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$2.60<br>\$1.20<br>\$2.17<br>\$1.38   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48<br>\$2.78<br>\$1.18<br>\$2.24<br>\$1.45  | [70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32<br>\$2.32<br>\$1.71<br>\$2.94<br>\$1.36<br>\$2.41<br>\$1.50   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$1.55<br>\$2.60<br>\$1.56   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75<br>\$2.80<br>\$1.62   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24<br>\$2.93<br>\$2.49<br>\$3.55<br>\$1.97<br>\$3.01<br>\$1.69   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.25<br>\$4.95<br>\$2.29<br>\$4.95<br>\$2.26<br>\$3.17<br>\$3.79<br>\$2.21<br>\$3.23<br>\$1.76   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.14<br>\$5.29<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.06<br>\$4.07<br>\$2.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$3.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47<br>\$4.47 | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$2.54<br>\$6.35<br>\$3.29<br>\$3.29<br>\$4.28<br>\$2.60<br>\$3.66<br>\$3.66<br>\$1.94                     | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$3.85<br>\$2.74   | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$6.18<br>\$2.85<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.88<br>\$4.75<br>\$2.88<br>\$4.75<br>\$2.88                                   
   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97<br>\$7.42<br>\$4.20<br>\$3.77<br>\$5.00<br>\$3.04<br>\$4.28<br>\$4.27   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$2.39   
           | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$140.75<br>\$127.77<br>\$169.63<br>\$102.97<br>\$144.96<br>\$76.79  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation   | Ticker ALE LNT AEP AVA CMS DTE ETR ES FE IDA MGEE NWE OGE                         | Initial Outflow (\$59.67) (\$38.20) (\$50.61) (\$38.20) (\$50.12) (\$60.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$55.36) (\$77.45) (\$55.36) (\$73.30) (\$59.68) (\$30.95) (\$30.96)  | [65] 6/30/16 \$0.00  | [66]  12/31/16 \$1.18 \$0.58 \$0.58 \$0.86 \$1.21 \$0.64 \$1.49 \$0.64 \$2.03 \$0.64 \$2.03 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59  | [67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31<br>\$3.03<br>\$1.30<br>\$4.10<br>\$1.25<br>\$2.17<br>\$1.25<br>\$2.21<br>\$1.25<br>\$2.04<br>\$1.25<br>\$1.36
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.60<br>\$2.17<br>\$1.38<br>\$1.32   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.51<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48<br>\$2.78<br>\$1.18<br>\$2.24<br>\$1.45<br>\$1.32  |
[70]<br>6/30/20<br>\$2.86<br>\$1.50<br>\$2.15<br>\$3.11<br>\$1.61<br>\$1.73<br>\$3.78<br>\$1.72<br>\$4.32<br>\$2.32<br>\$1.71<br>\$2.94<br>\$1.36<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$2.41<br>\$1.56<br>\$1.56<br>\$2.41<br>\$1.56<br>\$1.56<br>\$1.56<br>\$2.41<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$ | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$3.13<br>\$1.55<br>\$2.60<br>\$1.56<br>\$1.50   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75<br>\$2.80<br>\$1.60   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.11<br>\$5.24<br>\$2.93<br>\$2.29<br>\$3.55<br>\$1.97<br>\$3.01<br>\$1.69<br>\$1.71  
  | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.05<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17<br>\$2.77<br>\$3.79<br>\$2.21<br>\$3.23<br>\$1.76<br>\$2.21   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.06<br>\$4.07<br>\$2.47<br>\$3.47<br>\$1.84<br>\$1.94   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$2.54<br>\$6.35<br>\$3.23<br>\$4.28<br>\$2.60<br>\$3.66<br>\$1.94<br>\$2.04                               | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$3.85<br>\$2.04<br>\$2.15  
  | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.88<br>\$4.75<br>\$2.88<br>\$4.06<br>\$2.15<br>\$2.26   | [79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97<br>\$7.42<br>\$4.20<br>\$3.77<br>\$5.00<br>\$3.04<br>\$4.28<br>\$2.27<br>\$2.38   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$2.83<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$3.20<br>\$4.50<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$5.20<br>\$                      
  | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.23<br>\$142.23<br>\$142.77<br>\$149.63<br>\$76.79  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation OGE Energy Corp. Other Tail Corporation OGE Energy Corp. Innacle West Capital Corporation   | Ticker ALE LNT AEE ACP AVA CMS DTE EE ES FE IDA MGEE NWE OGE OTTM                 | Initial Outflow (\$59.67) (\$38.20) (\$59.61) (\$66.05) (\$60.05) (\$41.65) (\$42.95) (\$77.45) (\$77. | [65]<br>6/30/16<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00 | [66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.86 \$1.07 \$0.61 \$1.00 \$0.59 \$0.59   |
[67]<br>6/30/17<br>\$2.40<br>\$1.18<br>\$1.76<br>\$2.45<br>\$1.38<br>\$1.31<br>\$3.03<br>\$4.10<br>\$1.81<br>\$1.25<br>\$2.17<br>\$1.25<br>\$2.17<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20<br>\$1.20 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[68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$3.38<br>\$1.52<br>\$3.38<br>\$1.52<br>\$3.38<br>\$1.52<br>\$3.38<br>\$1.52<br>\$3.38<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.94<br>\$2.80<br>\$1.90<br>\$2.80<br>\$1.90<br>\$2.80<br>\$1.90<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$2.80<br>\$   | [69]<br>6/30/19<br>\$2.70<br>\$1.39<br>\$2.02<br>\$2.97<br>\$1.52<br>\$1.61<br>\$3.53<br>\$1.61<br>\$4.07<br>\$2.14<br>\$1.48<br>\$2.78<br>\$1.145<br>\$1.45<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00 | [70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23  
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$3.13<br>\$1.56<br>\$3.13<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$3.39   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$3.33<br>\$1.78<br>\$2.21<br>\$3.33<br>\$1.78<br>\$1.82<br>\$2.21<br>\$3.33<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78<br>\$1.78 |
[73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.14<br>\$4.63<br>\$2.14<br>\$4.63<br>\$2.14<br>\$2.93<br>\$2.14<br>\$2.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93<br>\$1.93 | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.29<br>\$4.95<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17<br>\$3.77<br>\$3.79<br>\$2.21<br>\$3.76<br>\$3.76<br>\$3.77<br>\$3.77<br>\$3.77<br>\$3.79<br>\$2.21<br>\$3.76<br>\$3.87<br>\$3.96 | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.19<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.40<br>\$4.07<br>\$2.47<br>\$1.84<br>\$1.84<br>\$4.19   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$2.57<br>\$2.57<br>\$3.59<br>\$3.29<br>\$3.29<br>\$4.28<br>\$2.66<br>\$1.94<br>\$2.44                     |
[77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$3.78<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74<br>\$2.74 | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$6.18<br>\$2.85<br>\$6.18<br>\$2.85<br>\$3.58<br>\$4.75<br>\$2.85<br>\$4.75<br>\$2.85<br>\$4.75<br>\$2.85<br>\$4.75<br>\$2.85<br>\$4.75<br>\$2.85<br>\$4.90<br>\$4.90   |
[79]<br>6/30/29<br>\$4.75<br>\$2.62<br>\$3.58<br>\$4.87<br>\$2.69<br>\$3.00<br>\$6.51<br>\$2.97<br>\$7.42<br>\$4.20<br>\$3.77<br>\$5.00<br>\$3.37<br>\$4.28<br>\$4.22<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.27<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38<br>\$2.38 | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$4.50<br>\$2.39<br>\$2.53<br>\$2.39<br>\$2.54   | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$220.59<br>\$102.75<br>\$217.79<br>\$102.75<br>\$217.79<br>\$102.75<br>\$217.79<br>\$102.75<br>\$217.79<br>\$102.75<br>\$102.75<br>\$102.75<br>\$217.79<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75<br>\$102.75 |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation  | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW         | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$65.36) (\$77.45) (\$56.36) (\$73.34) (\$74.50) (\$53.34) (\$78.56) (\$30.95) (\$30.96) (\$75.82) (\$33.96) (\$75.82)  | [65] 6/30/16 \$0.00  | [66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.64 \$2.03 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.46   | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$2.66 \$2.66 \$2.66 \$0.95  
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$2.60<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$2.17<br>\$   | [69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.32 \$3.09 \$1.32 \$3.30   | [70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.15 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.36 \$3.78 \$3.78 \$3.78  
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[71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$1.55<br>\$2.60<br>\$1.50<br>\$3.13<br>\$1.50<br>\$3.13<br>\$1.50<br>\$3.13<br>\$1.50<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$4.04<br>\$4.04<br>\$4.04<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162<br>\$3.162 | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$4.93<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75<br>\$2.80<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$1.60<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$3.56<br>\$   | [73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.21<br>\$5.24<br>\$2.93<br>\$2.49<br>\$3.55<br>\$1.97<br>\$3.01<br>\$1.69<br>\$1.71<br>\$3.75<br>\$2.04   
   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.25<br>\$2.26<br>\$5.61<br>\$3.17<br>\$2.77<br>\$3.79<br>\$2.21<br>\$3.23<br>\$1.76<br>\$1.82<br>\$3.95<br>\$2.23   | [75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$3.184 \$1.94 \$4.19 \$2.42   | [76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$5.57 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$3.66 \$3.94 \$2.04 \$4.41  | [77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68   |
[78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.88<br>\$4.06<br>\$2.15<br>\$2.26<br>\$4.90<br>\$2.26<br>\$4.90<br>\$2.28   | [79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98  |
[80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.42<br>\$3.97<br>\$5.25<br>\$3.20<br>\$4.50<br>\$2.51<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20 | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$100.75<br>\$251.62<br>\$100.75<br>\$251.62<br>\$142.23<br>\$127.77<br>\$169.63<br>\$127.77<br>\$144.96<br>\$76.79<br>\$80.79<br>\$174.86<br>\$100.88  |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation DTE Energy Corporation DTE Energy Corporation DTE Energy Corporation DTE Energy Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company | Ticker ALE LNT AEP AVA CMS DTE EE ETR ES IDA MGEE OGE OTTR PNW PNM POR            | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$45.30) (\$77.45) (\$55.30) (\$59.91) (\$45.30) (\$59.96) (\$33.34) (\$59.96) (\$33.49) (\$41.86) (\$33.96) (\$33.96) (\$41.86) (\$41.86) (\$41.86)  | [65] 6/30/16 \$0.00   | [66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.66 \$0.61   | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.20 \$5.266 \$0.95   
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$1.20<br>\$2.60<br>\$1.20<br>\$2.17<br>\$1.38<br>\$1.32<br>\$1.32<br>\$1.32<br>\$1.32<br>\$1.32<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.34<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35 | [69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.51 \$1.51   | [70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$3.39<br>\$1.68   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75<br>\$2.80<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62 |
[73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.24<br>\$2.93<br>\$2.49<br>\$3.55<br>\$1.97<br>\$3.01<br>\$1.69<br>\$3.75<br>\$2.04<br>\$3.75<br>\$2.24<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.29<br>\$4.95<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17<br>\$3.79<br>\$2.27<br>\$3.23<br>\$1.76<br>\$2.37<br>\$3.23<br>\$1.76<br>\$2.29   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.06<br>\$4.07<br>\$3.47<br>\$1.84<br>\$4.19<br>\$2.42<br>\$6.20   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$5.57<br>\$2.54<br>\$6.35<br>\$3.23<br>\$4.28<br>\$2.60<br>\$3.66<br>\$1.94<br>\$4.41<br>\$2.55<br>\$2.70 | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$3.85<br>\$2.04<br>\$2.15<br>\$2.04<br>\$2.15<br>\$2.04<br>\$2.16<br>\$2.68  
  | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.85<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.86<br>\$4.75<br>\$2.86<br>\$4.90<br>\$2.45<br>\$2.95<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90 | [79] 6/30/29 \$4.75 \$2.62 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.77 \$5.00 \$4.28 \$2.23 \$5.16 \$2.28 \$5.16 \$2.38   |
[80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$2.39<br>\$4.50<br>\$2.51<br>\$3.20<br>\$4.50<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$   | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.23<br>\$142.23<br>\$142.23<br>\$142.97<br>\$149.96<br>\$100.83   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. OGE Energy Corp. OTHER Tail Corporation Pompare West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation Portland General Electric Company SCANA Corporation                         | Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW POR SCG | Initial Outflow (\$59.67) (\$38.20) (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$42.95) (\$57.45) (\$56.36) (\$77.45) (\$57.45) (\$55.30) (\$53.30) (\$53.30) (\$53.30) (\$673.30) (\$673.30) (\$674.80) (\$74.80) (\$74.80) (\$75.82) (\$ | [65] 6/30/16 \$0.00   | [66]  12/31/16 \$1.18 \$0.58 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.80 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.46 \$0.61 \$1.19  | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$2.66 \$2.66 \$2.66 \$2.66 \$2.66 \$2.24 \$1.25                   
  | [68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$2.17 \$1.38 \$1.32 \$2.96 \$2.17 \$1.38 \$1.32 \$2.96 \$2.17 \$1.38 \$1.32 \$2.96  | [69] 6/30/19 52.70 51.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$51.35 \$1.52 \$1.35 \$1.52 \$1.52 \$1.53 \$1.53 \$1.53 \$1.53   | [70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.61 \$3.23  
   | [71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.15 \$1.55 \$2.60 \$1.56 \$1.50 \$3.39 \$3.36  | [72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.60 \$3.56 \$3.56 \$3.56 \$2.01 \$3.60  | [73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$3.58 \$1.93 \$2.11 \$5.24 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04 \$2.18 \$2.04  
   | [74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.25 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23 \$2.37 \$4.13   | [75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$3.48 \$1.94 \$4.19 \$2.42 \$2.56 \$4.43  | [76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$2.55 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$3.69 \$2.04 \$4.41 \$4.41 \$4.466  | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$6.69<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$3.85<br>\$2.24<br>\$2.37<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$3.25<br>\$   |
[78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.82<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.82<br>\$4.75<br>\$2.82<br>\$4.75<br>\$2.82<br>\$4.75<br>\$2.82<br>\$4.70<br>\$2.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82<br>\$4.82 | [79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$3.00 \$7.42 \$3.77 \$5.00 \$3.04 \$4.28 \$5.16 \$2.27 \$2.38 \$5.16 \$5.298 \$3.15   | [80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$2.39<br>\$2.51<br>\$3.13<br>\$3.35<br>\$3.16<br>\$3.37<br>\$3.20<br>\$4.50<br>\$3.37<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$  
  | [81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.27 \$189.63 \$127.77 \$144.96 \$76.79 \$80.79 \$174.86 \$100.88 \$100.88 \$100.83   |
| Wisconsin Energy Corporation Xcel Energy Inc.  Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWesterm Corporation OGE Energy Corp. OGE Energy Corp. OGE Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company  | Ticker ALE LNT AEP AVA CMS DTE EE ETR ES IDA MGEE OGE OTTR PNW PNM POR            | Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$45.30) (\$77.45) (\$55.30) (\$59.91) (\$45.30) (\$59.96) (\$33.34) (\$59.96) (\$33.49) (\$41.86) (\$33.96) (\$33.96) (\$41.86) (\$41.86) (\$41.86)  | [65] 6/30/16 \$0.00   | [66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.66 \$0.61   | [67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.20 \$5.266 \$0.95   
  | [68]<br>6/30/18<br>\$2.60<br>\$1.33<br>\$1.94<br>\$2.82<br>\$1.48<br>\$1.52<br>\$3.38<br>\$1.52<br>\$4.07<br>\$2.03<br>\$1.40<br>\$1.20<br>\$2.60<br>\$1.20<br>\$2.17<br>\$1.38<br>\$1.32<br>\$1.32<br>\$1.32<br>\$1.32<br>\$1.32<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.33<br>\$1.34<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35<br>\$1.35 | [69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.51 \$1.51   | [70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69   
   | [71]<br>6/30/21<br>\$3.03<br>\$1.62<br>\$2.28<br>\$3.25<br>\$1.71<br>\$1.86<br>\$4.04<br>\$1.85<br>\$4.60<br>\$2.51<br>\$1.95<br>\$3.13<br>\$1.56<br>\$1.56<br>\$1.56<br>\$1.56<br>\$3.39<br>\$1.68   | [72]<br>6/30/22<br>\$3.22<br>\$1.74<br>\$2.43<br>\$3.41<br>\$1.82<br>\$2.00<br>\$4.33<br>\$1.98<br>\$4.90<br>\$2.72<br>\$2.21<br>\$3.33<br>\$1.75<br>\$2.80<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62<br>\$1.62 |
[73]<br>6/30/23<br>\$3.42<br>\$1.86<br>\$2.58<br>\$3.58<br>\$1.93<br>\$2.14<br>\$4.63<br>\$2.24<br>\$2.93<br>\$2.49<br>\$3.55<br>\$1.97<br>\$3.01<br>\$1.69<br>\$3.75<br>\$2.04<br>\$3.75<br>\$2.24<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$3.55<br>\$   | [74]<br>6/30/24<br>\$3.63<br>\$2.00<br>\$2.74<br>\$3.76<br>\$2.29<br>\$4.95<br>\$2.29<br>\$4.95<br>\$2.26<br>\$5.61<br>\$3.17<br>\$3.79<br>\$2.27<br>\$3.23<br>\$1.76<br>\$2.37<br>\$3.23<br>\$1.76<br>\$2.29   | [75]<br>6/30/25<br>\$3.86<br>\$2.13<br>\$2.91<br>\$3.96<br>\$2.44<br>\$5.29<br>\$2.42<br>\$6.03<br>\$3.41<br>\$3.06<br>\$4.07<br>\$3.47<br>\$1.84<br>\$4.19<br>\$2.42<br>\$6.20   | [76]<br>6/30/26<br>\$4.07<br>\$2.25<br>\$3.06<br>\$4.17<br>\$2.30<br>\$2.57<br>\$5.57<br>\$5.57<br>\$2.54<br>\$6.35<br>\$3.23<br>\$4.28<br>\$2.60<br>\$3.66<br>\$1.94<br>\$4.41<br>\$2.55<br>\$2.70 | [77]<br>6/30/27<br>\$4.28<br>\$2.37<br>\$3.22<br>\$4.39<br>\$2.42<br>\$2.71<br>\$5.87<br>\$2.68<br>\$3.78<br>\$3.40<br>\$4.51<br>\$2.74<br>\$3.85<br>\$2.04<br>\$2.15<br>\$2.04<br>\$2.15<br>\$2.04<br>\$2.16<br>\$2.68  
  | [78]<br>6/30/28<br>\$4.51<br>\$2.49<br>\$3.40<br>\$4.62<br>\$2.55<br>\$2.85<br>\$6.18<br>\$2.85<br>\$7.05<br>\$3.98<br>\$3.58<br>\$4.75<br>\$2.86<br>\$4.75<br>\$2.86<br>\$4.90<br>\$2.45<br>\$2.95<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$2.95<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90<br>\$4.90 | [79] 6/30/29 \$4.75 \$2.62 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.77 \$5.00 \$4.28 \$2.23 \$5.16 \$2.28 \$5.16 \$2.38   |
[80]<br>6/30/30<br>\$5.00<br>\$2.76<br>\$3.77<br>\$5.13<br>\$2.83<br>\$3.16<br>\$6.85<br>\$3.13<br>\$7.82<br>\$4.42<br>\$3.97<br>\$5.27<br>\$3.20<br>\$4.50<br>\$2.39<br>\$4.50<br>\$2.51<br>\$3.20<br>\$4.50<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.30<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$3.00<br>\$   | [81]<br>6/30/31<br>\$161.11<br>\$88.98<br>\$121.24<br>\$165.09<br>\$91.16<br>\$101.74<br>\$220.59<br>\$100.75<br>\$251.62<br>\$142.23<br>\$142.23<br>\$142.97<br>\$149.96<br>\$100.83<br>\$100.83   |

# Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 90 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2]	[3] PS Growth F	[4] Rate Fetimo	[5]	[6] Long-Term	[7]	[8] Payout Rati	[9]	[10]	[11] Solution	[12] Terminal	[13] Terminal				
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Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE	\$57.08	5.50%	5.00%	4.00%	4.83%	5.32%	66.00%	63.00%	66.88%	(\$0.00)	11.09%	20.86	3.92				
Alliant Energy Corporation	LNT AEE	\$36.64	6.10%	6.60%	6.00% 6.00%	6.23%	5.32%	64.00%	61.00%	66.88%	\$0.00 \$0.00	9.53%	20.86 20.86	3.92				
American Electric Power Company, Inc.	AEE	\$48.90 \$65.03	6.10% 4.90%	5.20% 4.10%	4.00%	5.77% 4.33%	5.32% 5.32%	68.00% 64.00%	64.00% 67.00%	66.88% 66.88%	\$0.00	9.83% 10.16%	20.86	3.92 3.92				
Avista Corporation	AVA	\$40.48	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	8.96%	20.86	3.92				
CMS Energy Corporation	CMS	\$41.70	6.40%	7.24%	6.00%	6.55%	5.32%	63.00%	62.00%	66.88%	\$0.00	9.57%	20.86	3.92				
DTE Energy Company	DTE	\$89.93	5.80%	5.35%	5.00%	5.38%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.66%	20.86	3.92				
El Paso Electric Company	EE	\$44.56	6.70%	7.00%	2.50%	5.40%	5.32%	59.00%	61.00%	66.88%	\$0.00	8.88%	20.86	3.92				
Entergy Corporation	ETR	\$76.55	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	12.62%	20.86	3.92				
Eversource Energy	ES	\$56.58	6.30%	5.49%	6.00%	5.93%	5.32%	60.00%	58.00%	66.88%	\$0.00	9.78%	20.86	3.92				
FirstEnergy Corp.	FE	\$34.24	NA 1 222/	NA 1 222/	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.11%	20.86	3.92				
IDACORP, Inc.	IDA MGEE	\$73.58 \$51.38	4.00%	4.00% 4.00%	3.00% 7.00%	3.67% 5.50%	5.32% 5.32%	53.00% 56.00%	60.00% 44.00%	66.88% 66.88%	\$0.00 \$0.00	9.07%	20.86 20.86	3.92 3.92				
MGE Energy, Inc. NorthWestern Corporation	NWF	\$59.59	NA 5.00%	5.00%	6.50%	5.50%	5.32%	65.00%	59.00%	66.88%	\$0.00	7.52% 9.56%	20.86	3.92				
OGE Energy Corp.	OGE	\$29.13	5.20%	4.30%	3.00%	4.17%	5.32%	67.00%	70.00%	66.88%	\$0.00	10.62%	20.86	3.92				
Otter Tail Corporation	OTTR	\$29.44	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	10.87%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$73.65	4.00%	3.73%	4.00%	3.91%	5.32%	64.00%	65.00%	66.88%	\$0.00	9.51%	20.86	3.92				
PNM Resources, Inc.	PNM	\$32.94	7.60%	8.76%	9.00%	8.45%	5.32%	51.00%	55.00%	66.88%	\$0.00	11.37%	20.86	3.92				
Portland General Electric Company	POR	\$40.24	6.40%	6.57%	5.50%	6.16%	5.32%	56.00%	56.00%	66.88%	\$0.00	10.20%	20.86	3.92				
SCANA Corporation	SCG	\$69.22	5.30%	5.40%	4.50%	5.07%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	10.41%	20.86	3.92				
Wisconsin Energy Corporation	WEC	\$59.53	6.30%	6.77%	6.00%	6.36%	5.32%	68.00%	67.00%	66.88%	\$0.00	8.28%	20.86	3.92				
Xcel Energy Inc.	XEL	\$41.15	5.30%	5.27%	5.50%	5.36%	5.32%	62.00%	63.00%	66.88%	\$0.00 MFAN	9.96%	20.86	3.92				
											MAX	13.11%						
											MIN	7.52%						
D :																		
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Earlings per onare		[14]	[10]	[10]	[17]	[IO]	[10]	[20]	[21]	[22]	[20]	[27]	[20]	[20]	[21]	[20]	[23]	[OO]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.54	\$3.71	\$3.89	\$4.08	\$4.28	\$4.49	\$4.71	\$4.95	\$5.21	\$5.48	\$5.77	\$6.08	\$6.41	\$6.75	\$7.11	\$7.48
Alliant Energy Corporation  Ameren Corporation	LNT AEE	\$1.69 \$2.38	\$1.80 \$2.52	\$1.91 \$2.66	\$2.03 \$2.82	\$2.15 \$2.98	\$2.29 \$3.15	\$2.43 \$3.33	\$2.57 \$3.52	\$2.72 \$3.71	\$2.87 \$3.91	\$3.03 \$4.13	\$3.19 \$4.35	\$3.36 \$4.58	\$3.54 \$4.82	\$3.73 \$5.08	\$3.92 \$5.35	\$4.13 \$5.63
American Electric Power Company, Inc.	AEP	\$3.59	\$3.75	\$3.91	\$4.08	\$4.25	\$4.44	\$4.64	\$4.85	\$5.09	\$5.34	\$5.62	\$5.92	\$6.23	\$6.56	\$6.91	\$7.28	\$7.67
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.01	\$2.15	\$2.29	\$2.44	\$2.60	\$2.76	\$2.93	\$3.10	\$3.28	\$3.46	\$3.65	\$3.84	\$4.04	\$4.26	\$4.49	\$4.73
DTE Energy Company	DTE	\$4.45	\$4.69	\$4.94	\$5.21	\$5.49	\$5.78	\$6.09	\$6.42	\$6.77	\$7.13	\$7.51	\$7.91	\$8.33	\$8.77	\$9.24	\$9.73	\$10.25
El Paso Electric Company	EE	\$2.03	\$2.14	\$2.26	\$2.38	\$2.51	\$2.64	\$2.78	\$2.93	\$3.09	\$3.25	\$3.43	\$3.61	\$3.80	\$4.01	\$4.22	\$4.44	\$4.68
Entergy Corporation	ETR	\$5.81	\$6.01	\$6.22	\$6.44	\$6.67	\$6.90	\$7.16	\$7.46	\$7.79	\$8.15	\$8.56	\$9.02	\$9.50	\$10.00	\$10.54	\$11.10	\$11.69
Eversource Energy	ES	\$2.76	\$2.92	\$3.10	\$3.28	\$3.48	\$3.68	\$3.90	\$4.12	\$4.35	\$4.59	\$4.84	\$5.10	\$5.37	\$5.65	\$5.96	\$6.27	\$6.61
FirstEnergy Corp. IDACORP, Inc.	FE IDA	\$2.00 \$3.87	\$2.18 \$4.01	\$2.38 \$4.16	\$2.59 \$4.31	\$2.82 \$4.47	\$3.08 \$4.63	\$3.34 \$4.82	\$3.59 \$5.02	\$3.85 \$5.24	\$4.10 \$5.50	\$4.35 \$5.77	\$4.58 \$6.08	\$4.82 \$6.40	\$5.08 \$6.74	\$5.35 \$7.10	\$5.63 \$7.48	\$5.93 \$7.88
MGE Energy, Inc.	MGEE	\$2.06	\$4.01	\$2.29	\$2.42	\$4.47	\$4.63 \$2.69	\$4.82 \$2.84	\$2.99	\$3.16	\$3.33	\$3.50	\$3.69	\$3.89	\$4.09	\$4.31	\$7.48 \$4.54	\$4.78
NorthWestern Corporation	NWF	\$2.00	\$3.06	\$3.23	\$3.41	\$3.59	\$3.79	\$4.00	\$4.22	\$4.44	\$4.68	\$4.93	\$5.09	\$5.47	\$5.76	\$6.07	\$6.39	\$6.73
OGE Energy Corp.	OGE	\$1.69	\$1.76	\$1.83	\$1.91	\$1.99	\$2.07	\$2.16	\$2.26	\$2.37	\$2.49	\$2.61	\$2.75	\$2.90	\$3.05	\$3.22	\$3.39	\$3.57
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$4.23	\$4.40	\$4.57	\$4.75	\$4.95	\$5.16	\$5.40	\$5.66	\$5.95	\$6.27	\$6.60	\$6.95	\$7.32	\$7.71	\$8.12
PNM Resources, Inc.	PNM	\$1.64	\$1.78	\$1.93	\$2.09	\$2.27	\$2.46	\$2.66	\$2.85	\$3.05	\$3.24	\$3.43	\$3.62	\$3.81	\$4.01	\$4.22	\$4.45	\$4.69
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.30	\$2.44	\$2.59	\$2.75	\$2.92	\$3.09	\$3.26	\$3.45	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
SCANA Corporation	SCG	\$3.81	\$4.00	\$4.21	\$4.42	\$4.64	\$4.88	\$5.13	\$5.39	\$5.67	\$5.97	\$6.28	\$6.62	\$6.97	\$7.34	\$7.73	\$8.14	\$8.58
Wisconsin Energy Corporation  Xcel Energy Inc.	WEC XEL	\$2.34 \$2.10	\$2.49 \$2.21	\$2.65 \$2.33	\$2.82 \$2.46	\$2.99 \$2.59	\$3.18 \$2.73	\$3.38 \$2.87	\$3.58 \$3.03	\$3.79 \$3.19	\$4.01 \$3.36	\$4.23 \$3.54	\$4.45 \$3.72	\$4.69 \$3.92	\$4.94 \$4.13	\$5.20 \$4.35	\$5.48 \$4.58	\$5.77 \$4.83
Acei Ellergy IIIC.	ΛCL	φ∠. IU	φ2.Z1	<b>ಫ∠.33</b>	φ∠.40	φ∠.59	φ2./3	φ∠.87	φ3.U3	φ3.19	φυ.30	φυ.54	φυ./2	φυ.92	φ <del>4</del> .13	ψ4.JO	φ4.08	ψ4.03
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Swideniu F ayout Nauc			[۱۱]	[22]	[ပပ]	[34]	ုပပ]	اموا	[97]	[JO]	[ปช]	[40]	[+1]	[44]	[40]	[44]	[40]	[40]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94% 64.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA CMS		68.00% 63.00%	66.75% 62.75%	65.50% 62.50%	64.25% 62.25%	63.00% 62.00%	63.65% 62.81%	64.29% 63.63%	64.94% 64.44%	65.59% 65.25%	66.23% 66.07%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
CMS Energy Corporation DTE Energy Company	DTF		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	EE		59.00%	59.50%	60.00%	60.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Entergy Corporation	ETR		67.00%	65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp.	OGE		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR PNW		80.00% 64.00%	75.75% 64.25%	71.50% 64.50%	67.25% 64.75%	63.00% 65.00%	63.65% 65.31%	64.29% 65.63%	64.94% 65.94%	65.59% 66.25%	66.23% 66.57%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW		64.00% 51.00%	64.25% 52.00%	64.50% 53.00%	64.75% 54.00%	65.00% 55.00%	65.31% 56.98%	65.63% 58.96%	65.94% 60.94%	66.25% 62.92%	66.57% 64.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation	WEC		68.00%	67.75%	67.50%	67.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%

Projected Annual																			
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
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Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.34	\$2.42	\$2.51	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$156.10
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.27	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$86.22
Ameren Corporation	AEE		\$1.71	\$1.78	\$1.86	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$117.47
American Electric Power Company, Inc.	AEP		\$2.40	\$2.53	\$2.67	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$159.96
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.27	\$1.35	\$1.43	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$98.58
DTE Energy Company	DTE		\$2.95	\$3.09	\$3.23	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$213.74
El Paso Electric Company	EE		\$1.26	\$1.34	\$1.43	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$97.62
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.75	\$1.84	\$1.94	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$137.81
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.13	\$2.28	\$2.44	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$164.36
MGE Energy, Inc.	MGEE		\$1.22	\$1.22	\$1.21	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$99.77
NorthWestern Corporation	NWE		\$1.99	\$2.05	\$2.11	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$140.45
OGE Energy Corp.	OGE		\$1.18	\$1.24	\$1.31	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$74.41
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$169.43
PNM Resources, Inc.	PNM		\$0.91	\$1.00	\$1.11	\$1.23	\$1.35	\$1.51	\$1.68	\$1.86	\$2.04	\$2.23	\$2.42	\$2.55	\$2.68	\$2.83	\$2.98	\$3.13	\$97.74
Portland General Electric Company	POR		\$1.21	\$1.29	\$1.37	\$1.45	\$1.54	\$1.69	\$1.84	\$2.01	\$2.18	\$2.37	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$103.51
SCANA Corporation	SCG		\$2.36	\$2.49	\$2.63	\$2.77	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$4.66	\$4.91	\$5.17	\$5.45	\$5.74	\$178.92
Wisconsin Energy Corporation	WEC		\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.40	\$2.54	\$2.68	\$2.83	\$2.98	\$3.14	\$3.30	\$3.48	\$3.67	\$3.86	\$120.42
							04.70	64.00	04.05	60.07	\$2.20	\$2.34	\$2.49	\$2.62	\$2.76	\$2.91	\$3.06	\$3.23	\$100.68
Xcel Energy Inc.  Projected Annual Data	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.72	\$1.83	\$1.95	\$2.07	\$2.20	ψ2.5 <del>4</del>	Ψ2.49	ψ2.02	ψ2.70	Ψ2.51	ψ0.00	ψ0.20	\$100.00
Xcel Energy Inc.  Projected Annual Data Investor Cash Flows	XEL	[64]	\$1.37 [65]	\$1.45 [66]	\$1.53 [67]	\$1.62 [68]	[69]	[70]	\$1.95 [71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Projected Annual Data	Ticker	Initial Outflow	[65] 6/30/16	[66] 12/31/16	[67] 6/30/17	[68] 6/30/18	[69] 6/30/19	[70] 6/30/20	[71] 6/30/21	[72] 6/30/22	[73] 6/30/23	[74] 6/30/24	[75] 6/30/25	[76] 6/30/26	[77]	[78] 6/30/28	[79] 6/30/29	[80] 6/30/30	[81] 6/30/31
Projected Annual Data Investor Cash Flows Company ALLETE, Inc.	Ticker ALE	Initial Outflow (\$57.08)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.18	[67] 6/30/17 \$2.40	[68] 6/30/18 \$2.60	[69] 6/30/19 \$2.70	[70] 6/30/20 \$2.86	[71] 6/30/21 \$3.03	[72] 6/30/22 \$3.22	[73] 6/30/23 \$3.42	[74] 6/30/24 \$3.63	[75] 6/30/25 \$3.86	[76] 6/30/26 \$4.07	[77] 6/30/27 \$4.28	[78] 6/30/28 \$4.51	[79] 6/30/29 \$4.75	[80] 6/30/30 \$5.00	[81] 6/30/31 \$161.11
Projected Annual Data Investor Cash Flows Company ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT	Initial Outflow (\$57.08) (\$36.64)	[65] 6/30/16 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58	[67] 6/30/17 \$2.40 \$1.18	[68] 6/30/18 \$2.60 \$1.33	[69] 6/30/19 \$2.70 \$1.39	[70] 6/30/20 \$2.86 \$1.50	[71] 6/30/21 \$3.03 \$1.62	[72] 6/30/22 \$3.22 \$1.74	[73] 6/30/23 \$3.42 \$1.86	[74] 6/30/24 \$3.63 \$2.00	[75] 6/30/25 \$3.86 \$2.13	[76] 6/30/26 \$4.07 \$2.25	[77] 6/30/27 \$4.28 \$2.37	[78] 6/30/28 \$4.51 \$2.49	[79] 6/30/29 \$4.75 \$2.62	[80] 6/30/30 \$5.00 \$2.76	[81] 6/30/31 \$161.11 \$88.98
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	Ticker ALE LNT AEE	Initial Outflow (\$57.08) (\$36.64) (\$48.89)	[65] 6/30/16 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86	[67] 6/30/17 \$2.40 \$1.18 \$1.76	[68] 6/30/18 \$2.60 \$1.33 \$1.94	[69] 6/30/19 \$2.70 \$1.39 \$2.02	[70] 6/30/20 \$2.86 \$1.50 \$2.15	[71] 6/30/21 \$3.03 \$1.62 \$2.28	[72] 6/30/22 \$3.22 \$1.74 \$2.43	[73] 6/30/23 \$3.42 \$1.86 \$2.58	[74] 6/30/24 \$3.63 \$2.00 \$2.74	[75] 6/30/25 \$3.86 \$2.13 \$2.91	[76] 6/30/26 \$4.07 \$2.25 \$3.06	[77] 6/30/27 \$4.28 \$2.37 \$3.22	[78] 6/30/28 \$4.51 \$2.49 \$3.40	[79] 6/30/29 \$4.75 \$2.62 \$3.58	[80] 6/30/30 \$5.00 \$2.76 \$3.77	[81] 6/30/31 \$161.11 \$88.98 \$121.24
Projected Annual Data Investor Cash Flows Company ALLETE, Inc.	Ticker ALE LNT AEE AEP	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP AVA	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64	[67] 6/30/17 \$2.40 \$1.76 \$1.76 \$2.45 \$1.38 \$1.31	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78	[71] \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07	[69] \$2.70 \$1.39 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07	[70] 6/30/20 \$2.86 \$1.50 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.44 \$5.29 \$2.42 \$6.03	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$6.35	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69	[78] 6/30/28 \$4.51 \$2.49 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82	[81] 6/30/31 \$161.11 \$88.9 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Energy Corporation Eversource Energy	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$3.38 \$1.52	[69] \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.14 \$4.63 \$2.24 \$2.93	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.29 \$4.95 \$2.61 \$3.17	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.57 \$2.54 \$6.35 \$3.59	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.66	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.51 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$2.32 \$1.71	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.14 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$142.23
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$0.60 \$0.61 \$0.61	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17	[68] 6/30/18 \$2,60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$3.38 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60	[69] 6/30/19 \$2,70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.16 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.60 \$2.51 \$1.95 \$3.13	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.27 \$2.33	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$3.58 \$2.14 \$4.63 \$2.14 \$4.61 \$2.93 \$2.49 \$2.93 \$2.93 \$2.93 \$2.55	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.29 \$3.29 \$4.28	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$191.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	Ticker ALE LNT AEE ACP AVA CMS DTE EE ES FE IDA MGEE	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$34.24) (\$73.58) (\$51.38)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$2.03 \$0.88 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.14 \$4.63 \$2.24 \$2.93 \$2.24 \$1.93 \$2.19 \$1.93 \$2.19 \$1.93	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.29 \$4.95 \$3.17 \$3.17 \$3.77 \$3.79 \$2.21	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60	[77] \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.66 \$3.78 \$3.40 \$4.51 \$2.74	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$5.27 \$3.20	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$142.23 \$142.23 \$165.09
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	Ticker ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.58) (\$56.58) (\$34.24) (\$73.58) (\$51.38) (\$59.59)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.60 \$1.20 \$2.60	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$4.07 \$2.14 \$2.78 \$1.18 \$2.78 \$1.18 \$2.24	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97 \$3.55 \$1.97	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$4.50	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$142.23 \$142.77 \$169.63 \$102.97
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company El Paso Electric Company FirstEnergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$57.08) (\$57.08) (\$57.08) (\$65.03) (\$44.89) (\$65.03) (\$44.56) (\$76.55) (\$76.55) (\$56.58) (\$51.38) (\$51.38) (\$51.38) (\$59.59) (\$29.13)	[65]  6/30/16  \$0.00	[66]  12/31/16  \$1.18  \$0.58  \$0.86  \$1.21  \$0.64  \$1.49  \$0.64  \$2.03  \$0.88  \$0.60  \$1.07  \$0.61  \$1.00  \$0.59	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.30 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.51 \$3.53 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.18	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.36 \$2.41 \$1.50	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$3.13 \$1.55 \$2.60 \$1.56	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$2.60 \$4.60 \$4.60 \$4.60 \$6.60	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.29 \$4.95 \$2.29 \$4.95 \$2.26 \$3.17 \$3.79 \$2.21 \$3.23 \$3.79 \$2.21	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.49 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$4.47	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$3.66 \$4.19	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.74 \$3.85 \$2.04	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$6.18 \$2.85 \$6.18 \$2.85 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.75 \$2.88 \$4.75 \$2.85	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$4.20 \$3.04 \$4.28	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$5.27 \$3.20 \$4.50 \$2.39	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.76 \$251.62 \$142.23 \$127.75 \$169.63 \$102.97 \$144.97
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Uder Tail Corporation	Ticker ALE LNT AEE AEP AEP EE ETR ES FE IDA MGEE NWE OGE	Initial Outflow (\$57.08) (\$57.08) (\$57.08) (\$65.03) (\$44.89) (\$65.03) (\$44.70) (\$89.93) (\$44.55) (\$56.58) (\$57.55) (\$55.58) (\$57.55) (\$55.59) (\$92.94)	[65] 6/30/16 \$0.00 \$	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.64 \$1.49 \$0.64 \$2.03 \$0.64 \$2.03 \$0.60 \$1.07 \$0.60 \$1.07 \$0.61 \$1.00 \$0.55 \$0.65	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.25 \$2.17 \$1.25 \$2.21 \$1.25 \$2.04 \$1.25 \$1.36	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.60 \$2.60 \$1.40 \$2.60 \$2.17 \$1.38	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$3.13 \$1.55 \$2.60 \$1.56	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.60	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.29 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$2.21	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.24 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.35 \$2.85 \$3.15 \$	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96 \$76.79 \$80.79
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corporation Eversource Energy FirstEnergy Corpo. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM	Initial Outflow (\$57.08) (\$57.08) (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$56.58) (\$55.35) (\$59.59) (\$29.13) (\$29.44) (\$73.65) (\$73.65) (\$29.44) (\$73.65) (\$29.44) (\$73.65)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.59	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.17 \$1.20	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$2.96	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.145 \$1.45 \$3.30 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.50 \$3.11 \$3.23	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$3.13 \$1.55 \$2.60 \$1.56 \$1.56 \$1.56 \$3.39	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$3.33 \$1.78 \$2.21 \$3.33 \$1.78 \$1.62 \$1.62 \$1.62 \$3.56	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.14 \$4.63 \$2.24 \$2.93 \$2.45 \$2.93 \$3.55 \$1.97 \$3.07 \$3.75	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.29 \$4.95 \$2.29 \$4.95 \$2.26 \$2.26 \$3.17 \$3.77 \$3.79 \$2.21 \$3.23 \$1.76 \$3.39	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$2.42 \$2.43 \$3.40 \$4.07 \$2.47 \$1.84 \$1.84 \$4.19	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$3.59 \$3.23 \$4.28 \$2.66 \$1.94 \$2.04 \$4.41	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.47 \$5.87 \$2.68 \$3.78 \$3.78 \$3.40 \$4.51 \$2.74 \$2.85 \$2.94 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$3.40 \$4.51	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$6.18 \$2.85 \$6.18 \$2.85 \$3.58 \$4.75 \$2.85 \$4.75 \$2.85 \$4.75 \$2.85 \$4.75 \$2.85 \$4.75 \$2.85 \$4.90 \$4.90	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.37 \$4.28 \$4.29 \$4.20 \$3.58 \$4.87 \$5.16	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$2.39 \$2.39 \$2.51 \$5.43	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$102.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96 \$76.79 \$80.79
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OTHE Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. Mode Energy, Inc. NorthWestern Corporation Ode Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ER ER IDA MGEE NWE OGTR PNW	Initial Outflow (\$57.08) (\$57.08) (\$57.08) (\$65.03) (\$64.88) (\$65.03) (\$41.70) (\$89.93) (\$76.55) (\$76.55) (\$57.38) (\$51.38) (\$59.59) (\$59.59) (\$59.44) (\$73.65) (\$73.65)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.09 \$0.59 \$0.67 \$1.31 \$0.46	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$2.66 \$2.66 \$2.66 \$0.95	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.62 \$2.17 \$	[69]  6/30/19  \$2.70  \$1.39  \$2.02  \$2.97  \$1.52  \$1.61  \$3.53  \$1.61  \$4.07  \$2.14  \$1.48  \$2.78  \$1.18  \$2.24  \$1.32  \$3.09  \$1.32	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.36 \$3.78 \$3.78 \$3.78	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.50 \$3.15 \$3.15 \$3.15 \$3.16	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.60 \$3.56 \$1.60 \$3.56 \$1.86	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.21 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.74	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.25 \$2.26 \$5.61 \$3.17 \$2.77 \$3.77 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.95 \$2.23	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$3.47 \$4.19	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$5.55 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$3.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.21 \$2.15 \$4.68	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26 \$4.90 \$2.26 \$4.90 \$2.28	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$5.29 \$5.29 \$5.20 \$	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.52 \$4.52 \$4.52 \$5.52 \$5.52 \$5.53	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$142.23 \$102.97 \$144.96 \$76.79 \$80.79 \$174.86
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PINM Resources, Inc. Portland General Electric Company	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM PNW PNM	Initial Outflow (\$57.08) (\$57.08) (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$34.24) (\$73.58) (\$55.59) (\$29.44) (\$73.65) (\$29.44) (\$73.65) (\$29.44) (\$73.65) (\$29.94) (\$73.65) (\$32.94)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.66	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$0.95	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$1.32 \$1.32 \$1.33 \$1.32 \$1.33 \$1.32 \$1.33 \$1.34 \$1.35	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.09 \$1.35	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.56 \$1.56 \$1.56 \$1.56 \$3.39 \$1.68 \$1.84	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.75 \$3.01 \$1.69 \$3.75 \$2.24 \$3.75 \$2.24 \$3.55	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$3.17 \$2.27 \$3.79 \$2.21 \$3.79 \$2.21 \$3.39 \$1.76 \$1.82 \$3.96 \$2.23 \$3.96 \$2.23 \$3.96 \$2.23 \$3.23 \$3.26 \$3.96 \$3.23 \$3.26 \$3.26 \$3.26 \$3.27 \$	[75] 6/30/25 \$3.86 \$2.13 \$3.96 \$2.24 \$5.29 \$2.44 \$5.29 \$2.42 \$6.03 \$3.46 \$4.07 \$2.47 \$1.84 \$4.19 \$2.45 \$2.56	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.57 \$5.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$4.41 \$2.55 \$2.70	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.47 \$5.87 \$6.69 \$3.78 \$4.51 \$2.74 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$4.65 \$2.68 \$2.84 \$2.84	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.86 \$4.06 \$2.15 \$2.26	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.77 \$5.00 \$3.04 \$4.28 \$2.23 \$5.16 \$2.98 \$3.15	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.29 \$4.50 \$2.39 \$2.51 \$5.43 \$3.31 \$3.33	[81] 6/30/31 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96 \$76.79 \$80.79 \$174.86 \$100.88 \$100.88
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ET ES FE IDA MGEE NWE OGE OTTR PNW POR SCG	Initial Outflow (\$57.08) (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$44.56) (\$76.55) (\$56.58) (\$57.55) (\$56.58) (\$57.35) (\$57.35) (\$59.59) (\$59.	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.46 \$0.61 \$1.10	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$0.96 \$1.25 \$2.24 \$2.24	[68]  6/30/18  \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38 \$1.38 \$1.32 \$2.33 \$1.45 \$1.32 \$2.33 \$1.45 \$2.33	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.24 \$51.18 \$2.24 \$51.35 \$1.52 \$1.35 \$1.52 \$1.52 \$1.52 \$1.52 \$1.52 \$1.52 \$1.52	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69 \$3.14	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.85 \$4.60 \$2.51 \$1.95 \$3.15 \$1.55 \$2.60 \$1.56 \$1.56 \$1.56 \$1.56 \$1.68 \$1.68 \$1.68 \$1.68	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.63 \$1.62 \$1.63 \$1.62 \$1.63 \$1.64 \$1.62 \$1.63 \$1.64 \$1.65 \$	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$3.58 \$1.93 \$2.11 \$5.24 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04 \$2.18 \$2.04 \$2.18	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.25 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$	[75] 6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$1.84 \$1.94 \$4.19 \$2.42 \$2.56 \$4.43	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$2.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$3.94 \$2.44 \$4.41 \$2.55 \$2.70 \$4.66	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.26 \$2.27 \$2.27 \$3.27 \$	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.75 \$2.82 \$2.25 \$2.85 \$2.85 \$3.98 \$3.58 \$4.70 \$2.82 \$3.58 \$4.82	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$3.04 \$4.20 \$3.77 \$4.20 \$3.77 \$4.20 \$3.77 \$2.38 \$5.16 \$2.98 \$3.15 \$5.46 \$5.46	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.52 \$4.52 \$5.13	[81] 6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$144.96 \$76.79 \$80.79 \$174.86 \$100.88 \$106.88 \$106.88 \$106.88
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PINM Resources, Inc. Portland General Electric Company	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM PNW PNM	Initial Outflow (\$57.08) (\$57.08) (\$57.08) (\$36.64) (\$48.89) (\$65.03) (\$40.48) (\$41.70) (\$89.93) (\$44.56) (\$76.55) (\$34.24) (\$73.58) (\$55.59) (\$29.44) (\$73.65) (\$29.44) (\$73.65) (\$29.44) (\$73.65) (\$29.94) (\$73.65) (\$32.94)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.66	[67] 6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$0.95	[68] 6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$1.32 \$1.32 \$1.33 \$1.32 \$1.33 \$1.32 \$1.33 \$1.34 \$1.35	[69] 6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.09 \$1.35	[70] 6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69	[71] 6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.56 \$1.56 \$1.56 \$1.56 \$3.39 \$1.68 \$1.84	[72] 6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62	[73] 6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.75 \$3.01 \$1.69 \$3.75 \$2.24 \$3.75 \$2.24 \$3.55	[74] 6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$3.17 \$2.27 \$3.79 \$2.21 \$3.79 \$2.21 \$3.39 \$1.76 \$1.82 \$3.96 \$2.23 \$3.96 \$2.23 \$3.96 \$2.23 \$3.23 \$3.26 \$3.96 \$3.23 \$3.26 \$3.26 \$3.26 \$3.27 \$	[75] 6/30/25 \$3.86 \$2.13 \$3.96 \$2.24 \$5.29 \$2.44 \$5.29 \$2.42 \$6.03 \$3.46 \$4.07 \$2.47 \$1.84 \$4.19 \$2.45 \$2.56	[76] 6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.57 \$5.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$4.41 \$2.55 \$2.70	[77] 6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.47 \$5.87 \$6.69 \$3.78 \$4.51 \$2.74 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$4.65 \$2.68 \$2.84 \$2.84	[78] 6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.86 \$4.06 \$2.15 \$2.26	[79] 6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.77 \$5.00 \$3.04 \$4.28 \$2.23 \$5.16 \$2.98 \$3.15	[80] 6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.29 \$4.50 \$2.39 \$2.51 \$5.43 \$3.31 \$3.33	[81] 6/30/31 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96 \$76.79 \$80.79 \$174.86 \$100.88 \$100.88

# Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 180 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

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Inputs		[1] Stock	[2]	[3]	[4] Rate Estima	[5]	[6] Long-Term	[7]	[8] Payout Rati	[9]	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
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Company	Ticker	Price	Zacks		Value Line		Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE	\$54.07	5.50%	5.00%	4.00%	4.83%	5.32%	66.00%	63.00%	66.88%	(\$0.00)	11.62%	20.86	3.92				
Alliant Energy Corporation	LNT AEE	\$33.83 \$46.40	6.10% 6.10%	6.60% 5.20%	6.00% 6.00%	6.23% 5.77%	5.32% 5.32%	64.00% 68.00%	61.00% 64.00%	66.88% 66.88%	\$0.00 \$0.00	10.27% 10.33%	20.86 20.86	3.92 3.92				
Ameren Corporation American Electric Power Company, Inc.	AEP	\$61.54	4.90%	4.10%	4.00%	4.33%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	10.55%	20.86	3.92				
Avista Corporation	AVA	\$37.83	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	9.59%	20.86	3.92				
CMS Energy Corporation	CMS	\$39.10	6.40%	7.24%	6.00%	6.55%	5.32%	63.00%	62.00%	66.88%	\$0.00	10.17%	20.86	3.92				
DTE Energy Company	DTE	\$85.80	5.80%	5.35%	5.00%	5.38%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	10.10%	20.86	3.92				
El Paso Electric Company	EE	\$41.72	6.70%	7.00%	2.50%	5.40%	5.32%	59.00%	61.00%	66.88%	\$0.00	9.48%	20.86	3.92				
Entergy Corporation Eversource Energy	ETR ES	\$72.44 \$54.15	NA 6.30%	NA 5.49%	3.50% 6.00%	3.50% 5.93%	5.32% 5.32%	67.00% 60.00%	59.00% 58.00%	66.88% 66.88%	(\$0.00) \$0.00	13.18% 10.19%	20.86 20.86	3.92 3.92				
FirstEnergy Corp.	FE	\$33.04	0.30 /6 NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.46%	20.86	3.92				
IDACORP, Inc.	IDA	\$70.82	4.00%	4.00%	3.00%	3.67%	5.32%	53.00%	60.00%	66.88%	\$0.00	9.42%	20.86	3.92				
MGE Energy, Inc.	MGEE	\$48.29	NA	4.00%	7.00%	5.50%	5.32%	56.00%	44.00%	66.88%	\$0.00	8.06%	20.86	3.92				
NorthWestern Corporation	NWE	\$57.21	5.00%	5.00%	6.50%	5.50%	5.32%	65.00%	59.00%	66.88%	\$0.00	9.93%	20.86	3.92				
OGE Energy Corp. Otter Tail Corporation	OGE	\$27.72 \$28.18	5.20% NA	4.30% 6.00%	3.00% 6.00%	4.17% 6.00%	5.32% 5.32%	67.00% 80.00%	70.00% 63.00%	66.88% 66.88%	\$0.00 \$0.00	11.11% 11.30%	20.86 20.86	3.92 3.92				
Pinnacle West Capital Corporation	PNW	\$69.12	4.00%	3.73%	4.00%	3.91%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	10.11%	20.86	3.92				
PNM Resources, Inc.	PNM	\$31.32	7.60%	8.76%	9.00%	8.45%	5.32%	51.00%	55.00%	66.88%	\$0.00	11.85%	20.86	3.92				
Portland General Electric Company	POR	\$38.74	6.40%	6.57%	5.50%	6.16%	5.32%	56.00%	56.00%	66.88%	\$0.00	10.56%	20.86	3.92				
SCANA Corporation	SCG	\$64.86	5.30%	5.40%	4.50%	5.07%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	11.02%	20.86	3.92				
Wisconsin Energy Corporation	WEC	\$55.89	6.30%	6.77%	6.00%	6.36%	5.32%	68.00%	67.00%	66.88%	\$0.00	8.85%	20.86	3.92				
Xcel Energy Inc.	XEL	\$38.85	5.30%	5.27%	5.50%	5.36%	5.32%	62.00%	63.00%	66.88%	\$0.00 MFAN	10.50%	20.86	3.92				
											MAX	13.46%						
											MIN	8.06%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company ALLETE, Inc.	Ticker ALE	2015 \$3.38	2016 \$3.54	2017 \$3.71	2018 \$3.89	2019 \$4.08	2020 \$4.28	<b>2021</b> \$4.49	2022 \$4.71	2023 \$4.95	2024 \$5.21	2025 \$5.48	<b>2026</b> \$5.77	2027 \$6.08	2028 \$6.41	2029 \$6.75	2030 \$7.11	2031 \$7.48
Alliant Energy Corporation	LNT	\$1.69	\$1.80	\$1.91	\$2.03	\$2.15	\$2.29	\$2.43	\$2.57	\$2.72	\$2.87	\$3.46	\$3.19	\$3.36	\$3.54	\$3.73	\$3.92	\$4.13
Ameren Corporation	AEE	\$2.38	\$2.52	\$2.66	\$2.82	\$2.98	\$3.15	\$3.33	\$3.52	\$3.71	\$3.91	\$4.13	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63
American Electric Power Company, Inc.	AEP	\$3.59	\$3.75	\$3.91	\$4.08	\$4.25	\$4.44	\$4.64	\$4.85	\$5.09	\$5.34	\$5.62	\$5.92	\$6.23	\$6.56	\$6.91	\$7.28	\$7.67
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.01	\$2.15	\$2.29	\$2.44	\$2.60	\$2.76	\$2.93	\$3.10	\$3.28	\$3.46	\$3.65	\$3.84	\$4.04	\$4.26	\$4.49	\$4.73
DTE Energy Company El Paso Electric Company	DTE EE	\$4.45 \$2.03	\$4.69 \$2.14	\$4.94 \$2.26	\$5.21 \$2.38	\$5.49 \$2.51	\$5.78 \$2.64	\$6.09 \$2.78	\$6.42 \$2.93	\$6.77 \$3.09	\$7.13 \$3.25	\$7.51 \$3.43	\$7.91 \$3.61	\$8.33 \$3.80	\$8.77 \$4.01	\$9.24 \$4.22	\$9.73 \$4.44	\$10.25 \$4.68
Entergy Corporation	ETR	\$5.81	\$6.01	\$6.22	\$6.44	\$6.67	\$6.90	\$7.16	\$7.46	\$7.79	\$8.15	\$8.56	\$9.02	\$9.50	\$10.00	\$10.54	\$11.10	\$11.69
Eversource Energy	ES	\$2.76	\$2.92	\$3.10	\$3.28	\$3.48	\$3.68	\$3.90	\$4.12	\$4.35	\$4.59	\$4.84	\$5.10	\$5.37	\$5.65	\$5.96	\$6.27	\$6.61
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.01	\$4.16	\$4.31	\$4.47	\$4.63	\$4.82	\$5.02	\$5.24	\$5.50	\$5.77	\$6.08	\$6.40	\$6.74	\$7.10	\$7.48	\$7.88
MGE Energy, Inc.	MGEE NWF	\$2.06 \$2.90	\$2.17 \$3.06	\$2.29 \$3.23	\$2.42 \$3.41	\$2.55 \$3.59	\$2.69 \$3.79	\$2.84 \$4.00	\$2.99 \$4.22	\$3.16 \$4.44	\$3.33 \$4.68	\$3.50 \$4.93	\$3.69 \$5.20	\$3.89 \$5.47	\$4.09 \$5.76	\$4.31 \$6.07	\$4.54 \$6.39	\$4.78 \$6.73
NorthWestern Corporation OGE Energy Corp.	OGE	\$2.90 \$1.69	\$3.06 \$1.76	\$3.23 \$1.83	\$3.41	\$3.59 \$1.99	\$3.79 \$2.07	\$4.00	\$4.22	\$4.44	\$4.68 \$2.49	\$4.93 \$2.61	\$5.20 \$2.75	\$2.90	\$3.05	\$3.22	\$3.39	\$3.57
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$4.23	\$4.40	\$4.57	\$4.75	\$4.95	\$5.16	\$5.40	\$5.66	\$5.95	\$6.27	\$6.60	\$6.95	\$7.32	\$7.71	\$8.12
PNM Resources, Inc.	PNM	\$1.64	\$1.78	\$1.93	\$2.09	\$2.27	\$2.46	\$2.66	\$2.85	\$3.05	\$3.24	\$3.43	\$3.62	\$3.81	\$4.01	\$4.22	\$4.45	\$4.69
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.30	\$2.44	\$2.59 \$4.64	\$2.75	\$2.92 \$5.13	\$3.09	\$3.26 \$5.67	\$3.45 \$5.97	\$3.64	\$3.83	\$4.03			\$4.71	\$4.96
SCANA Corporation	SCG								\$5.39						\$4.25	\$4.47		
Wisconsin Energy Corporation  Xcel Energy Inc.		\$3.81	\$4.00	\$4.21	\$4.42		\$4.88					\$6.28	\$6.62	\$6.97	\$7.34	\$7.73	\$8.14	\$8.58
	WEC	\$2.34	\$2.49	\$2.65	\$2.82	\$2.99	\$3.18	\$3.38	\$3.58	\$3.79	\$4.01	\$4.23	\$4.45	\$6.97 \$4.69	\$7.34 \$4.94	\$7.73 \$5.20	\$8.14 \$5.48	\$5.77
Desirated Assessed														\$6.97	\$7.34	\$7.73	\$8.14	
Projected Annual Dividend Payout Ratic	WEC	\$2.34	\$2.49	\$2.65	\$2.82	\$2.99	\$3.18	\$3.38	\$3.58	\$3.79	\$4.01	\$4.23	\$4.45	\$6.97 \$4.69	\$7.34 \$4.94	\$7.73 \$5.20	\$8.14 \$5.48	\$5.77
	WEC	\$2.34	\$2.49 \$2.21	\$2.65 \$2.33	\$2.82 \$2.46	\$2.99 \$2.59	\$3.18 \$2.73	\$3.38 \$2.87	\$3.58 \$3.03	\$3.79 \$3.19	\$4.01 \$3.36	\$4.23 \$3.54	\$4.45 \$3.72	\$6.97 \$4.69 \$3.92	\$7.34 \$4.94 \$4.13	\$7.73 \$5.20 \$4.35	\$8.14 \$5.48 \$4.58	\$5.77 \$4.83
	WEC XEL	\$2.34	\$2.49 \$2.21 [31]	\$2.65 \$2.33	\$2.82 \$2.46	\$2.99 \$2.59	\$3.18 \$2.73	\$3.38 \$2.87	\$3.58 \$3.03	\$3.79 \$3.19	\$4.01 \$3.36	\$4.23 \$3.54 [40]	\$4.45 \$3.72 [41]	\$6.97 \$4.69 \$3.92	\$7.34 \$4.94 \$4.13	\$7.73 \$5.20 \$4.35	\$8.14 \$5.48 \$4.58	\$5.77 \$4.83
Company	WEC XEL	\$2.34	\$2.49 \$2.21 [31] 2016	\$2.65 \$2.33 [32] 2017	\$2.82 \$2.46 [33] 2018	\$2.99 \$2.59 [34] 2019	\$3.18 \$2.73 [35]	\$3.38 \$2.87 [36]	\$3.58 \$3.03 [37] 2022	\$3.79 \$3.19 [38]	\$4.01 \$3.36 [39]	\$4.23 \$3.54 [40] 2025	\$4.45 \$3.72 [41]	\$6.97 \$4.69 \$3.92 [42] 2027	\$7.34 \$4.94 \$4.13 [43]	\$7.73 \$5.20 \$4.35 [44]	\$8.14 \$5.48 \$4.58 [45]	\$5.77 \$4.83 [46]
Company ALLETE, Inc.	WEC XEL Ticker ALE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00%	\$2.65 \$2.33 [32] 2017 65.25%	\$2.82 \$2.46 [33] 2018 64.50%	\$2.99 \$2.59 [34] 2019 63.75%	\$3.18 \$2.73 [35] 2020 63.00%	\$3.38 \$2.87 [36] 2021 63.65%	\$3.58 \$3.03 [37] 2022 64.29%	\$3.79 \$3.19 [38] 2023 64.94%	\$4.01 \$3.36 [39] 2024 65.59%	\$4.23 \$3.54 [40] 2025 66.23%	\$4.45 \$3.72 [41] 2026 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88%	\$5.77 \$4.83 [46] 2031 66.88%
Company ALLETE, Inc. Alliant Energy Corporation	WEC XEL Ticker ALE LNT	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25%	\$2.82 \$2.46 [33] 2018 64.50% 62.50%	\$2.99 \$2.59 [34] 2019 63.75% 61.75%	\$3.18 \$2.73 [35] 2020 63.00% 61.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98%	\$3.58 \$3.03 [37] 2022 64.29% 62.96%	\$3.79 \$3.19 [38] 2023 64.94% 63.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92%	\$4.23 \$3.54 [40] 2025 66.23% 65.90%	\$4.45 \$3.72 [41] 2026 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88%
Company ALLETE, Inc.	WEC XEL Ticker ALE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00%	\$2.65 \$2.33 [32] 2017 65.25%	\$2.82 \$2.46 [33] 2018 64.50%	\$2.99 \$2.59 [34] 2019 63.75%	\$3.18 \$2.73 [35] 2020 63.00%	\$3.38 \$2.87 [36] 2021 63.65%	\$3.58 \$3.03 [37] 2022 64.29%	\$3.79 \$3.19 [38] 2023 64.94%	\$4.01 \$3.36 [39] 2024 65.59%	\$4.23 \$3.54 [40] 2025 66.23%	\$4.45 \$3.72 [41] 2026 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88%	\$5.77 \$4.83 [46] 2031 66.88%
Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	Ticker ALE LNT AEE AEP AVA	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 66.00% 65.50% 65.50%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.59%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00% 63.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75% 62.75%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 66.00% 65.50% 65.50% 62.50%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 62.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65% 62.81%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29% 63.63%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94% 64.94% 64.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 65.92% 65.59% 65.25%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23% 66.07%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation Amerean Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.75% 62.50%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.50% 62.00%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00%	[36] 2021 63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 66.94% 64.94% 64.44% 63.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.25% 64.92%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.27% 65.90%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 59.00%	\$2.65 \$2.33 [32] 2017 65.25% 67.00% 64.75% 66.75% 62.75% 59.50%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 60.00%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 66.98% 62.81% 61.98% 61.98%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 62.96%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 66.94% 64.94% 64.94% 63.94% 63.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.25% 64.92% 64.92%	\$4.23 \$3.54 [40] 2025 66.23% 66.90% 66.90% 66.23% 66.07% 65.90%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	Ticker ALE LNT AEP AVA CMS DTE EE ETR	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 67.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 59.50% 65.00%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 60.00% 60.00%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00%	\$3.18 \$2.73 [35] 2020 63.00% 64.00% 67.00% 63.00% 62.00% 61.00% 61.00% 69.00% 69.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 66.98% 62.81% 61.98% 61.98% 60.31%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.69% 66.96% 64.29% 63.63% 62.96% 62.96% 61.63%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 65.44% 64.94% 64.94% 63.94% 63.94% 63.94% 62.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.57%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation Amerean Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Corporation El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy	Ticker ALE LNT AEE AEP AVA CMS DTE EE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 59.00%	\$2.65 \$2.33 [32] 2017 65.25% 67.00% 64.75% 66.75% 62.75% 59.50%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 60.00%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 66.98% 62.81% 61.98% 61.98%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 62.96%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 66.94% 64.94% 64.94% 63.94% 63.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.25% 64.92% 64.92%	\$4.23 \$3.54 [40] 2025 66.23% 66.90% 66.90% 66.23% 66.07% 65.90%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 64.00% 63.00% 63.00% 63.00% 63.00% 60.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 62.50% 59.50% 65.00%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 61.00%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 62.00% 61.00% 61.00% 59.00% 59.00%	\$3.38 \$2.87 [36] 2021 63.65% 64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 60.31% 60.98%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 64.29% 62.96% 62.96% 62.96% 62.96% 60.96%	\$3.79 \$3.19 [38] 2023 64.94% 65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.25% 63.92%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.07% 65.90% 65.90% 65.57% 65.57% 65.40%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00% 60.00% 55.00% 56.00% 56.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 64.75% 66.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 53.25% 54.75%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.00% 60.00% 63.00% 51.50% 59.00% 50.00% 50.00%	\$2.99 \$2.59 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.50% 49.75% 58.50% 49.75%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 63.00% 62.00% 61.00% 61.00% 64.00	[36] 2021 63.65% 61.98% 64.48% 63.65% 61.98% 61.98% 61.98% 61.98% 61.15% 61.15% 61.15%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 64.29% 62.96% 62.96% 61.63% 60.96% 64.29% 62.96% 61.53% 60.96% 61.53% 60.96% 61.53%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 65.44% 64.94% 63.94% 63.94% 62.94% 62.44% 57.44% 55.44%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 65.29% 64.92% 64.92% 64.92% 60.59% 64.59% 64.55%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 65.90% 65.90% 65.57% 65.40% 63.73% 65.37%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	Ticker  ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 67.00% 67.00% 55.00% 55.00% 56.00% 66.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.75% 65.95% 65.00% 59.50% 54.75% 53.05% 53.05%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 65.50% 65.50% 65.50% 60.00% 63.00% 59.00% 51.50% 56.50% 50.00% 50.00%	\$2.99 \$2.59 [34] 2019 63.75% 65.00% 66.25% 64.25% 64.25% 61.50% 61.00% 58.50% 49.75% 58.25% 47.00% 60.50%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 63.00% 63.00% 63.00% 63.00% 61.00% 59.00% 59.00% 60.00% 44.00% 60.00	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 63.65% 62.81% 61.98% 60.31% 59.48% 61.15% 47.81% 60.31%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.99% 66.96% 64.29% 63.63% 62.96% 61.63% 60.26% 54.29% 51.63% 61.63%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 65.44% 64.94% 64.94% 62.94% 62.94% 63.94% 62.94% 63.94% 62.94% 63.94% 63.94% 64.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.59% 65.25% 64.25% 63.92% 60.59% 64.25% 63.92% 64.25% 64.59% 64.59%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.90% 65.90% 65.90% 65.97% 63.07% 65.77% 65.77%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7,73 \$5,20 \$4,35 [44] 2029 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. OGE Energy Corp.	Ticker  ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWEE	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 60.00% 55.00% 55.00% 56.00% 65.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 64.75% 66.75% 62.75% 62.50% 59.50% 63.00% 63.00% 63.00% 63.00% 63.75%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.50% 62.50% 62.50% 59.00% 51.50% 50.00% 50.00% 62.00%	\$2,99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 60.50% 61.50% 60.50% 49.75% 58.50% 47.00% 60.50% 60.50% 60.50%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 61.00% 61.00% 59.00% 44.00% 59.00% 44.00% 59.00%	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 66.98% 63.65% 62.81% 61.98% 61.98% 61.15% 47.81% 60.31% 47.81% 60.34%	\$3.58 \$3.03 [37] 2022 64.29% 62.99% 64.96% 64.96% 62.96% 62.96% 61.63% 60.96% 51.63% 61.63%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 66.94% 64.94% 63.94% 62.94% 62.44% 55.44% 62.94% 62.84% 66.84%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.59% 66.92% 66.52% 64.92% 64.92% 64.92% 64.95% 63.92% 60.59% 64.59% 64.59% 64.59% 64.59% 64.59%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.29% 66.90% 65.90% 65.90% 65.57% 65.40% 63.73% 63.07% 65.73% 67.40%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6,97 \$4,69 \$3,92 [42] 2027 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88% 66,88%	\$7.34 \$4.94 \$4.13 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7,73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
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Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. OGE Energy Corp.	Ticker ALE LNT AEP AVA CMS DTE EE ETR ES FE NWE OGE OTTR	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 64.00% 63.00% 63.00% 63.00% 65.00% 65.00% 65.00% 67.00% 68.00%	\$2.65 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.50% 62.50% 65.00% 59.50% 65.00% 53.25% 63.50% 63.50% 63.50% 67.75% 75.75%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 65.50% 62.00% 63.00% 59.00% 63.00% 55.50% 60.00% 63.00% 65.50% 60.00% 63.00% 65.50% 60.00% 63.00% 65.50%	\$2.99 \$2.59 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 60.50% 60.50% 61.00% 58.50% 49.75% 60.50% 60.50% 60.50% 60.50%	\$3.18 \$2.73 [35] 2020 63.00% 64.00% 64.00% 63.00% 62.00% 61.00% 61.00% 61.00% 61.00% 61.00% 61.00% 63.00% 63.00% 63.00% 63.00% 63.00% 63.00% 63.00%	[36] 2021 63,65% 61,98% 66,98% 66,98% 63,65% 62,81% 61,98% 60,31% 51,15% 47,81% 60,31% 60,31% 60,31% 61,98% 60,31% 61,98% 60,31% 61,98% 60,31% 61,98% 60,31% 61,98% 60,31% 61,98% 61	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.96% 64.96% 63.63% 62.96% 62.96% 62.96% 62.96% 62.96% 63.63% 64.29% 64.29% 64.63% 64.63% 64.63% 64.63%	\$3.79 \$3.19 [38] 2023 64.94% 63.94% 65.44% 64.94% 64.94% 62.94% 62.94% 62.94% 62.94% 62.94% 64.44% 64.94% 64.94% 64.94% 64.94% 64.94% 64.94% 64.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.92% 65.59% 65.59% 64.92% 64.92% 64.92% 64.92% 64.25% 63.92% 64.59% 64.59% 65.59%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.90% 66.90% 65.90% 65.90% 65.90% 65.90% 65.77% 65.77% 65.77% 65.77%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7,73 \$5.20 \$4.35 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation Office Energy Corporation Office Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. Moff Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation PhM Resources, Inc. Portland General Electric Company SCANA Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR BOMGEE IDA MGEE NWE OTTR PNW PNM POR SCG	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 55.00% 55.00% 55.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00%	\$2.65 \$2.33 [32] 2017 65.25% 67.00% 64.75% 66.75% 62.75% 62.50% 65.00% 59.50% 63.25% 54.75% 63.00% 63.50% 6	\$2.82 \$2.46 [33] 2018 64.50% 66.00% 65.50% 65.50% 62.50% 62.00% 63.00% 59.00% 50.00% 62.00% 62.00% 63.00% 51.50% 62.00% 63.00% 51.50% 62.00% 63.00% 53.00% 6	\$2.99 \$2.59 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 69.50% 49.75% 58.50% 47.00% 60.50% 69.25% 67.25% 64.75% 54.75% 55.00% 56.00% 56.00%	\$3.18 \$2.73 [35] 2020 63.00% 61.00% 64.00% 63.00% 61.00% 63.00% 64.00% 64.00% 61.00% 64.00% 65.00% 64.00% 65.00% 65.00% 65.00% 65.00% 66.00%	\$3.38 \$2.87 [36] 2021 63.65% 64.98% 64.48% 66.98% 62.81% 61.98% 61.98% 47.81% 60.31% 69.48% 47.81% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65%	\$3.58 \$3.03 [37] 2022 64.29% 62.98% 64.98% 66.98% 63.63% 62.96% 61.63% 60.96% 51.63% 64.29% 65.63% 64.29% 65.63% 64.29% 65.63% 64.29%	\$3.79 \$3.19 [38] 2023 64.94% 65.44% 66.94% 64.94% 64.94% 63.94% 62.94% 62.94% 62.94% 62.94% 62.94% 63.94% 61.44% 64.94% 64.94% 65.94% 64.94% 6	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 65.59% 62.25% 64.92% 64.25% 64.25% 64.25% 64.25% 64.25% 64.25% 65.59% 66.59% 66.59% 66.59% 66.59% 66.92% 66.92% 66.92% 66.92% 66.59% 66.92%	\$4,23 \$3.54 [40] 2025 66,23% 66,90% 66,90% 66,90% 66,90% 65,90% 65,90% 65,90% 65,90% 65,90% 65,90% 65,90% 65,90% 66,23% 66,57% 67,40% 66,23% 66,57% 67,40% 66,57% 67,40% 66,57% 67,40% 66,57% 67,40	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.97 \$4.69 \$3.92 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.34 \$4.94 \$4.13 \$4.13 \$66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 \$4.35 \$4.35 \$6.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. DIOGEORP, Inc. NorthWestern Corporation OGE Energy Corp. Poter Tail Corporation Pinnacle West Capital Corporation Pinn Resources, Inc. Portland General Electric Company	Ticker  ALE LNT AEE AEP AVA CMS DTE EETR ES FE IDA MGEE NWE OGTE PNW PNM POR	\$2.34	\$2.49 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 63.00% 63.00% 63.00% 63.00% 63.00% 64.00% 55.00% 67.00% 6	\$2.65 \$2.33 [32] 2017 65.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 59.50% 59.50% 53.25% 53.25% 53.25% 67.75% 67.75% 67.75% 64.25% 64.25% 64.25% 64.25%	\$2.82 \$2.46 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.50% 62.00% 59.00% 51.50% 59.00% 51.50% 65.50% 64.50% 50.00% 64.50% 50.00% 68.50% 64.50% 50.00% 68.50% 68.50% 68.50% 68.50%	\$2.99 \$2.59 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.50% 61.50% 68.50% 47.00% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25%	\$3.18 \$2.73 [35] 2020 63.00% 64.00% 67.00% 63.00% 62.00% 61.00% 58.00% 48.00% 48.00% 60.0	\$3.38 \$2.87 [36] 2021 63.65% 61.98% 64.48% 66.98% 61.98% 61.98% 61.98% 61.98% 61.98% 61.5% 59.48% 63.65%	\$3.58 \$3.03 [37] 2022 64.29% 62.96% 64.99% 66.96% 62.96% 61.63% 60.96% 54.29% 61.63% 68.96% 68.96% 68.96% 68.96% 68.96% 68.96%	\$3.79 \$3.19 2023 64.94% 65.44% 66.94% 64.44% 63.94% 62.94% 62.44% 57.44% 68.44% 68.44% 68.44% 68.94% 68.94% 68.94% 61.94% 61.94% 61.94% 61.94% 61.94%	\$4.01 \$3.36 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.92% 64.25% 64.25% 62.59% 67.92% 66.25% 67.92% 63.32% 63.32% 63.32% 63.32%	\$4.23 \$3.54 [40] 2025 66.23% 65.90% 66.40% 66.90% 65.57% 65.90% 65.57% 65.73% 65.73% 65.73% 65.73% 65.73% 65.57% 64.90% 65.57%	\$4.45 \$3.72 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6,97 \$4,69 \$3,92 [42] 2027 66,88%	\$7.34 \$4.94 \$4.13 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.73 \$5.20 \$4.35 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$8.14 \$5.48 \$4.58 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.77 \$4.83 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%

Projected Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Terminal Value
ALLETE, Inc.	ALE		\$2.34	\$2.42	\$2.51	\$2.60	\$2.70	\$2.86	\$3.03	\$3.22	\$3.42	\$3.63	\$3.86	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$156.10
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.27	\$1.33	\$1.39	\$1.50	\$1.62	\$1.74	\$1.86	\$2.00	\$2.13	\$2.25	\$2.37	\$2.49	\$2.62	\$2.76	\$86.22
Ameren Corporation	AEE		\$1.71	\$1.78	\$1.86	\$1.94	\$2.02	\$2.15	\$2.28	\$2.43	\$2.58	\$2.74	\$2.91	\$3.06	\$3.22	\$3.40	\$3.58	\$3.77	\$117.47
American Electric Power Company, Inc.	AEP		\$2.40	\$2.53	\$2.67	\$2.82	\$2.97	\$3.11	\$3.25	\$3.41	\$3.58	\$3.76	\$3.96	\$4.17	\$4.39	\$4.62	\$4.87	\$5.13	\$159.96
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.27	\$1.35	\$1.43	\$1.52	\$1.61	\$1.73	\$1.86	\$2.00	\$2.14	\$2.29	\$2.44	\$2.57	\$2.71	\$2.85	\$3.00	\$3.16	\$98.58
DTE Energy Company	DTE		\$2.95	\$3.09	\$3.23	\$3.38	\$3.53	\$3.78	\$4.04	\$4.33	\$4.63	\$4.95	\$5.29	\$5.57	\$5.87	\$6.18	\$6.51	\$6.85	\$213.74
El Paso Electric Company	EE		\$1.26	\$1.34	\$1.43	\$1.52	\$1.61	\$1.72	\$1.85	\$1.98	\$2.11	\$2.26	\$2.42	\$2.54	\$2.68	\$2.82	\$2.97	\$3.13	\$97.62
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.75	\$1.84	\$1.94	\$2.03	\$2.14	\$2.32	\$2.51	\$2.72	\$2.93	\$3.17	\$3.41	\$3.59	\$3.78	\$3.98	\$4.20	\$4.42	\$137.81
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.13	\$2.28	\$2.44	\$2.60	\$2.78	\$2.94	\$3.13	\$3.33	\$3.55	\$3.79	\$4.07	\$4.28	\$4.51	\$4.75	\$5.00	\$5.27	\$164.36
MGE Energy, Inc.	MGEE		\$1.22	\$1.22	\$1.21	\$1.20	\$1.18	\$1.36	\$1.55	\$1.75	\$1.97	\$2.21	\$2.47	\$2.60	\$2.74	\$2.88	\$3.04	\$3.20	\$99.77
NorthWestern Corporation	NWE		\$1.99	\$2.05	\$2.11	\$2.17	\$2.24	\$2.41	\$2.60	\$2.80	\$3.01	\$3.23	\$3.47	\$3.66	\$3.85	\$4.06	\$4.28	\$4.50	\$140.45
OGE Energy Corp.	OGE		\$1.18	\$1.24	\$1.31	\$1.38	\$1.45	\$1.50	\$1.56	\$1.62	\$1.69	\$1.76	\$1.84	\$1.94	\$2.04	\$2.15	\$2.27	\$2.39	\$74.41
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.96	\$3.09	\$3.23	\$3.39	\$3.56	\$3.75	\$3.96	\$4.19	\$4.41	\$4.65	\$4.90	\$5.16	\$5.43	\$169.43
PNM Resources, Inc.	PNM		\$0.91	\$1.00	\$1.11	\$1.23	\$1.35	\$1.51	\$1.68	\$1.86	\$2.04	\$2.23	\$2.42	\$2.55	\$2.68	\$2.83	\$2.98	\$3.13	\$97.74
Portland General Electric Company	POR		\$1.21	\$1.29	\$1.37	\$1.45	\$1.54	\$1.69	\$1.84	\$2.01	\$2.18	\$2.37	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$103.51
SCANA Corporation	SCG		\$2.36	\$2.49	\$2.63	\$2.77	\$2.93	\$3.14	\$3.36	\$3.60	\$3.85	\$4.13	\$4.43	\$4.66	\$4.91	\$5.17	\$5.45	\$5.74	\$178.92
Wisconsin Energy Corporation	WEC		\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.40	\$2.54	\$2.68	\$2.83	\$2.98	\$3.14	\$3.30	\$3.48	\$3.67	\$3.86	\$120.42
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.72	\$1.83	\$1.95	\$2.07	\$2.20	\$2.34	\$2.49	\$2.62	\$2.76	\$2.91	\$3.06	\$3.23	\$100.68
Projected Applied Date																			
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
	Ticker	[64] Initial Outflow	[65] 6/30/16	[66] 12/31/16	[67] 6/30/17	[68] 6/30/18	[69] 6/30/19	[70] 6/30/20	[71] 6/30/21	[72] 6/30/22	[73] 6/30/23	[74] 6/30/24	[75] 6/30/25	[76] 6/30/26	[77] 6/30/27	[78] 6/30/28	[79] 6/30/29	[80] 6/30/30	[81] 6/30/31
Investor Cash Flows	Ticker ALE	Initial																	
Investor Cash Flows Company		Initial Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
Investor Cash Flows  Company  ALLETE, Inc.	ALE	Initial Outflow (\$54.07)	6/30/16 \$0.00	12/31/16 \$1.18	6/30/17 \$2.40	6/30/18 \$2.60	6/30/19 \$2.70	6/30/20 \$2.86	6/30/21 \$3.03	6/30/22 \$3.22	6/30/23 \$3.42	6/30/24 \$3.63	6/30/25 \$3.86	6/30/26 \$4.07	6/30/27 \$4.28	6/30/28 \$4.51	6/30/29 \$4.75	6/30/30 \$5.00	6/30/31 \$161.11
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation	ALE LNT	Initial Outflow (\$54.07) (\$33.83)	6/30/16 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58	6/30/17 \$2.40 \$1.18	6/30/18 \$2.60 \$1.33	6/30/19 \$2.70 \$1.39	6/30/20 \$2.86 \$1.50	6/30/21 \$3.03 \$1.62	6/30/22 \$3.22 \$1.74	6/30/23 \$3.42 \$1.86	6/30/24 \$3.63 \$2.00	6/30/25 \$3.86 \$2.13	6/30/26 \$4.07 \$2.25	6/30/27 \$4.28 \$2.37	6/30/28 \$4.51 \$2.49	6/30/29 \$4.75 \$2.62	6/30/30 \$5.00 \$2.76	6/30/31 \$161.11 \$88.98
Investor Cash Flows  Company  ALLETE, Inc.  Alliant Energy Corporation  Ameren Corporation	ALE LNT AEE	Initial Outflow (\$54.07) (\$33.83) (\$46.40)	6/30/16 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86	6/30/17 \$2.40 \$1.18 \$1.76	6/30/18 \$2.60 \$1.33 \$1.94	6/30/19 \$2.70 \$1.39 \$2.02	6/30/20 \$2.86 \$1.50 \$2.15	6/30/21 \$3.03 \$1.62 \$2.28	6/30/22 \$3.22 \$1.74 \$2.43	6/30/23 \$3.42 \$1.86 \$2.58	6/30/24 \$3.63 \$2.00 \$2.74	6/30/25 \$3.86 \$2.13 \$2.91	6/30/26 \$4.07 \$2.25 \$3.06	6/30/27 \$4.28 \$2.37 \$3.22	6/30/28 \$4.51 \$2.49 \$3.40	6/30/29 \$4.75 \$2.62 \$3.58	6/30/30 \$5.00 \$2.76 \$3.77	6/30/31 \$161.11 \$88.98 \$121.24
Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc.	ALE LNT AEE AEP	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	ALE LNT AEE AEP AVA	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	ALE LNT AEE AEP AVA CMS DTE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company	ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75
Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Enlergy Corporation Eversource Energy	ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$5.54 \$6.35 \$3.59	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.64 \$1.49 \$0.64 \$1.49	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.50 \$2.51 \$1.95 \$3.13	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.76	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$72.44) (\$70.82) (\$48.29) (\$57.21) (\$70.82)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$4.07 \$2.14 \$1.48 \$1.48	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.24 \$4.25 \$4.2	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Company Eversource Energy FirstEnergy Corp, IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$54.07) (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$27.72)	6/30/16 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$2.4	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.60	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.59 \$3.23 \$4.28 \$2.60 \$3.66	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.85 \$7.05 \$3.98 \$3.58 \$4.75 \$2.88 \$4.06 \$2.15 \$2.26	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Enlergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$72.44) (\$70.82) (\$48.29) (\$57.21) (\$70.82)	6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.00 \$0.59	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.21 \$1.25	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.17 \$1.38	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.28 \$1.24 \$2.14 \$1.45	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.28 \$4.06 \$2.15 \$2.25 \$4.06 \$4.90	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.77 \$5.00 \$3.428 \$2.27 \$2.38 \$2.27 \$2.51 \$2.51	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$3.97 \$5.27 \$3.20 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.43	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96 \$76.79
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	ALE LNT AEP AVA CMS DTE EE ETR ES IDA MGEE NWE OGE OTTR	Initial Outflow (\$54.07) (\$54.07) (\$53.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$72.44) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$28.17) (\$69.12) (\$69.12)	6/30/16 \$0.00 \$0.0	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.07 \$0.61 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$1.30 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$3.38 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.51 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$2.41 \$1.50 \$2.41 \$1.50	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.60 \$3.56 \$1.86	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94 \$4.19 \$2.42	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.29 \$3.29 \$3.29 \$2.66 \$3.66 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$4.75 \$2.88 \$4.75 \$2.86 \$4.26 \$2.15 \$2.26 \$4.90 \$2.26 \$4.90 \$2.26 \$4.90 \$2.26 \$2.2	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.52 \$4.52 \$4.52 \$5.27 \$5.2	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$100.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.97 \$144.96 \$76.79 \$80.79
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWesterm Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation PINM Resources, Inc. PNM Resources, Inc. Portland General Electric Company	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$42.72) (\$22.72) (\$28.17) (\$28.17)	6/30/16 \$0.00 \$0.0	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.86 \$0.60 \$1.07 \$0.60 \$1.00 \$0.59 \$0.65 \$1.10 \$0.59 \$0.	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$0.95 \$1.25	6/30/18 \$2,60 \$1,33 \$1,94 \$2,82 \$1,48 \$1,52 \$4,07 \$2,60 \$1,20 \$2,17 \$1,32 \$2,96 \$1,23 \$1,45	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$2.78 \$1.48 \$2.78 \$1.45 \$1.32 \$3.53	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$2.32 \$1.71 \$2.94 \$1.36 \$1.50 \$1.41 \$1.50 \$1.43	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$1.50 \$3.39	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.60 \$3.56 \$1.60 \$3.56 \$2.01	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.24 \$3.75 \$2.24 \$3.55	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$3.78 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.75 \$2.28 \$4.06 \$2.15 \$2.25 \$4.06 \$4.90	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.77 \$5.00 \$3.428 \$2.27 \$2.38 \$2.27 \$2.51 \$2.51	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$3.97 \$5.27 \$3.20 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.43	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$142.23 \$142.23 \$142.23 \$142.62
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PNM Resources, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR SCG	Initial Outflow (\$54.07) (\$54.07) (\$53.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$72.44) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$28.17) (\$69.12) (\$69.12)	6/30/16 \$0.00 \$0.0	12/31/16 \$1.18 \$0.58 \$0.86 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.86 \$0.60 \$1.07 \$0.61 \$1.07 \$0.61 \$1.00 \$0.59 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$1.31 \$0.67 \$0.67 \$1.31 \$0.67 \$0.	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.17 \$1.26 \$2.66 \$2.66 \$2.66 \$2.66 \$0.95	6/30/18 \$2.60 \$1.33 \$1.94 \$2.82 \$1.48 \$1.52 \$4.07 \$2.03 \$1.40 \$2.60 \$1.20 \$2.60 \$1.20 \$2.17 \$1.38 \$1.32 \$2.96 \$1.23 \$1.42 \$1.23 \$1.23 \$1.23 \$1.23	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.39 \$1.35 \$1.52	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$3.151	6/30/21 \$3.03 \$1.62 \$2.28 \$3.25 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.66 \$1.50 \$3.39 \$1.56 \$1.50 \$3.39 \$1.68	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.62 \$1.62 \$1.62 \$1.62 \$1.86 \$2.01 \$3.60 \$3.60	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.21 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.04 \$2.04 \$3.85 \$3.85	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.25 \$4.95 \$2.26 \$5.61 \$3.17 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23 \$3.96 \$2.23 \$3.41 \$3.81 \$4.8	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.84 \$1.94 \$4.19 \$2.42	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$5.57 \$2.54 \$6.35 \$3.29 \$3.29 \$3.29 \$2.66 \$3.66 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.78 \$3.40 \$4.51 \$2.74 \$2.64 \$2.15 \$2.04 \$2.15 \$2.68 \$2.68 \$2.68 \$2.68 \$2.68 \$2.68 \$2.68 \$3.7	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$4.75 \$2.82 \$4.75 \$2.82 \$4.06 \$2.15 \$2.82 \$4.62 \$2.55 \$4.82 \$4.6	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.33 \$3.13	6/30/31 \$161.11 \$88.98 \$121.29 \$165.09 \$91.16 \$101.74 \$220.59 \$100.75 \$251.62 \$142.23 \$127.77 \$144.99 \$76.79 \$80.79 \$174.86
Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWesterm Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. PNM Resources, Inc. Portland General Electric Company	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	Initial Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$91.54) (\$37.83) (\$91.54) (\$72.44) (\$72.44) (\$70.82) (\$57.21) (\$27.72) (\$27.72) (\$27.72) (\$28.77) (\$69.12) (\$31.32) (\$33.24)	6/30/16 \$0.00	12/31/16 \$1.18 \$0.58 \$0.58 \$0.68 \$1.21 \$0.68 \$0.64 \$1.49 \$0.64 \$2.03 \$0.88 \$0.60 \$1.00 \$0.61 \$1.00 \$0.56 \$1.31 \$0.67 \$1.31 \$0.66 \$0.66	6/30/17 \$2.40 \$1.18 \$1.76 \$2.45 \$1.38 \$1.31 \$3.03 \$4.10 \$1.81 \$1.25 \$2.17 \$1.25 \$2.04 \$1.36 \$2.66 \$0.95 \$1.25	6/30/18 \$2,60 \$1,33 \$1,94 \$2,82 \$1,48 \$1,52 \$4,07 \$2,60 \$1,20 \$2,17 \$1,32 \$2,96 \$1,23 \$1,45	6/30/19 \$2.70 \$1.39 \$2.02 \$2.97 \$1.52 \$1.61 \$3.53 \$1.61 \$4.07 \$2.14 \$1.48 \$2.78 \$1.18 \$2.24 \$1.45 \$1.32 \$3.09 \$1.35 \$1.54	6/30/20 \$2.86 \$1.50 \$2.15 \$3.11 \$1.61 \$1.73 \$3.78 \$1.72 \$4.32 \$2.32 \$1.71 \$2.94 \$1.36 \$2.41 \$1.50 \$1.41 \$3.23 \$1.51 \$1.69	6/30/21 \$3.03 \$1.62 \$2.28 \$1.71 \$1.86 \$4.04 \$1.85 \$4.60 \$2.51 \$1.95 \$3.13 \$1.55 \$2.60 \$1.56 \$3.33 \$1.50 \$3.33 \$1.62	6/30/22 \$3.22 \$1.74 \$2.43 \$3.41 \$1.82 \$2.00 \$4.33 \$1.98 \$4.90 \$2.72 \$2.21 \$3.33 \$1.75 \$2.80 \$1.60 \$3.56 \$1.60 \$3.56 \$2.01	6/30/23 \$3.42 \$1.86 \$2.58 \$3.58 \$1.93 \$2.14 \$4.63 \$2.11 \$5.24 \$2.93 \$2.49 \$3.55 \$1.97 \$3.01 \$1.69 \$1.71 \$3.75 \$2.24 \$3.75 \$2.24 \$3.55	6/30/24 \$3.63 \$2.00 \$2.74 \$3.76 \$2.05 \$2.29 \$4.95 \$2.26 \$5.61 \$3.17 \$2.77 \$3.79 \$2.21 \$3.23 \$1.76 \$1.82 \$3.96 \$2.23 \$3.96 \$2.23 \$2.37	6/30/25 \$3.86 \$2.13 \$2.91 \$3.96 \$2.19 \$2.44 \$5.29 \$2.42 \$6.03 \$3.41 \$3.06 \$4.07 \$2.47 \$3.47 \$1.94 \$4.19 \$2.42 \$2.56	6/30/26 \$4.07 \$2.25 \$3.06 \$4.17 \$2.30 \$2.57 \$5.57 \$2.54 \$6.35 \$3.23 \$4.28 \$2.60 \$3.66 \$1.94 \$2.04 \$4.41 \$2.55 \$2.70	6/30/27 \$4.28 \$2.37 \$3.22 \$4.39 \$2.42 \$2.71 \$5.87 \$2.68 \$6.69 \$3.40 \$4.51 \$2.74 \$3.85 \$2.04 \$2.15 \$4.65 \$2.68	6/30/28 \$4.51 \$2.49 \$3.40 \$4.62 \$2.55 \$2.85 \$6.18 \$2.82 \$7.05 \$3.98 \$3.58 \$4.76 \$2.26 \$4.90 \$2.26 \$4.90 \$2.29 \$2.29 \$2.29	6/30/29 \$4.75 \$2.62 \$3.58 \$4.87 \$2.69 \$3.00 \$6.51 \$2.97 \$7.42 \$4.20 \$3.77 \$5.00 \$3.04 \$4.28 \$2.27 \$2.38 \$5.16 \$2.98 \$3.15	6/30/30 \$5.00 \$2.76 \$3.77 \$5.13 \$2.83 \$3.16 \$6.85 \$3.13 \$7.82 \$4.42 \$3.97 \$5.27 \$3.20 \$4.50 \$2.39 \$2.51 \$5.43 \$3.33 \$3.33 \$3.33	6/30/31 \$161.11 \$88.98 \$121.24 \$165.09 \$91.16 \$101.74 \$220.59 \$102.75 \$251.62 \$142.23 \$127.77 \$169.63 \$102.95 \$144.96 \$76.79 \$80.79 \$174.86 \$100.83

# Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 30 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

						LOW	EPS Growt	II I Kato Estil	nate iii i ii s	Collage								
Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EF	S Growth F	Rate Estimat	low	Long-Term	1	Payout Ration	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Value Line	Growth	Growth	2016	2020	2026	Proof	IRR	P/F Ratio	PEG Ratio				
ALLETE, Inc.	ALE	\$59.67	5.50%	5.00%	4.00%	4.00%	5.32%	66.00%	63.00%	66.88%	\$0.00	10.14%	20.86	3.92				
Alliant Energy Corporation	LNT	\$38.20	6.10%	6.60%	6.00%	6.00%	5.32%	64.00%	61.00%	66.88%	\$0.00	9.01%	20.86	3.92				
Ameren Corporation	AEE	\$50.12	6.10%	5.20%	6.00%	5.20%	5.32%	68.00%	64.00%	66.88%	\$0.00	9.26%	20.86	3.92				
American Electric Power Company, Inc.	AEP	\$66.05	4.90%	4.10%	4.00%	4.00%	5.32%	64.00%	67.00%	66.88%	\$0.00	9.80%	20.86	3.92				
Avista Corporation	AVA	\$41.65	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	8.70%	20.86	3.92				
CMS Energy Corporation DTE Energy Company	CMS DTE	\$42.95 \$92.91	6.40% 5.80%	7.24% 5.35%	6.00% 5.00%	6.00% 5.00%	5.32% 5.32%	63.00% 63.00%	62.00% 61.00%	66.88% 66.88%	\$0.00 (\$0.00)	8.97% 9.13%	20.86 20.86	3.92 3.92				
El Paso Electric Company	EE	\$45.30	6.70%	7.00%	2.50%	2.50%	5.32%	59.00%	61.00%	66.88%	\$0.00	7.00%	20.86	3.92				
Entergy Corporation	ETR	\$77.45	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	12.50%	20.86	3.92				
Eversource Energy	ES	\$56.36	6.30%	5.49%	6.00%	5.49%	5.32%	60.00%	58.00%	66.88%	\$0.00	9.55%	20.86	3.92				
FirstEnergy Corp.	FE	\$33.34	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.37%	20.86	3.92				
IDACORP, Inc.	IDA	\$74.50	4.00%	4.00%	3.00%	3.00%	5.32%	53.00%	60.00%	66.88%	\$0.00	8.55%	20.86	3.92				
MGE Energy, Inc.	MGEE NWF	\$53.30	NA 5.00%	4.00% 5.00%	7.00%	4.00% 5.00%	5.32% 5.32%	56.00% 65.00%	44.00%	66.88%	(\$0.00)	6.35% 9.24%	20.86	3.92				
NorthWestern Corporation	OGE	\$59.68 \$30.95	5.00%	5.00% 4.30%	6.50% 3.00%	3.00%	5.32%	67.00%	59.00% 70.00%	66.88% 66.88%	\$0.00 \$0.00	9.24%	20.86	3.92 3.92				
OGE Energy Corp. Otter Tail Corporation	OTTR	\$30.95	5.20% NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	10.39%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$75.82	4.00%	3.73%	4.00%	3.73%	5.32%	64.00%	65.00%	66.88%	\$0.00	9.13%	20.86	3.92				
PNM Resources, Inc.	PNM	\$33.49	7.60%	8.76%	9.00%	7.60%	5.32%	51.00%	55.00%	66.88%	\$0.00	10.70%	20.86	3.92				
Portland General Electric Company	POR	\$41.86	6.40%	6.57%	5.50%	5.50%	5.32%	56.00%	56.00%	66.88%	\$0.00	9.44%	20.86	3.92				
SCANA Corporation	SCG	\$71.01	5.30%	5.40%	4.50%	4.50%	5.32%	59.00%	60.00%	66.88%	\$0.00	9.82%	20.86	3.92				
Wisconsin Energy Corporation	WEC	\$61.68	6.30%	6.77%	6.00%	6.00%	5.32%	68.00%	67.00%	66.88%	\$0.00	7.75%	20.86	3.92				
Xcel Energy Inc.	XEL	\$42.20	5.30%	5.27%	5.50%	5.27%	5.32%	62.00%	63.00%	66.88%	\$0.00	9.67%	20.86	3.92				
											MEAN MAX	9.44% 13.37%						
											MIN	6.35%						
											IVIIIV	0.0070						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.52	\$3.66	\$3.80	\$3.95	\$4.11	\$4.29	\$4.48	\$4.68	\$4.91	\$5.16	\$5.44	\$5.73	\$6.03	\$6.35	\$6.69	\$7.05
Alliant Energy Corporation	LNT	\$1.69	\$1.79	\$1.90	\$2.01	\$2.13	\$2.26	\$2.39	\$2.53	\$2.68	\$2.82	\$2.98	\$3.14	\$3.70	\$3.48	\$3.66	\$3.86	\$4.07
Ameren Corporation	AEE	\$2.38	\$2.50	\$2.63	\$2.77	\$2.92	\$3.07	\$3.23	\$3.40	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88	\$5.14	\$5.41
American Electric Power Company, Inc.	AEP	\$3.59	\$3.73	\$3.88	\$4.04	\$4.20	\$4.37	\$4.55	\$4.75	\$4.98	\$5.22	\$5.49	\$5.78	\$6.08	\$6.41	\$6.75	\$7.11	\$7.49
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.00	\$2.12	\$2.25	\$2.39	\$2.53	\$2.68	\$2.83	\$2.99	\$3.16	\$3.33	\$3.51	\$3.69	\$3.89	\$4.10	\$4.32	\$4.55
DTE Energy Company	DTE	\$4.45 \$2.03	\$4.67 \$2.08	\$4.91 \$2.13	\$5.15 \$2.19	\$5.41 \$2.24	\$5.68 \$2.30	\$5.97 \$2.36	\$6.27 \$2.45	\$6.59 \$2.54	\$6.94 \$2.65	\$7.30 \$2.78	\$7.69 \$2.93	\$8.10 \$3.09	\$8.53 \$3.25	\$8.99 \$3.42	\$9.47 \$3.61	\$9.97 \$3.80
El Paso Electric Company	EE ETR	\$2.03 \$5.81	\$2.08 \$6.01	\$2.13 \$6.22	\$2.19 \$6.44	\$2.24 \$6.67	\$2.30 \$6.90	\$2.36 \$7.16	\$2.45 \$7.46	\$2.54 \$7.79	\$2.65 \$8.15	\$2.78 \$8.56	\$2.93 \$9.02	\$3.09 \$9.50	\$3.25 \$10.00	\$3.42 \$10.54	\$3.61 \$11.10	\$3.80 \$11.69
Entergy Corporation Eversource Energy	ES	\$2.76	\$2.91	\$3.07	\$3.24	\$3.42	\$3.61	\$3.80	\$4.01	\$4.23	\$4.45	\$4.69	\$4.94	\$5.20	\$5.48	\$5.77	\$6.08	\$6.40
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$4.64	\$4.81	\$5.01	\$5.24	\$5.50	\$5.79	\$6.10	\$6.43	\$6.77	\$7.13	\$7.51
MGE Energy, Inc.	MGEE	\$2.06	\$2.14	\$2.23	\$2.32	\$2.41	\$2.51	\$2.61	\$2.73	\$2.86	\$2.99	\$3.15	\$3.31	\$3.49	\$3.68	\$3.87	\$4.08	\$4.30
NorthWestern Corporation	NWE	\$2.90	\$3.05	\$3.20	\$3.36	\$3.52	\$3.70	\$3.89	\$4.09	\$4.30	\$4.52	\$4.76	\$5.01	\$5.28	\$5.56	\$5.86	\$6.17	\$6.50
OGE Energy Corp.	OGE	\$1.69	\$1.74	\$1.79	\$1.85	\$1.90	\$1.96	\$2.03	\$2.10	\$2.19	\$2.29	\$2.40	\$2.53	\$2.66	\$2.81	\$2.96	\$3.11	\$3.28
Otter Tail Corporation	OTTR PNW	\$1.56	\$1.65 \$4.07	\$1.75 \$4.22	\$1.86	\$1.97 \$4.54	\$2.09	\$2.21 \$4.90	\$2.34	\$2.47	\$2.61 \$5.59	\$2.75 \$5.87	\$2.90	\$3.05 \$6.52	\$3.21	\$3.38 \$7.23	\$3.56 \$7.61	\$3.75
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW	\$3.92 \$1.64	\$4.07	\$4.22 \$1.90	\$4.38 \$2.04	\$4.54 \$2.20	\$4.71 \$2.37	\$4.90 \$2.54	\$5.10 \$2.71	\$5.34 \$2.88	\$5.59 \$3.06	\$5.87 \$3.23	\$6.19 \$3.41	\$6.52 \$3.59	\$6.86 \$3.78	\$7.23 \$3.98	\$7.61 \$4.19	\$8.02 \$4.42
Portland General Electric Company	POR	\$2.04	\$2.15	\$2.27	\$2.04	\$2.53	\$2.67	\$2.81	\$2.71	\$3.13	\$3.29	\$3.47	\$3.65	\$3.85	\$4.05	\$4.27	\$4.19	\$4.42
SCANA Corporation	SCG	\$3.81	\$3.98	\$4.16	\$4.35	\$4.54	\$4.75	\$4.97	\$5.21	\$5.46	\$5.74	\$6.03	\$6.36	\$6.69	\$7.05	\$7.42	\$7.82	\$8.24
Wisconsin Energy Corporation	WEC	\$2.34	\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$4.57	\$4.82	\$5.07	\$5.34	\$5.63
Xcel Energy Inc.	XEL	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.71	\$2.86	\$3.01	\$3.17	\$3.34	\$3.51	\$3.70	\$3.90	\$4.11	\$4.32	\$4.55	\$4.80
Desirated Assessed																		
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Dividend Fayout Natio			[01]	[02]	[oo]	[0+]	[oo]	[oo]	[01]	[oo]	[00]	[40]	[1]	[72]	[40]	[]	[40]	[40]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA CMS		68.00% 63.00%	66.75% 62.75%	65.50% 62.50%	64.25% 62.25%	63.00% 62.00%	63.65% 62.81%	64.29% 63.63%	64.94% 64.44%	65.59% 65.25%	66.23% 66.07%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
CMS Energy Corporation DTE Energy Company	DTE		63.00%	62.75% 62.50%	62.50%	62.25%	62.00%	62.81%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	FF		59.00%	59.50%	60.00%	60.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Entergy Corporation	ETR		67.00%	65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp.	OGE		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR PNW		80.00% 64.00%	75.75% 64.25%	71.50% 64.50%	67.25% 64.75%	63.00% 65.00%	63.65% 65.31%	64.29% 65.63%	64.94% 65.94%	65.59% 66.25%	66.23% 66.57%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Pinnacle West Capital Corporation PNM Resources, Inc.	PNM		51.00%	52.00%	53.00%	54.00%	55.00%	56.98%	58.96%	60.94%	62.92%	64.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation	WEC		68.00%	67.75%	67.50%	67.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%

Projected Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Terminal
ALLETE. Inc.	ALE		\$2.32	\$2.39	\$2.45	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	Value \$147.04
Alliant Energy Corporation	LNT		\$1.15	\$1.20	\$1.26	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$84.81
Ameren Corporation	AEE		\$1.70	\$1.76	\$1.83	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.21	\$3.10	\$3.26	\$3.43	\$3.62	\$112.83
American Electric Power Company, Inc.	AEP		\$2.39	\$2.51	\$2.65	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$3.20 \$4.51	\$4.75	\$5.02 \$5.01	\$156.18
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.26	\$1.33	\$1.43	\$1.49	\$1.57	\$1.68	\$1.71	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$94.84
DTE Energy Company	DTE		\$2.94	\$3.07	\$3.19	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$207.98
El Paso Electric Company	EE		\$1.23	\$1.27	\$1.31	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$79.22
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.75	\$1.83	\$1.91	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$133.58
FirstEnergy Corp.	FE		\$1.73	\$1.03	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.04	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.11	\$2.25	\$2.39	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$156.61
MGE Energy, Inc.	MGEE		\$1.20	\$1.18	\$1.16	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$89.62
NorthWestern Corporation	NWE		\$1.98	\$2.03	\$2.08	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$135.54
OGE Energy Corp.	OGE		\$1.17	\$1.21	\$1.26	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$68.39
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.03	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.60	\$2.71	\$2.82	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$167.25
PNM Resources, Inc.	PNM		\$0.90	\$0.99	\$1.08	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$92.10
Portland General Electric Company	POR		\$1.21	\$1.27	\$1.34	\$1.42	\$1.49	\$1.63	\$1.77	\$1.70	\$2.08	\$2.10	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$98.80
SCANA Corporation	SCG		\$2.35	\$2.47	\$2.59	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$171.81
Wisconsin Energy Corporation	WEC		\$1.69	\$1.78	\$1.88	\$1.99	\$2.00	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$171.61
Xcel Energy Inc.	XEL		\$1.09	\$1.76	\$1.53	\$1.62	\$1.71	\$1.82	\$1.93	\$2.46	\$2.02	\$2.70	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.76	\$100.06
Projected Annual Data Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[04]
Company	Ticker	Initial																	[81]
ALLETE, Inc.	Hickei	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
	ALE	Outflow (\$59.67)	6/30/16 \$0.00	12/31/16 \$1.17	6/30/17 \$2.37	6/30/18 \$2.52	6/30/19 \$2.59	6/30/20 \$2.73	6/30/21 \$2.88	6/30/22 \$3.04	6/30/23 \$3.22	6/30/24 \$3.42	6/30/25 \$3.64	6/30/26 \$3.83	6/30/27 \$4.04	6/30/28 \$4.25		6/30/30 \$4.71	
Alliant Energy Corporation																	6/30/29		6/30/31
	ALE	(\$59.67)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	6/30/29 \$4.48	\$4.71	6/30/31 \$151.76
Alliant Energy Corporation	ALE LNT	(\$59.67) (\$38.20)	\$0.00 \$0.00	\$1.17 \$0.58	\$2.37 \$1.18	\$2.52 \$1.32	\$2.59 \$1.38	\$2.73 \$1.48	\$2.88 \$1.59	\$3.04 \$1.71	\$3.22 \$1.83	\$3.42 \$1.96	\$3.64 \$2.10	\$3.83 \$2.21	\$4.04 \$2.33	\$4.25 \$2.45	6/30/29 \$4.48 \$2.58	\$4.71 \$2.72	6/30/31 \$151.76 \$87.53
Alliant Energy Corporation Ameren Corporation	ALE LNT AEE	(\$59.67) (\$38.20) (\$50.12)	\$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86	\$2.37 \$1.18 \$1.75	\$2.52 \$1.32 \$1.89	\$2.59 \$1.38 \$1.96	\$2.73 \$1.48 \$2.08	\$2.88 \$1.59 \$2.21	\$3.04 \$1.71 \$2.34	\$3.22 \$1.83 \$2.48	\$3.42 \$1.96 \$2.63	\$3.64 \$2.10 \$2.79	\$3.83 \$2.21 \$2.94	\$4.04 \$2.33 \$3.10	\$4.25 \$2.45 \$3.26	6/30/29 \$4.48 \$2.58 \$3.43	\$4.71 \$2.72 \$3.62	6/30/31 \$151.76 \$87.53 \$116.45
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.	ALE LNT AEE AEP	(\$59.67) (\$38.20) (\$50.12) (\$66.05)	\$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20	\$2.37 \$1.18 \$1.75 \$2.44	\$2.52 \$1.32 \$1.89 \$2.78	\$2.59 \$1.38 \$1.96 \$2.93	\$2.73 \$1.48 \$2.08 \$3.05	\$2.88 \$1.59 \$2.21 \$3.18	\$3.04 \$1.71 \$2.34 \$3.33	\$3.22 \$1.83 \$2.48 \$3.49	\$3.42 \$1.96 \$2.63 \$3.67	\$3.64 \$2.10 \$2.79 \$3.86	\$3.83 \$2.21 \$2.94 \$4.07	\$4.04 \$2.33 \$3.10 \$4.29	\$4.25 \$2.45 \$3.26 \$4.51	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75	\$4.71 \$2.72 \$3.62 \$5.01	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	ALE LNT AEE AEP AVA	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	ALE LNT AEE AEP AVA CMS	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	ALE LNT AEE AEP AVA CMS DTE	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	ALE LNT AEE AEP AVA CMS DTE EE	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy	ALE LNT AEE AEP AVA CMS DTE EE ETR ES	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FristEnergy Corp. IDACORP, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30) (\$59.68) (\$30.95)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59	\$2.37 \$1.18 \$1.75 \$2.44 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87 \$2.22 \$3.35 \$1.69	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$6.33 \$2.41 \$7.42 \$4.07 \$4.77 \$2.73 \$4.13 \$2.08	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$37.45) (\$74.50) (\$59.68) (\$30.95) (\$30.96)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$1.00	\$2.37 \$1.18 \$1.75 \$2.44 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$3.18 \$3.19 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.55 \$1.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.20 \$3.30 \$3.30 \$3.30	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88
Alliant Energy Corporation Ameren Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWesterm Corporation OGE Energy Corp. Otter Tail Corporation Planacle West Capital Corporation	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30) (\$59.68) (\$30.95) (\$30.95) (\$30.96)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.59 \$0.59 \$0.59	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$4.07 \$2.09 \$1.40 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.87 \$2.22 \$3.35 \$1.69 \$1.94	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$2.38 \$2.59	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$214.65 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PNM Resources, Inc.	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE OGE OTTR PNW	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$53.34) (\$74.50) (\$59.88) (\$30.96) (\$30.96) (\$75.82) (\$75.82) (\$33.49)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.60 \$1.06 \$0.60 \$1.06 \$0.59 \$0.59 \$0.67 \$1.31	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$2.54 \$1.13 \$2.13 \$2.13 \$1.32 \$1.32 \$1.32 \$2.14	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41 \$1.41 \$3.20 \$1.41 \$3.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.55 \$3.35 \$1.60	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.71 \$3.91	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.36 \$3.87 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$4.08 \$2.34 \$2.34 \$2.04 \$4.04 \$4.04 \$4.04 \$2.04 \$4.04 \$2.04	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95	6/30/31 \$151.76 \$87.53 \$116.45 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$137.86 \$127.77 \$139.89 \$70.59 \$80.79 \$172.61
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$72.45) (\$77.45) (\$77.45) (\$73.30) (\$59.88) (\$33.94) (\$50.86) (\$30.96) (\$30.96) (\$33.49) (\$41.86)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.60 \$1.31 \$0.67 \$1.31 \$0.45 \$0.61	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$2.94 \$1.14	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30 \$1.49	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.26 \$1.71 \$2.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.63	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.50 \$3.35 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.19 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$5.15 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.30 \$3.41 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.40 \$2.57	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53 \$2.51	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.17 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$214.65 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61 \$95.06
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation SCANA Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR SCG	(\$59.67) (\$38.20) (\$50.12) (\$60.05) (\$41.65) (\$42.95) (\$42.95) (\$45.30) (\$77.45) (\$56.36) (\$53.34) (\$74.50) (\$53.34) (\$78.50) (\$59.68) (\$30.95) (\$30.96) (\$75.62) (\$75.82) (\$74.86) (\$71.01)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.59 \$0.60 \$1.00 \$0.59 \$0.67 \$1.31 \$0.45 \$0.45 \$0.45	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32 \$1.32 \$1.42	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.18 \$1.37 \$1.32 \$3.06 \$1.30 \$1.30 \$2.85	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.26 \$1.71 \$2.25 \$1.41 \$1.25 \$1.41 \$1.41 \$3.20 \$1.45 \$1.45 \$1.63 \$3.04	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.60 \$3.35 \$1.60 \$3.35 \$1.60 \$3.35 \$3.35 \$3.35 \$3.41 \$3.45	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$1.58 \$1.56 \$1.50 \$1.60 \$3.52 \$1.76 \$3.34	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08 \$3.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.20 \$2.20 \$3.91 \$2.20 \$3.97	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35 \$1.69 \$1.44 \$2.22 \$3.35 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.40 \$2.40 \$2.40 \$2.40 \$3.48 \$4.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.71 \$4.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.66 \$2.86 \$4.97	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$2.73 \$4.13 \$2.08 \$2.38 \$2.38 \$2.80 \$3.30 \$2.80 \$3.80	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17 \$5.51	6/30/31 \$151.76 \$87.53 \$116.45 \$116.45 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61 \$95.06 \$101.79 \$177.32
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR	(\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$72.45) (\$77.45) (\$77.45) (\$73.30) (\$59.88) (\$33.94) (\$50.86) (\$30.96) (\$30.96) (\$33.49) (\$41.86)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.60 \$1.31 \$0.67 \$1.31 \$0.45 \$0.61	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$2.94 \$1.14	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30 \$1.49	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.26 \$1.71 \$2.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.63	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.50 \$3.35 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.19 \$1.62 \$1.82 \$3.91 \$2.10 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$5.15 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.30 \$3.41 \$4.14 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.40 \$2.57	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53 \$2.51	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	6/30/29 \$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.17 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	6/30/31 \$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$214.65 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61 \$95.06

# Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 90 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	<u>-</u> 1			
		Stock	EF	S Growth F	kate Estima	Low	Long-Term		Payout Rati	10	iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks		Value Line	Growth	Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE	\$57.08	5.50%	5.00%	4.00%	4.00%	5.32%	66.00%	63.00%	66.88%	\$0.00	10.56%	20.86	3.92				
Alliant Energy Corporation	LNT	\$36.64	6.10%	6.60%	6.00%	6.00%	5.32%	64.00%	61.00%	66.88%	\$0.00	9.39%	20.86	3.92				
Ameren Corporation American Electric Power Company, Inc.	AEE AEP	\$48.90 \$65.03	6.10% 4.90%	5.20% 4.10%	6.00% 4.00%	5.20% 4.00%	5.32% 5.32%	68.00% 64.00%	64.00% 67.00%	66.88% 66.88%	\$0.00 \$0.00	9.49% 9.95%	20.86 20.86	3.92 3.92				
Avista Corporation	AVA	\$40.48	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	8.96%	20.86	3.92				
CMS Energy Corporation	CMS	\$41.70	6.40%	7.24%	6.00%	6.00%	5.32%	63.00%	62.00%	66.88%	\$0.00	9.24%	20.86	3.92				
DTE Energy Company	DTE	\$89.93	5.80%	5.35%	5.00%	5.00%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.42%	20.86	3.92				
El Paso Electric Company	EE	\$44.56	6.70%	7.00%	2.50%	2.50%	5.32%	59.00%	61.00%	66.88%	\$0.00	7.14%	20.86	3.92				
Entergy Corporation	ETR	\$76.55	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	12.62%	20.86	3.92				
Eversource Energy	ES	\$56.58	6.30%	5.49%	6.00%	5.49%	5.32%	60.00%	58.00%	66.88%	\$0.00	9.51%	20.86	3.92				
FirstEnergy Corp.	FE	\$34.24	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.11%	20.86	3.92				
IDACORP, Inc.	IDA MGEE	\$73.58 \$51.38	4.00% NA	4.00%	3.00% 7.00%	3.00% 4.00%	5.32% 5.32%	53.00% 56.00%	60.00% 44.00%	66.88% 66.88%	\$0.00	8.66% 6.66%	20.86	3.92 3.92				
MGE Energy, Inc. NorthWestern Corporation	NWE	\$59.59	5.00%	5.00%	6.50%	5.00%	5.32%	65.00%	59.00%	66.88%	(\$0.00) \$0.00	9.25%	20.86	3.92				
OGE Energy Corp.	OGE	\$29.13	5.20%	4.30%	3.00%	3.00%	5.32%	67.00%	70.00%	66.88%	\$0.00	9.88%	20.86	3.92				
Otter Tail Corporation	OTTR	\$29.44	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	10.87%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$73.65	4.00%	3.73%	4.00%	3.73%	5.32%	64.00%	65.00%	66.88%	\$0.00	9.40%	20.86	3.92				
PNM Resources, Inc.	PNM	\$32.94	7.60%	8.76%	9.00%	7.60%	5.32%	51.00%	55.00%	66.88%	\$0.00	10.85%	20.86	3.92				
Portland General Electric Company	POR	\$40.24	6.40%	6.57%	5.50%	5.50%	5.32%	56.00%	56.00%	66.88%	\$0.00	9.80%	20.86	3.92				
SCANA Corporation	SCG WFC	\$69.22	5.30%	5.40%	4.50%	4.50%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	10.05%	20.86	3.92				
Wisconsin Energy Corporation Xcel Energy Inc.	XEL	\$59.53 \$41.15	6.30% 5.30%	6.77% 5.27%	6.00% 5.50%	6.00% 5.27%	5.32% 5.32%	68.00% 62.00%	67.00% 63.00%	66.88% 66.88%	\$0.00 \$0.00	8.07% 9.91%	20.86 20.86	3.92 3.92				
Acei Ellergy Ilic.	AEL	<b>Ф4</b> 1. 10	3.30%	3.2776	3.30%	3.2176	3.3270	02.00%	03.00%	00.00%	MFAN	9.67%	20.00	3.92				
											MAX	13.11%						
											MIN	6.66%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker ALE	2015 \$3.38	2016 \$3.52	2017	2018 \$3.80	2019 \$3.95	2020	<b>2021</b> \$4.29	2022 \$4.48	2023 \$4.68	2024 \$4.91	2025 \$5.16	<b>2026</b> \$5.44	2027 \$5.73	2028 \$6.03	2029 \$6.35	2030 \$6.69	2031 \$7.05
ALLETE, Inc. Alliant Energy Corporation	INT	\$1.69	\$1.79	\$3.66 \$1.90	\$2.01	\$2.13	\$4.11 \$2.26	\$2.39	\$2.53	\$2.68	\$2.82	\$2.98	\$3.44	\$3.73	\$3.48	\$3.66	\$3.86	\$4.07
Ameren Corporation	AEE	\$2.38	\$2.50	\$2.63	\$2.77	\$2.92	\$3.07	\$3.23	\$3.40	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88	\$5.14	\$5.41
American Electric Power Company, Inc.	AEP	\$3.59	\$3.73	\$3.88	\$4.04	\$4.20	\$4.37	\$4.55	\$4.75	\$4.98	\$5.22	\$5.49	\$5.78	\$6.08	\$6.41	\$6.75	\$7.11	\$7.49
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.00	\$2.12	\$2.25	\$2.39	\$2.53	\$2.68	\$2.83	\$2.99	\$3.16	\$3.33	\$3.51	\$3.69	\$3.89	\$4.10	\$4.32	\$4.55
DTE Energy Company	DTE	\$4.45	\$4.67	\$4.91	\$5.15	\$5.41	\$5.68	\$5.97	\$6.27	\$6.59	\$6.94	\$7.30	\$7.69	\$8.10	\$8.53	\$8.99	\$9.47	\$9.97
El Paso Electric Company	EE	\$2.03	\$2.08	\$2.13	\$2.19	\$2.24	\$2.30	\$2.36	\$2.45	\$2.54	\$2.65	\$2.78	\$2.93	\$3.09	\$3.25	\$3.42	\$3.61	\$3.80
Entergy Corporation Eversource Energy	ETR ES	\$5.81 \$2.76	\$6.01 \$2.91	\$6.22 \$3.07	\$6.44 \$3.24	\$6.67 \$3.42	\$6.90 \$3.61	\$7.16 \$3.80	\$7.46 \$4.01	\$7.79 \$4.23	\$8.15 \$4.45	\$8.56 \$4.69	\$9.02 \$4.94	\$9.50 \$5.20	\$10.00 \$5.48	\$10.54 \$5.77	\$11.10 \$6.08	\$11.69 \$6.40
FirstEnergy Corp.	FE	\$2.70	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$4.64	\$4.81	\$5.01	\$5.24	\$5.50	\$5.79	\$6.10	\$6.43	\$6.77	\$7.13	\$7.51
MGE Energy, Inc.	MGEE	\$2.06	\$2.14	\$2.23	\$2.32	\$2.41	\$2.51	\$2.61	\$2.73	\$2.86	\$2.99	\$3.15	\$3.31	\$3.49	\$3.68	\$3.87	\$4.08	\$4.30
NorthWestern Corporation	NWE	\$2.90	\$3.05	\$3.20	\$3.36	\$3.52	\$3.70	\$3.89	\$4.09	\$4.30	\$4.52	\$4.76	\$5.01	\$5.28	\$5.56	\$5.86	\$6.17	\$6.50
OGE Energy Corp.	OGE	\$1.69	\$1.74	\$1.79	\$1.85	\$1.90	\$1.96	\$2.03	\$2.10	\$2.19	\$2.29	\$2.40	\$2.53	\$2.66	\$2.81	\$2.96	\$3.11	\$3.28
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW PNM	\$3.92 \$1.64	\$4.07 \$1.76	\$4.22 \$1.90	\$4.38 \$2.04	\$4.54 \$2.20	\$4.71 \$2.37	\$4.90 \$2.54	\$5.10 \$2.71	\$5.34 \$2.88	\$5.59 \$3.06	\$5.87 \$3.23	\$6.19 \$3.41	\$6.52 \$3.59	\$6.86 \$3.78	\$7.23 \$3.98	\$7.61 \$4.19	\$8.02 \$4.42
Portland General Electric Company	POR	\$2.04	\$2.15	\$2.27	\$2.40	\$2.53	\$2.67	\$2.81	\$2.71	\$3.13	\$3.29	\$3.47	\$3.41	\$3.85	\$4.05	\$3.96 \$4.27	\$4.50	\$4.74
SCANA Corporation	SCG	\$3.81	\$3.98	\$4.16	\$4.35	\$4.54	\$4.75	\$4.97	\$5.21	\$5.46	\$5.74	\$6.03	\$6.36	\$6.69	\$7.05	\$7.42	\$7.82	\$8.24
Wisconsin Energy Corporation	WEC	\$2.34	\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$4.57	\$4.82	\$5.07	\$5.34	\$5.63
Xcel Energy Inc.	XEL	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.71	\$2.86	\$3.01	\$3.17	\$3.34	\$3.51	\$3.70	\$3.90	\$4.11	\$4.32	\$4.55	\$4.80
Projected Annual																		
Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Ameren Corporation	AEE		68.00%	67.00%	66.00%	65.00%	64.00%	64.48%	64.96%	65.44%	65.92%	66.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Electric Power Company, Inc.	AEP		64.00%	64.75%	65.50%	66.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Avista Corporation	AVA		68.00%	66.75%	65.50%	64.25%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	CMS		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.25%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company El Paso Electric Company	DTE EE		63.00% 59.00%	62.50% 59.50%	62.00% 60.00%	61.50% 60.50%	61.00% 61.00%	61.98% 61.98%	62.96% 62.96%	63.94% 63.94%	64.92% 64.92%	65.90% 65.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Entergy Corporation	ETR		67.00%	65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Eversource Energy	ES		60.00%	59.50%	59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
FirstEnergy Corp.	FE		55.00%	53.25%	51.50%	49.75%	48.00%	51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
IDACORP, Inc.	IDA		53.00%	54.75%	56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
MGE Energy, Inc.	MGEE		56.00%	53.00%	50.00%	47.00%	44.00%	47.81%	51.63%	55.44%	59.25%	63.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
NorthWestern Corporation	NWE		65.00%	63.50%	62.00%	60.50%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
OGE Energy Corp.	OGE		67.00%	67.75%	68.50%	69.25%	70.00%	69.48%	68.96%	68.44%	67.92%	67.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Otter Tail Corporation	OTTR PNW		80.00% 64.00%	75.75% 64.25%	71.50% 64.50%	67.25% 64.75%	63.00% 65.00%	63.65% 65.31%	64.29% 65.63%	64.94% 65.94%	65.59% 66.25%	66.23% 66.57%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW		51.00%	52.00%	53.00%	54.00%	55.00% 55.00%	56.98%	58.96%	60.94%	62.92%	64.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Portland General Electric Company	POR		56.00%	56.00%	56.00%	56.00%	56.00%	57.81%	59.63%	61.44%	63.25%	65.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
SCANA Corporation	SCG		59.00%	59.25%	59.50%	59.75%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Wisconsin Energy Corporation	WEC		68.00%	67.75%	67.50%	67.25%	67.00%	66.98%	66.96%	66.94%	66.92%	66.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Xcel Energy Inc.	XEL		62.00%	62.25%	62.50%	62.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
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Designated Assertal																	D	ι, ι α	90 20
Projected Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
			. ,			17	. ,		Ų7		17		. ,		ţ7	· · · /		1. 7	Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.32	\$2.39	\$2.45	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$147.04
Alliant Energy Corporation	LNT		\$1.15	\$1.20	\$1.26	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$84.81
Ameren Corporation	AEE		\$1.70	\$1.76	\$1.83	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.94	\$3.10	\$3.26	\$3.43	\$3.62	\$112.83
American Electric Power Company, Inc.	AEP		\$2.39	\$2.51	\$2.65	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.01	\$156.18
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.26	\$1.33	\$1.41	\$1.49	\$1.57	\$1.68	\$1.80	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$94.84
DTE Energy Company	DTE		\$2.94	\$3.07	\$3.19	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$207.98
El Paso Electric Company	EE		\$1.23	\$1.27	\$1.31	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$79.22
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.75	\$1.83	\$1.91	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$133.58
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.11	\$2.25	\$2.39	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$156.61
MGE Energy, Inc.	MGEE		\$1.20	\$1.18	\$1.16	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$89.62
NorthWestern Corporation	NWE		\$1.98	\$2.03	\$2.08	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$135.54
OGE Energy Corp.	OGE		\$1.17	\$1.21	\$1.26	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$68.39
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.60	\$2.71	\$2.82	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$167.25
PNM Resources, Inc.	PNM		\$0.90	\$0.99	\$1.08	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$92.10
Portland General Electric Company	POR		\$1.21	\$1.27	\$1.34	\$1.42	\$1.49	\$1.63	\$1.77	\$1.92	\$2.08	\$2.26	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$98.80
SCANA Corporation	SCG		\$2.35	\$2.47	\$2.59	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$171.81
Wisconsin Energy Corporation	WEC		\$1.69	\$1.78	\$1.88	\$1.99	\$2.10	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$117.42
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.71	\$1.82	\$1.93	\$2.06	\$2.19	\$2.33	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.21	\$100.06
Investor Cash Flows		[64] Initial	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$57.08)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$151.76
Alliant Energy Corporation	LNT	(\$36.64)	\$0.00	\$0.58	\$1.18	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$87.53
Ameren Corporation	AEE	(\$48.89)	\$0.00	\$0.86	\$1.75	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.94	\$3.10	\$3.26	\$3.43	\$3.62	\$116.45
American Electric Power Company, Inc.	AEP	(\$65.03)	\$0.00	\$1.20	\$2.44	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.01	\$161.18
Avista Corporation	AVA	(\$40.48)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$91.16
CMS Energy Corporation	CMS	(\$41.70)	\$0.00	\$0.64	\$1.30	\$1.49	\$1.57	\$1.68	\$1.80	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$97.88
DTE Energy Company	DTE	(\$89.93)	\$0.00	\$1.48	\$3.02	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$214.65
El Paso Electric Company	EE	(\$44.56)	\$0.00	\$0.62	\$1.24	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$81.76
Entergy Corporation	ETR	(\$76.55)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$251.62
Eversource Energy	ES	(\$56.58)	\$0.00	\$0.88	\$1.79	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$137.86
FirstEnergy Corp.	FE	(\$34.24)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$127.77
IDACORP, Inc.	IDA	(\$73.58)	\$0.00	\$1.06	\$2.14	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$161.64
MGE Energy, Inc.	MGEE	(\$51.38)	\$0.00	\$0.60	\$1.22	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$92.49
NorthWestern Corporation	NWE	(\$59.59)	\$0.00	\$1.00	\$2.03	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$139.88
OGE Energy Corp.	OGE	(\$29.13)	\$0.00	\$0.59	\$1.18	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$70.59
Otter Tail Corporation	OTTR	(\$29.44)	\$0.00	\$0.67	\$1.36	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$80.79
Pinnacle West Capital Corporation	PNW	(\$73.65)	\$0.00	\$1.31	\$2.65	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$172.61
PNM Resources. Inc.	PNM	(\$32.94)	\$0.00	\$0.45	\$0.93	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$95.06
Portland General Electric Company	POR	(\$40.24)	\$0.00	\$0.61	\$1.24	\$1.42	\$1.49	\$1.63	\$1.77	\$1.92	\$2.08	\$2.26	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$101.97
SCANA Corporation	SCG	(\$69.22)	\$0.00	\$1.18	\$2.40	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$177.32
vvisconsin Energy Corporation	WEC	(\$59.53)	\$0.00	\$0.85	\$1.74	\$1.99	\$2.10	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$121.19
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL	(\$59.53) (\$41.15)	\$0.00 \$0.00	\$0.85 \$0.69	\$1.74 \$1.41	\$1.99 \$1.62	\$2.10 \$1.71	\$2.22 \$1.82	\$2.35 \$1.93	\$2.48 \$2.06	\$2.62 \$2.19	\$2.76 \$2.33	\$2.90 \$2.48	\$3.06 \$2.61	\$3.22 \$2.75	\$3.39 \$2.89	\$3.57 \$3.05	\$3.76 \$3.21	\$121.19 \$103.26

### Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 180 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2] FF	[3] S Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Ratio	[9]	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						Low			•									
Company	Ticker	Price	Zacks		Value Line	Growth	Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE I NT	\$54.07 \$33.83	5.50% 6.10%	5.00% 6.60%	4.00% 6.00%	4.00% 6.00%	5.32% 5.32%	66.00% 64.00%	63.00% 61.00%	66.88% 66.88%	(\$0.00) \$0.00	11.08% 10.13%	20.86 20.86	3.92 3.92				
Alliant Energy Corporation  Ameren Corporation	AEE	\$46.40	6.10%	5.20%	6.00%	5.20%	5.32%	68.00%	64.00%	66.88%	\$0.00	9.98%	20.86	3.92				
American Electric Power Company, Inc.	AEP	\$61.54	4.90%	4.10%	4.00%	4.00%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	10.48%	20.86	3.92				
Avista Corporation	AVA	\$37.83	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	9.59%	20.86	3.92				
CMS Energy Corporation	CMS	\$39.10	6.40%	7.24%	6.00%	6.00%	5.32%	63.00%	62.00%	66.88%	\$0.00	9.83%	20.86	3.92				
DTE Energy Company	DTE	\$85.80	5.80%	5.35%	5.00%	5.00%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	9.86%	20.86	3.92				
El Paso Electric Company Entergy Corporation	EE ETR	\$41.72 \$72.44	6.70% NA	7.00% NA	2.50% 3.50%	2.50% 3.50%	5.32% 5.32%	59.00% 67.00%	61.00% 59.00%	66.88% 66.88%	\$0.00 (\$0.00)	7.72% 13.18%	20.86 20.86	3.92 3.92				
Eversource Energy	ES	\$54.15	6.30%	5.49%	6.00%	5.49%	5.32%	60.00%	58.00%	66.88%	\$0.00	9.92%	20.86	3.92				
FirstEnergy Corp.	FE	\$33.04	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.46%	20.86	3.92				
IDACORP, Inc.	IDA	\$70.82	4.00%	4.00%	3.00%	3.00%	5.32%	53.00%	60.00%	66.88%	\$0.00	9.01%	20.86	3.92				
MGE Energy, Inc.	MGEE	\$48.29	NA	4.00%	7.00%	4.00%	5.32%	56.00%	44.00%	66.88%	\$0.00	7.19%	20.86	3.92				
NorthWestern Corporation	NWE	\$57.21 \$27.72	5.00% 5.20%	5.00% 4.30%	6.50% 3.00%	5.00%	5.32% 5.32%	65.00% 67.00%	59.00% 70.00%	66.88% 66.88%	\$0.00 \$0.00	9.63% 10.36%	20.86 20.86	3.92 3.92				
OGE Energy Corp. Otter Tail Corporation	OTTR	\$28.18	5.20% NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	11.30%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$69.12	4.00%	3.73%	4.00%	3.73%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	10.00%	20.86	3.92				
PNM Resources, Inc.	PNM	\$31.32	7.60%	8.76%	9.00%	7.60%	5.32%	51.00%	55.00%	66.88%	\$0.00	11.32%	20.86	3.92				
Portland General Electric Company	POR	\$38.74	6.40%	6.57%	5.50%	5.50%	5.32%	56.00%	56.00%	66.88%	\$0.00	10.16%	20.86	3.92				
SCANA Corporation	SCG	\$64.86	5.30%	5.40%	4.50%	4.50%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	10.67%	20.86	3.92				
Wisconsin Energy Corporation	WEC	\$55.89	6.30%	6.77%	6.00%	6.00%	5.32%	68.00%	67.00%	66.88%	\$0.00	8.64%	20.86	3.92				
Xcel Energy Inc.	XEL	\$38.85	5.30%	5.27%	5.50%	5.27%	5.32%	62.00%	63.00%	66.88%	\$0.00 MFAN	10.45%	20.86	3.92				
											MAX	13.46%						
											MIN	7.19%						
Proiected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$3.38 \$1.69	\$3.52 \$1.79	\$3.66 \$1.90	\$3.80 \$2.01	\$3.95 \$2.13	\$4.11 \$2.26	\$4.29 \$2.39	\$4.48 \$2.53	\$4.68 \$2.68	\$4.91 \$2.82	\$5.16 \$2.98	\$5.44 \$3.14	\$5.73 \$3.30	\$6.03 \$3.48	\$6.35 \$3.66	\$6.69 \$3.86	\$7.05 \$4.07
Ameren Corporation	AEE	\$2.38	\$2.50	\$2.63	\$2.77	\$2.13	\$3.07	\$3.23	\$3.40	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88	\$5.14	\$5.41
American Electric Power Company, Inc.	AEP	\$3.59	\$3.73	\$3.88	\$4.04	\$4.20	\$4.37	\$4.55	\$4.75	\$4.98	\$5.22	\$5.49	\$5.78	\$6.08	\$6.41	\$6.75	\$7.11	\$7.49
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.00	\$2.12	\$2.25	\$2.39	\$2.53	\$2.68	\$2.83	\$2.99	\$3.16	\$3.33	\$3.51	\$3.69	\$3.89	\$4.10	\$4.32	\$4.55
DTE Energy Company	DTE	\$4.45	\$4.67	\$4.91	\$5.15	\$5.41	\$5.68	\$5.97	\$6.27	\$6.59	\$6.94	\$7.30	\$7.69	\$8.10	\$8.53	\$8.99	\$9.47	\$9.97
El Paso Electric Company Entergy Corporation	EE ETR	\$2.03 \$5.81	\$2.08 \$6.01	\$2.13 \$6.22	\$2.19 \$6.44	\$2.24 \$6.67	\$2.30 \$6.90	\$2.36 \$7.16	\$2.45 \$7.46	\$2.54 \$7.79	\$2.65 \$8.15	\$2.78 \$8.56	\$2.93 \$9.02	\$3.09 \$9.50	\$3.25 \$10.00	\$3.42 \$10.54	\$3.61 \$11.10	\$3.80 \$11.69
Eversource Energy	FS	\$2.76	\$2.91	\$3.07	\$3.24	\$3.42	\$3.61	\$3.80	\$4.01	\$4.23	\$8.15 \$4.45	\$8.50 \$4.69	\$9.02 \$4.94	\$9.50 \$5.20	\$5.48	\$10.54 \$5.77	\$6.08	\$6.40
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.08	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$4.64	\$4.81	\$5.01	\$5.24	\$5.50	\$5.79	\$6.10	\$6.43	\$6.77	\$7.13	\$7.51
MGE Energy, Inc.	MGEE	\$2.06	\$2.14	\$2.23	\$2.32	\$2.41	\$2.51	\$2.61	\$2.73	\$2.86	\$2.99	\$3.15	\$3.31	\$3.49	\$3.68	\$3.87	\$4.08	\$4.30
NorthWestern Corporation	NWE	\$2.90	\$3.05	\$3.20	\$3.36	\$3.52	\$3.70	\$3.89	\$4.09	\$4.30	\$4.52	\$4.76	\$5.01	\$5.28	\$5.56	\$5.86	\$6.17	\$6.50
OGE Energy Corp.	OGE	\$1.69 \$1.56	\$1.74 \$1.65	\$1.79 \$1.75	\$1.85 \$1.86	\$1.90 \$1.97	\$1.96 \$2.09	\$2.03 \$2.21	\$2.10 \$2.34	\$2.19 \$2.47	\$2.29 \$2.61	\$2.40 \$2.75	\$2.53 \$2.90	\$2.66 \$3.05	\$2.81 \$3.21	\$2.96 \$3.38	\$3.11 \$3.56	\$3.28 \$3.75
Otter Tail Corporation Pinnacle West Capital Corporation	PNW	\$3.92	\$4.07	\$1.75	\$4.38	\$1.97 \$4.54	\$2.09 \$4.71	\$4.90	\$2.34 \$5.10	\$2.47 \$5.34	\$5.59	\$2.75 \$5.87	\$2.90 \$6.19	\$6.52	\$6.86	\$3.38 \$7.23	\$3.56 \$7.61	\$8.02
PNM Resources, Inc.	PNM	\$1.64	\$1.76	\$1.90	\$2.04	\$2.20	\$2.37	\$2.54	\$2.71	\$2.88	\$3.06	\$3.23	\$3.41	\$3.59	\$3.78	\$3.98	\$4.19	\$4.42
Portland General Electric Company	POR	\$2.04	\$2.15	\$2.27	\$2.40	\$2.53	\$2.67	\$2.81	\$2.97	\$3.13	\$3.29	\$3.47	\$3.65	\$3.85			\$4.50	\$4.74
SCANA Corporation	SCG	\$3.81	\$3.98	\$4.16	\$4.35	\$4.54	\$4.75	\$4.97	\$5.21						\$4.05	\$4.27		\$8.24
Wisconsin Energy Corporation	WEC			φ <del>4</del> .10			Φ4./3	Φ4.9 <i>1</i>	φ3.Z I	\$5.46	\$5.74	\$6.03	\$6.36	\$6.69	\$4.05 \$7.05	\$4.27 \$7.42	\$7.82	
Xcel Energy Inc.		\$2.34	\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$6.69 \$4.57	\$7.05 \$4.82	\$7.42 \$5.07	\$5.34	\$5.63
	XEL	\$2.34 \$2.10												\$6.69	\$7.05	\$7.42		
Projected Annual			\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$6.69 \$4.57	\$7.05 \$4.82	\$7.42 \$5.07	\$5.34	\$5.63
Dividend Payout Ratic			\$2.48 \$2.21	\$2.63 \$2.33	\$2.79 \$2.45	\$2.95 \$2.58	\$3.13 \$2.71	\$3.32 \$2.86	\$3.51 \$3.01	\$3.71 \$3.17	\$3.91 \$3.34	\$4.12 \$3.51	\$4.34 \$3.70	\$6.69 \$4.57 \$3.90	\$7.05 \$4.82 \$4.11	\$7.42 \$5.07 \$4.32	\$5.34 \$4.55	\$5.63 \$4.80
			\$2.48	\$2.63	\$2.79	\$2.95	\$3.13	\$3.32	\$3.51	\$3.71	\$3.91	\$4.12	\$4.34	\$6.69 \$4.57	\$7.05 \$4.82	\$7.42 \$5.07	\$5.34	\$5.63
Company	XEL		\$2.48 \$2.21 [31]	\$2.63 \$2.33	\$2.79 \$2.45	\$2.95 \$2.58	\$3.13 \$2.71	\$3.32 \$2.86	\$3.51 \$3.01	\$3.71 \$3.17	\$3.91 \$3.34	\$4.12 \$3.51 [40]	\$4.34 \$3.70 [41]	\$6.69 \$4.57 \$3.90	\$7.05 \$4.82 \$4.11	\$7.42 \$5.07 \$4.32	\$5.34 \$4.55	\$5.63 \$4.80
Company ALLETE, Inc.			\$2.48 \$2.21	\$2.63 \$2.33	\$2.79 \$2.45	\$2.95 \$2.58	\$3.13 \$2.71	\$3.32 \$2.86	\$3.51 \$3.01	\$3.71 \$3.17	\$3.91 \$3.34	\$4.12 \$3.51	\$4.34 \$3.70	\$6.69 \$4.57 \$3.90	\$7.05 \$4.82 \$4.11	\$7.42 \$5.07 \$4.32	\$5.34 \$4.55	\$5.63 \$4.80
ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT		\$2.48 \$2.21 [31] 2016 66.00% 64.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25%	\$2.79 \$2.45 [33] 2018 64.50% 62.50%	\$2.95 \$2.58 [34] 2019 63.75% 61.75%	\$3.13 \$2.71 [35] 2020 63.00% 61.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98%	\$3.51 \$3.01 [37] 2022 64.29% 62.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	Ticker ALE LNT AEE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.	Ticker ALE LNT AEE AEP		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP AVA		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 68.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 65.50%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 63.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75% 62.75%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 65.50% 62.50%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 62.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65% 62.81%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29% 63.63%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94% 64.94% 64.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 65.92% 65.59% 65.25%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23% 66.07%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 63.00% 63.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 65.50%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.96% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 66.94% 64.94% 64.44% 63.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.23%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.75% 62.50%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.50% 62.00%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 63.00% 61.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 64.94% 64.94% 63.94% 63.94% 63.94% 63.94% 62.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.92% 66.92% 65.25% 64.92%	\$4.12 \$3.51 [40] 2025 66.23% 66.90% 66.90% 66.90% 66.90% 66.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 67.00% 67.00% 60.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 62.50% 59.50% 65.00%	\$2.79 \$2.45 [33] 2018 64.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 65.00%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 62.00% 61.00% 61.00% 61.00% 59.00% 59.00%	\$3.32 \$2.86 [36] 2021 63.65% 64.48% 66.98% 63.65% 61.98% 61.98% 61.98% 60.31% 59.48%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 62.96% 62.96% 62.96% 60.96%	\$3.71 \$3.17 [38] 2023 64.94% 65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 63.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.07% 66.90% 65.90% 65.90% 65.90% 65.90% 65.90%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	Ticker  ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 68.00% 63.00% 63.00% 63.00% 67.00% 65.00% 55.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75% 62.55% 62.50% 65.00% 59.50% 65.00% 59.50% 65.25%	\$2.79 \$2.45 [33] 2018 64.50% 65.50% 65.50% 62.50% 62.00% 62.00% 63.00% 51.50% 51.50%	\$2.95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 60.50% 61.50% 61.50% 64.975%	\$3.13 \$2.71 [35] 2020 63.00% 64.00% 67.00% 63.00% 62.00% 61.00% 59.00% 59.00% 58.00% 48.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.281% 61.98% 60.31% 59.48% 61.98%	\$3.51 \$3.01 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 65.94% 66.94% 64.94% 63.94% 62.94% 62.94% 57.44%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.95% 63.95%	\$4.12 \$3.51 [40] 2025 66.23% 66.40% 66.90% 66.90% 65.90% 65.90% 65.90% 63.37% 63.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corpo	Ticker ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 67.00% 60.00% 55.00% 55.00% 65.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.50% 62.50% 65.00% 59.50% 53.25% 64.75%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 66.50%	\$2.95 \$2.58 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 63.00% 63.00% 61.00% 61.00% 58.00% 48.00% 60.00%	\$3.32 \$2.86 [36] 2021 63.65% 64.48% 66.98% 62.81% 61.98% 60.31% 59.48% 51.15%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29% 62.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 64.94% 64.94% 62.94% 62.94% 62.94% 63.94% 63.94% 63.94% 63.94% 63.94% 63.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.92% 64.95% 63.92% 60.92% 63.92% 63.92% 64.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 65.90% 65.57% 65.40% 65.57% 65.40% 65.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 68.00% 63.00% 63.00% 67.00% 60.00% 55.00% 55.00% 56.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.50% 69.50% 65.00% 59.50% 65.00% 59.50% 59.50% 50.25	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.00% 60.00% 63.00% 51.50% 59.00% 50.00% 50.00%	\$2.95 \$2.58 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.50% 49.75% 58.50% 49.75%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 62.00% 61.00% 61.00% 61.00% 61.00% 64.00% 6	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 63.65% 61.98% 61.98% 61.98% 51.15% 61.15% 64.15% 64.15%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.29% 63.63% 62.96% 61.63% 60.96% 64.29% 62.26% 54.29% 62.26% 54.29%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 64.94% 63.94% 63.94% 62.94% 62.94% 67.44% 65.44% 65.44%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.99% 66.59% 64.52% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 65.59%	\$4.12 \$3.51 [40] 2025 66.23% 66.90% 66.90% 66.90% 66.90% 65.90% 65.90% 65.90% 65.40% 63.73% 65.40% 63.73% 63.73% 63.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. NorthWestern Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 67.00% 67.00% 55.00% 55.00% 65.00% 66.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.75% 65.95% 65.00% 59.50% 54.75% 53.05% 53.05%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 63.00% 59.00% 51.50% 56.50% 50.00% 56.50%	\$2.95 \$2.58 [34] 2019 63.75% 65.00% 66.25% 64.25% 64.25% 61.50% 61.50% 61.00% 58.50% 49.75% 58.25% 47.00%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 62.00% 61.00% 61.00% 63.00% 61.00% 64.00% 64.00% 64.00% 64.00% 65.00% 66.00	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 66.88% 63.65% 61.98% 60.31% 59.48% 61.15% 47.81%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.4.29% 63.63% 62.96% 61.63% 60.96% 62.29% 51.63% 61.63%	\$3.71 \$3.17 [38] 2023 64.94% 65.44% 66.94% 64.94% 63.94% 62.94% 62.44% 63.44% 63.44% 62.94% 62.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.59% 65.25% 64.25% 64.25% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.59% 64.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.90% 65.57% 65.40% 63.73% 63.73% 63.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MortiWestern Corporation OGE Energy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EETR ES FE IDA MGEE NWE OGE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 60.00% 65.00% 65.00% 65.00% 66.00% 66.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 64.75% 66.75% 62.50% 59.50% 63.00% 63.00% 63.00% 63.00% 63.75%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 65.50% 65.50% 62.00% 60.00% 63.00% 59.00% 51.50% 50.00% 50.00% 62.00%	\$2,95 \$2.58 [34] 2019 63.75% 61.75% 65.00% 66.25% 64.25% 60.50% 61.50% 60.50% 49.75% 58.50% 47.00% 60.50% 60.50% 60.50%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 62.00% 61.00% 59.00% 48.00% 60.00% 44.00% 59.00% 44.00% 59.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 63.65% 63.65% 61.98% 6	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 64.96% 62.96% 62.96% 61.63% 60.96% 51.63% 61.63% 61.63%	\$3.71 \$3.17 [38] 2023 64.94% 63.94% 65.44% 66.94% 63.94% 62.94% 62.44% 55.44% 62.94% 62.44% 55.44% 68.44%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.59% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.95% 63.92% 60.59% 64.59% 64.59% 64.59% 64.59% 64.59% 64.59% 67.92%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.90% 66.90% 65.90% 65.90% 65.57% 65.40% 63.73% 63.07% 65.57% 67.40%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MoEE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 67.00% 67.00% 55.00% 55.00% 65.00% 66.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.75% 65.95% 65.00% 59.50% 54.75% 53.05% 53.05%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 63.00% 59.00% 51.50% 56.50% 50.00% 56.50%	\$2.95 \$2.58 [34] 2019 63.75% 65.00% 66.25% 64.25% 64.25% 61.50% 61.50% 61.00% 58.50% 49.75% 58.25% 47.00%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 62.00% 61.00% 61.00% 63.00% 61.00% 64.00% 64.00% 64.00% 64.00% 65.00% 66.00	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 66.88% 63.65% 61.98% 60.31% 59.48% 61.15% 47.81%	\$3.51 \$3.01 [37] 2022 64.29% 62.96% 64.96% 66.4.29% 63.63% 62.96% 61.63% 60.96% 62.29% 51.63% 61.63%	\$3.71 \$3.17 [38] 2023 64.94% 65.44% 66.94% 64.94% 63.94% 62.94% 62.44% 63.44% 63.44% 62.94% 62.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.59% 65.25% 64.25% 64.25% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.59% 64.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 66.90% 65.57% 65.40% 63.73% 63.73% 63.73%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MortiWestern Corporation OGE Energy Corp.	Ticker  ALE LNT AEP AVA CMS DTE EE ETR HORE HORE HORE HORE HORE HORE HORE HOR		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 65.00% 55.00% 55.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00%	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 62.75% 62.50% 65.00% 59.50% 65.325% 54.75% 63.25% 64.25% 63.25% 64.25% 64.25% 64.25% 64.25%	\$2.79 \$2.45 [33] 2018 64.50% 65.50% 65.50% 62.00% 63.00% 51.50% 62.00% 63.00% 50.00% 63.00% 64.50% 62.00% 63.00% 63.00% 64.50%	\$2,95 \$2.58 [34] 2019 63,75% 61,75% 65.00% 66,25% 64,25% 61,50% 60,50% 61,00% 58,50% 60,50% 6	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 67.00% 61.00% 61.00% 61.00% 60.00% 44.00% 60.00% 6	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 66.98% 62.81% 61.98% 60.31% 59.48% 61.15% 61.15% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65% 63.65%	\$3.51 \$3.01 [37] 2022 64.29% 64.96% 64.96% 63.63% 62.96% 61.63% 62.96% 54.29% 54.29% 62.29% 51.63% 64.29% 64.29% 65.63% 64.29% 65.63% 65.63% 65.63%	\$3.71 \$3.17 [38] 2023 64.94% 65.344% 66.94% 64.44% 63.94% 62.94% 62.94% 62.94% 63.44% 57.44% 62.94% 64.44% 64.94% 65.94% 60.94% 64.94%	\$3.91 \$3.34 [39] 2024 65.59% 66.92% 65.59% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 65.59% 64.92% 65.59% 66.59%	\$4.12 \$3.51 [40] 2025 66.23% 65.90% 66.40% 66.90% 65.57% 65.23% 65.73% 65.73% 65.73% 65.73% 65.73% 65.73% 66.23% 66.23%	\$4,34 \$3,70 [41] 2026 66,88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
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ALLETE, Inc. Alliant Energy Corporation Amerien Corporation Amerien Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. DiaCORP, inc. Hort Tail Corporation OGE Energy Corp. Otter Tail Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE ETR ETR IDA MGEE NWE OGTTR PNW POR SCG		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 63.00% 63.00% 63.00% 65.00% 55.00% 55.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00% 65.00%	\$2.63 \$2.33 [32] 2017 65.25% 67.00% 64.75% 66.75% 62.75% 62.50% 65.00% 59.50% 63.25% 54.75% 63.00% 63.50% 6	\$2.79 \$2.45 [33] 2018 64.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 51.50% 62.00% 50.00% 5	\$2.95 \$2.58 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 69.50% 49.75% 58.50% 47.00% 60.50% 69.25% 67.25% 64.75% 54.75% 55.00% 56.00% 56.00%	\$3.13 \$2.71 [35] 2020 63.00% 61.00% 64.00% 62.00% 61.00% 59.00% 48.00% 60.00% 44.00% 59.00% 65.00% 65.00% 65.00% 65.00% 65.00%	\$3.32 \$2.86 [36] 2021 63.65% 64.98% 64.48% 66.98% 62.81% 61.98% 61.15% 47.81% 60.31% 59.48% 47.81% 60.31% 59.48% 51.15% 61.15% 63.65% 65.51% 65.51% 65.51%	\$3.51 \$3.01 [37] 2022 64.29% 62.99% 64.96% 66.96% 63.63% 62.96% 61.63% 60.96% 51.63% 64.29% 65.63% 64.29% 65.63% 62.29% 64.29% 65.63% 64.29%	\$3.71 \$3.17 [38] 2023 64.94% 65.94% 65.44% 66.94% 64.94% 63.94% 62.94% 62.94% 62.94% 62.94% 62.94% 63.94% 64.94% 65.94% 64.94% 65.94% 64.94% 64.94% 64.94% 64.94% 65.94% 64.94% 64.94% 65.94% 64.94% 6	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.59% 65.25% 64.92% 64.92% 64.92% 64.92% 64.92% 65.59% 64.25% 64.25% 64.25% 64.59% 62.5% 64.59% 63.25% 64.59% 63.25% 64.59%	\$4,12 \$3.51 [40] 2025 66,23% 66,90% 66,90% 66,90% 66,23% 66,07% 65,57% 65,40% 63,73% 63,07% 65,73% 64,90% 66,57% 64,90% 66,57% 66,57% 66,57% 66,57% 66,57% 66,57% 66,57%	\$4,34 \$3,70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 [44] 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation OMS Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. OGE Energy Corp. Other Tail Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation PhMR Resources, Inc. Portland General Electric Company	Ticker ALE LNT AEE AEP AVA OTE ETR ES IDA MGEE IDA MGEE NWE OGE PNW PNM PNM POR		\$2.48 \$2.21 [31] 2016 66.00% 64.00% 68.00% 68.00% 63.00% 63.00% 63.00% 60.00% 55.00% 67.00% 6	\$2.63 \$2.33 [32] 2017 65.25% 63.25% 67.00% 64.75% 66.75% 62.50% 59.50% 59.50% 59.50% 53.25% 53.25% 53.25% 67.75% 67.75% 67.75% 64.25% 64.25% 64.25% 64.25% 65.00%	\$2.79 \$2.45 [33] 2018 64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 59.00% 51.50% 56.50% 62.00% 63.00% 64.50% 63.00% 64.50% 63.00% 64.50% 63.00% 64.50% 63.00% 64.50% 65.50% 6	\$2.95 \$2.58 [34] 2019 63.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.50% 61.50% 68.50% 47.00% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25% 69.25%	\$3.13 \$2.71 [35] 2020 63.00% 64.00% 67.00% 63.00% 62.00% 61.00% 58.00% 48.00% 48.00% 60.00% 70.00% 63.00% 63.00% 63.00% 63.00% 63.00% 63.00% 65.00% 65.00% 65.00% 65.00%	\$3.32 \$2.86 [36] 2021 63.65% 61.98% 64.48% 63.65% 61.98% 61.98% 61.98% 61.98% 61.98% 61.98% 60.31% 59.48% 63.65% 63.65% 63.65% 64.84% 65.31% 65.31% 65.31% 65.31% 65.31%	\$3.51 \$3.01 [37] 2022 64.29% 64.99% 64.99% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 51.63% 68.96% 68.96% 65.63% 68.96% 65.63%	\$3.71 \$3.17 [38] 2023 64.94% 65.94% 64.44% 64.44% 63.94% 62.94% 62.44% 55.44% 68.44% 68.44% 68.94% 68.94% 68.94% 61.94% 61.94% 61.94% 61.94% 61.94%	\$3.91 \$3.34 [39] 2024 65.59% 64.92% 65.59% 65.25% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.92% 64.59% 60.59%	\$4.12 \$3.51 [40] 2025 66.23% 66.90% 66.90% 66.90% 65.57% 65.40% 63.73% 65.57% 65.57% 66.40% 66.57% 66.57% 66.50% 66.57% 66.50%	\$4.34 \$3.70 [41] 2026 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$6.69 \$4.57 \$3.90 [42] 2027 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.05 \$4.82 \$4.11 [43] 2028 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$7.42 \$5.07 \$4.32 2029 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.34 \$4.55 [45] 2030 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	\$5.63 \$4.80 [46] 2031 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%

Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
																			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.32	\$2.39	\$2.45	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$147.04
Alliant Energy Corporation	LNT		\$1.15	\$1.20	\$1.26	\$1.32	\$1.38	\$1.48	\$1.59	\$1.71	\$1.83	\$1.96	\$2.10	\$2.21	\$2.33	\$2.45	\$2.58	\$2.72	\$84.81
Ameren Corporation	AEE		\$1.70	\$1.76	\$1.83	\$1.89	\$1.96	\$2.08	\$2.21	\$2.34	\$2.48	\$2.63	\$2.79	\$2.94	\$3.10	\$3.26	\$3.43	\$3.62	\$112.83
American Electric Power Company, Inc.	AEP		\$2.39	\$2.51	\$2.65	\$2.78	\$2.93	\$3.05	\$3.18	\$3.33	\$3.49	\$3.67	\$3.86	\$4.07	\$4.29	\$4.51	\$4.75	\$5.01	\$156.18
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.26	\$1.33	\$1.41	\$1.49	\$1.57	\$1.68	\$1.80	\$1.93	\$2.06	\$2.20	\$2.35	\$2.47	\$2.60	\$2.74	\$2.89	\$3.04	\$94.84
DTE Energy Company	DTE		\$2.94	\$3.07	\$3.19	\$3.33	\$3.46	\$3.70	\$3.95	\$4.22	\$4.50	\$4.81	\$5.15	\$5.42	\$5.71	\$6.01	\$6.33	\$6.67	\$207.98
El Paso Electric Company	EE		\$1.23	\$1.27	\$1.31	\$1.36	\$1.40	\$1.47	\$1.54	\$1.63	\$1.72	\$1.83	\$1.96	\$2.06	\$2.17	\$2.29	\$2.41	\$2.54	\$79.22
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.75	\$1.83	\$1.91	\$2.00	\$2.09	\$2.26	\$2.44	\$2.64	\$2.85	\$3.07	\$3.30	\$3.48	\$3.67	\$3.86	\$4.07	\$4.28	\$133.58
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.11	\$2.25	\$2.39	\$2.54	\$2.69	\$2.84	\$3.00	\$3.18	\$3.39	\$3.62	\$3.87	\$4.08	\$4.30	\$4.53	\$4.77	\$5.02	\$156.61
MGE Energy, Inc.	MGEE		\$1.20	\$1.18	\$1.16	\$1.13	\$1.10	\$1.25	\$1.41	\$1.58	\$1.77	\$1.98	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.87	\$89.62
NorthWestern Corporation	NWE		\$1.98	\$2.03	\$2.08	\$2.13	\$2.18	\$2.35	\$2.52	\$2.71	\$2.91	\$3.12	\$3.35	\$3.53	\$3.72	\$3.92	\$4.13	\$4.35	\$135.54
OGE Energy Corp.	OGE		\$1.17	\$1.21	\$1.26	\$1.32	\$1.37	\$1.41	\$1.45	\$1.50	\$1.55	\$1.62	\$1.69	\$1.78	\$1.88	\$1.98	\$2.08	\$2.19	\$68.39
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.60	\$2.71	\$2.82	\$2.94	\$3.06	\$3.20	\$3.35	\$3.52	\$3.70	\$3.91	\$4.14	\$4.36	\$4.59	\$4.83	\$5.09	\$5.36	\$167.25
PNM Resources, Inc.	PNM		\$0.90	\$0.99	\$1.08	\$1.19	\$1.30	\$1.45	\$1.60	\$1.76	\$1.93	\$2.10	\$2.28	\$2.40	\$2.53	\$2.66	\$2.80	\$2.95	\$92.10
Portland General Electric Company	POR		\$1.21	\$1.27	\$1.34	\$1.42	\$1.49	\$1.63	\$1.77	\$1.92	\$2.08	\$2.26	\$2.44	\$2.57	\$2.71	\$2.86	\$3.01	\$3.17	\$98.80
SCANA Corporation	SCG		\$2.35	\$2.47	\$2.59	\$2.71	\$2.85	\$3.04	\$3.24	\$3.46	\$3.71	\$3.97	\$4.25	\$4.48	\$4.71	\$4.97	\$5.23	\$5.51	\$171.81
Wisconsin Energy Corporation	WEC		\$1.69	\$1.78	\$1.88	\$1.99	\$2.10	\$2.22	\$2.35	\$2.48	\$2.62	\$2.76	\$2.90	\$3.06	\$3.22	\$3.39	\$3.57	\$3.76	\$117.42
Xcel Energy Inc.	XEL		\$1.37	\$1.45	\$1.53	\$1.62	\$1.71	\$1.82	\$1.93	\$2.06	\$2.19	\$2.33	\$2.48	\$2.61	\$2.75	\$2.89	\$3.05	\$3.21	\$100.06
Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company		Initial																	
	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	Outflow (\$54.07)	\$0.00	\$1.17	\$2.37	\$2.52	\$2.59	\$2.73	\$2.88	\$3.04	\$3.22	\$3.42	\$3.64	\$3.83	\$4.04	\$4.25	\$4.48	\$4.71	\$151.76
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	Outflow (\$54.07) (\$33.83)	\$0.00 \$0.00	\$1.17 \$0.58	\$2.37 \$1.18	\$2.52 \$1.32	\$2.59 \$1.38	\$2.73 \$1.48	\$2.88 \$1.59	\$3.04 \$1.71	\$3.22 \$1.83	\$3.42 \$1.96	\$3.64 \$2.10	\$3.83 \$2.21	\$4.04 \$2.33	\$4.25 \$2.45	\$4.48 \$2.58	\$4.71 \$2.72	\$151.76 \$87.53
Alliant Energy Corporation Ameren Corporation	ALE LNT AEE	Outflow (\$54.07) (\$33.83) (\$46.40)	\$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86	\$2.37 \$1.18 \$1.75	\$2.52 \$1.32 \$1.89	\$2.59 \$1.38 \$1.96	\$2.73 \$1.48 \$2.08	\$2.88 \$1.59 \$2.21	\$3.04 \$1.71 \$2.34	\$3.22 \$1.83 \$2.48	\$3.42 \$1.96 \$2.63	\$3.64 \$2.10 \$2.79	\$3.83 \$2.21 \$2.94	\$4.04 \$2.33 \$3.10	\$4.25 \$2.45 \$3.26	\$4.48 \$2.58 \$3.43	\$4.71 \$2.72 \$3.62	\$151.76 \$87.53 \$116.45
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc.	ALE LNT AEE AEP	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54)	\$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20	\$2.37 \$1.18 \$1.75 \$2.44	\$2.52 \$1.32 \$1.89 \$2.78	\$2.59 \$1.38 \$1.96 \$2.93	\$2.73 \$1.48 \$2.08 \$3.05	\$2.88 \$1.59 \$2.21 \$3.18	\$3.04 \$1.71 \$2.34 \$3.33	\$3.22 \$1.83 \$2.48 \$3.49	\$3.42 \$1.96 \$2.63 \$3.67	\$3.64 \$2.10 \$2.79 \$3.86	\$3.83 \$2.21 \$2.94 \$4.07	\$4.04 \$2.33 \$3.10 \$4.29	\$4.25 \$2.45 \$3.26 \$4.51	\$4.48 \$2.58 \$3.43 \$4.75	\$4.71 \$2.72 \$3.62 \$5.01	\$151.76 \$87.53 \$116.45 \$161.18
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	ALE LNT AEE AEP AVA	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16
Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	ALE LNT AEE AEP AVA CMS	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	ALE LNT AEE AEP AVA CMS DTE	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	ALE LNT AEE AEP AVA CMS DTE EE	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Compartion DTE Energy Company El Paso Electric Company Entergy Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy Energy Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77
Alliant Energy Corporation American Electric Power Company, Inc. Awista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Energy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.25 \$2.14 \$1.22	\$2.52 \$1.32 \$1.89 \$2.78 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.87 \$2.22	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$1.06	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$4.53 \$4.53 \$2.59 \$3.92	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$4.73 \$4.13	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21) (\$27.72)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.06 \$3.87 \$2.22 \$3.35 \$1.69	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$3.97 \$5.02 \$2.87 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19	\$151.76 \$87.53 \$116.45 \$161.48 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. IDATORY Corp. IDATORY CORP. IDATORY CORP. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21) (\$27.72)	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.06 \$0.60 \$0.60 \$0.60 \$0.60 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.14 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.87 \$2.22 \$3.35 \$1.69 \$1.94	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation	ALE LNT AEE AEP AVA CMS DTE EE ET ES FE IDA MGEE NWE OGE OTTR PNW	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$41.72) (\$72.44) (\$70.82) (\$54.15) (\$48.29) (\$57.21) (\$27.72) (\$28.17)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.06 \$0.60 \$1.00 \$0.50 \$0.60 \$1.31	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$2.94	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$1.41 \$3.20	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.87 \$2.22 \$3.35 \$1.69 \$1.94	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.06 \$4.08	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacie West Capital Corporation Pinnacie West Capital Corporation PNM Resources, Inc.	ALE LNT AEP AVA CMS DTE EE ETR ES FE IDA MGEE OGE OTTR PNM	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.21) (\$27.72) (\$28.17) (\$69.12)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.80 \$0.60 \$1.06 \$0.60 \$1.00 \$0.59 \$0.67 \$1.31 \$0.59 \$0.67 \$1.31 \$0.45	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.14 \$1.25 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$2.54 \$1.13 \$2.13 \$2.13 \$1.32 \$2.94 \$1.19	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$1.41 \$3.20 \$1.41 \$3.20 \$1.41	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.55 \$3.00 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.50	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60 \$3.52 \$1.60 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.10	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.36 \$3.37 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28	\$3.83 \$2.21 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.66	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61 \$95.06
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Comporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGTR PNW PNM POR	Outflow (\$54.07) (\$54.07) (\$53.83) (\$45.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.24) (\$27.72) (\$28.17) (\$69.12) (\$31.32) (\$31.32)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.59 \$0.67 \$1.31 \$0.65	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$2.13 \$2.13 \$2.94 \$1.12 \$1.42	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.32 \$3.06 \$1.32 \$3.06 \$1.32	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$2.35 \$1.41 \$1.41 \$3.20 \$1.45 \$1.41 \$3.20	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.50 \$3.35 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.47 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.57	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61 \$95.06
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation CMS Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. OSE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FIDA MGEE OGE OTTR PNW PNM POR SCG	Outflow (\$54.07) (\$33.83) (\$46.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$70.82) (\$42.9) (\$57.21) (\$77.72) (\$27.72) (\$28.17) (\$69.12) (\$33.04)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$0.64 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.50 \$0.60 \$1.31 \$0.45 \$0.61 \$0.61 \$0.61 \$0.62 \$0.62 \$0.63 \$0.64 \$0.60	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.25 \$2.03 \$1.18 \$1.36 \$0.93 \$1.24 \$2.05 \$2.05 \$1.25 \$2.05	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$1.32 \$1.32 \$1.32 \$1.32 \$1.32 \$2.94 \$1.19 \$1.49 \$2.71	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.37 \$1.32 \$3.06 \$1.30 \$1.30 \$2.85	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.25 \$1.41 \$1.41 \$3.20 \$1.45 \$1.63 \$3.04	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.60 \$3.35 \$1.60 \$3.35	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.92 \$2.64 \$2.21 \$3.18 \$1.58 \$1.58 \$1.50 \$1.60 \$3.52 \$1.76 \$3.34	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.05 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.20 \$2.20 \$3.91 \$2.20 \$3.97	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.35 \$1.69 \$1.94 \$2.22 \$3.35 \$1.44 \$2.28 \$2.44	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$3.48	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$2.17 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.71 \$4.71	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.86 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.66 \$2.86 \$4.97	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.73 \$4.13 \$2.08 \$2.38 \$2.38 \$5.09 \$2.80 \$3.01 \$5.23	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17 \$5.51	\$151.76 \$87.53 \$116.45 \$191.18 \$91.18 \$91.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$137.86 \$70.59 \$80.79 \$193.86 \$101.97 \$101.
Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Powtland Energy Inc. Powland Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGTR PNW PNM POR	Outflow (\$54.07) (\$54.07) (\$53.83) (\$45.40) (\$61.54) (\$37.83) (\$39.10) (\$85.80) (\$41.72) (\$72.44) (\$54.15) (\$33.04) (\$70.82) (\$48.29) (\$57.24) (\$27.72) (\$28.17) (\$69.12) (\$31.32) (\$31.32)	\$0.00 \$0.00	\$1.17 \$0.58 \$0.86 \$1.20 \$0.68 \$1.48 \$0.62 \$2.03 \$0.88 \$0.60 \$1.00 \$0.60 \$1.00 \$0.59 \$0.67 \$1.31 \$0.65	\$2.37 \$1.18 \$1.75 \$2.44 \$1.38 \$1.30 \$3.02 \$1.24 \$4.10 \$1.79 \$1.25 \$2.14 \$1.22 \$2.03 \$1.18 \$1.36 \$2.65 \$0.93 \$1.24	\$2.52 \$1.32 \$1.89 \$2.78 \$1.48 \$1.49 \$3.33 \$1.36 \$4.07 \$2.00 \$1.40 \$2.54 \$1.13 \$2.13 \$2.13 \$2.13 \$2.94 \$1.12 \$1.42	\$2.59 \$1.38 \$1.96 \$2.93 \$1.52 \$1.57 \$3.46 \$1.40 \$4.07 \$2.09 \$1.48 \$2.69 \$1.10 \$2.18 \$1.32 \$3.06 \$1.32 \$3.06 \$1.32	\$2.73 \$1.48 \$2.08 \$3.05 \$1.61 \$1.68 \$3.70 \$1.47 \$4.32 \$2.26 \$1.71 \$2.84 \$1.25 \$2.35 \$2.35 \$1.41 \$1.41 \$3.20 \$1.45 \$1.41 \$3.20	\$2.88 \$1.59 \$2.21 \$3.18 \$1.71 \$1.80 \$3.95 \$1.54 \$4.60 \$2.44 \$1.95 \$3.00 \$1.41 \$2.52 \$1.45 \$1.50 \$3.35 \$1.50 \$3.35 \$1.50 \$3.35 \$1.77	\$3.04 \$1.71 \$2.34 \$3.33 \$1.82 \$1.93 \$4.22 \$1.63 \$4.90 \$2.64 \$2.21 \$3.18 \$1.58 \$2.71 \$1.50 \$1.60 \$3.52 \$1.76	\$3.22 \$1.83 \$2.48 \$3.49 \$1.93 \$2.06 \$4.50 \$1.72 \$5.24 \$2.85 \$2.49 \$3.39 \$1.77 \$2.91 \$1.55 \$1.71 \$3.70 \$1.93 \$2.08	\$3.42 \$1.96 \$2.63 \$3.67 \$2.20 \$4.81 \$1.83 \$5.61 \$3.07 \$2.77 \$3.62 \$1.98 \$3.12 \$1.62 \$1.82 \$3.91 \$2.26	\$3.64 \$2.10 \$2.79 \$3.86 \$2.19 \$2.35 \$5.15 \$1.96 \$6.03 \$3.30 \$3.30 \$3.30 \$3.30 \$3.47 \$2.22 \$3.35 \$1.69 \$1.94 \$4.14 \$2.28	\$3.83 \$2.21 \$2.94 \$4.07 \$2.30 \$2.47 \$5.42 \$2.06 \$6.35 \$3.48 \$3.23 \$4.08 \$2.34 \$3.53 \$1.78 \$2.04 \$4.36 \$2.40 \$2.57	\$4.04 \$2.33 \$3.10 \$4.29 \$2.42 \$2.60 \$5.71 \$6.69 \$3.67 \$3.40 \$4.30 \$2.46 \$3.72 \$1.88 \$2.15 \$4.59 \$2.53 \$2.53	\$4.25 \$2.45 \$3.26 \$4.51 \$2.55 \$2.74 \$6.01 \$2.29 \$7.05 \$3.58 \$4.53 \$2.59 \$3.92 \$1.98 \$2.26 \$4.83 \$2.26 \$4.83 \$2.26 \$2.86	\$4.48 \$2.58 \$3.43 \$4.75 \$2.69 \$2.89 \$6.33 \$2.41 \$7.42 \$4.07 \$3.77 \$4.77 \$2.73 \$4.13 \$2.08 \$2.38 \$5.09 \$2.80 \$3.01	\$4.71 \$2.72 \$3.62 \$5.01 \$2.83 \$3.04 \$6.67 \$2.54 \$7.82 \$4.28 \$3.97 \$5.02 \$2.87 \$4.35 \$2.19 \$2.51 \$5.36 \$2.95 \$3.17	\$151.76 \$87.53 \$116.45 \$161.18 \$91.16 \$97.88 \$214.65 \$81.76 \$251.62 \$137.86 \$127.77 \$161.64 \$92.49 \$139.88 \$70.59 \$80.79 \$172.61 \$95.06

Projected Annual

#### Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 30 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

										-								
Inputs		[1] Stock	[2] EF	[3] PS Growth F	[4] Rate Estima	[5] tes	[6] Long-Term	[7]	[8] Payout Ratio	[9]	[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
						High	-		•									
Company ALLETE, Inc.	Ticker	Price \$59.67	Zacks 5.50%	First Call 5.00%	Value Line 4.00%	Growth 5.50%	Growth 5.32%	2016 66.00%	2020 63.00%	2026 66.88%	Proof (\$0.00)	IRR 11.08%	P/E Ratio 20.86	PEG Ratio 3.92				
Alliant Energy Corporation	LNT	\$38.20	6.10%	6.60%	6.00%	6.60%	5.32%	64.00%	61.00%	66.88%	\$0.00	9.37%	20.86	3.92				
Ameren Corporation	AEE	\$50.12	6.10%	5.20%	6.00%	6.10%	5.32%	68.00%	64.00%	66.88%	\$0.00	9.81%	20.86	3.92				
American Electric Power Company, Inc.	AEP	\$66.05	4.90%	4.10%	4.00%	4.90%	5.32%	64.00%	67.00%	66.88%	(\$0.00)	10.37%	20.86	3.92				
Avista Corporation	AVA	\$41.65	5.00%	5.00%	5.00%	5.00%	5.32%	68.00%	63.00%	66.88%	\$0.00	8.70%	20.86	3.92				
CMS Energy Corporation	CMS DTF	\$42.95 \$92.91	6.40% 5.80%	7.24% 5.35%	6.00% 5.00%	7.24% 5.80%	5.32% 5.32%	63.00% 63.00%	62.00% 61.00%	66.88% 66.88%	\$0.00 (\$0.00)	9.72% 9.61%	20.86 20.86	3.92 3.92				
DTE Energy Company El Paso Electric Company	EE	\$45.30	6.70%	7.00%	2.50%	7.00%	5.32%	59.00%	61.00%	66.88%	\$0.00	9.69%	20.86	3.92				
Entergy Corporation	ETR	\$77.45	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	12.50%	20.86	3.92				
Eversource Energy	ES	\$56.36	6.30%	5.49%	6.00%	6.30%	5.32%	60.00%	58.00%	66.88%	\$0.00	10.04%	20.86	3.92				
FirstEnergy Corp.	FE	\$33.34	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.37%	20.86	3.92				
IDACORP, Inc.	IDA MGEE	\$74.50 \$53.30	4.00% NA	4.00% 4.00%	3.00% 7.00%	4.00% 7.00%	5.32% 5.32%	53.00% 56.00%	60.00% 44.00%	66.88% 66.88%	\$0.00 \$0.00	9.16% 8.07%	20.86 20.86	3.92 3.92				
MGE Energy, Inc. NorthWestern Corporation	NWE	\$59.68	5.00%	5.00%	6.50%	6.50%	5.32%	65.00%	59.00%	66.88%	\$0.00	10.15%	20.86	3.92				
OGE Energy Corp.	OGE	\$30.95	5.20%	4.30%	3.00%	5.20%	5.32%	67.00%	70.00%	66.88%	\$0.00	10.69%	20.86	3.92				
Otter Tail Corporation	OTTR	\$30.96	NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	10.39%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$75.82	4.00%	3.73%	4.00%	4.00%	5.32%	64.00%	65.00%	66.88%	\$0.00	9.30%	20.86	3.92				
PNM Resources, Inc. Portland General Electric Company	PNM POR	\$33.49 \$41.86	7.60% 6.40%	8.76% 6.57%	9.00% 5.50%	9.00% 6.57%	5.32% 5.32%	51.00% 56.00%	55.00% 56.00%	66.88% 66.88%	\$0.00 \$0.00	11.54% 10.09%	20.86 20.86	3.92				
SCANA Corporation	SCG	\$71.00	5.30%	5.40%	4.50%	5.40%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	10.09%	20.86	3.92				
Wisconsin Energy Corporation	WEC	\$61.68	6.30%	6.77%	6.00%	6.77%	5.32%	68.00%	67.00%	66.88%	\$0.00	8.20%	20.86	3.92				
Xcel Energy Inc.	XEL	\$42.20	5.30%	5.27%	5.50%	5.50%	5.32%	62.00%	63.00%	66.88%	\$0.00	9.81%	20.86	3.92				
											MEAN	10.09%						
											MAX MIN	13.37% 8.07%						
											IVIIIN	0.0170						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.57	\$3.76	\$3.97	\$4.19	\$4.42	\$4.66	\$4.91	\$5.18	\$5.46	\$5.75	\$6.06	\$6.38	\$6.72	\$7.07	\$7.45	\$7.85
Alliant Energy Corporation	LNT	\$1.69	\$1.80	\$1.92	\$2.05	\$2.18	\$2.33	\$2.47	\$2.63	\$2.78	\$2.94	\$3.11	\$3.27	\$3.45	\$3.63	\$3.82	\$4.03	\$4.24
American Electric Power Company, Inc.	AEE AEP	\$2.38 \$3.59	\$2.53 \$3.77	\$2.68 \$3.95	\$2.84 \$4.14	\$3.02 \$4.35	\$3.20 \$4.56	\$3.39 \$4.79	\$3.59 \$5.03	\$3.79 \$5.29	\$4.01 \$5.56	\$4.22 \$5.85	\$4.45 \$6.16	\$4.69 \$6.49	\$4.94 \$6.84	\$5.20 \$7.20	\$5.47 \$7.58	\$5.77 \$7.99
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.03	\$2.17	\$2.33	\$2.50	\$2.68	\$2.87	\$3.06	\$3.25	\$3.44	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
DTE Energy Company	DTE	\$4.45	\$4.71	\$4.98	\$5.27	\$5.58	\$5.90	\$6.24	\$6.59	\$6.95	\$7.34	\$7.73	\$8.14	\$8.58	\$9.03	\$9.51	\$10.02	\$10.55
El Paso Electric Company	EE	\$2.03	\$2.17	\$2.32	\$2.49	\$2.66	\$2.85	\$3.04	\$3.23	\$3.43	\$3.64	\$3.84	\$4.04	\$4.26	\$4.49	\$4.72	\$4.98	\$5.24
Entergy Corporation	ETR ES	\$5.81 \$2.76	\$6.01 \$2.93	\$6.22 \$3.12	\$6.44 \$3.32	\$6.67 \$3.52	\$6.90 \$3.75	\$7.16 \$3.98	\$7.46 \$4.21	\$7.79 \$4.46	\$8.15 \$4.71	\$8.56 \$4.97	\$9.02 \$5.23	\$9.50 \$5.51	\$10.00 \$5.80	\$10.54 \$6.11	\$11.10 \$6.44	\$11.69 \$6.78
Eversource Energy FirstEnergy Corp.	FF	\$2.70	\$2.93	\$2.38	\$2.59	\$2.82	\$3.75	\$3.34	\$3.59	\$3.85	\$4.71	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.02	\$4.19	\$4.35	\$4.53	\$4.71	\$4.91	\$5.13	\$5.36	\$5.63	\$5.91	\$6.23	\$6.56	\$6.91	\$7.28	\$7.66	\$8.07
MGE Energy, Inc.	MGEE	\$2.06	\$2.20	\$2.36	\$2.52	\$2.70	\$2.89	\$3.08	\$3.28	\$3.48	\$3.69	\$3.90	\$4.10	\$4.32	\$4.55	\$4.79	\$5.05	\$5.32
NorthWestern Corporation	NWE	\$2.90	\$3.09	\$3.29	\$3.50	\$3.73	\$3.97	\$4.22	\$4.48	\$4.75	\$5.02	\$5.29	\$5.58	\$5.87	\$6.19	\$6.52	\$6.86	\$7.23
OGE Energy Corp.	OGE OTTR	\$1.69 \$1.56	\$1.78 \$1.65	\$1.87 \$1.75	\$1.97 \$1.86	\$2.07 \$1.97	\$2.18	\$2.29 \$2.21	\$2.41 \$2.34	\$2.54 \$2.47	\$2.67 \$2.61	\$2.81 \$2.75	\$2.96 \$2.90	\$3.12 \$3.05	\$3.29 \$3.21	\$3.46	\$3.65 \$3.56	\$3.84 \$3.75
Otter Tail Corporation Pinnacle West Capital Corporation	PNW	\$3.92	\$4.08	\$4.24	\$4.41	\$4.59	\$2.09 \$4.77	\$4.97	\$2.34 \$5.19	\$2.47 \$5.43	\$5.70	\$2.75 \$5.99	\$2.90 \$6.31	\$3.05 \$6.64	\$7.00	\$3.38 \$7.37	\$3.56 \$7.76	\$3.75 \$8.18
PNM Resources, Inc.	PNM	\$1.64	\$1.79	\$1.95	\$2.12	\$2.31	\$2.52	\$2.73	\$2.95	\$3.16	\$3.37	\$3.57	\$3.76	\$3.95	\$4.17	\$4.39	\$4.62	\$4.87
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.32	\$2.47	\$2.63	\$2.80	\$2.98	\$3.17	\$3.35	\$3.55	\$3.74	\$3.94	\$4.15	\$4.37	\$4.61	\$4.85	\$5.11
SCANA Corporation	SCG	\$3.81	\$4.02	\$4.23	\$4.46	\$4.70	\$4.96	\$5.22	\$5.50	\$5.80	\$6.11	\$6.43	\$6.78	\$7.14	\$7.52	\$7.92	\$8.34	\$8.78
Wisconsin Energy Corporation	WEC	\$2.34	\$2.50	\$2.67	\$2.85	\$3.04	\$3.25	\$3.46	\$3.68	\$3.90	\$4.12	\$4.35	\$4.59	\$4.83	\$5.09	\$5.36	\$5.64	\$5.94
Xcel Energy Inc.	XEL	\$2.10	\$2.22	\$2.34	\$2.47	\$2.60	\$2.74	\$2.89	\$3.05	\$3.22	\$3.39	\$3.57	\$3.76	\$3.96	\$4.17	\$4.40	\$4.63	\$4.88
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Dividend Fayout Natic			[Ji]	[32]	[၁၁]	[54]	[55]	[၁၀]	[37]	[30]	[33]	[40]	[41]	[42]	[40]	[44]	[40]	[40]
Company																		
ALLETE, Inc.	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Alliant Energy Corporation	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
	ALE LNT		66.00% 64.00%	65.25% 63.25%	64.50% 62.50%	63.75% 61.75%	63.00% 61.00%	63.65% 61.98%	64.29% 62.96%	64.94% 63.94%	65.59% 64.92%	66.23% 65.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
American Electric Power Company, Inc.	ALE LNT AEE		66.00% 64.00% 68.00%	65.25% 63.25% 67.00%	64.50% 62.50% 66.00%	63.75% 61.75% 65.00%	63.00% 61.00% 64.00%	63.65% 61.98% 64.48%	64.29% 62.96% 64.96%	64.94% 63.94% 65.44%	65.59% 64.92% 65.92%	66.23% 65.90% 66.40%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation	ALE LNT AEE AEP		66.00% 64.00% 68.00% 64.00%	65.25% 63.25% 67.00% 64.75%	64.50% 62.50% 66.00% 65.50%	63.75% 61.75% 65.00% 66.25%	63.00% 61.00% 64.00% 67.00%	63.65% 61.98% 64.48% 66.98%	64.29% 62.96% 64.96% 66.96%	64.94% 63.94% 65.44% 66.94%	65.59% 64.92% 65.92% 66.92%	66.23% 65.90% 66.40% 66.90%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	ALE LNT AEE AEP AVA CMS		66.00% 64.00% 68.00% 64.00% 68.00% 63.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63%	64.94% 63.94% 65.44% 66.94% 64.94% 64.44%	65.59% 64.92% 65.92% 66.92% 65.59% 65.25%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	ALE LNT AEE AEP AVA CMS DTE		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96%	64.94% 63.94% 65.44% 66.94% 64.94% 64.44% 63.94%	65.59% 64.92% 65.92% 66.92% 65.59% 65.25% 64.92%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	ALE LNT AEE AEP AVA CMS DTE EE		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 61.98%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 62.96%	64.94% 63.94% 65.44% 66.94% 64.94% 64.44% 63.94% 63.94%	65.59% 64.92% 65.92% 66.92% 65.59% 65.25% 64.92%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00% 67.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00% 59.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 61.63%	64.94% 63.94% 65.44% 66.94% 64.94% 64.44% 63.94% 62.94%	65.59% 64.92% 65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy	ALE LNT AEE AEP AVA CMS DTE EE		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 62.96%	64.94% 63.94% 65.44% 66.94% 64.94% 64.44% 63.94% 63.94%	65.59% 64.92% 65.92% 66.92% 65.59% 65.25% 64.92%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57% 65.40%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00% 67.00% 60.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00% 59.00% 58.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 60.31%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96%	64.94% 63.94% 65.44% 66.94% 64.94% 64.94% 63.94% 63.94% 62.94% 62.44%	65.59% 64.92% 65.92% 66.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.90% 65.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Company El Pass Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00% 67.00% 60.00% 53.00% 53.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 53.00%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50% 50.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00%	63.00% 61.00% 64.00% 67.00% 62.00% 61.00% 61.00% 59.00% 58.00% 60.00% 44.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 51.15% 61.155% 47.81%	64.29% 62.96% 64.96% 66.96% 63.63% 62.96% 61.63% 60.96% 64.29% 62.29% 51.63%	64.94% 63.94% 65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.94% 62.44% 57.44% 55.44%	65.59% 64.92% 65.92% 65.59% 65.25% 64.92% 64.92% 64.25% 63.92% 64.59% 65.59% 65.59% 65.59% 65.59% 65.59%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.57% 65.40% 63.73% 63.07%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation DTE Energy Corporation DTE Energy Company El Pass Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 67.00% 60.00% 55.00% 56.00% 65.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 65.00% 59.50% 53.25% 54.75% 53.00% 63.50%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50% 50.00% 62.00%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00% 60.50%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00% 59.00% 58.00% 48.00% 60.00% 44.00% 59.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 51.15% 61.155% 47.81% 60.31%	64.29% 62.96% 64.96% 66.96% 63.63% 62.96% 61.63% 60.96% 54.29% 51.63% 61.63%	64.94% 63.94% 65.44% 66.94% 64.94% 63.94% 63.94% 62.94% 62.44% 57.44% 63.94% 62.94%	65.59% 64.92% 65.92% 66.92% 65.25% 64.92% 64.92% 64.25% 63.92% 64.59% 64.59% 69.25% 64.25%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.57% 65.40% 63.73% 63.07% 65.57%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE		66.00% 64.00% 68.00% 64.00% 68.00% 63.00% 63.00% 59.00% 60.00% 55.00% 55.00% 56.00% 65.00% 67.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 62.50% 59.50% 59.50% 59.50% 53.25% 54.75% 53.00% 63.50% 67.75%	64.50% 62.50% 66.00% 65.50% 65.50% 62.50% 62.00% 60.00% 63.00% 59.00% 51.50% 56.50% 62.00% 68.50%	63.75% 61.75% 65.00% 66.25% 64.25% 62.25% 61.50% 60.50% 61.00% 58.50% 49.75% 58.25% 47.00% 60.50% 69.25%	63.00% 61.00% 64.00% 67.00% 63.00% 62.00% 61.00% 59.00% 58.00% 48.00% 60.00% 44.00% 59.00% 70.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 60.31% 59.48% 51.15% 61.15% 61.31% 47.81% 60.31% 69.48%	64.29% 62.96% 64.96% 66.96% 64.29% 63.63% 62.96% 61.63% 60.96% 54.29% 62.29% 61.63% 61.63% 68.96%	64.94% 63.94% 65.44% 66.94% 64.94% 64.94% 63.94% 63.94% 62.94% 62.44% 57.44% 63.44% 62.94% 68.44%	65.59% 64.92% 65.92% 65.59% 65.25% 64.92% 64.25% 63.92% 60.59% 64.59% 64.25% 67.92%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.57% 65.40% 63.73% 65.73% 65.73% 65.75% 67.40%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
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American Electric Power Company, Inc. Avista Corporation OTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Plinacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR SCG		66.00% 64.00% 68.00% 64.00% 63.00% 63.00% 63.00% 67.00% 60.00% 55.00% 65.00% 67.00% 67.00% 67.00% 67.00% 67.00% 67.00% 67.00% 67.00%	65.25% 63.25% 67.00% 64.75% 66.75% 62.75% 59.50% 65.00% 59.50% 65.00% 53.25% 54.75% 67.75% 64.25% 52.00% 59.25%	64.50% 62.50% 66.00% 65.50% 62.50% 62.00% 62.00% 63.00% 59.00% 65.50% 50.00% 68.50% 71.50% 64.50% 53.00% 54.50% 59.00%	63.75% 61.75% 65.00% 66.25% 64.25% 64.25% 61.50% 61.50% 61.00% 58.50% 49.75% 60.50% 69.25% 67.25% 64.75% 54.00% 55.50%	63.00% 61.00% 64.00% 67.00% 63.00% 61.00% 61.00% 59.00% 44.00% 70.00% 63.00% 65.00% 65.00% 65.00% 66.00%	63.65% 61.98% 64.48% 66.98% 63.65% 62.81% 61.98% 61.98% 59.48% 60.31% 69.48% 65.31% 56.98% 57.81%	64.29% 62.96% 64.96% 66.96% 64.29% 62.96% 62.96% 61.63% 60.96% 64.29% 65.63% 65.63% 65.63% 65.63% 65.63%	64.94% 63.94% 65.44% 66.94% 64.94% 63.94% 63.94% 62.244% 65.244% 62.44% 62.94% 63.44% 64.46% 66.94% 66.94% 61.44%	65.59% 64.92% 65.92% 65.92% 65.52% 64.92% 64.92% 60.59% 64.25% 62.52% 62.52% 63.92% 64.55% 64.25% 65.59% 66.25% 62.92% 63.92% 63.92% 64.59%	66.23% 65.90% 66.40% 66.90% 66.23% 66.07% 65.90% 65.57% 65.70% 65.57% 67.40% 66.57% 64.90% 65.7% 64.90% 65.7%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
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Projected Annual																			
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
			[]	11	[]	[]	[1	[]	[]	[1	[]	[]	[1	[]	[]	[]	[1	[]	Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.35	\$2.45	\$2.56	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$163.70
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.28	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$88.48
Ameren Corporation	AEE		\$1.72	\$1.80	\$1.88	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$120.28
American Electric Power Company, Inc.	AEP		\$2.41	\$2.56	\$2.71	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$166.59
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.28	\$1.36	\$1.46	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$103.50
DTE Energy Company	DTE		\$2.97	\$3.11	\$3.27	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$220.16
El Paso Electric Company	EE		\$1.28	\$1.38	\$1.49	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$109.31
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.76	\$1.86	\$1.96	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$141.47
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$168.36
MGE Energy, Inc.	MGEE		\$1.23	\$1.25	\$1.26	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$110.93
NorthWestern Corporation	NWE		\$2.01	\$2.09	\$2.17	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$150.76
OGE Energy Corp.	OGE		\$1.19	\$1.27	\$1.35	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$80.12
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$170.53
PNM Resources, Inc.	PNM		\$0.91	\$1.01	\$1.13	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$101.51
Portland General Electric Company	POR		\$1.22	\$1.30	\$1.38	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$106.58
SCANA Corporation	SCG		\$2.37	\$2.51	\$2.65	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$183.22
Wisconsin Energy Corporation	WEC		\$1.70	\$1.81	\$1.92	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$123.98
			64.07	\$1.46	\$1.54	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$101.71
Xcel Energy Inc.	XEL		\$1.37	\$1.40	\$1.54	\$1.03	ψ1.73	Ψ1.04	<b>V1.00</b>	7	<del></del>		•	,			,		
Xcel Energy Inc.  Projected Annual Data Investor Cash Flows	XEL	[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Projected Annual Data	XEL	[64] Initial Outflow					•	,			•	[74] 6/30/24		•		[78] 6/30/28			[81] 6/30/31
Projected Annual Data Investor Cash Flows	Ticker ALE	Initial Outflow (\$59.67)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19	[67]	[68] 6/30/18 \$2.67	[69] 6/30/19 \$2.78	[70] 6/30/20 \$2.97	[71] 6/30/21 \$3.16	[72] 6/30/22 \$3.36	[73] 6/30/23 \$3.58	6/30/24 \$3.81	[75] 6/30/25 \$4.05	[76] 6/30/26 \$4.27	[77] 6/30/27 \$4.49	6/30/28 \$4.73	[79] 6/30/29 \$4.98	[80] 6/30/30 \$5.25	6/30/31 \$168.95
Projected Annual Data Investor Cash Flows	Ticker	Initial Outflow	[65] 6/30/16	[66] 12/31/16	[67] 6/30/17	[68] 6/30/18	[69] 6/30/19	[70]	[71] 6/30/21 \$3.16 \$1.65	[72] 6/30/22 \$3.36 \$1.78	[73] 6/30/23	6/30/24 \$3.81 \$2.05	[75] 6/30/25	[76] 6/30/26	[77] 6/30/27 \$4.49 \$2.43	6/30/28	[79] 6/30/29	[80]	6/30/31
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc.	Ticker ALE LNT AEE	Initial Outflow (\$59.67) (\$38.20) (\$50.12)	[65] 6/30/16 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87	[67] 6/30/17 \$2.42 \$1.19 \$1.77	[68] 6/30/18 \$2.67 \$1.35 \$1.96	[69] 6/30/19 \$2.78 \$1.42 \$2.05	[70] 6/30/20 \$2.97 \$1.53 \$2.19	[71] 6/30/21 \$3.16 \$1.65 \$2.33	[72] 6/30/22 \$3.36 \$1.78 \$2.48	[73] 6/30/23 \$3.58 \$1.91 \$2.64	6/30/24 \$3.81 \$2.05 \$2.80	[75] 6/30/25 \$4.05 \$2.19 \$2.98	[76] 6/30/26 \$4.27 \$2.31 \$3.13	[77] 6/30/27 \$4.49 \$2.43 \$3.30	6/30/28 \$4.73 \$2.56 \$3.48	[79] 6/30/29 \$4.98 \$2.69 \$3.66	[80] 6/30/30 \$5.25 \$2.84 \$3.86	6/30/31 \$168.95 \$91.31 \$124.14
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation	Ticker ALE LNT AEE AEP	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06	[70] 6/30/20 \$2.97 \$1.53	[71] 6/30/21 \$3.16 \$1.65	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation	Ticker ALE LNT AEE AEP AVA	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation	Ticker ALE LNT AEE AEP AVA CMS	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87	[71] \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70	[80] \$6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation Ameren Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07	[69] \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Entergy Corporation Entergy Corporation Entergy Corporation Eversource Energy	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82	[68] \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06	[69] \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$4.90 \$2.78	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.65	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.46 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.77
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.05 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.77 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.27 \$3.40	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$5.47 \$6.03 \$3.50 \$3.06 \$4.16	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$5.85 \$6.35 \$3.63 \$3.63 \$4.39	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.88 \$3.40 \$4.62	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.77 \$173.76
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	Ticker ALE LNT AEP AVA CMS DTE EER ES FE IDA MGEE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$53.30)	[65] 6/30/16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.60	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.28	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$3.19 \$1.69	[72]  6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$2.36 \$3.01 \$2.49 \$3.63 \$3.21 \$3.72 \$4.76 \$3.72 \$4.76 \$5.24 \$3.01 \$2.49 \$3.69 \$3.50 \$3.50 \$3.50 \$3.50 \$3.50 \$3.50 \$4.76 \$3.70 \$3.50 \$	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$4.16 \$2.74	[76]  6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$3.69 \$3.23 \$4.39 \$2.89	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.462 \$3.04	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$3.50 \$4.54 \$3.97 \$5.40 \$3.56	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.77 \$173.76 \$114.48
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Company El Paso Electric Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$56.36) (\$33.34) (\$74.50) (\$55.63) (\$55.63) (\$55.63) (\$55.63) (\$55.63)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$1.48 \$2.83	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.86 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47	[75] 6/30/25 \$4.05 \$2.19 \$2.29 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.06 \$4.16 \$2.74 \$3.73	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14	6/30/28 \$4.73 \$2.56 \$3.48 \$2.55 \$2.99 \$6.36 \$7.05 \$4.09 \$3.58 \$4.81 \$7.05 \$4.09 \$3.58 \$4.81 \$4.8	[79] 6/30/29 \$4.98 \$2.69 \$3.65 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83	6/30/31 \$168.95 \$91.31 \$124.14 \$177.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.77 \$173.76 \$114.48 \$155.59
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$77.45) (\$53.34) (\$74.50) (\$53.39) (\$53.39) (\$30.95)	[65] 6/30/16 50.00 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$2.18 \$1.28 \$2.28 \$2.28 \$2.28	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.64 \$1.27 \$2.64 \$1.27	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.66	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.93 \$2.93 \$1.74	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22 \$1.81	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$3.50 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.23 \$2.89 \$3.20 \$2.09	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.62 \$3.04 \$4.52	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$5.13 \$5.13 \$5.13 \$5.13 \$5.24 \$4.34	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$7.82 \$4.54 \$3.50 \$7.82 \$4.54 \$3.56 \$4.83 \$3.56	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.77 \$173.76 \$114.48 \$155.59 \$82.69
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	Ticker ALE LNT AEE AEP AEV CMS DTE EE ETR ES FE IDA MGEE NWE OGE	Initial Outflow (\$59.67) (\$59.67) (\$59.67) (\$60.05) (\$60.05) (\$42.95) (\$92.91) (\$45.30) (\$56.36) (\$33.34) (\$57.45) (\$56.36) (\$35.30) (\$59.68) (\$30.95) (\$30.95)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.64 \$1.50 \$0.65 \$2.03 \$0.65 \$2.03 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.65	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.27 \$2.26 \$1.43 \$1.35	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$3.60 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$1.32	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59 \$1.41	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$2.76 \$1.69 \$2.76 \$1.60 \$1.60	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.82 \$2.82 \$4.95 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.22 \$1.81	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90 \$1.82	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$1.94	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.00	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.22 \$2.26	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.49 \$2.28	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.45 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83 \$2.57 \$2.51	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.76 \$114.48 \$155.59 \$82.69 \$80.79
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation OGE Energy Corp. Otter Tail Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE ETR ES FE IDA MGEE NWE OGE OTTM	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$74.50) (\$74.50) (\$74.50) (\$74.50) (\$75.30) (\$75.92,91)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.25 \$2.18 \$1.28 \$1.28 \$2.07 \$1.26 \$2.66	[68] 6/30/18 \$2.67 \$1.36 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.40 \$1.40 \$2.64 \$1.43	[69] 6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$3.31 \$	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$3.55 \$1.59 \$1.59 \$1.59 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.66 \$1.50 \$3.41	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.93 \$2.21 \$3.40 \$1.93 \$3.54 \$1.74 \$1.60 \$3.54 \$1.74 \$1.60 \$3.54 \$1.74 \$1.60 \$3.54 \$1.74 \$1.60 \$3.55 \$1.74 \$1.60 \$1.74 \$1.60 \$1.74 \$1.60 \$1.74 \$1.60 \$1.74 \$1.60 \$1.74 \$1.60 \$1.74 \$1.60 \$1.74	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.72	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.80 \$3.99	[75] 6/30/25 \$4.05 \$2.19 \$2.29 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$1.98 \$4.22	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.99 \$2.09 \$4.44	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$3.88 \$3.40 \$4.62 \$3.04 \$4.62 \$3.04 \$4.62 \$3.04 \$4.62 \$3.04 \$4.62 \$3.66 \$4.62	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26 \$4.93	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.57 \$5.40 \$3.56 \$4.83 \$2.57 \$2.57 \$2.57 \$2.57 \$2.57 \$2.57	6/30/31 \$168.95 \$91.31 \$124.14 \$106.82 \$27.22 \$112.82 \$251.62 \$114.82 \$146.01 \$147.77 \$173.76 \$114.82 \$155.59 \$82.69 \$80.79 \$176.00
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc.  Alliant Energy Corporation American Electric Power Company, Inc.  Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp.  IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PNM Resources, Inc.	Ticker ALE LNT AEE AEP AVA CMS DTE EE ES FE IDA MGEE NWE OGE OTTR PNW	Initial Outflow (\$59.67) (\$59.67) (\$38.20) (\$50.12) (\$60.05) (\$42.95) (\$92.91) (\$56.36) (\$77.45) (\$55.36) (\$73.34) (\$74.50) (\$59.68) (\$30.95) (\$30.95) (\$30.95) (\$30.96) (\$75.82) (\$33.94)	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.69 \$1.08 \$0.62 \$1.01 \$0.62 \$1.01 \$0.62 \$1.01 \$0.62 \$1.01 \$0.62 \$1.04 \$0.67 \$1.32	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$1.22 \$1.25 \$2.16 \$1.22 \$1.36 \$2.66 \$2.66 \$0.95	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.32 \$2.97 \$2.25	[69]  6/30/19  \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$1.32 \$3.10 \$3.13	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$3.87 \$1.88 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.41 \$3.55 \$1.41 \$3.55 \$1.55	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$2.76 \$1.50 \$3.41 \$1.50 \$3.41 \$1.50 \$3.41 \$1.50 \$3.41 \$1.50 \$3.41 \$1.50 \$3.41 \$1.50 \$3.41 \$4.50	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.95 \$2.78 \$2.21 \$3.40 \$1.93 \$2.99 \$1.74 \$1.60 \$3.58 \$1.92	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.22 \$1.81 \$1.91 \$2.25	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$5.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90 \$1.82 \$3.99 \$2.31	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$3.50 \$3.73 \$1.94 \$4.12 \$2.74 \$3.73 \$1.94 \$4.22 \$2.51	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$5.36 \$3.23 \$4.39 \$2.89 \$3.93 \$2.89 \$3.93 \$2.04 \$4.44	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.14 \$2.20 \$2.15 \$4.68 \$4.69 \$4.69 \$5.49 \$6.04 \$	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.32 \$2.22 \$2.26 \$4.93 \$2.93	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.315 \$6.70 \$3.33 \$7.42 \$4.31 \$3.77 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.53 \$2.57 \$2.57 \$2.51 \$5.51	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$251.62 \$146.07 \$112.77 \$113.76 \$114.48 \$155.59 \$82.69 \$80.79 \$176.00 \$104.77
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portiand General Electric Company	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES IDA MGEE NWE OGTE PNW PNM	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$57.45) (\$56.36) (\$33.34) (\$74.50) (\$59.89) (\$75.82) (\$33.49) (\$41.86) (\$41.86)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32 \$0.46	[67]  6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$51.35 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18 \$1.26 \$52.66 \$0.95 \$1.26	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.32 \$2.27 \$2.29 \$1.32	[69]  6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$3.10 \$1.39 \$1.55 \$1.55	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.29 \$3.87 \$1.61 \$1.82 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$1.66 \$1.66 \$1.66 \$1.65 \$3.41 \$1.89	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.92 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.03 \$2.49 \$3.63 \$2.49 \$3.63 \$2.19 \$3.81 \$3.72 \$3.81 \$3.72 \$4.76 \$3.72 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.25 \$5.24 \$5.24 \$5.25 \$5.24 \$5.26 \$5.24 \$5.26 \$5.26 \$5.27 \$5.26 \$5.27 \$5.26 \$5.27 \$	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.82 \$3.99 \$2.31 \$2.44	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$4.22 \$2.56	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.00 \$4.44 \$2.65 \$2.70	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.62 \$4.62 \$4.62 \$4.62 \$5.62 \$5.62 \$6.63	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26 \$4.93 \$2.93 \$3.08	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.33 \$7.42 \$4.31 \$3.37 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$2.38 \$3.29	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$7.82 \$4.54 \$3.97 \$5.40 \$3.50 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.50 \$5.35	6/30/31 \$168.95 \$91.31 \$124.19 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$142.777 \$173.76 \$82.69 \$82.69 \$80.79 \$176.00 \$104.99
Projected Annual Data Investor Cash Flows  Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation CMS Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	Ticker ALE LNT AEE AEP AVA CMS DTE EE EIDA MGEE NWE OGE OTTR PNM POR SCG	Initial Outflow (\$59,67) (\$38,20) (\$50,12) (\$66,05) (\$41,65) (\$42,95) (\$77,45) (\$56,30) (\$57,33) (\$56,30) (\$53,30) (\$57,59,20) (\$53,30) (\$59,88) (\$59,88) (\$59,88) (\$59,88) (\$74,50) (\$74,50) (\$53,30) (\$57,45) (\$74,50) (\$74,50) (\$74,50) (\$74,50) (\$74,50) (\$74,50) (\$74,50) (\$74,50) (\$74,50) (\$75,82) (\$	[65] 6/30/16 \$0.00	[66]  12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32 \$0.46 \$0.61 \$1.19	[67] 6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.38 \$1.32 \$3.05 \$1.33 \$4.10 \$1.82 \$1.28 \$2.27 \$1.38 \$2.28 \$1.28 \$2.66 \$0.95 \$1.26 \$0.95 \$1.26	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$1.27 \$2.26 \$4.127 \$2.26 \$1.43 \$1.32 \$1.32 \$1.25 \$1.47 \$2.26	[69]  6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$1.52 \$1.60 \$1.74 \$4.07 \$1.48 \$2.87 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$1.32 \$3.10 \$3.10 \$3.10 \$3.10	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.21 \$1.61 \$1.80 \$1.80 \$4.32 \$2.36 \$1.71 \$3.87 \$1.47 \$2.55 \$1.47 \$2.55 \$1.59 \$1.45 \$3.15 \$3.15 \$3.15 \$3.15 \$3.17 \$3.25	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.15 \$2.04 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$2.76 \$1.95 \$1.69 \$2.76 \$1.95 \$3.43	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$1.78 \$2.21 \$3.40 \$1.93 \$2.93 \$1.74 \$1.60 \$3.58	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.01 \$2.49 \$3.63 \$2.19 \$3.63 \$2.19 \$3.72 \$1.81 \$1.71 \$3.78 \$2.12 \$2.24 \$3.95	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.90 \$1.82 \$3.99 \$2.31 \$2.31 \$4.23	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.19 \$2.545 \$5.45 \$2.70 \$6.03 \$3.50 \$3.50 \$3.66 \$4.16 \$2.74 \$3.73 \$1.98 \$1.98 \$1.94 \$4.92 \$2.51 \$2.64	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.23 \$4.39 \$2.89 \$3.93 \$2.09 \$2.04 \$4.44 \$2.65 \$2.78 \$4.77	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$3.00 \$6.69 \$3.88 \$3.40 \$4.62 \$3.04 \$4.12 \$2.20 \$2.15 \$4.62 \$2.15 \$4.62 \$2.79 \$2.92 \$2.15 \$4.62 \$2.79 \$2.92 \$2.15 \$4.62 \$2.79 \$2.92 \$2.15 \$4.62 \$2.79 \$2.92 \$	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$2.32 \$2.26 \$4.93 \$2.32 \$2.32 \$2.32 \$3.30 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.0	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.15 \$3.33 \$7.42 \$4.31 \$3.77.42 \$4.31 \$3.38 \$4.59 \$2.44 \$2.38 \$5.19 \$3.09 \$3.29	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.30 \$7.82 \$7.06 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.56 \$4.83 \$2.57 \$2.57 \$2.51 \$2.51 \$3.25	6/30/31 \$168.95 \$91.31 \$124.14 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$127.77 \$114.48 \$155.59 \$80.79 \$175.76 \$106.77 \$
Projected Annual Data Investor Cash Flows  Company  ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Avista Corporation OMS Energy Corporation DTE Energy Corporation DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Other Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portiand General Electric Company	Ticker ALE LNT AEE AVA CMS DTE EE ETR ES IDA MGEE NWE OGTE PNW PNM	Initial Outflow (\$59.67) (\$38.20) (\$50.12) (\$66.05) (\$41.65) (\$42.95) (\$92.91) (\$45.30) (\$57.45) (\$56.36) (\$33.34) (\$74.50) (\$59.89) (\$75.82) (\$33.49) (\$41.86) (\$41.86)	[65] 6/30/16 \$0.00	[66] 12/31/16 \$1.19 \$0.58 \$0.87 \$1.21 \$0.68 \$0.64 \$1.50 \$0.65 \$2.03 \$0.89 \$0.60 \$1.08 \$0.62 \$1.01 \$0.60 \$0.67 \$1.32 \$0.46	[67]  6/30/17 \$2.42 \$1.19 \$1.77 \$2.47 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$3.05 \$1.32 \$51.35 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18 \$1.25 \$2.18 \$1.26 \$52.66 \$0.95 \$1.26	[68] 6/30/18 \$2.67 \$1.35 \$1.96 \$2.88 \$1.48 \$1.56 \$3.43 \$1.61 \$4.07 \$2.06 \$1.40 \$2.64 \$1.27 \$2.26 \$1.43 \$1.32 \$2.27 \$2.29 \$1.32	[69]  6/30/19 \$2.78 \$1.42 \$2.05 \$3.06 \$1.52 \$1.66 \$3.60 \$1.74 \$4.07 \$2.17 \$1.48 \$2.83 \$1.27 \$2.34 \$1.52 \$3.10 \$1.39 \$1.55 \$1.55	[70] 6/30/20 \$2.97 \$1.53 \$2.19 \$3.29 \$3.87 \$1.61 \$1.82 \$4.32 \$2.36 \$1.71 \$3.00 \$1.47 \$2.55 \$1.59	[71] 6/30/21 \$3.16 \$1.65 \$2.33 \$3.37 \$1.71 \$1.94 \$4.60 \$2.57 \$1.95 \$3.19 \$1.69 \$1.66 \$1.66 \$1.66 \$1.65 \$3.41 \$1.89	[72] 6/30/22 \$3.36 \$1.78 \$2.48 \$3.54 \$1.82 \$2.09 \$4.45 \$2.20 \$4.90 \$2.78 \$2.21 \$3.40 \$1.92 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$1.62 \$1.74 \$	[73] 6/30/23 \$3.58 \$1.91 \$2.64 \$3.72 \$1.93 \$2.25 \$4.76 \$2.36 \$5.24 \$3.03 \$2.49 \$3.63 \$2.49 \$3.63 \$2.19 \$3.81 \$3.72 \$3.81 \$3.72 \$4.76 \$3.72 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$3.81 \$4.76 \$5.24 \$3.72 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.24 \$5.25 \$5.24 \$5.24 \$5.26 \$5.24 \$5.26 \$5.24 \$5.26 \$5.26 \$5.27 \$	6/30/24 \$3.81 \$2.05 \$2.80 \$3.91 \$2.05 \$2.40 \$5.10 \$2.53 \$5.61 \$2.53 \$5.61 \$3.25 \$2.77 \$3.89 \$2.46 \$3.47 \$1.82 \$3.99 \$2.31 \$2.44	[75] 6/30/25 \$4.05 \$2.19 \$2.98 \$4.12 \$2.56 \$5.45 \$2.70 \$6.03 \$3.50 \$4.16 \$2.74 \$3.73 \$1.98 \$4.22 \$2.56	[76] 6/30/26 \$4.27 \$2.31 \$3.13 \$4.34 \$2.30 \$2.70 \$5.74 \$2.85 \$6.35 \$3.69 \$3.23 \$4.39 \$2.89 \$3.93 \$2.00 \$4.44 \$2.65 \$2.70	[77] 6/30/27 \$4.49 \$2.43 \$3.30 \$4.57 \$2.42 \$2.84 \$6.04 \$3.00 \$6.69 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.40 \$4.62 \$3.62 \$4.62 \$4.62 \$4.62 \$5.62 \$6.63	6/30/28 \$4.73 \$2.56 \$3.48 \$4.81 \$2.55 \$2.99 \$6.36 \$3.16 \$7.05 \$4.09 \$3.58 \$4.87 \$3.21 \$4.36 \$2.32 \$2.26 \$4.93 \$2.93 \$3.08	[79] 6/30/29 \$4.98 \$2.69 \$3.66 \$5.07 \$2.69 \$3.33 \$7.42 \$4.31 \$3.37 \$5.13 \$3.38 \$4.59 \$2.44 \$2.38 \$2.38 \$3.29	[80] 6/30/30 \$5.25 \$2.84 \$3.86 \$5.34 \$2.83 \$3.32 \$7.06 \$7.82 \$4.54 \$3.97 \$5.40 \$3.50 \$3.50 \$7.82 \$4.54 \$3.97 \$5.40 \$3.50 \$5.35	6/30/31 \$168.95 \$91.31 \$124.19 \$171.93 \$91.16 \$106.82 \$227.22 \$112.82 \$251.62 \$146.01 \$142.777 \$173.76 \$82.69 \$82.69 \$80.79 \$176.00 \$104.99

#### Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 90 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

Company		
Allest Caregory		
Company   Comp		
ALLE IF: C.  ALLE ST. S.		
Amenic Decorporation   Amenic Decorporation   Amenic Decorporation   Amenic Decorporation   Amenic Decorporation   Amenic Decorporation   Amenical		
American Educir Proving Company, Inc. AEP		
Avail Segrey Comparison  Avil 9 40, 9 40, 9 50,		
CMS Ferry Corporation   CMS   94.70   6.970   7.294   6.070   7.294   6.070   7.294   6.070   7.294   6.070   7.294   6.070   7.294   6.070   7.294   6.070   7.294		
DIE FemogreCompany  DIE \$44.56 of 10% 1.50% 5.00		
El Paule Desire Company  EE 94.45 6 70% 70% 20% 30% 50% 50% 500% 60.0% 60.0% 60.0% 60.0% 5		
Elempt Corporation   ETR   376.50   NA   NA   300%   3.00%   3		
Exercisency Energy Feb \$45,28   639%   649%   600%   620%   520%   5000%   630%		
Fieldergy Corp.  Field Stage 1, Mo. No. 10, Mo. 10, Mo		
IDACORF  Inc.		
MGE Energy Inc.  MGES \$51.38  NA 4.00% 7.00% 6.0		
OSE Engry Corp.  OSE \$29:13 5 20% 4,30% 300% 520% 520% 60.0%	4.00% 7.00% 7.00% 5.32% 56.00% 44.00% 66.88% \$0.00 8.39% 20.86 3.92	
Dies Tall Corporation		
Pinnale West Capatial Corporation   PNM   \$73.65   4.00%   \$0.70%   \$0.00		
PAM Resources, Inc. PAM S32.94 7.60% 8.70% 9.00% 5.30% 5.00% 5.00% 5.00% 5.00% 6.88% 50.00 1.170% 20.86 3.92 Profress Centred Science Science Company Policy 4.00% 5.00% 6.00% 6.00% 6.88% 50.00 1.01% 20.86 3.92 Profress Centred Science Company Policy 4.00% 5.00% 6.		
Portland General Electric Company   POR   \$40.24   8.40%   6.57%   5.25%   5.50%   6.67%   5.25%   5.05%   5.40%   5.25%   5.05%   5.40%   5.25%   5.05%   5.40%   5.25%   5.05%   5.40%   5.25%   5.05%   5.40%   5.25%   5.05%   5.40%   5.25%   5.05%   5.25%   5		
SCANA Corporation SCG \$89.22 5.39% 5.40% 4.50% 5.60% 5.00% 5.00% 6.88% 5.00 5.00% 10.00% 6.88% 5.00 5.00% 10.00% 20.00% 20.00% 20.00% 20.00% 10.00% 2		
Wisconsin Energy Corporation   WEC   \$89.53   6.30%   6.77%   5.00%   5.77%   5.00%   5.27%   6.00%		
Value   France   Value   Val		
Projected Annual		
Projected Annual Earnings per Share    14   15   16   17   18   19   200   201   202   203   204   2025   2036   2027   2028   2029   202   2024   2025   2026   2027   2028   2029   2029   2028   2029   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   2021   2020   20		
Earnings per Share		
Emimgs per Share  [14] [15] [16] [17] [18] [19] [20] [22] [22] [23] [24] [25] [26] [27] [28] [2  Company  [16] Ticker  [17] 2018 2019 2020 2021 2022 2023 2024 2025 2028 2027 2028 2029 2020 2024 2024 2025 2028 2029 2029 2029 2029 2020 2020 2020		
Emmings per Share		
Company	[16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28]	[29] [30]
ALLETE Inc.  ALE \$3.38 \$3.57 \$3.76 \$3.97 \$4.19 \$4.42 \$4.66 \$4.91 \$5.18 \$5.46 \$5.75 \$6.06 \$6.38 \$6.72 \$7.07 \$7. Allamilan Energy Corporation  LNT \$1.69 \$1.80 \$1.92 \$2.50 \$2.26 \$2.80 \$2.28 \$3.29 \$3.39 \$3.79 \$4.01 \$4.22 \$4.45 \$4.69 \$4.70 \$4.52 \$4.45 \$4.69 \$4.52 \$4.45 \$4.69 \$4.52 \$4.45 \$4.69 \$4.52 \$4.50 \$4.60 \$4.50	[10] [11] [10] [10] [10] [11] [12] [12] [13] [14] [15] [15]	[20] [00]
Allant Energy Corporation  AEE \$3.38 \$2.59 \$2.68 \$2.26 \$2.18 \$2.23 \$2.47 \$2.63 \$2.78 \$2.94 \$3.11 \$3.27 \$3.46 \$3.63 \$3.82 \$2.44 \$3.07 \$4.07		2030 2031
American Electric Power Company, Inc.  AFE \$2.38 \$2.59 \$3.77 \$3.56 \$4.45 \$4.50 \$4.50 \$5.00		\$7.45 \$7.85
American Electric Power Company, Inc.  AEP \$3.59 \$3.77 \$3.96 \$4.14 \$4.95 \$4.50 \$4.79 \$5.03 \$5.29 \$5.56 \$5.86 \$6.86 \$8.16 \$6.49 \$8.24 \$7.20 \$7.20 \$2.41 \$2.20 \$2.20 \$2.26 \$7.20 \$2.24 \$7.20 \$2.20 \$7.20		\$4.03 \$4.24
Avisal Corporation   AVA \$1.89 \$1.98 \$2.08 \$2.19 \$2.30 \$2.41 \$2.53 \$2.68 \$2.80 \$2.95 \$3.10 \$3.27 \$3.44 \$3.52 \$3.82 \$4.00		\$5.47 \$5.77 \$7.58 \$7.99
CMS Energy Comparaty		\$7.58 \$7.99 \$4.02 \$4.23
DTE Engry Company DTE		\$4.02 \$4.23
El Paso Electric Company  EE \$2.03 \$2.17 \$2.32 \$2.49 \$2.66 \$2.95 \$3.04 \$3.23 \$3.43 \$3.64 \$3.04 \$4.04 \$4.26 \$4.49 \$4.72 \$4. Entergy Corporation  ETR \$5.81 \$5.61 \$6.25 \$6.44 \$6.75 \$6.90 \$7.79 \$5.21 \$5.85 \$5.65 \$6.90 \$9.02 \$9.50 \$10.00 \$10.54 \$4.11 \$4.15 \$4.97 \$5.23 \$5.51 \$8.56 \$6.90 \$9.02 \$9.50 \$10.00 \$10.54 \$4.11 \$4.15 \$4.97 \$6.20 \$1.05 \$4.10 \$4.10 \$4.1		\$10.02 \$10.55
Entergy Corporation   ETR   \$5.81   \$6.01   \$6.22   \$6.44   \$6.67   \$6.00   \$7.16   \$7.79   \$8.15   \$8.66   \$9.02   \$9.50   \$10.00   \$10.54   \$11.55   \$1.55   \$1.00   \$10.54   \$11.55   \$1.55   \$1.00   \$1.05		\$4.98 \$5.24
FirstEnergy Corp.    FE   \$2.00   \$2.18   \$2.38   \$2.59   \$2.82   \$3.08   \$3.34   \$3.59   \$3.85   \$4.10   \$4.35   \$4.62   \$4.02   \$5.08   \$5.35   \$5.00   \$5.00     DIACORP, Inc.   DIA   \$3.87   \$4.02   \$4.19   \$4.35   \$4.55   \$4.57   \$4.91   \$4.9		\$11.10 \$11.69
IDACORP, Inc.   IDA   \$3.87   \$4.02   \$4.19   \$4.35   \$4.57   \$4.91   \$5.13   \$5.36   \$5.63   \$5.91   \$6.23   \$6.66   \$6.91   \$7.28   \$7.00   \$7.00	\$3.12 \$3.32 \$3.52 \$3.75 \$3.98 \$4.21 \$4.46 \$4.71 \$4.97 \$5.23 \$5.51 \$5.80 \$6.11	\$6.44 \$6.78
MGEE s2.06 s2.20 s2.30 s2.52 s2.73 s2.89 s3.08 s3.28 s3.48 s3.69 s3.90 s4.10 s4.32 s4.55 s4.79 s5. NorthWestenCorporation NWE s2.00 s3.09 s3.09 s3.29 s3.50 s3.73 s3.75 s2.89 s3.07 s4.22 s4.48 s4.75 s5.02 s5.29 s5.24 s5.58 s5.87 s6.19 s6.52 s6.  GEEnergy Corp. OGE s1.69 s1.78 s1.87 s1.97 s2.07 s2.18 s2.29 s2.41 s2.54 s2.67 s2.81 s2.96 s3.12 s3.29 s3.46 s3.  Prinade West Capital Corporation PNW s3.92 s4.08 s4.24 s4.41 s4.59 s4.77 s4.97 s5.19 s5.43 s5.70 s5.99 s6.31 s6.48 s7.00 s7.37 s7.  PNM Resources, Inc. PNM s1.64 s1.79 s1.95 s2.12 s2.21 s2.24 s2.73 s2.95 s3.16 s3.37 s3.76 s3.95 s4.17 s4.39 s4.  Portiand General Electric Company POR s2.04 s2.17 s2.22 s2.47 s2.63 s2.80 s2.99 s3.17 s3.55 s3.65 s3.74 s3.76 s3.95 s4.17 s4.09 s4.  Projected Annual Dividend Payout Ratic [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [44] [44] [44] [44] [44] [44		\$5.63 \$5.93
NorthWestern Corporation NVE \$2.90 \$3.09 \$3.29 \$3.50 \$3.73 \$3.97 \$4.22 \$4.48 \$4.75 \$5.02 \$5.29 \$5.58 \$5.87 \$6.19 \$6.62 \$6.00 \$6.00 \$6.00 \$1.78 \$1.56 \$1.65 \$1.75 \$1.86 \$1.97 \$2.07 \$2.18 \$2.29 \$2.41 \$2.24 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.22 \$3.24 \$3.38 \$3.00 \$1.25 \$3.29 \$3.46 \$1.75 \$1.86 \$1.75 \$1.86 \$1.97 \$2.07 \$2.09 \$2.21 \$2.24 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.70 \$1.00 \$		\$7.66 \$8.07
GGE Energy Corp.  OGE \$1.69 \$1.78 \$1.87 \$1.97 \$2.07 \$2.18 \$2.207 \$2.18 \$2.29 \$2.41 \$2.54 \$2.67 \$2.81 \$2.96 \$3.12 \$3.29 \$3.46 \$3.70 \$1.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.37 \$7.00 \$7.30 \$7.00 \$7.37 \$7.00 \$7.30 \$7.00 \$		\$5.05 \$5.32
Otter Tail Corporation Primacel West Capital Corporation PNW \$3.92 \$4.08 \$4.24 \$4.14 \$4.59 \$5.99 \$2.09 \$2.21 \$2.34 \$2.47 \$2.61 \$2.75 \$2.90 \$3.05 \$3.21 \$3.38 \$3.7 \$7.00 \$7.70		\$6.86 \$7.23
Pinnacle West Capital Corporation		\$3.65 \$3.84 \$3.56 \$3.75
PMM Resources_inc. PMM \$1.64 \$1.79 \$1.95 \$2.12 \$2.31 \$2.62 \$2.73 \$2.95 \$3.16 \$3.37 \$3.57 \$3.76 \$3.95 \$4.17 \$4.39 \$4.95 \$5.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.90 \$6.89% \$66.88		\$7.76 \$8.18
Portland General Electric Company		\$4.62 \$4.87
SCANA Corporation         SCG         \$3.81         \$4.02         \$4.23         \$4.46         \$4.70         \$4.96         \$5.22         \$5.50         \$5.80         \$6.11         \$6.43         \$6.78         \$7.14         \$7.52         \$7.92         \$8.           Wisconsin Energy Corporation         WEC         \$2.34         \$2.50         \$2.85         \$3.04         \$3.25         \$3.46         \$3.08         \$3.12         \$4.12         \$4.59         \$4.83         \$5.09         \$5.36         \$5.           Xcel Energy Inc.         XEL         \$2.10         \$2.22         \$2.34         \$2.47         \$2.60         \$2.74         \$2.89         \$3.05         \$3.25         \$3.39         \$3.57         \$3.76         \$3.96         \$4.17         \$4.40		\$4.85 \$5.11
Wisconsin Energy Corporation         WEC         \$2.34         \$2.50         \$2.67         \$2.85         \$3.04         \$3.25         \$3.46         \$3.68         \$3.90         \$4.12         \$4.35         \$4.59         \$4.83         \$5.09         \$5.36         \$5.           Vicil Energy Inc.         XEL         \$2.10         \$2.22         \$2.34         \$2.60         \$2.74         \$2.89         \$3.05         \$3.22         \$3.39         \$3.57         \$3.76         \$3.96         \$4.17         \$4.40         \$4.            Projected Annual Dividend Payout Ratic         [31]         [32]         [33]         [34]         [35]         [36]         [37]         [38]         [39]         [40]         [41]         [42]         [43]         [44]         [44]           Company         Ticker         2016         2017         2018         2019         2020         2021         2022         2023         2024         2025         2026         2027         2028         2029         20         2021         2020         2023         2024         2025         2026         2027         2028         2029         20         20         2021         2020         2023         2024         2025 <td></td> <td>\$8.34 \$8.78</td>		\$8.34 \$8.78
Xeel Energy Inc.   Xel   \$2.10   \$2.22   \$2.34   \$2.47   \$2.60   \$2.74   \$2.89   \$3.05   \$3.22   \$3.39   \$3.57   \$3.76   \$3.96   \$4.17   \$4.40   \$4.		\$5.64 \$5.94
Company   Ticker   2016   2017   2018   2019   2020   2021   2022   2023   2024   2025   2026   2027   2028   2029   2020   2021   2022   2023   2024   2025   2026   2027   2028   2029   2021   2020   2021   20	\$2.34         \$2.47         \$2.60         \$2.74         \$2.89         \$3.05         \$3.22         \$3.39         \$3.57         \$3.76         \$3.96         \$4.17         \$4.40	\$4.63 \$4.88
Dividend Payout Ratic   [31]   [32]   [33]   [34]   [35]   [36]   [37]   [38]   [39]   [40]   [41]   [42]   [43]   [44]   [42]   [43]   [44]   [42]   [43]   [44]   [44]   [48]		
Dividend Payout Ratic   S1   S2   S3   S4   S5   S6   S7   S8   S8   S8   S8   S8   S8   S8		
ALLÉTE Inc. ALE 66.00% 65.25% 64.50% 63.75% 63.00% 63.65% 64.29% 64.94% 65.50% 66.88%	[32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44]	[45] [46]
ALLÉTE Inc. ALE 66.00% 65.25% 64.50% 63.75% 63.00% 63.65% 64.29% 64.94% 65.50% 66.88%		
Allatt Energy Corporation  Ale		2030 2031
American Corporation         AEE         68.00%         67.00%         66.00%         64.00%         64.49%         64.94%         65.92%         66.40%         66.88%		66.88% 66.88%
American Electric Power Company, Inc. AEP 64.00% 64.75% 65.50% 66.25% 67.00% 66.98% 66.98% 66.98% 66.98% 66.92% 66.20% 66.88% 66		66.88% 66.88% 66.88% 66.88%
Avista Corporation AVA 68.00% 66.75% 65.50% 64.25% 63.00% 62.65% 64.29% 64.29% 65.59% 66.28% 66.88%		66.88% 66.88%
CMS Energy Corporation		66.88% 66.88%
DTE         63.00%         62.50%         62.00%         61.00%         61.09%         62.96%         62.96%         63.94%         64.92%         65.90%         66.88% <td></td> <td>66.88% 66.88%</td>		66.88% 66.88%
EI Pass Electric Company EE 59.00% 59.50% 60.50% 60.50% 61.00% 65.00% 61.00% 62.96% 63.94% 64.92% 65.95% 65.57% 66.88% 66		66.88% 66.88%
Eversource Energy         ES         60.00%         59.50%         59.00%         58.50%         58.00%         59.40%         69.48%         60.98%         62.44%         63.92%         65.40%         66.88%	59.50% 60.00% 60.50% 61.00% 61.98% 62.96% 63.94% 64.92% 65.90% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88%
FirstEnergy Corp. FE 55.00% 53.25% 51.50% 49.75% 48.00% 51.15% 54.29% 57.44% 60.59% 63.73% 66.88% 66		66.88% 66.88%
IDACORP_Inc.   IDA   53.00%   54.75%   65.50%   58.25%   60.00%   61.15%   62.29%   63.44%   64.59%   65.27%   66.88%		66.88% 66.88%
MGE Energy, Inc. MGE		66.88% 66.88%
NorthWestern Corporation NWE 65.00% 63.50% 62.00% 60.50% 59.00% 60.31% 61.63% 62.94% 64.25% 65.57% 66.88% 6		66.88% 66.88%
	00.0079 00.0079 47.0079 44.0079 47.0179 01.0079 00.447.879 09.2079 03.0779 05.0779 05.8879 05.8879 06.8879 66.	66.88% 66.88% 66.88% 66.88%
OGE Energy Corp. OGE 67.00% 67.75% 68.50% 69.25% 70.00% 69.48% 68.96% 68.44% 67.92% 67.40% 66.88% 66	67.75% 68.50% 69.25% 70.00% 69.48% 68.96% 68.44% 67.92% 67.40% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88%
		66.88% 66.88%
		66.88% 66.88%
		66.88% 66.88%
		66.88% 66.88%
SCANA Corporation SCG 59.00% 59.25% 59.50% 59.75% 60.00% 61.15% 62.29% 63.44% 64.59% 65.73% 66.88% 6	59.25% 59.50% 59.75% 60.00% 61.15% 62.29% 63.44% 64.59% 65.73% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88%
		66.88% 66.88%
Xcel Energy Inc. XEL 62.00% 62.25% 62.50% 62.75% 63.00% 63.65% 64.29% 64.94% 65.59% 66.23% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	62.25% 62.50% 62.75% 63.00% 63.65% 64.29% 64.94% 65.59% 66.23% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88%

Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
																			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.35	\$2.45	\$2.56	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$163.70
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.28	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$88.48
Ameren Corporation	AEE		\$1.72	\$1.80	\$1.88	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$120.28
American Electric Power Company, Inc.	AEP		\$2.41	\$2.56	\$2.71	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$166.59
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.28	\$1.36	\$1.46	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$103.50
DTE Energy Company	DTE		\$2.97	\$3.11	\$3.27	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$220.16
El Paso Electric Company	EE		\$1.28	\$1.38	\$1.49	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$109.31
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.76	\$1.86	\$1.96	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$141.47
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$168.36
MGE Energy, Inc.	MGEE		\$1.23	\$1.25	\$1.26	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$110.93
NorthWestern Corporation	NWE		\$2.01	\$2.09	\$2.17	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$150.76
OGE Energy Corp.	OGE		\$1.19	\$1.27	\$1.35	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$80.12
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$170.53
PNM Resources, Inc.	PNM		\$0.91	\$1.01	\$1.13	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$101.51
Portland General Electric Company	POR		\$1.22	\$1.30	\$1.38	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$106.58
SCANA Corporation	SCG		\$2.37	\$2.51	\$2.65	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$183.22
Wisconsin Energy Corporation	WEC		\$1.70	\$1.81	\$1.92	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$123.98
Xcel Energy Inc.	XEL		\$1.37	\$1.46	\$1.54	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$101.71
Investor Cash Flows		[64] Initial	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$57.08)	\$0.00	\$1.19	\$2.42	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$168.95
Alliant Energy Corporation	LNT	(\$36.64)	\$0.00	\$0.58	\$1.19	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$91.31
Ameren Corporation	AEE	(\$48.89)	\$0.00	\$0.87	\$1.77	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$124.14
American Electric Power Company, Inc.	AEP	(\$65.03)	\$0.00	\$1.21	\$2.47	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$171.93
Avista Corporation	AVA	(\$40.48)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$91.16
CMS Energy Corporation	CMS	(\$41.70)	\$0.00	\$0.64	\$1.32	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$106.82
DTE Energy Company	DTE	(\$89.93)	\$0.00	\$1.50	\$3.05	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$227.22
El Paso Electric Company	EE	(\$44.56)	\$0.00	\$0.65	\$1.33	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$112.82
Entergy Corporation	ETR	(\$76.55)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$251.62
Eversource Energy	ES	(\$56.58)	\$0.00	\$0.89	\$1.82	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$146.01
FirstEnergy Corp.	FE	(\$34.24)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$127.77
IDACORP, Inc.	IDA	(\$73.58)	\$0.00	\$1.08	\$2.18	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$173.76
MGE Energy, Inc.	MGEE	(\$51.38)	\$0.00	\$0.62	\$1.28	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$114.48
NorthWestern Corporation	NWE	(\$59.59)	\$0.00	\$1.01	\$2.07	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$155.59
OGE Energy Corp.	OGE	(\$29.13)	\$0.00	\$0.60	\$1.22	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$82.69
Otter Tail Corporation	OTTR	(\$29.44)	\$0.00	\$0.67	\$1.36	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$80.79
Pinnacle West Capital Corporation	PNW	(\$73.65)	\$0.00	\$1.32	\$2.66	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$176.00
PNM Resources, Inc.	PNM	(\$32.94)	\$0.00	\$0.46	\$0.95	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$104.77
Portland General Electric Company SCANA Corporation	POR SCG	(\$40.24) (\$69.22)	\$0.00 \$0.00	\$0.61 \$1.19	\$1.26 \$2.43	\$1.47 \$2.81	\$1.57 \$2.97	\$1.72 \$3.19	\$1.89 \$3.43	\$2.06 \$3.68	\$2.24 \$3.95	\$2.44 \$4.23	\$2.64 \$4.53	\$2.78 \$4.77	\$2.92 \$5.03	\$3.08 \$5.30	\$3.24 \$5.58	\$3.42 \$5.87	\$109.99 \$189.09
SCAINA COLDOLATION																			
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL	(\$59.53) (\$41.15)	\$0.00 \$0.00	\$0.86 \$0.69	\$1.76 \$1.41	\$2.05 \$1.63	\$2.18 \$1.73	\$2.32 \$1.84	\$2.46 \$1.96	\$2.61 \$2.09	\$2.76 \$2.22	\$2.91 \$2.37	\$3.07 \$2.52	\$3.23 \$2.65	\$3.40 \$2.79	\$3.58 \$2.94	\$3.77 \$3.10	\$3.98 \$3.26	\$127.96 \$104.97

Projected Annual

#### Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 180 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

										•								
Inputs		[1] Stock	[2]	[3] S Growth F	[4] Rate Estima	[5]	[6] Long-Term	[7]	[8] Payout Rati	[9]	[10]	[11] Solution	[12] Terminal	[13] Terminal				
						High	_ Long-Tolli		•									
Company	Ticker	Price	Zacks		Value Line	Growth	Growth	2016	2020	2026	Proof	IRR		PEG Ratio				
ALLETE, Inc.	ALE	\$54.07	5.50%	5.00%	4.00%	5.50%	5.32%	66.00%	63.00%	66.88%	(\$0.00)	12.04%	20.86	3.92				
Alliant Energy Corporation	LNT	\$33.83	6.10%	6.60%	6.00%	6.60%	5.32%	64.00%	61.00%	66.88%	\$0.00	10.50%	20.86	3.92				
Ameren Corporation	AEE AFP	\$46.40	6.10%	5.20%	6.00%	6.10%	5.32%	68.00% 64.00%	64.00%	66.88%	\$0.00	10.54%	20.86	3.92				
American Electric Power Company, Inc. Avista Corporation	AVA	\$61.54 \$37.83	4.90% 5.00%	4.10% 5.00%	4.00% 5.00%	4.90% 5.00%	5.32% 5.32%	68.00%	67.00% 63.00%	66.88% 66.88%	(\$0.00) \$0.00	11.05% 9.59%	20.86 20.86	3.92 3.92				
CMS Energy Corporation	CMS	\$39.10	6.40%	7.24%	6.00%	7.24%	5.32%	63.00%	62.00%	66.88%	\$0.00	10.59%	20.86	3.92				
DTE Energy Company	DTF	\$85.80	5.80%	5.35%	5.00%	5.80%	5.32%	63.00%	61.00%	66.88%	(\$0.00)	10.35%	20.86	3.92				
El Paso Electric Company	EE	\$41.72	6.70%	7.00%	2.50%	7.00%	5.32%	59.00%	61.00%	66.88%	\$0.00	10.45%	20.86	3.92				
Entergy Corporation	ETR	\$72.44	NA	NA	3.50%	3.50%	5.32%	67.00%	59.00%	66.88%	(\$0.00)	13.18%	20.86	3.92				
Eversource Energy	ES	\$54.15	6.30%	5.49%	6.00%	6.30%	5.32%	60.00%	58.00%	66.88%	\$0.00	10.41%	20.86	3.92				
FirstEnergy Corp.	FE	\$33.04	NA	NA	9.00%	9.00%	5.32%	55.00%	48.00%	66.88%	\$0.00	13.46%	20.86	3.92				
IDACORP, Inc.	IDA	\$70.82	4.00%	4.00%	3.00%	4.00%	5.32%	53.00%	60.00%	66.88%	\$0.00	9.63%	20.86	3.92				
MGE Energy, Inc.	MGEE	\$48.29	NA 5 000/	4.00%	7.00%	7.00%	5.32%	56.00%	44.00%	66.88%	\$0.00	8.93%	20.86	3.92				
NorthWestern Corporation OGE Energy Corp.	NWE OGF	\$57.21 \$27.72	5.00% 5.20%	5.00% 4.30%	6.50% 3.00%	6.50% 5.20%	5.32% 5.32%	65.00% 67.00%	59.00% 70.00%	66.88% 66.88%	\$0.00 \$0.00	10.54% 11.77%	20.86 20.86	3.92 3.92				
Otter Tail Corporation	OTTR	\$28.18	0.20% NA	6.00%	6.00%	6.00%	5.32%	80.00%	63.00%	66.88%	\$0.00	11.77%	20.86	3.92				
Pinnacle West Capital Corporation	PNW	\$69.12	4.00%	3.73%	4.00%	4.00%	5.32%	64.00%	65.00%	66.88%	(\$0.00)	10.17%	20.86	3.92				
PNM Resources, Inc.	PNM	\$31.32	7.60%	8.76%	9.00%	9.00%	5.32%	51.00%	55.00%	66.88%	\$0.00	12.18%	20.86	3.92				
Portland General Electric Company	POR	\$38.74	6.40%	6.57%	5.50%	6.57%	5.32%	56.00%	56.00%	66.88%	\$0.00	10.81%	20.86	3.92				
SCANA Corporation	SCG	\$64.86	5.30%	5.40%	4.50%	5.40%	5.32%	59.00%	60.00%	66.88%	(\$0.00)	11.23%	20.86	3.92				
Wisconsin Energy Corporation	WEC	\$55.89	6.30%	6.77%	6.00%	6.77%	5.32%	68.00%	67.00%	66.88%	\$0.00	9.10%	20.86	3.92				
Xcel Energy Inc.	XEL	\$38.85	5.30%	5.27%	5.50%	5.50%	5.32%	62.00%	63.00%	66.88%	\$0.00	10.59%	20.86	3.92				
<u> </u>											MEAN	10.84%						
											MAX	13.46%						
											MIN	8.93%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Ticker	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	\$3.38	\$3.57	\$3.76	\$3.97	\$4.19	\$4.42	\$4.66	\$4.91	\$5.18	\$5.46	\$5.75	\$6.06	\$6.38	\$6.72	\$7.07	\$7.45	\$7.85
Alliant Energy Corporation	LNT	\$1.69	\$1.80	\$1.92	\$2.05	\$2.18	\$2.33	\$2.47	\$2.63	\$2.78	\$2.94	\$3.11	\$3.27	\$3.45	\$3.63	\$3.82	\$4.03	\$4.24
Ameren Corporation	AEE	\$2.38	\$2.53	\$2.68	\$2.84	\$3.02	\$3.20	\$3.39	\$3.59	\$3.79	\$4.01	\$4.22	\$4.45	\$4.69	\$4.94	\$5.20	\$5.47	\$5.77
American Electric Power Company, Inc.	AEP	\$3.59	\$3.77	\$3.95	\$4.14	\$4.35	\$4.56	\$4.79	\$5.03	\$5.29	\$5.56	\$5.85	\$6.16	\$6.49	\$6.84	\$7.20	\$7.58	\$7.99
Avista Corporation	AVA	\$1.89	\$1.98	\$2.08	\$2.19	\$2.30	\$2.41	\$2.53	\$2.66	\$2.80	\$2.95	\$3.10	\$3.27	\$3.44	\$3.62	\$3.82	\$4.02	\$4.23
CMS Energy Corporation	CMS	\$1.89	\$2.03	\$2.17	\$2.33	\$2.50	\$2.68	\$2.87	\$3.06	\$3.25	\$3.44	\$3.64	\$3.83	\$4.03	\$4.25	\$4.47	\$4.71	\$4.96
DTE Energy Company	DTE	\$4.45 \$2.03	\$4.71 \$2.17	\$4.98 \$2.32	\$5.27 \$2.49	\$5.58 \$2.66	\$5.90 \$2.85	\$6.24 \$3.04	\$6.59	\$6.95 \$3.43	\$7.34	\$7.73	\$8.14 \$4.04	\$8.58 \$4.26	\$9.03 \$4.49	\$9.51 \$4.72	\$10.02	\$10.55
El Paso Electric Company	EE ETR	\$2.03 \$5.81	\$2.17 \$6.01	\$2.32 \$6.22	\$2.49 \$6.44	\$2.66 \$6.67	\$2.85 \$6.90	\$3.04 \$7.16	\$3.23 \$7.46	\$3.43 \$7.79	\$3.64 \$8.15	\$3.84 \$8.56	\$4.04 \$9.02	\$4.26 \$9.50	\$4.49 \$10.00	\$4.72 \$10.54	\$4.98 \$11.10	\$5.24 \$11.69
Entergy Corporation Eversource Energy	FS	\$2.76	\$2.93	\$3.12	\$3.32	\$3.52	\$3.75	\$3.98	\$4.21	\$4.46	\$8.15 \$4.71	\$8.56 \$4.97	\$9.02 \$5.23	\$9.50 \$5.51	\$5.80	\$10.54 \$6.11	\$6.44	\$6.78
FirstEnergy Corp.	FE	\$2.00	\$2.18	\$2.38	\$2.59	\$2.82	\$3.73	\$3.34	\$3.59	\$3.85	\$4.10	\$4.35	\$4.58	\$4.82	\$5.08	\$5.35	\$5.63	\$5.93
IDACORP, Inc.	IDA	\$3.87	\$4.02	\$4.19	\$4.35	\$4.53	\$4.71	\$4.91	\$5.13	\$5.36	\$5.63	\$5.91	\$6.23	\$6.56	\$6.91	\$7.28	\$7.66	\$8.07
MGE Energy, Inc.	MGEE	\$2.06	\$2.20	\$2.36	\$2.52	\$2.70	\$2.89	\$3.08	\$3.28	\$3.48	\$3.69	\$3.90	\$4.10	\$4.32	\$4.55	\$4.79	\$5.05	\$5.32
NorthWestern Corporation	NWE	\$2.90	\$3.09	\$3.29	\$3.50	\$3.73	\$3.97	\$4.22	\$4.48	\$4.75	\$5.02	\$5.29	\$5.58	\$5.87	\$6.19	\$6.52	\$6.86	\$7.23
OGE Energy Corp.	OGE	\$1.69	\$1.78	\$1.87	\$1.97	\$2.07	\$2.18	\$2.29	\$2.41	\$2.54	\$2.67	\$2.81	\$2.96	\$3.12	\$3.29	\$3.46	\$3.65	\$3.84
Otter Tail Corporation	OTTR	\$1.56	\$1.65	\$1.75	\$1.86	\$1.97	\$2.09	\$2.21	\$2.34	\$2.47	\$2.61	\$2.75	\$2.90	\$3.05	\$3.21	\$3.38	\$3.56	\$3.75
Pinnacle West Capital Corporation	PNW	\$3.92	\$4.08	\$4.24	\$4.41	\$4.59	\$4.77	\$4.97	\$5.19	\$5.43	\$5.70	\$5.99	\$6.31	\$6.64	\$7.00	\$7.37	\$7.76	\$8.18
PNM Resources, Inc.	PNM	\$1.64	\$1.79	\$1.95	\$2.12	\$2.31	\$2.52	\$2.73	\$2.95	\$3.16	\$3.37	\$3.57	\$3.76	\$3.95	\$4.17	\$4.39	\$4.62	\$4.87
Portland General Electric Company	POR	\$2.04	\$2.17	\$2.32	\$2.47	\$2.63	\$2.80	\$2.98	\$3.17	\$3.35	\$3.55	\$3.74	\$3.94	\$4.15	\$4.37	\$4.61	\$4.85	\$5.11
SCANA Corporation	SCG	\$3.81	\$4.02	\$4.23	\$4.46	\$4.70	\$4.96	\$5.22	\$5.50	\$5.80	\$6.11	\$6.43	\$6.78	\$7.14	\$7.52	\$7.92	\$8.34	\$8.78
Wisconsin Energy Corporation Xcel Energy Inc.	WEC XEL	\$2.34 \$2.10	\$2.50 \$2.22	\$2.67 \$2.34	\$2.85 \$2.47	\$3.04 \$2.60	\$3.25 \$2.74	\$3.46 \$2.89	\$3.68 \$3.05	\$3.90 \$3.22	\$4.12 \$3.39	\$4.35 \$3.57	\$4.59 \$3.76	\$4.83 \$3.96	\$5.09 \$4.17	\$5.36 \$4.40	\$5.64 \$4.63	\$5.94 \$4.88
Acer Energy Inc.	ΛEL	\$2.1U	\$2.22	\$2.34	<b>Φ2.47</b>	\$2.00	<b>Φ2.74</b>	\$2.09	\$3.03	\$3.22	<b>φ</b> 3.39	\$3.37	\$3.70	\$3.90	\$4.17	\$4.40	\$4.03	\$4.00
Projected Annual Dividend Payout Ratic			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
· · · · · · · · · · · · · · · · · · ·			14.4		11	17.7	1,1	F1		11	r1	, -ı	11	,	1	r .1	1	r1
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE		66.00%	65.25%	64.50%	63.75%	63.00%	63.65%	64.29%	64.94%	65.59%	66.23%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
Alliant Energy Corporation	LNT		64.00%	63.25%	62.50%	61.75%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
American Floatric Rower Company, Inc.	AEE AFP		68.00% 64.00%	67.00% 64.75%	66.00% 65.50%	65.00% 66.25%	64.00% 67.00%	64.48% 66.98%	64.96% 66.96%	65.44% 66.94%	65.92% 66.92%	66.40% 66.90%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
American Electric Power Company, Inc. Avista Corporation	AEP AVA		64.00% 68.00%	64.75% 66.75%	65.50% 65.50%	66.25% 64.25%	67.00% 63.00%	66.98% 63.65%	66.96% 64.29%	66.94% 64.94%	66.92% 65.59%	66.90% 66.23%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
	CMS		63.00%	62.75%	62.50%	62.25%	62.00%	62.81%	63.63%	64.44%	65.59%	66.07%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
CMS Energy Corporation	DTE		63.00%	62.75%	62.00%	61.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
LLLE Energy Company			59.00%	59.50%	60.00%	60.50%	61.00%	61.98%	62.96%	63.94%	64.92%	65.90%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company El Paso Electric Company				65.00%	63.00%	61.00%	59.00%	60.31%	61.63%	62.94%	64.25%	65.57%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company	EE ETR		67.00%		59.00%	58.50%	58.00%	59.48%	60.96%	62.44%	63.92%	65.40%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
DTE Energy Company El Paso Electric Company Entergy Corporation Eversource Energy	ETR ES		67.00% 60.00%	59.50%				51.15%	54.29%	57.44%	60.59%	63.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company Entergy Corporation	ETR				51.50%	49.75%	48.00%	31.1370										
El Paso Electric Company Entergy Corporation Eversource Energy	ETR ES FE IDA		60.00%	59.50% 53.25% 54.75%	51.50% 56.50%	58.25%	60.00%	61.15%	62.29%	63.44%	64.59%	65.73%	66.88%	66.88%	66.88%	66.88%	66.88%	66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc.	ETR ES FE IDA MGEE		60.00% 55.00% 53.00% 56.00%	59.50% 53.25% 54.75% 53.00%	51.50% 56.50% 50.00%	58.25% 47.00%	60.00% 44.00%	61.15% 47.81%	62.29% 51.63%	63.44% 55.44%	59.25%	63.07%	66.88%	66.88% 66.88%	66.88% 66.88%	66.88% 66.88%	66.88%	66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation	ETR ES FE IDA MGEE NWE		60.00% 55.00% 53.00% 56.00% 65.00%	59.50% 53.25% 54.75% 53.00% 63.50%	51.50% 56.50% 50.00% 62.00%	58.25% 47.00% 60.50%	60.00% 44.00% 59.00%	61.15% 47.81% 60.31%	62.29% 51.63% 61.63%	63.44% 55.44% 62.94%	59.25% 64.25%	63.07% 65.57%	66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88%	66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp.	ETR ES FE IDA MGEE NWE OGE		60.00% 55.00% 53.00% 56.00% 65.00% 67.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75%	51.50% 56.50% 50.00% 62.00% 68.50%	58.25% 47.00% 60.50% 69.25%	60.00% 44.00% 59.00% 70.00%	61.15% 47.81% 60.31% 69.48%	62.29% 51.63% 61.63% 68.96%	63.44% 55.44% 62.94% 68.44%	59.25% 64.25% 67.92%	63.07% 65.57% 67.40%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation	ETR ES FE IDA MGEE NWE OGE OTTR		60.00% 55.00% 53.00% 56.00% 65.00% 67.00% 80.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75% 75.75%	51.50% 56.50% 50.00% 62.00% 68.50% 71.50%	58.25% 47.00% 60.50% 69.25% 67.25%	60.00% 44.00% 59.00% 70.00% 63.00%	61.15% 47.81% 60.31% 69.48% 63.65%	62.29% 51.63% 61.63% 68.96% 64.29%	63.44% 55.44% 62.94% 68.44% 64.94%	59.25% 64.25% 67.92% 65.59%	63.07% 65.57% 67.40% 66.23%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88%	66.88% 66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACCRP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation	ETR ES FE IDA MGEE NWE OGE OTTR PNW		60.00% 55.00% 53.00% 56.00% 65.00% 67.00% 80.00% 64.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75% 75.75% 64.25%	51.50% 56.50% 50.00% 62.00% 68.50% 71.50% 64.50%	58.25% 47.00% 60.50% 69.25% 67.25% 64.75%	60.00% 44.00% 59.00% 70.00% 63.00% 65.00%	61.15% 47.81% 60.31% 69.48% 63.65% 65.31%	62.29% 51.63% 61.63% 68.96% 64.29% 65.63%	63.44% 55.44% 62.94% 68.44% 64.94% 65.94%	59.25% 64.25% 67.92% 65.59% 66.25%	63.07% 65.57% 67.40% 66.23% 66.57%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. MGE Energy, Inc. OGE Energy Corp. Otter Tail Corporation Pinnade West Capital Corporation Pinnade West Capital	ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM		60.00% 55.00% 53.00% 56.00% 65.00% 67.00% 80.00% 64.00% 51.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75% 75.75% 64.25% 52.00%	51.50% 56.50% 50.00% 62.00% 68.50% 71.50% 64.50% 53.00%	58.25% 47.00% 60.50% 69.25% 67.25% 64.75% 54.00%	60.00% 44.00% 59.00% 70.00% 63.00% 65.00% 55.00%	61.15% 47.81% 60.31% 69.48% 63.65% 65.31% 56.98%	62.29% 51.63% 61.63% 68.96% 64.29% 65.63% 58.96%	63.44% 55.44% 62.94% 68.44% 64.94% 65.94% 60.94%	59.25% 64.25% 67.92% 65.59% 66.25% 62.92%	63.07% 65.57% 67.40% 66.23% 66.57% 64.90%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company	ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR		60.00% 55.00% 53.00% 56.00% 65.00% 67.00% 80.00% 64.00% 51.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75% 75.75% 64.25% 52.00% 56.00%	51.50% 56.50% 50.00% 62.00% 68.50% 71.50% 64.50% 53.00% 56.00%	58.25% 47.00% 60.50% 69.25% 67.25% 64.75% 54.00% 56.00%	60.00% 44.00% 59.00% 70.00% 63.00% 65.00% 55.00%	61.15% 47.81% 60.31% 69.48% 63.65% 65.31% 56.98% 57.81%	62.29% 51.63% 61.63% 68.96% 64.29% 65.63% 58.96% 59.63%	63.44% 55.44% 62.94% 68.44% 64.94% 65.94% 60.94% 61.44%	59.25% 64.25% 67.92% 65.59% 66.25% 62.92% 63.25%	63.07% 65.57% 67.40% 66.23% 66.57% 64.90% 65.07%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company SCANA Corporation	ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR SCG		60.00% 55.00% 53.00% 56.00% 65.00% 67.00% 80.00% 64.00% 51.00% 59.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75% 75.75% 64.25% 52.00% 56.00% 59.25%	51.50% 56.50% 50.00% 62.00% 68.50% 71.50% 64.50% 53.00% 56.00% 59.50%	58.25% 47.00% 60.50% 69.25% 67.25% 64.75% 54.00% 56.00% 59.75%	60.00% 44.00% 59.00% 70.00% 63.00% 65.00% 55.00% 60.00%	61.15% 47.81% 60.31% 69.48% 63.65% 65.31% 56.98% 57.81% 61.15%	62.29% 51.63% 61.63% 68.96% 64.29% 65.63% 58.96% 59.63% 62.29%	63.44% 55.44% 62.94% 68.44% 64.94% 65.94% 60.94% 61.44% 63.44%	59.25% 64.25% 67.92% 65.59% 66.25% 62.92% 63.25% 64.59%	63.07% 65.57% 67.40% 66.23% 66.57% 64.90% 65.07% 65.73%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%
El Paso Electric Company Entergy Corporation Eversource Energy FirstEnergy Corp. IDACORP, Inc. MGE Energy, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company	ETR ES FE IDA MGEE NWE OGE OTTR PNW PNM POR		60.00% 55.00% 53.00% 56.00% 65.00% 67.00% 80.00% 64.00% 51.00%	59.50% 53.25% 54.75% 53.00% 63.50% 67.75% 75.75% 64.25% 52.00% 56.00%	51.50% 56.50% 50.00% 62.00% 68.50% 71.50% 64.50% 53.00% 56.00%	58.25% 47.00% 60.50% 69.25% 67.25% 64.75% 54.00% 56.00%	60.00% 44.00% 59.00% 70.00% 63.00% 65.00% 55.00%	61.15% 47.81% 60.31% 69.48% 63.65% 65.31% 56.98% 57.81%	62.29% 51.63% 61.63% 68.96% 64.29% 65.63% 58.96% 59.63%	63.44% 55.44% 62.94% 68.44% 64.94% 65.94% 60.94% 61.44%	59.25% 64.25% 67.92% 65.59% 66.25% 62.92% 63.25%	63.07% 65.57% 67.40% 66.23% 66.57% 64.90% 65.07%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%	66.88% 66.88% 66.88% 66.88% 66.88% 66.88%

Projected Annual																		., . •	9000
Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
			. ,	,		17			17	1. 1			. ,		17	17			Terminal
Company	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Value
ALLETE, Inc.	ALE		\$2.35	\$2.45	\$2.56	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$163.70
Alliant Energy Corporation	LNT		\$1.15	\$1.21	\$1.28	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$88.48
Ameren Corporation	AEE		\$1.72	\$1.80	\$1.88	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$120.28
American Electric Power Company, Inc.	AEP		\$2.41	\$2.56	\$2.71	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$166.59
Avista Corporation	AVA		\$1.35	\$1.39	\$1.43	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$88.33
CMS Energy Corporation	CMS		\$1.28	\$1.36	\$1.46	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$103.50
DTE Energy Company	DTE		\$2.97	\$3.11	\$3.27	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$220.16
El Paso Electric Company	EE		\$1.28	\$1.38	\$1.49	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$109.31
Entergy Corporation	ETR		\$4.03	\$4.05	\$4.06	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$243.80
Eversource Energy	ES		\$1.76	\$1.86	\$1.96	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$141.47
FirstEnergy Corp.	FE		\$1.20	\$1.27	\$1.33	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$123.80
IDACORP, Inc.	IDA		\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$168.36
MGE Energy, Inc.	MGEE		\$1.23	\$1.25	\$1.26	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$110.93
NorthWestern Corporation	NWE		\$2.01	\$2.09	\$2.17	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$150.76
OGE Energy Corp.	OGE		\$1.19	\$1.27	\$1.35	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$80.12
Otter Tail Corporation	OTTR		\$1.32	\$1.33	\$1.33	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$78.28
Pinnacle West Capital Corporation	PNW		\$2.61	\$2.72	\$2.84	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$170.53
PNM Resources. Inc.	PNM		\$0.91	\$1.01	\$1.13	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$101.51
Portland General Electric Company	POR		\$1.22	\$1.30	\$1.38	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$106.58
SCANA Corporation	SCG		\$2.37	\$2.51	\$2.65	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$183.22
Wisconsin Energy Corporation	WEC		\$1.70	\$1.81	\$1.92	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$123.98
Xcel Energy Inc.	XEL		\$1.37	\$1.46	\$1.54	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$101.71
Projected Annual Data Investor Cash Flows		[64] Initial	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
Company	Ticker	Outflow	6/30/16	12/31/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31
ALLETE, Inc.	ALE	(\$54.07)	\$0.00	\$1.19	\$2.42	\$2.67	\$2.78	\$2.97	\$3.16	\$3.36	\$3.58	\$3.81	\$4.05	\$4.27	\$4.49	\$4.73	\$4.98	\$5.25	\$168.95
Alliant Energy Corporation	LNT	(\$33.83)	\$0.00	\$0.58	\$1.19	\$1.35	\$1.42	\$1.53	\$1.65	\$1.78	\$1.91	\$2.05	\$2.19	\$2.31	\$2.43	\$2.56	\$2.69	\$2.84	\$91.31
Ameren Corporation	AEE	(\$46.40)	\$0.00	\$0.87	\$1.77	\$1.96	\$2.05	\$2.19	\$2.33	\$2.48	\$2.64	\$2.80	\$2.98	\$3.13	\$3.30	\$3.48	\$3.66	\$3.86	\$124.14
American Electric Power Company, Inc.	AEP	(\$61.54)	\$0.00	\$1.21	\$2.47	\$2.88	\$3.06	\$3.21	\$3.37	\$3.54	\$3.72	\$3.91	\$4.12	\$4.34	\$4.57	\$4.81	\$5.07	\$5.34	\$171.93
Avista Corporation	AVA	(\$37.83)	\$0.00	\$0.68	\$1.38	\$1.48	\$1.52	\$1.61	\$1.71	\$1.82	\$1.93	\$2.05	\$2.19	\$2.30	\$2.42	\$2.55	\$2.69	\$2.83	\$91.16
CMS Energy Corporation	CMS	(\$39.10)	\$0.00	\$0.64	\$1.32	\$1.56	\$1.66	\$1.80	\$1.94	\$2.09	\$2.25	\$2.40	\$2.56	\$2.70	\$2.84	\$2.99	\$3.15	\$3.32	\$106.82
DTE Energy Company	DTE	(\$85.80)	\$0.00	\$1.50	\$3.05	\$3.43	\$3.60	\$3.87	\$4.15	\$4.45	\$4.76	\$5.10	\$5.45	\$5.74	\$6.04	\$6.36	\$6.70	\$7.06	\$227.22
El Paso Electric Company	EE	(\$41.72)	\$0.00	\$0.65	\$1.33	\$1.61	\$1.74	\$1.88	\$2.04	\$2.20	\$2.36	\$2.53	\$2.70	\$2.85	\$3.00	\$3.16	\$3.33	\$3.50	\$112.82
Entergy Corporation	ETR	(\$72.44)	\$0.00	\$2.03	\$4.10	\$4.07	\$4.07	\$4.32	\$4.60	\$4.90	\$5.24	\$5.61	\$6.03	\$6.35	\$6.69	\$7.05	\$7.42	\$7.82	\$251.62
Eversource Energy	ES	(\$54.15)	\$0.00	\$0.89	\$1.82	\$2.06	\$2.17	\$2.36	\$2.57	\$2.78	\$3.01	\$3.25	\$3.50	\$3.69	\$3.88	\$4.09	\$4.31	\$4.54	\$146.01
FirstEnergy Corp.	FE	(\$33.04)	\$0.00	\$0.60	\$1.25	\$1.40	\$1.48	\$1.71	\$1.95	\$2.21	\$2.49	\$2.77	\$3.06	\$3.23	\$3.40	\$3.58	\$3.77	\$3.97	\$127.77
IDACORP, Inc.	IDA	(\$70.82)	\$0.00	\$1.08	\$2.18	\$2.64	\$2.83	\$3.00	\$3.19	\$3.40	\$3.63	\$3.89	\$4.16	\$4.39	\$4.62	\$4.87	\$5.13	\$5.40	\$173.76
MGE Energy, Inc.	MGEE	(\$48.29)	\$0.00	\$0.62	\$1.28	\$1.27	\$1.27	\$1.47	\$1.69	\$1.93	\$2.19	\$2.46	\$2.74	\$2.89	\$3.04	\$3.21	\$3.38	\$3.56	\$114.48
NorthWestern Corporation	NWE	(\$57.21)	\$0.00	\$1.01	\$2.07	\$2.26	\$2.34	\$2.55	\$2.76	\$2.99	\$3.22	\$3.47	\$3.73	\$3.93	\$4.14	\$4.36	\$4.59	\$4.83	\$155.59
OGE Energy Corp.	OGE	(\$27.72)	\$0.00	\$0.60	\$1.22	\$1.43	\$1.52	\$1.59	\$1.66	\$1.74	\$1.81	\$1.90	\$1.98	\$2.09	\$2.20	\$2.32	\$2.44	\$2.57	\$82.69
Otter Tail Corporation	OTTR	(\$28.17)	\$0.00	\$0.67	\$1.36	\$1.32	\$1.32	\$1.41	\$1.50	\$1.60	\$1.71	\$1.82	\$1.94	\$2.04	\$2.15	\$2.26	\$2.38	\$2.51	\$80.79
Pinnacle West Capital Corporation	PNW	(\$69.12)	\$0.00	\$1.32	\$2.66	\$2.97	\$3.10	\$3.25	\$3.41	\$3.58	\$3.78	\$3.99	\$4.22	\$4.44	\$4.68	\$4.93	\$5.19	\$5.47	\$176.00
PNM Resources, Inc.	PNM	(\$31.32)	\$0.00	\$0.46	\$0.95	\$1.25	\$1.39	\$1.56	\$1.74	\$1.92	\$2.12	\$2.31	\$2.51	\$2.65	\$2.79	\$2.93	\$3.09	\$3.25	\$104.77
Portland General Electric Company	POR	(\$38.74)	\$0.00	\$0.61	\$1.26	\$1.47	\$1.57	\$1.72	\$1.89	\$2.06	\$2.24	\$2.44	\$2.64	\$2.78	\$2.92	\$3.08	\$3.24	\$3.42	\$109.99
SCANA Corporation	SCG	(\$64.86)	\$0.00	\$1.19	\$2.43	\$2.81	\$2.97	\$3.19	\$3.43	\$3.68	\$3.95	\$4.23	\$4.53	\$4.77	\$5.03	\$5.30	\$5.58	\$5.87	\$189.09
Wisconsin Energy Corporation	WEC	(\$55.89)	\$0.00	\$0.86	\$1.76	\$2.05	\$2.18	\$2.32	\$2.46	\$2.61	\$2.76	\$2.91	\$3.07	\$3.23	\$3.40	\$3.58	\$3.77	\$3.98	\$127.96
Xcel Energy Inc.	XEL	(\$38.85)	\$0.00	\$0.69	\$1.41	\$1.63	\$1.73	\$1.84	\$1.96	\$2.09	\$2.22	\$2.37	\$2.52	\$2.65	\$2.79	\$2.94	\$3.10	\$3.26	\$104.97

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Multi-Stage DCF Notes:
  [1] Source: Bloomberg; based on 30-, 90-, and 180-day historical average as of June 30, 2016
  [2] Source: Zacks
  [3] Source: Yahoo! Finance
  [4] Source: Value Line
  [5] Equals indicated value (average, minimum, maximum) of Columns [2], [3], [4]
  [6] Source: Federal Reserve, Bureau of Economic Analysis
  [7] Source: Value Line
  [8] Source: Value Line
  [9] Source: Bloomberg Professional
 [10] Equals Column [1] + Column [62]
[11] Equals result of Excel Solver function; goal: Column [10] equals $0.00
 [12] Equals Column [61] / Column [30]
 [13] Equals Column [12] / (Column [6] x 100)
 [14] Source: Value Line
 [15] Equals Column [14] x (1 + Column [5])
 [16] Equals Column [15] x (1 + Column [5])
 [17] Equals Column [16] x (1 + Column [5])
 [18] Equals Column [17] x (1 + Column [5])
 [19] Equals Column [18] x (1 + Column [5])
 [20] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026 - 2021 + 1)) x (2021 - 2020)))) x Column [19]
 [21] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026 - 2021 + 1)) x (2022 - 2020)))) x Column [20] [22] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026 - 2021 + 1)) x (2023 - 2020)))) x Column [21]
 [23] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026 - 2021 + 1)) x (2024 - 2020)))) x Column [22]
 [24] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026 - 2021 + 1)) x (2025 - 2020)))) x Column [23]
 [25] Equals Column [24] x (1 + Column [6])
 [26] Equals Column [25] x (1 + Column [6])
 [27] Equals Column [26] x (1 + Column [6])
 [28] Equals Column [27] x (1 + Column [6])
 [29] Equals Column [28] x (1 + Column [6])
 [30] Equals Column [29] x (1 + Column [6])
 [31] Equals Column [7]
 [32] Equals Column [31] + ((Column [35] - Column [31]) / 4)
 [33] Equals Column [32] + ((Column [35] - Column [31]) / 4)
 [34] Equals Column [33] + ((Column [35] - Column [31]) / 4)
 [35] Equals Column [8]
 [36] Equals Column [35] + ((Column [42] - Column [35]) / 6)
 [37] Equals Column [36] + ((Column [42] - Column [35]) / 6)
 [38] Equals Column [37] + ((Column [42] - Column [35]) / 6)
 [39] Equals Column [38] + ((Column [42] - Column [35]) / 6)
 [40] Equals Column [39] + ((Column [42] - Column [35]) / 6)
 [41] Equals Column [9]
 [42] Equals Column [9]
 [43] Equals Column [9]
 [44] Equals Column [9]
 [45] Equals Column [9]
 [46] Equals Column [9]
 [47] Equals Column [15] x Column [31]
 [48] Equals Column [16] x Column [32]
 [49] Equals Column [17] x Column [33]
 [50] Equals Column [18] x Column [34]
 [51] Equals Column [19] x Column [35]
 [52] Equals Column [20] x Column [36]
 [53] Equals Column [21] x Column [37]
 [54] Equals Column [22] x Column [38]
 [55] Equals Column [23] x Column [39]
 [56] Equals Column [24] x Column [40]
 [57] Equals Column [25] x Column [41]
 [58] Equals Column [26] x Column [42]
 [59] Equals Column [27] x Column [43]
 [60] Equals Column [28] x Column [44]
 [61] Equals Column [29] x Column [45]
 [62] Equals Column [30] x Column [46]
 [63] Equals (Column [62] x (1 + Column [6])) / (Column [11] - Column [6])
 [64] Equals negative net present value; discount rate equals Column [11], cash flows equal Column [65] through Column [81]
 [65] Equals $0.00
 [66] Equals Column [47] x (12/31/2016 - 6/30/2016) / 365
 [67] Equals Column [47] + (0.5 x Column [5])
 [68] Equals Column [49]
 [69] Equals Column [50]
 [70] Equals Column [51]
 [71] Equals Column [52]
 [72] Equals Column [53]
 [73] Equals Column [54][74] Equals Column [55][75] Equals Column [56]
 [76] Equals Column [57]
 [77] Equals Column [58]
 [78] Equals Column [59]
 [79] Equals Column [60]
 [80] Equals Column [61]
 [81] Equals Column [62] + [63]
```

#### Ex-Ante Market Risk Premium Market DCF Method Based - Bloomberg

[1]	[2]	[3]
S&P 500	Current 30-Year	
Est. Required	Treasury (30-day	Implied Market
Market Return	average)	Risk Premium
13.09%	2.50%	10.59%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
AGILENT TECHNOLOGIES INC	Α	14,440.14	0.08%	1.01%	10.13%	11.19%	0.0084%
ALCOA INC	AA	12,191.04	0.06%	1.31%	5.00%	6.34%	0.0040%
AMERICAN AIRLINES GROUP INC ADVANCE AUTO PARTS INC	AAL AAP	16,368.04	0.09%	1.50%	-21.78% 12.01%	-20.44% 12.17%	-0.0174% 0.0075%
APPLE INC	AAPL	11,888.86 523,641.83	0.06% 2.72%	0.16% 2.29%	11.56%	13.99%	0.3808%
ABBVIE INC	ABBV	100,130.67	0.52%	3.70%	13.51%	17.46%	0.0909%
AMERISOURCEBERGEN CORP	ABC	17,121.60	0.09%	1.70%	11.20%	12.99%	0.0116%
ABBOTT LABORATORIES ACCENTURE PLC-CL A	ABT ACN	57,752.37 73,850.67	0.30% 0.38%	2.66% 2.03%	11.73% 9.82%	14.55% 11.95%	0.0437% 0.0459%
ADOBE SYSTEMS INC	ADBE	47,731.28	0.25%	0.00%	20.26%	20.26%	0.0503%
ANALOG DEVICES INC	ADI	17,408.29	0.09%	2.93%	8.92%	11.98%	0.0108%
ARCHER-DANIELS-MIDLAND CO AUTOMATIC DATA PROCESSING	ADM	25,201.40 41.849.98	0.13%	2.81%	7.15%	10.06%	0.0132%
ALLIANCE DATA SYSTEMS CORP	ADP ADS	11,547.48	0.22% 0.06%	2.25% 0.00%	10.29% 13.83%	12.65% 13.83%	0.0275% 0.0083%
AUTODESK INC	ADSK	12,162.88	0.06%	0.00%	20.96%	20.96%	0.0133%
AMEREN CORPORATION	AEE	13,000.37	0.07%	3.25%	4.43%	7.75%	0.0052%
AMERICAN ELECTRIC POWER AES CORP	AEP AES	34,436.15 8,224.33	0.18% 0.04%	3.22% 3.53%	5.05% 7.33%	8.35% 10.99%	0.0150% 0.0047%
AETNA INC	AET	42,818.78	0.22%	0.82%	10.57%	11.44%	0.0255%
AFLAC INC	AFL	29,873.30	0.16%	2.31%	3.86%	6.22%	0.0097%
ALLERGAN PLC	AGN	91,409.25	0.48%	0.00%	12.32%	12.32%	0.0585%
AMERICAN INTERNATIONAL GROUP APARTMENT INVT & MGMT CO -A	AIG AIV	59,185.62 6,915.68	0.31% 0.04%	2.42% 2.99%	9.50% 6.82%	12.04% 9.92%	0.0370% 0.0036%
ASSURANT INC	AIZ	5,345.77	0.03%	2.27%	12.36%	14.77%	0.0030 %
ARTHUR J GALLAGHER & CO	AJG	8,431.34	0.04%	3.19%	7.97%	11.29%	0.0050%
AKAMAI TECHNOLOGIES INC	AKAM	9,820.85	0.05%	0.00%	15.60%	15.60%	0.0080%
ALASKA AIR GROUP INC ALLSTATE CORP	ALK ALL	7,184.39 26,186.99	0.04% 0.14%	1.89% 1.89%	2.65% 9.00%	4.56% 10.97%	0.0017% 0.0149%
ALLEGION PLC	ALLE	6,646.79	0.03%	0.70%	13.10%	13.85%	0.0048%
ALEXION PHARMACEUTICALS INC	ALXN	26,156.59	0.14%	0.00%	27.12%	27.12%	0.0369%
APPLIED MATERIALS INC	AMAT	26,106.78	0.14%	1.70%	15.43%	17.26%	0.0234%
AMETEK INC AFFILIATED MANAGERS GROUP	AME AMG	10,790.55 7,979.77	0.06% 0.04%	0.85% 0.00%	10.30% 13.73%	11.20% 13.73%	0.0063% 0.0057%
AMGEN INC	AMGN	114,297.68	0.59%	2.61%	7.92%	10.64%	0.0632%
AMERIPRISE FINANCIAL INC	AMP	14,898.34	0.08%	3.16%	13.23%	16.60%	0.0129%
AMERICAN TOWER CORP	AMT	48,241.62	0.25%	1.91%	20.41%	22.52%	0.0565%
AMAZON.COM INC AUTONATION INC	AMZN AN	337,649.52 4,843.81	1.76% 0.03%	0.00% 0.00%	47.03% 8.33%	47.03% 8.33%	0.8256% 0.0021%
ANTHEM INC	ANTM	34,536.25	0.18%	1.98%	8.87%	10.93%	0.0196%
AON PLC	AON	28,937.41	0.15%	1.19%	12.08%	13.35%	0.0201%
APACHE CORP	APA	21,072.97	0.11%	1.79%	8.50%	10.37%	0.0114%
ANADARKO PETROLEUM CORP AIR PRODUCTS & CHEMICALS INC	APC APD	27,180.22 30,692.17	0.14% 0.16%	0.38% 2.36%	8.33% 8.17%	8.72% 10.63%	0.0123% 0.0170%
AMPHENOL CORP-CL A	APH	17,653.46	0.09%	1.01%	9.26%	10.31%	0.0095%
ACTIVISION BLIZZARD INC	ATVI	29,319.79	0.15%	0.66%	12.00%	12.70%	0.0194%
AVALONBAY COMMUNITIES INC	AVB	24,742.75	0.13%	2.98%	7.25%	10.34%	0.0133%
BROADCOM LTD AVERY DENNISON CORP	AVGO AVY	61,463.59 6,665.90	0.32% 0.03%	1.23% 2.21%	15.70% 8.20%	17.02% 10.50%	0.0544% 0.0036%
AMERICAN WATER WORKS CO INC	AWK	15,018.65	0.08%	1.75%	7.34%	9.16%	0.0030%
AMERICAN EXPRESS CO	AXP	57,784.77	0.30%	2.00%	9.00%	11.09%	0.0333%
ACUITY BRANDS INC	AYI	10,882.24	0.06%	0.21%	19.60%	19.83%	0.0112%
AUTOZONE INC BOEING CO/THE	AZO BA	23,205.56 82,728.64	0.12% 0.43%	0.00% 3.37%	11.93% 12.08%	11.93% 15.65%	0.0144% 0.0673%
BANK OF AMERICA CORP	BAC	136,308.32	0.71%	2.00%	7.50%	9.58%	0.0679%
BAXTER INTERNATIONAL INC	BAX	24,973.32	0.13%	1.09%	12.04%	13.20%	0.0171%
BED BATH & BEYOND INC	BBBY	6,671.73	0.03%	1.10%	6.83%	7.97%	0.0028%
BB&T CORP BEST BUY CO INC	BBT BBY	28,917.04 9,876.23	0.15% 0.05%	3.18% 4.17%	5.27% 10.18%	8.54% 14.57%	0.0128% 0.0075%
CR BARD INC	BCR	17,241.62	0.09%	0.42%	10.75%	11.19%	0.0100%
BECTON DICKINSON AND CO	BDX	35,987.34	0.19%	1.56%	11.38%	13.03%	0.0244%
FRANKLIN RESOURCES INC BROWN-FORMAN CORP-CLASS B	BEN BF/B	19,519.16 20,347.91	0.10% 0.11%	2.16% 1.42%	4.88% 9.61%	7.09% 11.09%	0.0072% 0.0117%
BAKER HUGHES INC	BHI	19,763.05	0.10%	1.51%	14.00%	15.62%	0.0160%
BIOGEN INC	BIIB	52,971.03	0.28%	0.00%	8.26%	8.26%	0.0228%
BANK OF NEW YORK MELLON CORP	BK	41,844.66	0.22%	1.89%	15.87%	17.90%	0.0390%
BLACKROCK INC BALL CORP	BLK BLL	56,501.55 10,250.51	0.29% 0.05%	2.67% 0.58%	12.67% 4.40%	15.52% 4.99%	0.0456% 0.0027%
BRISTOL-MYERS SQUIBB CO	BMY	122,777.55	0.64%	2.08%	20.56%	22.85%	0.1459%
BERKSHIRE HATHAWAY INC-CL B	BRK/B	356,822.76	1.86%	0.00%	7.10%	7.10%	0.1317%
BOSTON SCIENTIFIC CORP	BSX	31,709.98	0.16%	0.00%	11.73%	11.73%	0.0193%
BORGWARNER INC BOSTON PROPERTIES INC	BWA BXP	6,424.12 20,261.33	0.03% 0.11%	1.76% 2.25%	11.60% 6.55%	13.46% 8.88%	0.0045% 0.0094%
CITIGROUP INC	C	124,411.65	0.65%	0.92%	11.80%	12.78%	0.0827%
CA INC	CA	13,800.48	0.07%	3.15%	5.50%	8.73%	0.0063%
CONAGRA FOODS INC	CAG	20,865.00	0.11%	2.20%	8.00%	10.29%	0.0112%
CARDINAL HEALTH INC CATERPILLAR INC	CAH CAT	25,416.85 44,264.82	0.13% 0.23%	1.95% 4.10%	11.90% 7.23%	13.97% 11.47%	0.0185% 0.0264%
CHUBB LTD	CB	60,711.98	0.32%	2.10%	7.86%	10.04%	0.0317%
CBRE GROUP INC - A	CBG	8,882.34	0.05%	0.00%	12.50%	12.50%	0.0058%
CBS CORP-CLASS B NON VOTING	CBS	24,804.60	0.13%	1.20%	17.03%	18.33%	0.0236%
CROWN CASTLE INTL CORP CARNIVAL CORP	CCI	34,238.68 33,238.05	0.18% 0.17%	3.54% 2.93%	15.50% 16.58%	19.32% 19.75%	0.0344% 0.0341%
CELGENE CORP	CELG	76,398.95	0.40%	0.00%	22.42%	22.42%	0.0891%
CERNER CORP	CERN	19,811.59	0.10%	0.00%	16.13%	16.13%	0.0166%
CF INDUSTRIES HOLDINGS INC	CF	5,617.56	0.03%	4.99%	17.15%	22.57%	0.0066%
CITIZENS FINANCIAL GROUP CHURCH & DWIGHT CO INC	CFG CHD	10,569.02 13,203.88	0.05% 0.07%	2.34% 1.38%	9.00% 9.29%	11.45% 10.73%	0.0063% 0.0074%
CHESAPEAKE ENERGY CORP	CHK	2,930.12	0.02%	0.00%	-3.48%	-3.48%	-0.0005%
		_,					

C.H. ROBINSON WORLDWIDE INC	CHRW	10,600.42	0.06%	2.35%	10.28%	12.74%	0.0070%
CIGNA CORP	CI CINF	32,831.11 12,317.88	0.17% 0.06%	0.03% 0.00%	8.62%	8.66% 16.30%	0.0148% 0.0104%
CINCINNATI FINANCIAL CORP COLGATE-PALMOLIVE CO	CINE	65,368.89	0.06%	2.15%	16.30% 8.38%	10.62%	0.0104%
CLOROX COMPANY	CLX	17,899.42	0.09%	2.24%	6.47%	8.78%	0.0082%
COMERICA INC	CMA	7,203.26	0.04%	2.12%	5.04%	7.22%	0.0027%
COMCAST CORP-CLASS A	CMCSA	158,228.88	0.82%	1.70%	11.32%	13.12%	0.1079%
CME GROUP INC	CME	32,983.82	0.17%	5.11%	12.78%	18.21%	0.0312%
CHIPOTLE MEXICAN GRILL INC	CMG CMI	11,761.16	0.06%	0.00%	16.72%	16.72%	0.0102%
CUMMINS INC CMS ENERGY CORP	CMS	19,155.23 12,839.04	0.10% 0.07%	3.53% 2.70%	4.26% 6.00%	7.86% 8.78%	0.0078% 0.0059%
CENTENE CORP	CNC	12,166.66	0.06%	0.00%	16.57%	16.57%	0.0059%
CENTERPOINT ENERGY INC	CNP	10,334.87	0.05%	4.30%	5.67%	10.09%	0.0054%
CAPITAL ONE FINANCIAL CORP	COF	32,523.44	0.17%	2.67%	6.57%	9.33%	0.0158%
CABOT OIL & GAS CORP	COG	11,969.11	0.06%	0.31%	40.79%	41.16%	0.0256%
COACH INC	COH	11,326.93	0.06%	3.31%	14.23%	17.78%	0.0105%
ROCKWELL COLLINS INC	COL	11,084.73	0.06%	1.58%	8.32%	9.97%	0.0057%
CONOCOPHILLIPS COSTCO WHOLESALE CORP	COP	53,993.68	0.28%	2.30%	6.67%	9.04%	0.0254% 0.0418%
CAMPBELL SOUP CO	CPB	68,793.82 20,534.29	0.36% 0.11%	1.08% 2.03%	10.55% 7.32%	11.69% 9.42%	0.0418%
COLUMBIA PIPELINE GROUP	CPGX	10,206.23	N/A	2.20%	N/A	N/A	N/A
SALESFORCE.COM INC	CRM	53,800.28	0.28%	0.00%	25.42%	25.42%	0.0711%
CISCO SYSTEMS INC	CSCO	144,302.44	0.75%	3.28%	8.77%	12.19%	0.0914%
CSRA INC	CSRA	3,829.02	0.02%	1.71%	10.00%	11.79%	0.0023%
CSX CORP	CSX	24,929.01	0.13%	2.85%	6.46%	9.40%	0.0122%
CINTAS CORP	CTAS	10,500.22	0.05%	1.08%	11.84%	12.98%	0.0071%
CENTURYLINK INC COGNIZANT TECH SOLUTIONS-A	CTL CTSH	15,840.97 34,679.97	0.08% 0.18%	7.45% 0.00%	-1.52%	5.87% 13.78%	0.0048% 0.0249%
CITRIX SYSTEMS INC	CTXS	12,422.12	0.16%	0.00%	13.78% 16.70%	16.70%	0.0249%
CVS HEALTH CORP	CVS	102,826.88	0.53%	1.73%	13.85%	15.70%	0.0840%
CHEVRON CORP	CVX	197,573.35	1.03%	4.10%	3.25%	7.42%	0.0762%
CONCHO RESOURCES INC	CXO	15,690.05	0.08%	0.00%	25.00%	25.00%	0.0204%
DOMINION RESOURCES INC/VA	D	48,021.89	0.25%	3.59%	6.25%	9.96%	0.0249%
DELTA AIR LINES INC	DAL	28,109.11	0.15%	1.67%	15.98%	17.77%	0.0260%
DU PONT (E.I.) DE NEMOURS	DD	56,632.99	0.29%	2.44%	8.25%	10.79%	0.0318%
DEERE & CO	DE	25,467.54	0.13%	2.98%	7.76%	10.85%	0.0144%
DISCOVER FINANCIAL SERVICES	DFS	22,091.15	0.11%	2.21%	8.13%	10.43%	0.0120%
DOLLAR GENERAL CORP	DG	26,675.16	0.14%	1.05%	13.89%	15.01%	0.0208%
QUEST DIAGNOSTICS INC	DGX	11,516.03	0.06%	1.95%	8.91%	10.94%	0.0066%
DR HORTON INC	DHI	11,676.73	0.06%	1.03%	14.71% 11.98%	15.81% 12.64%	0.0096%
DANAHER CORP WALT DISNEY CO/THE	DHR DIS	69,558.24 158,707.15	0.36% 0.83%	0.63%	9.80%	11.36%	0.0457% 0.0938%
DISCOVERY COMMUNICATIONS-A	DISCA	15,147.86	0.03%	1.49% 0.00%	13.45%	13.45%	0.0936%
DELPHI AUTOMOTIVE PLC	DLPH	17,088.36	0.09%	1.86%	9.88%	11.83%	0.0105%
DIGITAL REALTY TRUST INC	DLR	17,364.98	0.09%	3.23%	5.94%	9.26%	0.0084%
DOLLAR TREE INC	DLTR	22,209.17	0.12%	0.00%	17.67%	17.67%	0.0204%
DUN & BRADSTREET CORP	DNB	4,417.72	0.02%	1.58%	11.75%	13.43%	0.0031%
DIAMOND OFFSHORE DRILLING	DO	3,337.34	N/A	0.00%	N/A	N/A	N/A
DOVER CORP	DOV	10,754.91	0.06%	2.48%	10.48%	13.08%	0.0073%
DOW CHEMICAL CO/THE	DOW	55,963.47	0.29%	3.73%	6.00%	9.85%	0.0286%
DR PEPPER SNAPPLE GROUP INC	DPS	17,955.02	0.09%	2.18%	13.24%	15.57%	0.0145%
DARDEN RESTAURANTS INC	DRI	8,026.81	0.04%	3.46%	13.38%	17.08%	0.0071%
DTE ENERGY COMPANY DUKE ENERGY CORP	DTE DUK	17,785.64 59,091.55	0.09% 0.31%	3.02% 3.95%	5.54% 4.71%	8.65% 8.75%	0.0080% 0.0269%
DAVITA HEALTHCARE PARTNERS I	DVA	15,966.58	0.08%	0.00%	10.11%	10.11%	0.0203%
DEVON ENERGY CORP	DVN	18,995.00	0.10%	1.16%	7.97%	9.17%	0.0091%
ELECTRONIC ARTS INC	EA	22,832.80	0.12%	0.00%	11.27%	11.27%	0.0134%
EBAY INC	EBAY	26,895.85	0.14%	0.00%	8.89%	8.89%	0.0124%
ECOLAB INC	ECL	34,786.00	0.18%	1.20%	12.36%	13.63%	0.0247%
CONSOLIDATED EDISON INC	ED	24,466.66	0.13%	3.33%	3.07%	6.45%	0.0082%
EQUIFAX INC	EFX	15,281.39	0.08%	1.03%	9.21%	10.28%	0.0082%
EDISON INTERNATIONAL	EIX	25,305.76	0.13%	2.48%	5.44%	7.99%	0.0105%
ESTEE LAUDER COMPANIES-CL A	EL	33,608.03	0.17%	1.25%	11.73%	13.05%	0.0228%
EMC CORP/MA EASTMAN CHEMICAL CO	EMC EMN	53,108.30 10,038.11	0.28% 0.05%	1.78% 2.66%	10.58% 5.50%	12.45% 8.24%	0.0344% 0.0043%
EMERSON ELECTRIC CO	EMR	33,557.19	0.03%	3.64%	7.33%	11.10%	0.0043 %
ENDO INTERNATIONAL PLC	ENDP	3,471.29	0.02%	0.00%	4.70%	4.70%	0.0008%
EOG RESOURCES INC	EOG	45,904.07	0.24%	0.78%	-9.66%	-8.92%	-0.0213%
EQUINIX INC	EQIX	26,919.74	0.14%	1.80%	22.05%	24.05%	0.0337%
EQUITY RESIDENTIAL	EQR	25,175.79	0.13%	18.91%	6.08%	25.56%	0.0335%
EQT CORP	EQT	13,375.03	0.07%	0.15%	25.00%	25.17%	0.0175%
EVERSOURCE ENERGY EXPRESS SCRIPTS HOLDING CO	ES ESRX	19,000.70 47,946.23	0.10% 0.25%	2.97%	7.00% 12.85%	10.07% 12.85%	0.0100% 0.0320%
				0.00%			
ESSEX PROPERTY TRUST INC E*TRADE FINANCIAL CORP	ESS ETFC	14,923.95 6,547.34	0.08% 0.03%	2.79% 0.03%	6.83% 17.87%	9.72% 17.90%	0.0075% 0.0061%
EATON CORP PLC	ETN	27,356.34	0.03%	3.83%	8.42%	12.41%	0.0061%
ENTERGY CORP	ETR	14,540.57	0.08%	4.22%	1.56%	5.82%	0.0170%
EDWARDS LIFESCIENCES CORP	EW	21,119.10	0.11%	0.00%	14.57%	14.57%	0.0160%
EXELON CORP	EXC	33,512.82	0.17%	3.47%	4.00%	7.53%	0.0131%
EXPEDITORS INTL WASH INC	EXPD	8,928.17	0.05%	1.56%	8.53%	10.16%	0.0047%
EXPEDIA INC	EXPE	15,849.71	0.08%	0.81%	22.29%	23.18%	0.0191%
EXTRA SPACE STORAGE INC	EXR	11,586.72	0.06%	2.98%	7.35%	10.44%	0.0063%
FORD MOTOR CO	F	49,938.54	0.26%	4.77%	6.72%	11.65%	0.0303%
FASTENAL CO	FAST	12,823.53	0.07%	2.71%	12.02%	14.89%	0.0099%
FACEBOOK INC-A	FB FBHS	326,875.71	1.70% 0.05%	0.00%	31.69% 18.63%	31.69% 19.84%	0.5386% 0.0092%
FORTUNE BRANDS HOME & SECURI FREEPORT-MCMORAN INC	FERS	8,891.21 13,948.86	0.05% N/A	1.11% 0.00%	18.63% N/A	19.84% N/A	0.0092% N/A
FEDEX CORP	FDX	40,741.36	0.21%	1.03%	12.25%	13.34%	0.0283%
FIRSTENERGY CORP	FE	14,826.71	0.21%	4.12%	-1.55%	2.54%	0.0203%
F5 NETWORKS INC	FFIV	7,625.15	0.04%	0.00%	13.18%	13.18%	0.0052%
FIDELITY NATIONAL INFO SERV	FIS	24,053.13	0.13%	1.45%	12.13%	13.66%	0.0171%
FISERV INC	FISV	24,173.93	0.13%	0.00%	12.50%	12.50%	0.0157%
FIFTH THIRD BANCORP	FITB	13,504.16	0.07%	3.09%	3.83%	6.98%	0.0049%
FOOT LOCKER INC	FL	7,423.05	0.04%	2.05%	10.75%	12.91%	0.0050%
FLIR SYSTEMS INC	FLIR	4,259.71	0.02%	1.49%	15.00%	16.60%	0.0037%
FLUOR CORP	FLR	6,861.26	0.04%	1.71%	2.39%	4.12%	0.0015%
FLOWSERVE CORP FMC CORP	FLS FMC	5,888.67 6,194.03	0.03% 0.03%	1.68% 1.46%	11.67% 9.53%	13.45% 11.06%	0.0041% 0.0036%
TWENTY-FIRST CENTURY FOX-A	FOXA	51,399.08	0.03%	1.46%	9.53% 13.84%	15.13%	0.0036%
FEDERAL REALTY INVS TRUST	FRT	11,738.17	0.27%	2.32%	6.26%	8.65%	0.0404%
FIRST SOLAR INC	FSLR	4,956.84	0.03%	0.00%	10.00%	10.00%	0.0033%
FMC TECHNOLOGIES INC	FTI	6,036.90	0.03%	0.00%	-8.10%	-8.10%	-0.0025%
FRONTIER COMMUNICATIONS CORP	FTR	5,795.00	0.03%	8.50%	11.55%	20.54%	0.0062%

AGL RESOURCES INC	GAS	7,961.26	0.04%	3.21% 2.14%	6.50%	9.82%	0.0041%
GENERAL DYNAMICS CORP GENERAL ELECTRIC CO	GD GE	42,558.28 289,479.28	0.22% 1.51%	2.96%	7.83% 9.98%	10.05% 13.09%	0.0222% 0.1970%
GENERAL GROWTH PROPERTIES	GGP	26,336.92	0.14%	2.59%	6.73%	9.40%	0.0129%
GILEAD SCIENCES INC	GILD	111,100.55	0.58%	2.21%	1.96%	4.20%	0.0242%
GENERAL MILLS INC	GIS	42,392.72	0.22%	2.64%	9.63%	12.40%	0.0273%
CORNING INC	GLW	22,023.14	0.11%	2.65%	12.34%	15.15%	0.0174%
GENERAL MOTORS CO	GM	43,577.06	0.23%	5.37%	9.44%	15.06%	0.0341%
ALPHABET INC-CL A	GOOGL	478,804.14	2.49%	0.00%	15.66%	15.66%	0.3899%
GENUINE PARTS CO GLOBAL PAYMENTS INC	GPC GPN	15,149.34 10,992.57	0.08% 0.06%	2.60% 0.06%	6.33% 14.42%	9.01% 14.48%	0.0071% 0.0083%
GAP INC/THE	GPS	8,444.80	0.04%	4.30%	6.91%	11.37%	0.0050%
GARMIN LTD	GRMN	8,019.66	0.04%	4.83%	5.68%	10.65%	0.0044%
GOLDMAN SACHS GROUP INC	GS	64,513.58	0.34%	1.81%	14.11%	16.05%	0.0538%
GOODYEAR TIRE & RUBBER CO	GT	6,824.13	0.04%	1.10%	7.00%	8.14%	0.0029%
WW GRAINGER INC	GWW	13,935.47	0.07%	2.15%	9.34%	11.59%	0.0084%
HALLIBURTON CO	HAL	38,916.11	0.20%	1.57%	12.53%	14.19%	0.0287%
HARMAN INTERNATIONAL	HAR	5,067.24	0.03%	1.97%	17.50%	19.64%	0.0052%
HASBRO INC	HAS	10,473.73	0.05%	2.43%	10.40%	12.96%	0.0071%
HUNTINGTON BANCSHARES INC	HBAN	7,141.87	0.04%	3.21%	5.32%	8.62%	0.0032%
HANESBRANDS INC	HBI	9,487.01	0.05%	1.74%	12.03%	13.88%	0.0068%
HCA HOLDINGS INC WELLTOWER INC	HCA HCN	30,115.06 27,192.32	0.16% 0.14%	0.00% 4.49%	11.00% 4.67%	11.00% 9.26%	0.0172% 0.0131%
HCP INC	HCP	16,525.56	0.09%	6.45%	2.81%	9.35%	0.0080%
HOME DEPOT INC	HD	158,847.29	0.83%	2.16%	13.47%	15.77%	0.1302%
HESS CORP	HES	19,034.83	0.10%	1.66%	-20.09%	-18.60%	-0.0184%
HARTFORD FINANCIAL SVCS GRP	HIG	17,458.42	0.09%	1.98%	9.33%	11.41%	0.0104%
HARLEY-DAVIDSON INC	HOG	8,203.38	0.04%	3.09%	10.35%	13.60%	0.0058%
HOLOGIC INC	HOLX	9,647.51	0.05%	0.00%	8.94%	8.94%	0.0045%
HONEYWELL INTERNATIONAL INC	HON	88,649.27	0.46%	2.11%	9.32%	11.53%	0.0531%
STARWOOD HOTELS & RESORTS	HOT	12,537.31	0.07%	2.03%	7.26%	9.36%	0.0061%
HELMERICH & PAYNE	HP	7,252.67	0.04%	4.12%	-1.40%	2.69%	0.0010%
HEWLETT PACKARD ENTERPRIS	HPE	30,359.53	0.16%	1.20%	6.42%	7.66%	0.0121%
HP INC H&R BLOCK INC	HPQ HRB	21,468.11 5,071.90	0.11% 0.03%	4.22% 3.83%	2.83% 11.00%	7.11% 15.04%	0.0079% 0.0040%
HORMEL FOODS CORP	HRL	19,392.89	0.03%	1.57%	5.90%	7.51%	0.0040%
HARRIS CORP	HRS	10,407.13	N/A	2.38%	N/A	N/A	N/A
HENRY SCHEIN INC	HSIC	14,509.34	0.08%	0.00%	11.43%	11.43%	0.0086%
HOST HOTELS & RESORTS INC	HST	12,113.98	0.06%	5.13%	5.00%	10.25%	0.0065%
HERSHEY CO/THE	HSY	24,215.69	0.13%	2.09%	9.18%	11.36%	0.0143%
HUMANA INC	HUM	26,808.71	0.14%	0.66%	13.14%	13.85%	0.0193%
INTL BUSINESS MACHINES CORP	IBM	145,703.01	0.76%	3.54%	3.54%	7.15%	0.0542%
INTERCONTINENTAL EXCHANGE IN	ICE	30,470.92	0.16%	1.33%	14.24%	15.66%	0.0248%
INTL FLAVORS & FRAGRANCES	IFF	10,049.53	0.05%	1.83%	11.00%	12.94%	0.0068%
ILLUMINA INC	ILMN	20,663.94	0.11%	0.00%	13.98%	13.98%	0.0150%
INTEL CORP INTUIT INC	INTC INTU	154,881.60 28,557.79	0.81% 0.15%	3.16% 1.08%	8.52% 17.11%	11.81% 18.28%	0.0951% 0.0271%
INTERNATIONAL PAPER CO	IP	17,425.57	0.13%	4.20%	7.50%	11.86%	0.0107%
INTERPUBLIC GROUP OF COS INC	 IPG	9,295.56	0.05%	2.54%	8.00%	10.64%	0.0051%
INGERSOLL-RAND PLC	IR	16,395.29	0.09%	2.01%	10.71%	12.82%	0.0109%
IRON MOUNTAIN INC	IRM	10,461.09	N/A	4.77%	N/A	N/A	N/A
INTUITIVE SURGICAL INC	ISRG	25,173.51	0.13%	0.00%	13.07%	13.07%	0.0171%
ILLINOIS TOOL WORKS	ITW	37,432.02	0.19%	2.17%	6.65%	8.90%	0.0173%
INVESCO LTD	IVZ	10,656.98	0.06%	4.37%	9.55%	14.13%	0.0078%
HUNT (JB) TRANSPRT SVCS INC	JBHT	9,117.12	0.05%	1.08%	13.74%	14.90%	0.0071%
JOHNSON CONTROLS INC	JCI	28,696.86	0.15%	2.58%	9.20%	11.90%	0.0178%
JACOBS ENGINEERING GROUP INC JOHNSON & JOHNSON	JEC JNJ	6,073.09 333,653.15	0.03% 1.73%	0.00% 2.59%	6.92% 6.29%	6.92% 8.96%	0.0022% 0.1554%
JUNIPER NETWORKS INC	JNPR	8,634.92	0.04%	1.88%	9.56%	11.53%	0.1354%
JPMORGAN CHASE & CO	JPM	227,224.79	1.18%	3.04%	4.21%	7.31%	0.0863%
NORDSTROM INC	JWN	6,599.20	0.03%	4.05%	8.23%	12.45%	0.0043%
KELLOGG CO	K	28,581.44	0.15%	2.52%	5.82%	8.42%	0.0125%
KEYCORP	KEY	9,308.22	0.05%	3.05%	4.50%	7.62%	0.0037%
KRAFT HEINZ CO/THE	KHC	107,587.72	0.56%	2.65%	20.38%	23.30%	0.1303%
KIMCO REALTY CORP	KIM	13,168.58	0.07%	3.27%	5.67%	9.04%	0.0062%
KLA-TENCOR CORP	KLAC	11,405.64	0.06%	2.87%	5.55%	8.50%	0.0050%
KIMBERLY-CLARK CORP KINDER MORGAN INC	KMB KMI	49,510.37 41,774.73	0.26% 0.22%	2.67% 2.68%	7.64% 14.65%	10.41% 17.52%	0.0268% 0.0381%
CARMAX INC	KMX	9,486.29	0.05%	0.00%	12.92%	12.92%	0.0064%
COCA-COLA CO/THE	KO	196,106.59	1.02%	3.05%	5.72%	8.86%	0.0903%
MICHAEL KORS HOLDINGS LTD	KORS	8,730.68	0.05%	0.00%	5.35%	5.35%	0.0024%
KROGER CO	KR	34,913.43	0.18%	1.20%	9.44%	10.70%	0.0194%
KOHLS CORP	KSS	6,966.25	0.04%	5.33%	3.25%	8.67%	0.0031%
KANSAS CITY SOUTHERN	KSU	9,728.61	0.05%	1.50%	9.42%	10.99%	0.0056%
LOEWS CORP L BRANDS INC	L LB	13,930.18 19,300.04	N/A 0.10%	0.61% 6.58%	N/A 10.54%	N/A 17.47%	N/A 0.0175%
LEGGETT & PLATT INC	LEG	6,865.40	0.10%	2.56%	10.54%	12.69%	0.0175%
LENNAR CORP-A	LEN	9,621.04	0.05%	0.35%	11.68%	12.04%	0.0060%
LABORATORY CRP OF AMER HLDGS	LH	13,339.65	0.07%	0.00%	11.29%	11.29%	0.0078%
LKQ CORP	LKQ	9,721.73	0.05%	0.00%	16.13%	16.13%	0.0082%
L-3 COMMUNICATIONS HOLDINGS	LLL	11,288.20	0.06%	1.94%	9.94%	11.98%	0.0070%
LINEAR TECHNOLOGY CORP	LLTC	11,125.24	0.06%	2.65%	6.91%	9.65%	0.0056%
ELI LILLY & CO	LLY	86,927.16	0.45%	2.59%	11.85%	14.59%	0.0660%
LEGG MASON INC	LM	3,099.71	0.02%	2.98%	15.82%	19.04%	0.0031%
LOCKHEED MARTIN CORP LINCOLN NATIONAL CORP	LMT LNC	75,556.11 9,266.31	0.39% 0.05%	2.71% 2.62%	7.61% 11.80%	10.42% 14.58%	0.0409% 0.0070%
LOWE'S COS INC	LOW	70,152.91	0.05%	2.62% 1.55%	16.39%	18.07%	0.0070%
LAM RESEARCH CORP	LRCX	13,415.78	0.07%	1.41%	9.72%	11.20%	0.0038%
LEUCADIA NATIONAL CORP	LUK	6,279.18	0.03%	1.44%	18.00%	19.57%	0.0064%
SOUTHWEST AIRLINES CO	LUV	25,042.91	0.13%	0.88%	8.46%	9.37%	0.0122%
LEVEL 3 COMMUNICATIONS INC	LVLT	18,429.96	0.10%	0.00%	-0.69%	-0.69%	-0.0007%
LYONDELLBASELL INDU-CL A	LYB	31,757.03	0.17%	4.49%	5.67%	10.28%	0.0170%
MACY'S INC	М	10,365.16	0.05%	4.50%	9.67%	14.38%	0.0078%
MASTERCARD INC-CLASS A	MA	96,751.30	0.50%	0.86%	14.60%	15.53%	0.0781%
MACERICH CO/THE MARRIOTT INTERNATIONAL -CL A	MAC MAR	12,679.79 16,896.24	0.07% 0.09%	5.05% 1.73%	7.12% 11.96%	12.35% 13.79%	0.0081% 0.0121%
MASCO CORP	MAS	10,896.24	0.09%	1.73%	11.96%	13.79%	0.0121%
MATTEL INC	MAT	10,652.55	0.05%	4.86%	10.15%	15.25%	0.0084%
MCDONALD'S CORP	MCD	105,641.38	0.55%	3.04%	10.31%	13.51%	0.0742%
MICROCHIP TECHNOLOGY INC	MCHP	10,904.02	0.06%	2.76%	9.64%	12.53%	0.0071%
MCKESSON CORP	MCK	42,125.74	0.22%	0.62%	12.00%	12.65%	0.0277%
MOODY'S CORP	MCO	18,207.85	0.09%	1.53%	11.00%	12.61%	0.0119%
MONDELEZ INTERNATIONAL INC-A	MDLZ	70,634.28	0.37%	1.50%	12.99%	14.58%	0.0535%

MEDTRONIC PLC	MDT	121,020.89	0.63%	1.96%	8.31%	10.35%	0.0651%
METLIFE INC	MET	43,759.89	0.23%	4.04%	5.10%	9.25%	0.0210%
MOHAWK INDUSTRIES INC	MHK	14,059.56	0.07%	0.00%	11.10%	11.10%	0.0081%
MEAD JOHNSON NUTRITION CO	MJN	16,939.75	0.09%	1.92%	9.84%	11.85%	0.0104%
MCCORMICK & CO-NON VTG SHRS	MKC	13,533.19	0.07%	1.60%	9.10%	10.77%	0.0076%
MARTIN MARIETTA MATERIALS	MLM	12,197.22	0.06%	0.83%	22.16%	23.08%	0.0146%
MARSH & MCLENNAN COS	MMC	35,683.62	0.19%	1.94%	11.62%	13.67%	0.0254%
3M CO	MMM	106,212.82	0.55%	2.54%	8.88%	11.53%	0.0637%
MALLINCKRODT PLC	MNK	6,644.80	0.03%	0.00%	9.35%	9.35%	0.0032%
MONSTER BEVERAGE CORP	MNST	32,630.99	0.17%	0.00%	18.96%	18.96%	0.0322%
ALTRIA GROUP INC	MO	134,915.06	0.70%	3.45%	7.67%	11.25%	0.0789%
MONSANTO CO	MON	45,249.69	0.24%	2.09%	7.85%	10.02%	0.0236%
MOSAIC CO/THE	MOS	9,158.19	0.05%	4.20%	0.85%	5.07%	0.0024%
MARATHON PETROLEUM CORP	MPC	20,112.53	0.10%	3.47%	5.63%	9.21%	0.0096%
MERCK & CO. INC.	MRK	159,465.94	0.83%	3.19%	5.08%	8.35%	0.0693%
MARATHON OIL CORP	MRO	12,723.20	0.07%	1.33%	-12.38%	-11.13%	-0.0074%
MORGAN STANLEY MICROSOFT CORP	MS	50,323.89	0.26%	2.68%	6.43%	9.20%	0.0241%
	MSFT	402,220.09	2.09%	2.76%	8.46%	11.33%	0.2370%
MOTOROLA SOLUTIONS INC M & T BANK CORP	MSI MTB	11,518.65 18,798.45	0.06% 0.10%	2.50% 2.41%	5.28%	7.84% 7.30%	0.0047% 0.0071%
MICRON TECHNOLOGY INC	MU		0.10%	0.00%	4.84% 6.10%	6.10%	0.0071%
		14,269.71					
MURPHY OIL CORP MYLAN NV	MUR MYL	5,467.20	N/A 0.11%	4.38%	N/A 9.42%	N/A 9.42%	N/A 0.0108%
NAVIENT CORP	NAVI	21,981.82 3,949.64	N/A	0.00% 5.41%	9.42% N/A	9.42% N/A	0.010676 N/A
NOBLE ENERGY INC	NBL	15,409.47	0.08%	1.11%	7.03%	8.18%	0.0066%
NASDAQ INC	NDAQ	10,639.16	0.06%	1.90%	7.48%	9.45%	0.0052%
NEXTERA ENERGY INC	NEE	60,172.55	0.31%	2.67%	6.32%	9.07%	0.0284%
NEWMONT MINING CORP	NEM	20,754.37	0.11%	0.27%	6.13%	6.41%	0.0069%
NETFLIX INC	NFLX	39,180.77	0.20%	0.00%	35.50%	35.50%	0.0723%
NEWFIELD EXPLORATION CO	NFX	8,769.08	0.05%	0.00%	27.50%	27.50%	0.0125%
NISOURCE INC	NI	8,527.36	N/A	2.41%	N/A	N/A	N/A
NIKE INC -CL B	NKE	92,996.64	0.48%	1.34%	13.64%	15.07%	0.0729%
NIELSEN HOLDINGS PLC	NLSN	18,751.04	0.10%	2.34%	12.33%	14.81%	0.0144%
NORTHROP GRUMMAN CORP	NOC	40,110.79	0.21%	1.54%	7.54%	9.14%	0.0191%
NATIONAL OILWELL VARCO INC	NOV	12,688.10	0.07%	1.81%	-14.31%	-12.62%	-0.0083%
NRG ENERGY INC	NRG	4,720.47	N/A	1.60%	N/A	N/A	N/A
NORFOLK SOUTHERN CORP	NSC	25,176.16	0.13%	2.82%	12.44%	15.44%	0.0202%
NETAPP INC	NTAP	6,887.17	0.04%	3.09%	8.97%	12.19%	0.0044%
NORTHERN TRUST CORP	NTRS	15,118.13	0.08%	2.26%	11.45%	13.84%	0.0109%
NUCOR CORP	NUE	15,708.85	0.08%	3.04%	8.40%	11.57%	0.0094%
NVIDIA CORP	NVDA	25,103.34	0.13%	0.98%	9.67%	10.70%	0.0140%
NEWELL BRANDS INC	NWL	23,214.12	0.12%	1.55%	13.77%	15.43%	0.0186%
NEWS CORP - CLASS A	NWSA	6,646.70	0.03%	1.76%	8.80%	10.64%	0.0037%
REALTY INCOME CORP	0	17,869.29	0.09%	3.46%	3.67%	7.19%	0.0067%
OWENS-ILLINOIS INC	OI	2,916.16	0.02%	0.00%	7.37%	7.37%	0.0011%
ONEOK INC	OKE	9,969.46	0.05%	5.19%	7.30%	12.68%	0.0066%
OMNICOM GROUP	OMC	19,374.24	0.10%	2.64%	6.45%	9.17%	0.0092%
ORACLE CORP	ORCL	168,743.34	0.88%	1.45%	8.25%	9.76%	0.0857%
O'REILLY AUTOMOTIVE INC	ORLY	26,149.18	0.14%	0.00%	15.54%	15.54%	0.0211%
OCCIDENTAL PETROLEUM CORP	OXY	57,708.31	0.30%	3.99%	8.00%	12.15%	0.0365%
PAYCHEX INC	PAYX	21,427.20	N/A	2.82%	N/A	N/A	N/A
PEOPLE'S UNITED FINANCIAL	PBCT	4,557.22	N/A	4.62%	N/A	N/A	N/A
PITNEY BOWES INC PACCAR INC	PBI PCAR	3,357.44	0.02%	4.21%	14.00% 7.83%	18.51%	0.0032%
P G & E CORP	PCG	18,178.51 31,707.02	0.09% 0.16%	3.57% 3.03%	4.98%	11.55% 8.08%	0.0109% 0.0133%
PRICELINE GROUP INC/THE	PCLN	61,970.30	0.10%	0.00%	18.01%	18.01%	0.0133%
PATTERSON COS INC	PDCO	4,745.84	0.02%	2.10%	6.95%	9.12%	0.0023%
PUBLIC SERVICE ENTERPRISE GP	PEG	23,581.37	0.12%	3.52%	3.22%	6.80%	0.0083%
PEPSICO INC	PEP	153,021.54	0.80%	2.77%	6.41%	9.27%	0.0738%
PFIZER INC	PFE	213,543.35	1.11%	3.41%	5.80%	9.31%	0.1033%
PRINCIPAL FINANCIAL GROUP	PFG	11,915.84	0.06%	3.83%	9.03%	13.03%	0.0081%
PROCTER & GAMBLE CO/THE	PG	225,379.00	1.17%	3.14%	6.25%	9.49%	0.1112%
PROGRESSIVE CORP	PGR	19,530.38	0.10%	1.98%	8.37%	10.43%	0.0106%
PARKER HANNIFIN CORP	PH	14,552.33	0.08%	2.33%	8.21%	10.64%	0.0080%
PULTEGROUP INC	PHM	6,744.17	0.04%	1.85%	14.04%	16.02%	0.0056%
PERKINELMER INC	PKI	5,715.38	0.03%	0.54%	19.78%	20.37%	0.0061%
PROLOGIS INC	PLD	25,749.96	0.13%	3.43%	5.04%	8.55%	0.0114%
PHILIP MORRIS INTERNATIONAL	PM	157,794.61	0.82%	4.09%	8.24%	12.50%	0.1026%
PNC FINANCIAL SERVICES GROUP	PNC	40,639.96	0.21%	2.62%	6.03%	8.72%	0.0184%
PENTAIR PLC	PNR	10,533.96	0.05%	2.31%	8.66%	11.07%	0.0061%
PINNACLE WEST CAPITAL	PNW	9,009.01	0.05%	3.13%	4.64%	7.84%	0.0037%
PPG INDUSTRIES INC	PPG	27,710.50	0.14%	1.49%	8.50%	10.05%	0.0145%
PPL CORP	PPL	25,554.68	0.13%	4.03%	3.83%	7.93%	0.0105%
PERRIGO CO PLC PRUDENTIAL FINANCIAL INC	PRGO	12,986.00	0.07%	0.64%	9.68%	10.35%	0.0070%
PUBLIC STORAGE	PRU PSA	31,532.28 44,314.71	0.16% 0.23%	3.95% 2.78%	7.90% 5.51%	12.01% 8.37%	0.0197% 0.0193%
PHILLIPS 66	PSX	41,699.63	0.23%	3.01%	9.79%	12.94%	0.0193%
PVH CORP	PVH	7,619.10	0.22%	0.16%	6.36%	6.52%	0.0261%
QUANTA SERVICES INC	PWR	3,491.95	0.02%	0.00%	8.00%	8.00%	0.0026%
PRAXAIR INC	PX	32,060.92	0.17%	2.68%	7.11%	9.89%	0.0165%
PIONEER NATURAL RESOURCES CO	PXD	25,526.41	0.13%	0.05%	20.00%	20.06%	0.0266%
PAYPAL HOLDINGS INC	PYPL	44,251.09	0.23%	0.00%	15.50%	15.50%	0.0357%
QUALCOMM INC	QCOM	78,689.78	0.41%	3.66%	10.50%	14.35%	0.0587%
QORVO INC	QRVO	7,062.69	0.04%	0.00%	14.70%	14.70%	0.0054%
RYDER SYSTEM INC	R	3,283.43	0.02%	2.76%	9.92%	12.82%	0.0022%
REYNOLDS AMERICAN INC	RAI	76,976.51	0.40%	3.14%	9.44%	12.72%	0.0509%
ROYAL CARIBBEAN CRUISES LTD	RCL	14,453.46	0.08%	2.34%	24.87%	27.49%	0.0207%
REGENERON PHARMACEUTICALS	REGN	36,696.60	0.19%	0.00%	22.75%	22.75%	0.0434%
REGIONS FINANCIAL CORP	RF	10,779.73	0.06%	3.11%	5.26%	8.46%	0.0047%
ROBERT HALF INTL INC	RHI	5,011.12	0.03%	2.31%	11.63%	14.07%	0.0037%
RED HAT INC	RHT	13,147.06	0.07%	0.00%	17.70%	17.70%	0.0121%
TRANSOCEAN LTD	RIG	4,342.25	0.02%	0.00%	-6.20%	-6.20%	-0.0014%
RALPH LAUREN CORP	RL	7,451.16	0.04%	2.30%	7.46%	9.84%	0.0038%
ROCKWELL AUTOMATION INC	ROK	14,956.86	0.08%	2.66%	6.93%	9.68%	0.0075%
ROPER TECHNOLOGIES INC	ROP	17,260.82	0.09%	0.68%	11.43%	12.15%	0.0109%
ROSS STORES INC	ROST	22,648.21	0.12%	0.95%	12.46%	13.46%	0.0159%
RANGE RESOURCES CORP	RRC	7,322.82	0.04%	0.22%	-24.07%	-23.87%	-0.0091%
REPUBLIC SERVICES INC	RSG	17,645.41	0.09%	2.39%	8.11%	10.60%	0.0097%
RAYTHEON COMPANY	RTN	40,374.43	0.21%	2.12%	7.94%	10.14%	0.0213%
STARBUCKS CORP	SBUX	83,675.09	0.44%	1.43%	18.45%	20.01%	0.0871%
SCANA CORP	SCG	10,813.09	0.06%	3.03%	5.55%	8.66%	0.0049%
SCHWAB (CHARLES) CORP	SCHW	33,452.00	0.17%	1.02%	17.31%	18.42%	0.0320%
SPECTRA ENERGY CORP	SE	25,674.32	0.13%	4.46%	10.20%	14.88%	0.0199%

SEALED AIR CORP	SEE	9,062.66	0.05%	1.27%	4.27%	5.57%	0.0026%
SHERWIN-WILLIAMS CO/THE	SHW	27,163.04	0.14% 0.03%	1.14% 1.26%	15.80%	17.03%	0.0241%
SIGNET JEWELERS LTD JM SMUCKER CO/THE	SIG SJM	6,428.46 17,744.54	0.03%	1.88%	14.40% 8.30%	15.75% 10.26%	0.0053% 0.0095%
SCHLUMBERGER LTD	SLB	110,018.25	0.57%	2.53%	5.63%	8.23%	0.0471%
SL GREEN REALTY CORP	SLG	11,098.15	0.06%	2.79%	4.85%	7.71%	0.0044%
SNAP-ON INC	SNA SNI	9,176.66	0.05%	2.03%	4.80%	6.88%	0.0033%
SCRIPPS NETWORKS INTER-CL A SOUTHERN CO/THE	SNI	8,030.06 50,334.56	0.04% 0.26%	1.62% 4.15%	11.73% 4.12%	13.45% 8.36%	0.0056% 0.0219%
SIMON PROPERTY GROUP INC	SPG	67,112.51	0.25%	3.01%	7.92%	11.05%	0.0386%
S&P GLOBAL INC	SPGI	28,402.45	0.15%	1.35%	10.00%	11.42%	0.0169%
STAPLES INC	SPLS	5,571.00	0.03%	5.57%	1.60%	7.22%	0.0021%
STERICYCLE INC	SRCL	8,841.10	0.05%	0.00%	14.28%	14.28%	0.0066%
SEMPRA ENERGY SUNTRUST BANKS INC	SRE STI	28,447.62 20,586.32	0.15% 0.11%	2.65% 2.46%	6.88% 6.19%	9.62% 8.73%	0.0142% 0.0093%
ST JUDE MEDICAL INC	STJ	22,173.64	0.11%	1.59%	10.63%	12.30%	0.0033%
STATE STREET CORP	STT	21,349.10	0.11%	2.65%	10.71%	13.50%	0.0150%
SEAGATE TECHNOLOGY	STX	7,271.06	0.04%	9.81%	1.43%	11.31%	0.0043%
CONSTELLATION BRANDS INC-A	STZ	33,177.89	0.17%	0.97%	14.80%	15.84%	0.0273%
STANLEY BLACK & DECKER INC SKYWORKS SOLUTIONS INC	SWK SWKS	16,695.97	0.09%	2.03%	10.50%	12.64% 19.57%	0.0110%
SOUTHWESTERN ENERGY CO	SWN	12,038.27 6,021.63	0.06% 0.03%	1.66% 0.00%	17.77% -19.71%	-19.71%	0.0123% -0.0062%
SYNCHRONY FINANCIAL	SYF	21,081.51	0.11%	1.09%	6.25%	7.37%	0.0081%
STRYKER CORP	SYK	44,814.15	0.23%	1.28%	10.41%	11.76%	0.0274%
SYMANTEC CORP	SYMC	12,576.48	0.07%	1.48%	8.69%	10.23%	0.0067%
SYSCO CORP	SYY T	28,592.80	0.15%	2.41%	9.21%	11.73%	0.0174%
AT&T INC MOLSON COORS BREWING CO -B	TAP	266,000.76 21,710.61	1.38% 0.11%	4.46% 1.62%	3.92% 19.77%	8.47% 21.55%	0.1171% 0.0243%
TERADATA CORP	TDC	3,259.10	0.02%	0.00%	9.67%	9.67%	0.0016%
TRANSDIGM GROUP INC	TDG	13,970.15	0.07%	0.00%	13.88%	13.88%	0.0101%
TECO ENERGY INC	TE	6,510.60	0.03%	3.35%	5.87%	9.32%	0.0032%
TE CONNECTIVITY LTD	TEL	20,423.46	0.11%	2.39%	12.20%	14.73%	0.0156%
TEGNA INC TARGET CORP	TGNA TGT	5,041.51 41,143.15	0.03% 0.21%	2.42% 3.30%	8.03% 10.69%	10.55% 14.17%	0.0028% 0.0303%
TIFFANY & CO	TIF	7,641.70	0.21%	2.73%	8.32%	11.16%	0.0303%
TJX COMPANIES INC	TJX	51,055.48	0.27%	1.33%	11.56%	12.97%	0.0344%
TORCHMARK CORP	TMK	7,458.63	0.04%	0.91%	7.98%	8.93%	0.0035%
THERMO FISHER SCIENTIFIC INC	TMO	58,145.37	0.30%	0.41%	11.83%	12.26%	0.0371%
TRIPADVISOR INC T ROWE PRICE GROUP INC	TRIP TROW	9,368.91 18,111.38	0.05% 0.09%	0.00% 2.96%	14.94% 10.46%	14.94% 13.57%	0.0073% 0.0128%
TRAVELERS COS INC/THE	TRV	34,806.66	0.03%	2.21%	8.04%	10.34%	0.0120%
TRACTOR SUPPLY COMPANY	TSCO	12,165.87	0.06%	0.96%	15.66%	16.70%	0.0106%
TYSON FOODS INC-CL A	TSN	26,879.48	0.14%	0.92%	12.30%	13.27%	0.0186%
TESORO CORP	TSO	8,988.59	0.05%	2.75%	-1.11%	1.63%	0.0008%
TOTAL SYSTEM SERVICES INC	TSS TWX	9,751.64	0.05%	0.75%	11.00%	11.79% 16.73%	0.0060%
TIME WARNER INC TEXAS INSTRUMENTS INC	TXN	57,831.44 62,914.82	0.30% 0.33%	2.19% 2.45%	14.38% 10.00%	12.58%	0.0503% 0.0411%
TEXTRON INC	TXT	9,828.49	0.05%	0.23%	7.31%	7.55%	0.0039%
TYCO INTERNATIONAL PLC	TYC	18,126.21	0.09%	2.02%	10.03%	12.15%	0.0115%
UNDER ARMOUR INC-CLASS A	UA	16,643.53	0.09%	0.00%	23.89%	23.89%	0.0207%
UNITED CONTINENTAL HOLDINGS UDR INC	UAL UDR	13,777.11	0.07%	0.00%	-12.07%	-12.07%	-0.0086%
UNIVERSAL HEALTH SERVICES-B	UHS	9,862.71 13,018.95	0.05% 0.07%	3.20% 0.30%	6.73% 8.88%	10.03% 9.19%	0.0051% 0.0062%
ULTA SALON COSMETICS & FRAGR	ULTA	15,216.45	0.07 %	0.00%	21.00%	21.00%	0.0166%
UNITEDHEALTH GROUP INC	UNH	134,253.54	0.70%	1.43%	13.02%	14.54%	0.1015%
UNUM GROUP	UNM	7,558.35	0.04%	2.46%	7.60%	10.15%	0.0040%
UNION PACIFIC CORP	UNP	73,380.24	0.38%	2.57%	13.08%	15.83%	0.0604%
UNITED PARCEL SERVICE-CL B URBAN OUTFITTERS INC	UPS URBN	95,081.12 3,221.25	0.49% 0.02%	2.89% 0.00%	10.04% 13.01%	13.08% 13.01%	0.0647% 0.0022%
UNITED RENTALS INC	URI	5,938.51	0.02%	0.00%	14.13%	14.13%	0.0022 %
US BANCORP	USB	69,625.84	0.36%	2.67%	5.86%	8.61%	0.0312%
UNITED TECHNOLOGIES CORP	UTX	85,820.58	0.45%	2.61%	9.56%	12.29%	0.0548%
VISA INC-CLASS A SHARES	V	176,888.54	0.92%	0.76%	17.45%	18.27%	0.1680%
VARIAN MEDICAL SYSTEMS INC VF CORP	VAR VFC	7,829.49 25,642.45	0.04% 0.13%	0.00% 2.46%	12.05% 10.77%	12.05% 13.36%	0.0049% 0.0178%
VIACOM INC-CLASS B	VIAB	16,668.47	0.09%	3.89%	5.81%	9.81%	0.0085%
VALERO ENERGY CORP	VLO	23,959.93	0.12%	4.74%	2.70%	7.50%	0.0093%
VULCAN MATERIALS CO	VMC	16,030.53	0.08%	0.67%	23.08%	23.82%	0.0199%
VORNADO REALTY TRUST VERISK ANALYTICS INC	VNO	18,899.75	0.10%	2.59%	5.36%	8.02%	0.0079%
VERISION INC.	VRSK VRSN	13,634.93 9,378.79	0.07%	0.00% 0.00%	12.00% 9.85%	12.00% 9.85%	0.0085%
VERTEX PHARMACEUTICALS INC	VRTX	21,277.04	0.03%	0.00%	50.53%	50.53%	0.0559%
VENTAS INC	VTR	24,622.78	0.13%	4.05%	1.93%	6.01%	0.0077%
VERIZON COMMUNICATIONS INC WATERS CORP	VZ	227,619.92	1.18%	4.09%	3.95%	8.12%	0.0961%
WALGREENS BOOTS ALLIANCE INC	WAT WBA	11,384.42 89,952.06	0.06% 0.47%	0.00% 1.75%	8.92% 13.59%	8.92% 15.46%	0.0053% 0.0723%
WESTERN DIGITAL CORP	WDC	13,300.73	0.47 %	3.88%	1.90%	5.81%	0.0040%
WEC ENERGY GROUP INC	WEC	20,611.76	0.11%	3.03%	5.50%	8.62%	0.0092%
WELLS FARGO & CO	WFC	240,296.67	1.25%	3.27%	11.47%	14.93%	0.1866%
WHOLE FOODS MARKET INC	WFM	10,279.29	0.05%	1.69%	8.55%	10.31%	0.0055%
WHIRLPOOL CORP WILLIS TOWERS WATSON PLC	WHR WLTW	12,659.12 17,209.58	0.07% 0.09%	2.26% 1.54%	15.17% 21.47%	17.60% 23.18%	0.0116% 0.0207%
WASTE MANAGEMENT INC	WM	29,441.22	0.05%	2.47%	8.50%	11.08%	0.0207 %
WILLIAMS COS INC	WMB	16,234.82	0.08%	10.29%	-2.07%	8.11%	0.0068%
WAL-MART STORES INC	WMT	227,577.54	1.18%	2.73%	2.87%	5.64%	0.0668%
WESTROCK CO	WRK	9,818.94	0.05%	3.86%	2.85%	6.76%	0.0035%
WESTERN UNION CO	WU WY	9,420.00	0.05% 0.12%	3.34% 4.26%	6.80% 12.27%	10.25% 16.78%	0.0050%
WEYERHAEUSER CO WYNDHAM WORLDWIDE CORP	WYN	22,240.38 7,974.32	0.12%	4.26% 2.81%	7.65%	10.78%	0.0194% 0.0044%
WYNN RESORTS LTD	WYNN	9,226.33	0.05%	2.25%	10.00%	12.37%	0.0059%
CIMAREX ENERGY CO	XEC	11,313.33	0.06%	0.34%	-4.37%	-4.04%	-0.0024%
XCEL ENERGY INC	XEL	22,746.13	0.12%	3.04%	5.00%	8.12%	0.0096%
XL GROUP PLC XILINX INC	XL XLNX	9,439.01 11,684.36	0.05% 0.06%	2.48% 2.83%	9.00%	11.59% 11.18%	0.0057% 0.0068%
EXXON MOBIL CORP	XLNX XOM	388,703.35	2.02%	2.83% 3.18%	8.23% 13.71%	17.18%	0.0068%
DENTSPLY SIRONA INC	XRAY	14,531.69	0.08%	0.47%	9.92%	10.42%	0.0079%
XEROX CORP	XRX	9,613.39	0.05%	3.30%	11.60%	15.09%	0.0075%
XYLEM INC	XYL	7,987.77	0.04%	1.39%	15.00%	16.49%	0.0068%
YAHOO! INC YUM! BRANDS INC	YHOO YUM	35,678.96 33,784.99	0.19% 0.18%	0.00% 2.28%	4.93% 11.85%	4.93% 14.26%	0.0091% 0.0251%
ZIMMER BIOMET HOLDINGS INC	ZBH	24,037.33	0.18%	0.78%	10.49%	11.31%	0.0251%
ZIONS BANCORPORATION	ZION	5,142.19	0.03%	1.18%	9.00%	10.24%	0.0027%
ZOETIS INC	ZTS	23,549.76	0.12%	0.80%	13.93%	14.79%	0.0181%

19,232,690 13.09%

[1] Equals sum of Col. [9]
[2] Source: Bloomberg Professional
[3] Equals [1] - [2]
[4] Source: Bloomberg Professional
[5] Equals weight in S&P 500 based on market capitalization
[6] Source: Bloomberg Professional
[7] Source: Bloomberg Professional
[8] Equals ([6] x (1 + (0.5 x [7]))) + [7]
[9] Equals Col. [5] x Col. [8]

19,343,630.12

99.43%

#### Ex-Ante Market Risk Premium Market DCF Method Based - Value Line

[1]	[2]	[3]
S&P 500	Current 30-Year	
Est. Required	Treasury (30-day	Implied Market
Market Return	average)	Risk Premium
13.63%	2.50%	11.13%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
Сопрапу	rickei	Capitalization	weight in maex	Dividend field	GIOWIII ESI.	DCF Result	DCF Result
AGILENT TECHNOLOGIES INC	Α	15,195.37	0.09%	0.99%	4.50%	5.51%	0.0048%
ALCOA INC	AA	13,348.34	0.08%	1.18%	11.50%	12.75%	0.0097%
AMERICAN AIRLINES GROUP INC	AAL	17,763.01	N/A	1.32%	N/A	N/A	N/A
ADD F INC	AAP AAPL	11,396.03	0.06%	0.16% 2.43%	11.50%	11.67% 14.07%	0.0076%
APPLE INC ABBVIE INC	ABBV	526,478.70 99,160.27	3.00% 0.56%	3.72%	11.50% 13.00%	16.96%	0.4218% 0.0958%
AMERISOURCEBERGEN CORP	ABC	17,371.28	0.10%	1.75%	11.00%	12.85%	0.0127%
ABBOTT LABORATORIES	ABT	58,222.49	0.33%	2.62%	7.50%	10.22%	0.0339%
ACCENTURE PLC-CL A	ACN	76,896.48	0.44%	1.97%	6.50%	8.53%	0.0374%
ADOBE SYSTEMS INC	ADBE	48,171.68	0.27%	0.00%	35.50%	35.50%	0.0974%
ANALOG DEVICES INC	ADI	17,860.11	0.10%	2.89%	11.00%	14.05%	0.0143%
ARCHER-DANIELS-MIDLAND CO AUTOMATIC DATA PROCESSING	ADM ADP	25,070.77	0.14%	2.81%	6.00% 9.50%	8.89% 12.14%	0.0127% 0.0284%
ALLIANCE DATA SYSTEMS CORP	ADP	41,021.64 11,894.99	0.23% 0.07%	2.52% 0.00%	10.50%	10.50%	0.0264%
AUTODESK INC	ADSK	13,268.18	N/A	0.00%	N/A	N/A	N/A
AMEREN CORPORATION	AEE	12,493.90	0.07%	3.40%	6.00%	9.50%	0.0068%
AMERICAN ELECTRIC POWER	AEP	32,711.87	0.19%	3.45%	4.00%	7.52%	0.0140%
AES CORP	AES	7,973.88	0.05%	3.64%	8.50%	12.29%	0.0056%
AETNA INC	AET	42,422.60	0.24%	0.83%	9.50%	10.37%	0.0250%
AFLAC INC	AFL	29,799.12	0.17%	2.34%	4.50%	6.89%	0.0117%
ALLERGAN PLC	AGN	92,329.86	0.53%	0.00%	15.00%	15.00%	0.0789%
AMERICAN INTERNATIONAL GROUP APARTMENT INVT & MGMT CO -A	AIG AIV	61,862.68	0.35% N/A	2.34% 3.13%	5.00% N/A	7.40% N/A	0.0261% N/A
ASSURANT INC	AIZ	5,423.63	0.03%	2.31%	7.00%	9.39%	0.0029%
ARTHUR J GALLAGHER & CO	AJG	8,422.88	0.05%	3.20%	15.00%	18.44%	0.0088%
AKAMAI TECHNOLOGIES INC	AKAM	10,064.78	0.06%	0.00%	13.00%	13.00%	0.0075%
ALASKA AIR GROUP INC	ALK	7,328.22	0.04%	1.86%	13.50%	15.49%	0.0065%
ALLSTATE CORP	ALL	25,447.50	0.14%	1.95%	6.50%	8.51%	0.0123%
ALLEGION PLC	ALLE	6,629.58	0.04%	0.69%	10.50%	11.23%	0.0042%
ALEXION PHARMACEUTICALS INC	ALXN	27,704.64	0.16%	0.00%	27.50%	27.50%	0.0434%
APPLIED MATERIALS INC	AMAT	26,705.81	0.15%	1.63%	18.00%	19.78%	0.0301% 0.0043%
AMETEK INC AFFILIATED MANAGERS GROUP	AME AMG	11,079.97 8,903.45	0.06% 0.05%	0.76% 0.00%	6.00% 8.50%	6.78% 8.50%	0.0043%
AMGEN INC	AMGN	114,400.40	0.65%	2.76%	8.50%	11.38%	0.0741%
AMERIPRISE FINANCIAL INC	AMP	16.965.64	0.10%	2.95%	11.00%	14.11%	0.0136%
AMERICAN TOWER CORP	AMT	47,326.04	0.27%	2.01%	15.50%	17.67%	0.0476%
AMAZON.COM INC	AMZN	340,821.80	1.94%	0.00%	90.00%	90.00%	1.7467%
AUTONATION INC	AN	5,024.11	0.03%	0.00%	9.00%	9.00%	0.0026%
ANTHEM INC	ANTM	33,819.75	0.19%	2.02%	7.50%	9.60%	0.0185%
AON PLC	AON	28,836.72	0.16%	1.21%	12.00%	13.28%	0.0218%
APACHE CORP ANADARKO PETROLEUM CORP	APA APC	22,015.42 28,337.41	0.13% N/A	1.72% 0.36%	5.00% N/A	6.76% N/A	0.0085% N/A
AIR PRODUCTS & CHEMICALS INC	APD	31,552.14	0.18%	2.36%	12.00%	14.50%	0.0261%
AMPHENOL CORP-CL A	APH	18,320.46	0.10%	0.94%	8.00%	8.98%	0.0094%
ACTIVISION BLIZZARD INC	ATVI	28,723.23	0.16%	0.72%	8.00%	8.75%	0.0143%
AVALONBAY COMMUNITIES INC	AVB	-	N/A	3.15%	N/A	N/A	N/A
BROADCOM LTD	AVGO	62,625.39	0.36%	1.26%	23.00%	24.40%	0.0870%
AVERY DENNISON CORP	AVY	6,884.97	0.04%	2.17%	9.50%	11.77%	0.0046%
AMERICAN WATER WORKS CO INC	AWK	14,030.40	0.08%	1.90%	8.00%	9.98%	0.0080%
AMERICAN EXPRESS CO ACUITY BRANDS INC	AXP AYI	60,150.75 11,091.79	0.34% 0.06%	2.02% 0.20%	3.00% 19.50%	5.05% 19.72%	0.0173% 0.0125%
AUTOZONE INC	AZO	22,502.48	0.13%	0.00%	11.50%	11.50%	0.0123%
BOEING CO/THE	BA	85,447.28	0.49%	3.44%	10.50%	14.12%	0.0687%
BANK OF AMERICA CORP	BAC	144,789.80	0.82%	1.71%	22.00%	23.90%	0.1970%
BAXTER INTERNATIONAL INC	BAX	25,334.21	0.14%	1.13%	-4.50%	-3.40%	-0.0049%
BED BATH & BEYOND INC	BBBY	7,170.02	0.04%	1.14%	3.00%	4.16%	0.0017%
BB&T CORP	BBT	28,908.90	0.16%	3.25%	7.50%	10.87%	0.0179%
BEST BUY CO INC	BBY	9,859.32	0.06%	3.68%	8.00%	11.83%	0.0066%
CR BARD INC	BCR	16,913.96	0.10% 0.21%	0.45%	9.00%	9.47%	0.0091%
FRANKLIN RESOURCES INC	BDX BEN	36,539.06 20,268.52	0.12%	1.60% 2.26%	9.50% 4.50%	11.18% 6.81%	0.0233% 0.0079%
BROWN-FORMAN CORP-CLASS B	BF/B	19,706.96	0.11%	1.41%	8.00%	9.47%	0.0106%
BAKER HUGHES INC	BHI	20,656.40	0.12%	1.44%	30.00%	31.66%	0.0372%
BIOGEN INC	BIIB	52,269.95	0.30%	0.00%	10.50%	10.50%	0.0313%
BANK OF NEW YORK MELLON CORP	BK	44,742.03	0.25%	1.64%	11.00%	12.73%	0.0324%
BLACKROCK INC	BLK	58,376.02	0.33%	2.57%	8.00%	10.67%	0.0355%
BALL CORP	BLL	10,410.45	0.06%	0.71%	11.00%	11.75%	0.0070%
BRISTOL-MYERS SQUIBB CO	BMY PDK/P	120,655.00	0.69%	2.09%	17.50%	19.77%	0.1359%
BERKSHIRE HATHAWAY INC-CL B BOSTON SCIENTIFIC CORP	BRK/B BSX	359,874.30 31,114.41	N/A 0.18%	0.00% 0.00%	N/A 18.00%	N/A 18.00%	N/A 0.0319%
BORGWARNER INC	BWA	7,333.76	0.04%	1.54%	8.50%	10.11%	0.0042%
BOSTON PROPERTIES INC	BXP	- ,555.76	N/A	2.00%	N/A	N/A	N/A
CITIGROUP INC	С	130,486.90	0.74%	0.45%	12.00%	12.48%	0.0927%
CA INC	CA	13,849.80	0.08%	3.04%	4.50%	7.61%	0.0060%
CONAGRA FOODS INC	CAG	20,908.64	0.12%	2.09%	6.00%	8.15%	0.0097%
				2 200/.	14 000%	16 550/.	
CARDINAL HEALTH INC CATERPILLAR INC	CAH CAT	25,467.12 45,670.23	0.15% 0.26%	2.38% 3.94%	14.00% 5.00%	16.55% 9.04%	0.0240% 0.0235%

CHUBB LTD	CB	59,725.50	0.34%	2.15%	8.00%	10.24%	0.0348%
CBRE GROUP INC - A	CBG	10,062.14	0.06%	0.00%	10.00%	10.00%	0.0057%
CBS CORP-CLASS B NON VOTING	CBS	24,375.26	0.14%	1.12%	13.00%	14.19%	0.0197%
CROWN CASTLE INTL CORP	CCI	32,432.77	0.18%	3.87%	21.00%	25.28%	0.0467%
CARNIVAL CORP	CCL	37,266.80	0.21%	2.84%	15.50%	18.56%	0.0394%
CELGENE CORP	CELG	77,981.30	0.44%	0.00%	24.00%	24.00%	0.1066%
CERNER CORP	CERN	19,223.47	0.11%	0.00%	13.50%	13.50%	0.0148%
CF INDUSTRIES HOLDINGS INC	CF	6,442.30	0.04%	4.88%	8.00%	13.08%	0.0048%
CITIZENS FINANCIAL GROUP	CFG	11,700.02	N/A	2.17%	N/A	N/A	N/A
CHURCH & DWIGHT CO INC	CHD	12,882.26	0.07%	1.41%	7.00%	8.46%	0.0062%
CHESAPEAKE ENERGY CORP	CHK	3,169.94	N/A	0.00%	N/A	N/A	N/A
C.H. ROBINSON WORLDWIDE INC	CHRW	10,286.79	0.06%	2.39%	7.50%	9.98%	0.0058%
CIGNA CORP	CI	33,282.56	0.19%	0.03%	12.50%	12.53%	0.0238%
CINCINNATI FINANCIAL CORP	CINF	11,807.21	0.07%	2.67%	6.50%	9.26%	0.0062%
COLGATE-PALMOLIVE CO	CL	64,895.62	0.37%	2.15%	14.00%	16.30%	0.0602%
CLOROX COMPANY	CLX	17,355.54	0.10%	2.41%	8.50%	11.01%	0.0109%
COMERICA INC	CMA	7,787.47	0.04%	1.98%	6.50%	8.54%	0.0038%
COMCAST CORP-CLASS A	CMCSA	152,792.00	0.87%	1.75%	10.00%	11.84%	0.1030%
CME GROUP INC	CME	32,426.98	0.18%	2.50%	9.50%	12.12%	0.0224%
CHIPOTLE MEXICAN GRILL INC	CMG	12,000.10	0.07%	0.00%	13.50%	13.50%	0.0092%
CUMMINS INC	CMI	20,270.79	0.12%	3.28%	5.00%	8.36%	0.0097%
CMS ENERGY CORP	CMS	12,170.33	0.07%	2.94%	6.00%	9.03%	0.0063%
CENTENE CORP	CNC	11,904.16	0.07%	0.00%	19.50%	19.50%	0.0132%
CENTERPOINT ENERGY INC	CNP	10,115.12	0.06%	4.47%	2.00%	6.51%	0.0038%
CAPITAL ONE FINANCIAL CORP	COF	33,749.82	0.19%	2.44%	3.50%	5.98%	0.0115%
CABOT OIL & GAS CORP	COG	11,741.25	0.13%	0.32%	39.00%	39.38%	0.0263%
COACH INC	COH	11,235.50	0.06%	3.34%	4.50%	7.92%	0.0051%
ROCKWELL COLLINS INC	COL	11,320.02	0.06%	1.61%	8.00%	9.67%	0.0061%
CONOCOPHILLIPS	COP		0.32%	2.19%	6.50%	8.76%	0.0002 %
COSTCO WHOLESALE CORP	COST	56,507.59 68,836.93	0.32%	1.15%	9.00%	10.20%	0.0400%
CAMPBELL SOUP CO	CPB CPGX	19,355.76 10.201.76	0.11% N/A	2.00% 2.12%	5.50% N/A	7.56% N/A	0.0083% N/A
COLUMBIA PIPELINE GROUP		., .					
SALESFORCE.COM INC	CRM	55,744.70	N/A	0.00%	N/A	N/A	N/A
CISCO SYSTEMS INC	CSCO	147,093.50	0.84%	3.56%	6.00%	9.67%	0.0810%
CSRA INC	CSRA	4,002.10	N/A	1.63%	N/A	N/A	N/A
CSX CORP	CSX	25,808.41	0.15%	2.67%	7.00%	9.76%	0.0143%
CINTAS CORP	CTAS	10,244.95	0.06%	1.10%	11.00%	12.16%	0.0071%
CENTURYLINK INC	CTL	15,576.60	0.09%	7.57%	14.50%	22.62%	0.0201%
COGNIZANT TECH SOLUTIONS-A	CTSH	38,008.74	0.22%	0.00%	12.50%	12.50%	0.0271%
CITRIX SYSTEMS INC	CTXS	13,345.13	0.08%	0.00%	11.00%	11.00%	0.0084%
CVS HEALTH CORP	CVS	101,635.60	0.58%	1.81%	11.50%	13.41%	0.0776%
CHEVRON CORP	CVX	196,838.30	1.12%	4.10%	4.50%	8.69%	0.0974%
CONCHO RESOURCES INC	CXO	17,096.87	0.10%	0.00%	16.50%	16.50%	0.0161%
DOMINION RESOURCES INC/VA	D	44,148.15	0.25%	3.94%	8.00%	12.10%	0.0304%
DELTA AIR LINES INC	DAL	29,559.27	0.17%	2.09%	14.50%	16.74%	0.0282%
DU PONT (E.I.) DE NEMOURS	DD	60,448.64	0.34%	2.31%	7.00%	9.39%	0.0323%
DEERE & CO	DE	26,488.89	0.15%	2.85%	-1.50%	1.33%	0.0020%
DISCOVER FINANCIAL SERVICES	DFS	22,484.24	0.13%	2.06%	5.00%	7.11%	0.0091%
DOLLAR GENERAL CORP	DG	26,016.77	0.15%	1.15%	13.50%	14.73%	0.0218%
QUEST DIAGNOSTICS INC	DGX	11,354.73	0.06%	1.99%	10.00%	12.09%	0.0078%
DR HORTON INC	DHI	11,600.17	0.07%	1.02%	13.00%	14.09%	0.0093%
DANAHER CORP	DHR	N/A	N/A	0.00%	N/A	N/A	N/A
WALT DISNEY CO/THE	DIS	168,334.00	0.96%	1.43%	10.00%	11.50%	0.1102%
DISCOVERY COMMUNICATIONS-A	DISCA	10,698.84	0.06%	0.00%	17.00%	17.00%	0.0104%
DELPHI AUTOMOTIVE PLC	DLPH	19,348.80	0.11%	1.75%	14.50%	16.38%	0.0180%
DIGITAL REALTY TRUST INC	DLR	-	N/A	3.44%	N/A	N/A	N/A
DOLLAR TREE INC	DLTR	21,764.73	0.12%	0.00%	21.00%	21.00%	0.0260%
DUN & BRADSTREET CORP	DNB	4,631.43	0.03%	1.51%	5.00%	6.55%	0.0017%
DIAMOND OFFSHORE DRILLING	DO	3,547.22	0.02%	0.00%	11.50%	11.50%	0.0023%
DOVER CORP	DOV	11,117.98	0.06%	2.34%	2.00%	4.36%	0.0028%
DOW CHEMICAL CO/THE	DOW	60,273.41	0.34%	3.58%	9.50%	13.25%	0.0455%
DR PEPPER SNAPPLE GROUP INC	DPS	17,282.27	0.10%	2.31%	8.00%	10.40%	0.0102%
DARDEN RESTAURANTS INC	DRI	8,614.83	0.05%	2.94%	13.50%	16.64%	0.0082%
DTE ENERGY COMPANY	DTE	16,877.66	0.10%	3.28%	5.00%	8.36%	0.0080%
DUKE ENERGY CORP	DUK	56,532.45	0.32%	4.13%	4.50%	8.72%	0.0281%
DAVITA HEALTHCARE PARTNERS I	DVA	15,923.22	0.09%	0.00%	11.00%	11.00%	0.0100%
DEVON ENERGY CORP	DVN	20,331.20	0.12%	0.62%	1.00%	1.62%	0.0019%
ELECTRONIC ARTS INC	EA	22,860.78	0.13%	0.00%	17.00%	17.00%	0.0221%
EBAY INC	EBAY	28,403.55	0.16%	0.00%	3.50%	3.50%	0.0057%
ECOLAB INC	ECL	35,471.70	0.20%	1.16%	8.50%	9.71%	0.0196%
CONSOLIDATED EDISON INC	ED	22,596.84	0.13%	3.54%	1.50%	5.07%	0.0065%
EQUIFAX INC	EFX	15,108.24	0.09%	1.04%	9.50%	10.59%	0.0091%
EDISON INTERNATIONAL	EIX	24,106.76	0.14%	2.69%	3.50%	6.24%	0.0086%
ESTEE LAUDER COMPANIES-CL A	EL	35,052.88	0.20%	1.26%	8.00%	9.31%	0.0186%
EMC CORP/MA	EMC	54,410.58	0.31%	1.65%	3.50%	5.18%	0.0160%
EASTMAN CHEMICAL CO	EMN	10,789.86	0.06%	2.52%	9.50%	12.14%	0.0075%
EMERSON ELECTRIC CO	EMR	34,523.82	0.20%	3.54%	2.00%	5.58%	0.0110%
ENDO INTERNATIONAL PLC	ENDP	3,526.89	0.02%	0.00%	39.00%	39.00%	0.0078%
EOG RESOURCES INC	EOG	46,491.22	0.26%	0.91%	2.50%	3.42%	0.0091%
EQUINIX INC	EQIX	26,759.63	0.15%	1.82%	24.50%	26.54%	0.0404%
EQUITY RESIDENTIAL	EQR	-	N/A	3.10%	N/A	N/A	N/A
EQT CORP	EQT	12,648.38	0.07%	0.15%	12.00%	12.16%	0.0088%
EVERSOURCE ENERGY	ES	17,896.82	0.10%	3.26%	6.00%	9.36%	0.0095%
EXPRESS SCRIPTS HOLDING CO	ESRX	48,670.87	0.28%	0.00%	15.50%	15.50%	0.0430%
ESSEX PROPERTY TRUST INC	ESS	-	N/A	2.99%	N/A	N/A	N/A
E*TRADE FINANCIAL CORP	ETFC	7,320.79	0.04%	0.00%	17.50%	17.50%	0.0073%
EATON CORP PLC	ETN	28,771.56	0.16%	3.63%	5.00%	8.72%	0.0143%
ENTERGY CORP	ETR	13,966.07	0.08%	4.42%	3.50%	8.00%	0.0064%
EDWARDS LIFESCIENCES CORP	EW	20,995.05	0.12%	0.00%	17.00%	17.00%	0.0203%
EXELON CORP	EXC	32,223.90	0.18%	3.63%	7.00%	10.76%	0.0197%
EXPEDITORS INTL WASH INC	EXPD	8,898.35	0.05%	1.63%	11.00%	12.72%	0.0064%
EXPEDIA INC	EXPE	16,460.71	0.09%	0.87%	23.00%	23.97%	0.0225%
EXTRA SPACE STORAGE INC	EXR	-	N/A	3.59%	N/A	N/A	N/A

FORD MOTOR CO	F	53,235.99	0.30%	4.48%	7.00%	11.64%	0.0353%
FASTENAL CO	FAST	13,161.05	0.07%	2.63%	7.00%	9.72%	0.0073%
FACEBOOK INC-A	FB	329,128.80	1.87%	0.00%	34.00%	34.00%	0.6372%
FORTUNE BRANDS HOME & SECURI	FBHS	8,717.89	0.05%	1.13%	15.00%	16.21%	0.0080%
FREEPORT-MCMORAN INC	FCX	14,736.04	0.08%	0.00%	36.50%	36.50%	0.0306%
FEDEX CORP	FDX		0.29%	1.01%			
	FE	50,209.02			12.50%	13.57%	0.0388%
FIRSTENERGY CORP		14,083.45	0.08%	4.34%	9.00%	13.54%	0.0109%
F5 NETWORKS INC	FFIV	8,134.17	0.05%	0.00%	9.00%	9.00%	0.0042%
FIDELITY NATIONAL INFO SERV	FIS	24,020.75	0.14%	1.41%	13.50%	15.01%	0.0205%
FISERV INC	FISV	23,555.49	0.13%	0.00%	9.50%	9.50%	0.0127%
FIFTH THIRD BANCORP	FITB	14,723.70	0.08%	2.93%	3.00%	5.97%	0.0050%
FOOT LOCKER INC	FL	7,226.46	0.04%	2.07%	9.00%	11.16%	0.0046%
FLIR SYSTEMS INC	FLIR	4,342.20	0.02%	1.59%	8.00%	9.65%	0.0024%
FLUOR CORP	FLR		0.04%	1.59%			0.0013%
		7,376.04			1.50%	3.10%	
FLOWSERVE CORP	FLS	6,517.90	0.04%	1.51%	2.50%	4.03%	0.0015%
FMC CORP	FMC	6,593.97	0.04%	1.38%	4.50%	5.91%	0.0022%
TWENTY-FIRST CENTURY FOX-A	FOXA	31,995.17	0.18%	1.03%	10.50%	11.58%	0.0211%
FEDERAL REALTY INVS TRUST	FRT	-	N/A	2.52%	N/A	N/A	N/A
FIRST SOLAR INC	FSLR	4,972.96	0.03%	0.00%	8.50%	8.50%	0.0024%
FMC TECHNOLOGIES INC	FTI	6,358.48	0.04%	0.00%	-1.00%	-1.00%	-0.0004%
FRONTIER COMMUNICATIONS CORP	FTR	5,980.56	0.03%	8.24%	13.50%	22.30%	0.0076%
AGL RESOURCES INC	GAS	7,962.40	0.05%	3.21%	5.00%	8.29%	0.0038%
GENERAL DYNAMICS CORP	GD	42,723.34	0.24%	2.18%	7.00%	9.26%	0.0225%
GENERAL ELECTRIC CO	GE	286,812.50	1.63%	2.95%	9.50%	12.59%	0.2056%
GENERAL GROWTH PROPERTIES	GGP	-	N/A	2.69%	N/A	N/A	N/A
GILEAD SCIENCES INC	GILD	112,382.80	0.64%	2.26%	10.00%	12.37%	0.0792%
GENERAL MILLS INC	GIS	39,634.68	0.23%	2.76%	5.00%	7.83%	0.0177%
CORNING INC	GLW	22,349.25	0.13%	2.60%	6.00%	8.68%	0.0110%
GENERAL MOTORS CO	GM	45,917.58	0.26%	5.10%	11.00%	16.38%	0.0428%
ALPHABET INC-CL A	GOOGL	N/A	N/A	0.00%	N/A	N/A	N/A
	GPC		0.08%				0.0083%
GENUINE PARTS CO GLOBAL PAYMENTS INC	GPN	14,874.02		2.65%	7.00%	9.74%	
		9,809.47	0.06%	0.05%	14.00%	14.05%	0.0079%
GAP INC/THE	GPS	8,330.14	0.05%	4.44%	1.50%	5.97%	0.0028%
GARMIN LTD	GRMN	8,188.27	0.05%	4.76%	-1.00%	3.74%	0.0017%
GOLDMAN SACHS GROUP INC	GS	63,746.54	0.36%	1.70%	7.00%	8.76%	0.0318%
GOODYEAR TIRE & RUBBER CO	GT	7,291.06	0.04%	1.13%	8.50%	9.68%	0.0040%
WW GRAINGER INC	GWW	13,856.93	0.08%	2.16%	6.00%	8.22%	0.0065%
HALLIBURTON CO	HAL	39,330.72	0.22%	1.57%	8.00%	9.63%	0.0216%
HARMAN INTERNATIONAL	HAR						
		5,420.74	0.03%	1.82%	17.00%	18.97%	0.0059%
HASBRO INC	HAS	10,763.36	0.06%	2.37%	11.00%	13.50%	0.0083%
HUNTINGTON BANCSHARES INC	HBAN	7,512.78	0.04%	3.29%	9.00%	12.44%	0.0053%
HANESBRANDS INC	HBI	9,992.77	0.06%	1.66%	11.50%	13.26%	0.0075%
HCA HOLDINGS INC	HCA	31,393.59	0.18%	0.00%	11.00%	11.00%	0.0197%
WELLTOWER INC	HCN	-	N/A	4.78%	N/A	N/A	N/A
HCP INC	HCP	_	0.00%	6.74%	74.00%	83.23%	0.0000%
HOME DEPOT INC	HD	159,721.10	0.91%	2.15%	12.50%	14.78%	0.1345%
HESS CORP	HES	18,930.29	0.11%	1.67%	-1.00%	0.66%	0.0007%
	HIG						
HARTFORD FINANCIAL SVCS GRP		17,786.31	0.10%	1.87%	11.50%	13.48%	0.0137%
HARLEY-DAVIDSON INC	HOG	8,485.88	0.05%	2.99%	9.00%	12.12%	0.0059%
HOLOGIC INC	HOLX	9,965.05	0.06%	0.00%	21.00%	21.00%	0.0119%
HONEYWELL INTERNATIONAL INC	HON	89,411.34	0.51%	2.03%	8.50%	10.62%	0.0541%
STARWOOD HOTELS & RESORTS	HOT	12,871.33	0.07%	1.98%	5.50%	7.53%	0.0055%
HELMERICH & PAYNE	HP	7,473.06	0.04%	4.05%	-6.00%	-2.07%	-0.0009%
HEWLETT PACKARD ENTERPRIS	HPE	33,876.60	N/A	1.12%	N/A	N/A	N/A
HP INC	HPQ	22,157.45	N/A	3.86%	N/A	N/A	N/A
H&R BLOCK INC			0.03%		8.00%		0.0035%
	HRB	5,127.65		3.85%		12.00%	
HORMEL FOODS CORP	HRL	18,334.22	0.10%	1.79%	14.00%	15.92%	0.0166%
HARRIS CORP	HRS	10,473.83	0.06%	2.47%	7.50%	10.06%	0.0060%
HENRY SCHEIN INC	HSIC	14,574.67	0.08%	0.00%	9.00%	9.00%	0.0075%
HOST HOTELS & RESORTS INC	HST	-	N/A	4.72%	N/A	N/A	N/A
HERSHEY CO/THE	HSY	20,796.21	0.12%	2.40%	6.00%	8.47%	0.0100%
HUMANA INC	HUM	27,915.93	0.16%	0.62%	9.50%	10.15%	0.0161%
INTL BUSINESS MACHINES CORP	IBM	149,130.10	0.85%	3.64%	0.50%	4.15%	0.0352%
INTERCONTINENTAL EXCHANGE IN	ICE	30,469.95	0.17%	1.33%	14.00%	15.42%	0.0268%
INTL FLAVORS & FRAGRANCES	IFF	10,150.16	0.06%	1.76%	4.50%	6.30%	0.0036%
ILLUMINA INC						22.50%	
	ILMN	21,578.05	0.12%	0.00%	22.50%		0.0276%
INTEL CORP	INTC	155,580.80	0.89%	3.15%	9.50%	12.80%	0.1134%
INTUIT INC	INTU	28,378.53	0.16%	1.10%	13.00%	14.17%	0.0229%
INTERNATIONAL PAPER CO	IP	17,799.25	0.10%	4.07%	15.00%	19.38%	0.0196%
INTERPUBLIC GROUP OF COS INC	IPG	9,899.16	0.06%	2.56%	13.00%	15.73%	0.0089%
INGERSOLL-RAND PLC	IR	17,056.41	0.10%	1.93%	8.50%	10.51%	0.0102%
IRON MOUNTAIN INC	IRM	8,179.07	0.05%	5.03%	13.00%	18.36%	0.0085%
INTUITIVE SURGICAL INC	ISRG	25,196.29	0.14%	0.00%	11.50%	11.50%	0.0165%
ILLINOIS TOOL WORKS	ITW	38,387.91	0.22%	2.06%	10.00%	12.16%	0.0266%
INVESCO LTD	IVZ	14,525.65	0.08%	3.78%	7.00%	10.91%	0.0090%
HUNT (JB) TRANSPRT SVCS INC	JBHT	9,096.81	0.05%	1.09%	11.00%	12.15%	0.0063%
			0.05%				
JOHNSON CONTROLS INC	JCI	29,170.16		2.58%	9.50%	12.20%	0.0203%
JACOBS ENGINEERING GROUP INC	JEC	6,485.95	0.04%	0.00%	4.00%	4.00%	0.0015%
JOHNSON & JOHNSON	JNJ	322,995.20	1.84%	2.77%	8.50%	11.39%	0.2094%
JUNIPER NETWORKS INC	JNPR	9,286.65	0.05%	1.79%	10.00%	11.88%	0.0063%
JPMORGAN CHASE & CO	JPM	234,209.00	1.33%	3.00%	6.50%	9.60%	0.1280%
NORDSTROM INC	JWN	6,632.55	0.04%	3.92%	4.00%	8.00%	0.0030%
KELLOGG CO	K	27,240.50	0.16%	2.62%	5.00%	7.69%	0.0119%
KEYCORP	KEY	10,099.06	0.06%	2.84%	7.50%	10.45%	0.0060%
KRAFT HEINZ CO/THE	KHC	104,851.30	N/A	2.72%	N/A	N/A	N/A
KIMCO REALTY CORP	KIM		N/A	3.57%	N/A	N/A	N/A
		11 654 75					
KLA-TENCOR CORP	KLAC	11,654.75	0.07%	2.78%	12.50%	15.45%	0.0103%
KIMBERLY-CLARK CORP	KMB	48,242.74	0.27%	2.75%	10.00%	12.89%	0.0354%
KINDER MORGAN INC	KMI	42,132.49	0.24%	2.65%	13.00%	15.82%	0.0380%
CARMAX INC	KMX	9,147.57	0.05%	0.00%	12.50%	12.50%	0.0065%
COCA-COLA CO/THE	KO	195,286.60	1.11%	3.11%	4.00%	7.17%	0.0798%
MICHAEL KORS HOLDINGS LTD	KORS	9,117.41	0.05%	0.00%	9.00%	9.00%	0.0047%
KROGER CO	KR	33,525.89	0.19%	1.36%	10.50%	11.93%	0.0228%

KOHLS CORP	KSS	6,892.65	0.04%	5.44%	8.00%	13.66%	0.0054%
KANSAS CITY SOUTHERN	KSU	9,838.50	0.06%	1.45%	9.00%	10.52%	0.0059%
LOEWS CORP	L	13,763.21	0.08%	0.61%	12.50%	13.15%	0.0103%
L BRANDS INC	LB	19,915.20	0.11%	3.47%	8.00%	11.61%	0.0132%
LEGGETT & PLATT INC	LEG	6,865.40	0.04%	2.66%	11.00%	13.81%	0.0054%
LENNAR CORP-A	LEN	10,001.15	0.06%	0.34%	12.50%	12.86%	0.0073%
LABORATORY CRP OF AMER HLDGS	LH	13,393.48	0.08%	0.00%	9.50%	9.50%	0.0072%
LKQ CORP	LKQ	10,302.21	0.06%	0.00%	15.00%	15.00%	0.0088%
L-3 COMMUNICATIONS HOLDINGS	LLL	11,161.85	0.06%	1.94%	6.50%	8.50%	0.0054%
LINEAR TECHNOLOGY CORP	LLTC	11,399.80	0.06%	2.69%	5.50%	8.26%	0.0054%
ELI LILLY & CO	LLY	81,617.71	0.46%	2.76% 2.70%	9.50%	12.39%	0.0576%
LEGG MASON INC	LM	3,512.10	0.02%		10.50%	13.34%	0.0027%
LOCKHEED MARTIN CORP LINCOLN NATIONAL CORP	LMT	73,068.72	0.42% 0.06%	2.88% 2.34%	8.00% 7.00%	11.00%	0.0457% 0.0057%
LOWE'S COS INC	LNC LOW	10,604.65	0.40%	1.78%	14.00%	9.42%	
LAM RESEARCH CORP	LRCX	70,241.59 13,889.43	0.40%	1.38%	16.00%	15.90% 17.49%	0.0636% 0.0138%
LEUCADIA NATIONAL CORP	LUK	N/A	0.06 /6 N/A	0.00%	N/A	N/A	0.013676 N/A
SOUTHWEST AIRLINES CO	LUV	26,473.32	0.15%	1.01%	17.50%	18.60%	0.0280%
LEVEL 3 COMMUNICATIONS INC	LVLT	18,724.91	0.13%	0.00%	38.00%	38.00%	0.0405%
LYONDELLBASELL INDU-CL A	LYB	33,845.89	0.11%	4.30%	6.50%	10.94%	0.0211%
MACY'S INC	M	10,294.22	0.06%	4.52%	3.00%	7.59%	0.0044%
MASTERCARD INC-CLASS A	MA	105,472.40	0.60%	0.79%	11.00%	11.83%	0.0711%
MACERICH CO/THE	MAC	-	N/A	3.39%	N/A	N/A	N/A
MARRIOTT INTERNATIONAL -CL A	MAR	17,529.30	0.10%	1.74%	12.50%	14.35%	0.0143%
MASCO CORP	MAS	10,347.48	0.06%	1.21%	14.50%	15.80%	0.0093%
MATTEL INC	MAT	11,022.15	0.06%	4.69%	6.50%	11.34%	0.0071%
MCDONALD'S CORP	MCD	106,398.10	0.61%	2.97%	6.00%	9.06%	0.0549%
MICROCHIP TECHNOLOGY INC	MCHP	10,752.89	0.06%	2.73%	8.00%	10.84%	0.0066%
MCKESSON CORP	MCK	42,060.01	0.24%	0.61%	12.00%	12.65%	0.0303%
MOODY'S CORP	MCO	19,763.05	0.11%	1.46%	7.50%	9.01%	0.0101%
MONDELEZ INTERNATIONAL INC-A	MDLZ	69,723.36	0.40%	1.65%	11.50%	13.24%	0.0526%
MEDTRONIC PLC	MDT	120,167.50	0.68%	1.84%	7.00%	8.90%	0.0609%
METLIFE INC	MET	48,521.94	0.28%	3.62%	6.50%	10.24%	0.0283%
MOHAWK INDUSTRIES INC	MHK	14,657.12	0.08%	0.00%	10.50%	10.50%	0.0088%
MEAD JOHNSON NUTRITION CO	MJN	16,543.49	0.09%	1.86%	6.50%	8.42%	0.0079%
MCCORMICK & CO-NON VTG SHRS	MKC	12,997.43	0.07%	1.68%	7.50%	9.24%	0.0068%
MARTIN MARIETTA MATERIALS	MLM	11,935.77	0.07%	0.85%	24.50%	25.45%	0.0173%
MARSH & MCLENNAN COS	MMC	35,416.49	0.20%	2.00%	9.00%	11.09%	0.0224%
3M CO	MMM	105,600.30	0.60%	2.55%	8.50%	11.16%	0.0671%
MALLINCKRODT PLC	MNK	6,417.92	N/A	0.00%	N/A	N/A	N/A
MONSTER BEVERAGE CORP	MNST	31,962.72	0.18%	0.00%	13.50%	13.50%	0.0246%
ALTRIA GROUP INC	MO	129,749.40	0.74%	3.44%	9.50%	13.10%	0.0968%
MONSANTO CO	MON	47,669.84	0.27%	1.98%	6.00%	8.04%	0.0218%
MOSAIC CO/THE	MOS	9,794.34	0.06%	4.29%	5.00%	9.40%	0.0052%
MARATHON PETROLEUM CORP	MPC	19,408.60	0.11%	3.55%	6.50%	10.17%	0.0112%
MERCK & CO. INC.	MRK	159,747.80	0.91%	3.19%	6.00%	9.29%	0.0845%
MARATHON OIL CORP	MRO	12,943.58	0.07%	1.31%	9.00%	10.37%	0.0076%
MORGAN STANLEY	MS MSFT	52,896.05	0.30%	2.20%	14.50%	16.86%	0.0508%
MICROSOFT CORP		408,531.70	2.33%	2.77%	7.00%	9.87%	0.2295%
MOTOROLA SOLUTIONS INC M & T BANK CORP	MSI MTB	11,874.54 19,161.59	0.07% 0.11%	2.54% 2.33%	9.00% 5.00%	11.65% 7.39%	0.0079% 0.0081%
MICRON TECHNOLOGY INC	MU	15,314.50	0.11%	0.00%	1.00%	1.00%	0.0001%
MURPHY OIL CORP	MUR	5,580.84	0.09 /6 N/A	4.32%	N/A	N/A	0.0009 /s N/A
MYLAN NV	MYL	22,681.18	0.13%	0.00%	20.50%	20.50%	0.0265%
NAVIENT CORP	NAVI	4,075.50	N/A	5.18%	N/A	N/A	N/A
NOBLE ENERGY INC	NBL	15,999.35	N/A	1.08%	N/A	N/A	N/A
NASDAQ INC	NDAQ	10,595.64	0.06%	1.99%	10.00%	12.09%	0.0073%
NEXTERA ENERGY INC	NEE	57,076.41	0.33%	2.90%	6.00%	8.99%	0.0292%
NEWMONT MINING CORP	NEM	18,775.49	0.11%	0.28%	-1.00%	-0.72%	-0.0008%
NETFLIX INC	NFLX	39.256.97	0.22%	0.00%	35.00%	35.00%	0.0782%
NEWFIELD EXPLORATION CO	NFX	8,506.06	0.05%	0.00%	11.50%	11.50%	0.0056%
NISOURCE INC	NI	8,091.85	0.05%	2.62%	1.50%	4.14%	0.0019%
NIKE INC -CL B	NKE	91,192.20	0.52%	1.18%	15.00%	16.27%	0.0845%
NIELSEN HOLDINGS PLC	NLSN	19,388.05	0.11%	2.31%	9.00%	11.41%	0.0126%
NORTHROP GRUMMAN CORP	NOC	38,823.99	0.22%	1.68%	7.50%	9.24%	0.0204%
NATIONAL OILWELL VARCO INC	NOV	13,762.91	0.08%	0.55%	-9.00%	-8.47%	-0.0066%
NRG ENERGY INC	NRG	4,575.58	N/A	0.83%	N/A	N/A	N/A
NORFOLK SOUTHERN CORP	NSC	25,729.21	0.15%	2.71%	6.50%	9.30%	0.0136%
NETAPP INC	NTAP	7,571.82	N/A	2.92%	N/A	N/A	N/A
NORTHERN TRUST CORP	NTRS	16,322.85	0.09%	2.01%	7.50%	9.59%	0.0089%
NUCOR CORP	NUE	16,055.42	0.09%	2.97%	24.50%	27.83%	0.0254%
NVIDIA CORP	NVDA	25,893.66	0.15%	0.95%	11.50%	12.50%	0.0184%
NEWELL BRANDS INC	NWL	13,265.17	0.08%	1.54%	14.00%	15.65%	0.0118%
NEWS CORP - CLASS A	NWSA	6,877.82	0.04%	1.69%	27.50%	29.42%	0.0115%
REALTY INCOME CORP	0		N/A	3.72%	N/A	N/A	N/A
OWENS-ILLINOIS INC	OI	3,206.00	0.02%	0.00%	6.00%	6.00%	0.0011%
ONEOK INC	OKE	9,845.24	0.06%	5.36%	12.50%	18.20%	0.0102%
OMNICOM GROUP ORACLE CORP	OMC ORCL	20,199.24 169,439.00	0.12% 0.96%	2.66% 1.47%	9.00% 4.50%	11.78% 6.00%	0.0135% 0.0579%
O'REILLY AUTOMOTIVE INC	ORCL	25,560.11	0.96%	0.00%	4.50% 11.00%	11.00%	0.0579%
OCCIDENTAL PETROLEUM CORP	OXY	59,816.31	0.15%	3.91%	4.00%	7.99%	0.0160%
PAYCHEX INC	PAYX	20,271.21	0.34%	3.20%	9.00%	12.34%	0.0272%
PEOPLE'S UNITED FINANCIAL	PBCT	4,940.06	0.03%	4.27%	10.50%	14.99%	0.0042%
PITNEY BOWES INC	PBI	3,498.79	0.03%	4.12%	4.00%	8.20%	0.0016%
PACCAR INC	PCAR	19,745.04	0.11%	3.90%	7.00%	11.04%	0.0124%
P G & E CORP	PCG	30,792.06	0.18%	3.16%	12.00%	15.35%	0.0269%
PRICELINE GROUP INC/THE	PCLN	69,006.74	0.39%	0.00%	15.50%	15.50%	0.0609%
PATTERSON COS INC	PDCO	4,801.85	0.03%	2.04%	9.50%	11.64%	0.0032%
PUBLIC SERVICE ENTERPRISE GP	PEG	22,371.50	0.13%	3.75%	3.00%	6.81%	0.0087%
PEPSICO INC	PEP	151,020.30	0.86%	2.88%	7.00%	9.98%	0.0858%
PFIZER INC	PFE	209,783.10	1.19%	3.47%	12.00%	15.68%	0.1873%
PRINCIPAL FINANCIAL GROUP	PFG	12,928.61	0.07%	3.50%	5.00%	8.59%	0.0063%
PROCTER & GAMBLE CO/THE	PG	224,154.60	1.28%	3.18%	6.50%	9.78%	0.1249%

PROGRESSIVE CORP							
	PGR	18,941.67	0.11%	2.74%	8.50%	11.36%	0.0122%
PARKER HANNIFIN CORP	PH	15,354.98	0.09%	2.21%	5.50%	7.77%	0.0068%
	PHM		0.04%			13.04%	
PULTEGROUP INC		7,001.58		1.93%	11.00%		0.0052%
PERKINELMER INC	PKI	5,911.88	0.03%	0.52%	6.50%	7.04%	0.0024%
PROLOGIS INC	PLD	-	N/A	3.35%	N/A	N/A	N/A
PHILIP MORRIS INTERNATIONAL	PM	158,073.20	0.90%	4.00%	5.00%	9.10%	0.0819%
PNC FINANCIAL SERVICES GROUP	PNC	43,248.33	0.25%	2.35%	4.00%	6.40%	0.0158%
PENTAIR PLC	PNR	11,114.86	0.06%	2.15%	12.50%	14.78%	0.0094%
PINNACLE WEST CAPITAL	PNW	8,592.23	0.05%	3.31%	4.00%	7.38%	0.0036%
PPG INDUSTRIES INC	PPG	29,591.53	0.17%	1.44%	9.50%	11.01%	0.0185%
PPL CORP	PPL	26,334.60	0.15%	3.93%	4.00%	8.01%	0.0120%
PERRIGO CO PLC	PRGO		0.08%	0.61%	15.00%	15.66%	0.0124%
		13,937.28					
PRUDENTIAL FINANCIAL INC	PRU	34,100.08	0.19%	3.64%	2.00%	5.68%	0.0110%
PUBLIC STORAGE	PSA	-	N/A	2.99%	N/A	N/A	N/A
PHILLIPS 66	PSX	42,503.73	0.24%	3.18%	2.50%	5.72%	0.0138%
PVH CORP	PVH	8,320.40	0.05%	0.15%	5.50%	5.65%	0.0027%
QUANTA SERVICES INC	PWR	3,702.43	0.02%	0.00%	8.50%	8.50%	0.0018%
PRAXAIR INC	PX	32,862.53	0.19%	2.69%	6.50%	9.28%	0.0174%
PIONEER NATURAL RESOURCES CO	PXD	26,265.62	0.15%	0.05%	18.50%	18.55%	0.0278%
PAYPAL HOLDINGS INC	PYPL	44,285.29	N/A	0.00%	N/A	N/A	N/A
QUALCOMM INC	QCOM	81,491.85	0.46%	3.82%	4.50%	8.41%	0.0390%
QORVO INC	QRVO	7,987.33	N/A	0.00%	N/A	N/A	N/A
RYDER SYSTEM INC	R	3,536.34	0.02%	2.49%	9.00%	11.60%	0.0023%
REYNOLDS AMERICAN INC	RAI	72,566.01	0.41%	3.30%	10.00%	13.47%	0.0556%
ROYAL CARIBBEAN CRUISES LTD	RCL	16,652.52	0.09%	1.94%	16.50%	18.60%	0.0176%
REGENERON PHARMACEUTICALS	REGN	36,813.99	0.21%	0.00%	23.00%	23.00%	0.0482%
REGIONS FINANCIAL CORP	RF	12,046.98	0.07%	2.86%	7.50%	10.47%	0.0072%
ROBERT HALF INTL INC	RHI	5,212.01	0.03%	2.24%	11.00%	13.36%	0.0040%
RED HAT INC	RHT						
		14,203.09	0.08%	0.00%	16.50%	16.50%	0.0133%
TRANSOCEAN LTD	RIG	4,391.94	0.03%	0.00%	-19.00%	-19.00%	-0.0048%
RALPH LAUREN CORP	RL	8,062.03	0.05%	2.16%	4.50%	6.71%	0.0031%
ROCKWELL AUTOMATION INC	ROK	15,699.42	0.09%	2.41%	3.00%	5.45%	0.0049%
							0.0077%
ROPER TECHNOLOGIES INC	ROP	17,498.66	0.10%	0.69%	7.00%	7.71%	
ROSS STORES INC	ROST	21,601.51	0.12%	1.04%	9.00%	10.09%	0.0124%
RANGE RESOURCES CORP	RRC	7,711.03	0.04%	0.18%	12.00%	12.19%	0.0054%
REPUBLIC SERVICES INC	RSG	17,173.32	0.10%	2.53%	8.50%	11.14%	0.0109%
RAYTHEON COMPANY	RTN	40,044.51	0.23%	2.17%	9.00%	11.27%	0.0257%
STARBUCKS CORP	SBUX	82,202.38	0.47%	1.59%	16.50%	18.22%	0.0853%
SCANA CORP	SCG	10,197.13	0.06%	3.27%	4.50%	7.84%	0.0046%
SCHWAB (CHARLES) CORP	SCHW	39,234.18	0.22%	0.94%	12.00%	13.00%	0.0290%
SPECTRA ENERGY CORP	SE	23,981.04	0.14%	4.62%	11.50%	16.39%	0.0224%
SEALED AIR CORP	SEE	9,433.96	0.05%	1.34%	16.00%	17.45%	0.0094%
SHERWIN-WILLIAMS CO/THE	SHW	26,724.58	0.15%	1.22%	11.00%	12.29%	0.0187%
SIGNET JEWELERS LTD	SIG	6,786.30	0.04%	1.20%	15.00%	16.29%	0.0063%
JM SMUCKER CO/THE	SJM	17,541.03	0.10%	1.89%	7.00%	8.96%	0.0089%
SCHLUMBERGER LTD	SLB	99,673.26	0.57%	2.51%	10.00%	12.64%	0.0717%
		99,073.20					
SL GREEN REALTY CORP	SLG	-	N/A	2.73%	N/A	N/A	N/A
SNAP-ON INC	SNA	9,047.59	0.05%	1.57%	10.00%	11.65%	0.0060%
SCRIPPS NETWORKS INTER-CL A	SNI	8,019.46	0.05%	1.61%	9.00%	10.68%	0.0049%
SOUTHERN CO/THE	SO	46,903.71	0.27%	4.43%	2.50%	6.99%	0.0187%
		40,903.71					
SIMON PROPERTY GROUP INC	SPG	-	N/A	3.06%	N/A	N/A	N/A
S&P GLOBAL INC	SPGI	29,258.99	0.17%	1.30%	11.00%	12.37%	0.0206%
STAPLES INC	SPLS	5,784.27	N/A	5.36%	N/A	N/A	N/A
STERICYCLE INC	SRCL	8,769.73	0.05%	0.00%	9.00%	9.00%	0.0045%
SEMPRA ENERGY							0.0203%
	SRE	27,658.92	0.16%	2.77%	10.00%	12.91%	
SUNTRUST BANKS INC	STI	21,840.19	0.12%	2.36%	7.00%	9.44%	0.0117%
ST JUDE MEDICAL INC	STJ	22,281.27	0.13%	1.63%	5.50%	7.17%	0.0091%
STATE STREET CORP	STT	23,840.58	0.14%	2.39%	5.50%	7.96%	0.0108%
		7,306.30				8.19%	
SEAGATE TECHNOLOGY	STX		0.04%				
CONSTELLATION BRANDS INC-A	STZ			10.29%	-2.00%		0.0034%
STANLEY BLACK & DECKER INC		31,077.11	0.18%	1.04%	16.50%	17.63%	0.0312%
	SWK	17,270.96	0.18% 0.10%				
SKYWORKS SOLUTIONS INC		17,270.96		1.04% 1.91%	16.50% 8.50%	17.63% 10.49%	0.0312%
	SWKS	17,270.96 12,783.34	0.10% 0.07%	1.04% 1.91% 1.55%	16.50% 8.50% 17.50%	17.63% 10.49% 19.19%	0.0312% 0.0103% 0.0140%
SOUTHWESTERN ENERGY CO	SWKS SWN	17,270.96 12,783.34 5,287.44	0.10% 0.07% 0.03%	1.04% 1.91% 1.55% 0.00%	16.50% 8.50% 17.50% -5.00%	17.63% 10.49% 19.19% -5.00%	0.0312% 0.0103% 0.0140% -0.0015%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL	SWKS SWN SYF	17,270.96 12,783.34 5,287.44 21,679.58	0.10% 0.07% 0.03% N/A	1.04% 1.91% 1.55% 0.00% 0.00%	16.50% 8.50% 17.50% -5.00% N/A	17.63% 10.49% 19.19% -5.00% N/A	0.0312% 0.0103% 0.0140% -0.0015% N/A
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP	SWKS SWN SYF SYK	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12	0.10% 0.07% 0.03% N/A 0.25%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28%	16.50% 8.50% 17.50% -5.00% N/A 18.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL	SWKS SWN SYF SYK SYMC	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88	0.10% 0.07% 0.03% N/A	1.04% 1.91% 1.55% 0.00% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00%	17.63% 10.49% 19.19% -5.00% N/A	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP	SWKS SWN SYF SYK	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12	0.10% 0.07% 0.03% N/A 0.25%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28%	16.50% 8.50% 17.50% -5.00% N/A 18.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP	SWKS SWN SYF SYK SYMC SYY	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC	SWKS SWN SYF SYK SYMC SYY T	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.1656%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B	SWKS SWN SYF SYK SYMC SYY T	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.1656% 0.0121%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP	SWKS SWN SYF SYK SYMC SYY T TAP TDC	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66 3,695.66	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.1656% 0.0121% 0.0007%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B	SWKS SWN SYF SYK SYMC SYY T	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.1656% 0.0121%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66 3,695.66 14,054.79	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.1656% 0.0121% 0.0007%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66 3,695.66 14,054.79 6,516.29	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0023% 0.1656% 0.0121% 0.0007% 0.0164%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD	SWKS SWM SYF SYK SYMC SYY T TAP TDC TDG TE TEL	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 9.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.1656% 0.0121% 0.0007% 0.01644% 0.0041%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 9.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.00417% 0.0010%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66 3,695.66 14,054.79 6,516.29 22,522.56 4,984.92 41,420.29	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 9.00% 1.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.0121% 0.0007% 0.0164% 0.0041% 0.0041% 0.00435%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 9.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.00417% 0.0010%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.04%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44% 3.44% 3.87%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 9.00% 11.00% 17.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.0121% 0.0007% 0.0164% 0.0041% 0.0041% 0.00435%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.24% 0.29%	1.04% 1.91% 1.55% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 1.00% 11.00% 7.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 20.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.1656% 0.0121% 0.0017% 0.0164% 0.0041% 0.0041% 0.0041% 0.0047% 0.0047% 0.00330%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66 3,695.66 14,054.79 6,516.29 22,522.56 4,984.92 41,420.29 7,891.38 50,824.06 7,554.99	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.99%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 9.00% 1.00% 11.00% 7.50% 10.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.0121% 0.0007% 0.0164% 0.0147% 0.00147% 0.0015% 0.0047% 0.0035% 0.00330%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.29% 0.29%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 2.35% 2.44% 2.44% 2.87% 1.35% 0.99% 0.99%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 9.00% 1.00% 1.00% 7.50% 10.00% 7.50% 9.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.0047% 0.0034% 0.0330% 0.0034% 0.0034%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK	17,270.96 12,783.34 5,287.44 21,679.58 44,274.12 12,998.88 28,411.44 257,822.60 21,888.66 3,695.66 14,054.79 6,516.29 22,522.56 4,984.92 41,420.29 7,891.38 50,824.06 7,554.99	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.99%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 9.00% 1.00% 11.00% 7.50% 10.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.0121% 0.0007% 0.0164% 0.0147% 0.00147% 0.0015% 0.0047% 0.0035% 0.00330%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.29% 0.29%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 2.35% 2.44% 2.44% 2.87% 1.35% 0.99% 0.99%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 9.00% 1.00% 1.00% 7.50% 10.00% 7.50% 9.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.0047% 0.0034% 0.0330% 0.0034% 0.0034%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.90% 0.39% 0.39% 0.00% 2.98%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 1.00% 11.00% 7.50% 9.00% 10.00% 6.50% 10.00% 7.50% 9.00% 7.50% 9.00% 7.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.0121% 0.0017% 0.0147% 0.00147% 0.0047% 0.0345% 0.0034% 0.0321% 0.0034% 0.0321% 0.0034% 0.003110%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 267,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.29% 0.04% 0.29% 0.04% 0.29%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 2.35% 2.44% 2.44% 2.87% 1.35% 0.90% 0.39% 0.00% 0.39% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 9.00% 1.00% 7.50% 10.00% 7.50% 9.00% 11.00% 7.50% 10.00% 7.50% 10.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.677% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87%	0.0312% 0.0103% 0.01140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.0164% 0.00164% 0.00147% 0.00147% 0.00345% 0.00321% 0.00321% 0.0090% 0.0110% 0.0010%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TROW TSCO	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.29%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44% 3.444% 2.87% 1.35% 0.90% 0.90% 0.99% 0.99% 1.06%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 10.00% 7.50% 10.00% 7.50% 10.00% 7.50% 10.00% 7.50% 10.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.0041% 0.0047% 0.0330% 0.034% 0.0034% 0.0321% 0.0090% 0.0110% 0.0073% 0.0073%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYMONTEC CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.04% 0.04% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.90% 0.39% 0.39% 0.09% 0.298% 2.35% 1.06% 1.01%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 1.00% 11.00% 7.50% 9.00% 9.00% 15.50% 15.50% 14.00% 15.50% 15.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 15.13%	0.0312% 0.0103% 0.01140% -0.0015% N/A 0.0502% 0.003% 0.1656% 0.1621% 0.00147% 0.00147% 0.0041% 0.0047% 0.0345% 0.0034% 0.0321% 0.0034% 0.00321% 0.0034% 0.00321% 0.0034% 0.0031% 0.0034% 0.0031% 0.0034% 0.0031%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TROW TSCO	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.29%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44% 3.444% 2.87% 1.35% 0.90% 0.90% 0.99% 0.99% 1.06%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 10.00% 7.50% 10.00% 7.50% 10.00% 7.50% 10.00% 7.50% 10.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13%	0.0312% 0.0103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.0041% 0.0047% 0.0330% 0.034% 0.0034% 0.0321% 0.0090% 0.0110% 0.0073% 0.0073%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TEC CENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 267,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.29% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.05%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 2.35% 2.44% 2.44% 2.87% 1.35% 0.90% 0.39% 0.00% 0.09% 1.28% 1.06% 1.06% 1.01% 2.55%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 8.00% 3.50% 20.50% 9.00% 1.00% 7.50% 10.00% 7.50% 10.00% 7.50% 11.00% 7.50% 11.00% 7.50% 12.50% 12.50% 12.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.677% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 13.57% 8.14%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.0047% 0.00345% 0.00321% 0.0090% 0.0110% 0.0090% 0.0110% 0.0073% 0.0110% 0.0073% 0.0110% 0.0073% 0.0110% 0.0181% 0.0043%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TROW TRV TSCO TSN TSO TSS	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.29% 0.04% 0.19% 0.05% 0.10% 0.10%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.90% 0.09% 2.98% 1.06% 1.01% 2.57% 0.76%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 9.00% 11.00% 7.50% 10.00% 7.50% 10.00% 7.50% 11.00% 7.50% 12.00% 12.50% 14.00% 15.50% 14.00% 12.50% 15.50% 14.00%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.68% 14.42% 7.93% 9.41% 16.50% 10.59% 13.87% 15.13% 13.57% 8.14% 12.81%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.0023% 0.0213% 0.1656% 0.0121% 0.0010% 0.01647% 0.00147% 0.00147% 0.00345% 0.0047% 0.0330% 0.00347% 0.0330% 0.00110% 0.00110% 0.00110% 0.00110% 0.00107% 0.0110% 0.00107% 0.0181% 0.0013%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.05% 0.10% 0.19% 0.19% 0.19%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.90% 0.39% 0.09% 0.39% 0.00% 2.98% 2.35% 1.06% 1.01% 2.55% 1.01% 2.57% 0.76%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 1.00% 11.00% 7.50% 9.00% 9.00% 15.50% 15.50% 15.50% 15.50% 12.50% 15.50% 12.50% 15.50% 11.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 13.57% 8.14% 12.81% 13.83%	0.0312% 0.0103% 0.0110% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.0121% 0.0017% 0.00164% 0.0147% 0.00147% 0.0034% 0.0345% 0.0034% 0.0034% 0.0034% 0.0034% 0.0031% 0.0010% 0.0010% 0.0010% 0.00110% 0.00110% 0.0013% 0.00110% 0.0013% 0.0010% 0.001
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TEC DENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC TEXAS INSTRUMENTS INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX TXN	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 267,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45 53,715,95	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.05% 0.105% 0.105% 0.05% 0.10% 0.05%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 2.35% 2.44% 2.44% 2.87% 1.35% 0.90% 0.39% 0.00% 2.39% 1.01% 2.25% 1.06% 1.01% 2.57% 0.76% 2.20% 2.40%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 8.00% 3.50% 20.50% 9.00% 1.00% 7.50% 10.00% 7.50% 11.00% 7.50% 12.50% 12.50% 12.50% 12.50% 12.50% 11.50% 11.50% 11.50% 11.50% 11.50% 11.50% 11.50% 11.50% 11.50% 11.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.677% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 15.13% 12.81% 12.81% 12.81% 13.83% 9.99%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.0121% 0.0017% 0.00147% 0.00147% 0.0047% 0.0034% 0.0034% 0.0034% 0.0071% 0.0110% 0.0110% 0.0110% 0.0110% 0.0073% 0.0110% 0.0110% 0.0013% 0.0014% 0.0043% 0.0014% 0.0043% 0.00454% 0.00454%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.05% 0.10% 0.19% 0.19% 0.19%	1.04% 1.91% 1.95% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.90% 0.39% 0.09% 0.39% 0.00% 2.98% 2.35% 1.06% 1.01% 2.55% 1.01% 2.57% 0.76%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 1.00% 11.00% 7.50% 9.00% 9.00% 15.50% 15.50% 15.50% 15.50% 12.50% 15.50% 12.50% 15.50% 11.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 13.57% 8.14% 12.81% 13.83%	0.0312% 0.0103% 0.0110% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.0121% 0.0017% 0.00164% 0.0147% 0.00147% 0.0034% 0.0345% 0.0034% 0.0034% 0.0034% 0.0034% 0.0031% 0.0010% 0.0010% 0.0010% 0.00110% 0.00110% 0.0013% 0.00110% 0.0013% 0.0010% 0.001
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC TEXAS INSTRUMENTS INC TEXTRON INC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX TXN	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45 63,715,95 10,324,26	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.03% 0.13% 0.03% 0.04% 0.05% 0.10	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 2.35% 2.44% 3.44% 2.87% 1.35% 0.90% 0.00% 2.98% 1.06% 1.01% 2.57% 0.76% 2.20% 2.40% 0.21%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 10.00% 7.50% 10.00% 7.50% 11.00% 7.50% 12.00% 15.50% 14.00% 15.50% 15.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 13.57% 8.14% 12.81% 13.83% 9.99% 15.73%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.003% 0.0213% 0.0121% 0.0007% 0.01656% 0.0121% 0.0047% 0.0044% 0.0047% 0.00321% 0.0090% 0.0110% 0.0073% 0.0107% 0.01073% 0.0107% 0.01081% 0.0071% 0.0043% 0.0071% 0.00454% 0.0045%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC TEXTRON INC TEXTRON INC TEXTRON INC TYCO INTERNATIONAL PLC	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX TXN TXN TXT TYC	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45 63,715,95 10,324,26 18,682,19	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.24% 0.24% 0.04% 0.29% 0.04% 0.29% 0.13% 0.05% 0.10% 0.	1.04% 1.91% 1.91% 0.00% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 2.35% 2.44% 3.34% 2.87% 1.35% 0.90% 0.39% 0.39% 0.00% 2.98% 2.35% 1.06% 1.01% 2.25% 2.40% 2.40% 2.20% 2.40% 2.20% 2.40% 2.21% 1.87%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 11.00% 11.00% 7.50% 9.00% 9.00% 12.50% 14.00% 12.50% 15.50% 14.50% 15.50% 15.50% 15.50% 15.50% 15.50% 15.50% 15.50% 15.50% 15.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 13.57% 8.14% 12.81% 13.83% 9.99% 15.73% 11.46%	0.0312% 0.0103% 0.0110% -0.0015% N/A 0.0502% 0.003% 0.1656% 0.1121% 0.0007% 0.0147% 0.0041% 0.0047% 0.0321% 0.0034% 0.0321% 0.0034% 0.0034% 0.0034% 0.0010% 0.00110% 0.0073% 0.0110% 0.0073% 0.0110% 0.0073% 0.0110% 0.0073% 0.0110% 0.0045% 0.0045% 0.0045% 0.0045% 0.0073%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TEC CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC TEXAS INSTRUMENTS INC TEXTRON INC TYCO INTERNATIONAL PLC UNDER ARMOUR INC-CLASS A	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TGIN TGIT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX TXN TXT TYC UA	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 267,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45 63,715,95 10,324,26 18,682,19 16,676,17	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.05% 0.105% 0.105% 0.105% 0.106% 0.106% 0.06%	1.04% 1.91% 1.91% 0.00% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.99% 0.39% 0.00% 2.98% 2.35% 1.06% 1.01% 2.57% 0.76% 2.20% 2.40% 0.21% 1.87% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 1.00% 7.50% 9.00% 11.00% 7.50% 11.00% 7.50% 12.50% 12.50% 12.50% 12.50% 13.50% 14.00% 14.50% 15.50%	17.63% 10.49% 19.19% -5.00% NIA 19.90% 0.40% 13.14% 11.28% 9.677% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 15.13% 12.81% 12.81% 12.81% 12.81% 13.83% 9.99% 15.73% 11.46% 24.50%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.0121% 0.0007% 0.0164% 0.0041% 0.0047% 0.0034% 0.00321% 0.0090% 0.0110% 0.0073% 0.0110% 0.0013% 0.0071% 0.0081% 0.00454% 0.00454% 0.00454% 0.00454% 0.00454% 0.0062% 0.0062% 0.0092% 0.0122% 0.0122%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TECO ENERGY INC TE CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC TEXAS INSTRUMENTS INC TEXTEN INSTRUMENTS INC TEXTEN INSTRUMENTS INC TEXTEN INSTRUMENTS INC TYCO INTERNATIONAL PLC UNDER ARMOUR INC-CLASS A UNITED CONTINENTAL HOLDINGS	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TEL TGNA TGT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX TXT TYC UAL	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 257,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45 63,715,95 10,324,26 18,682,19 18,6876,17 15,326,41	0.10% 0.07% 0.03% N/A 0.25% 0.16% 1.47% 0.12% 0.02% 0.08% 0.04% 0.13% 0.03% 0.24% 0.04% 0.29% 0.04% 0.19% 0.05% 0.10% 0.19% 0.07% 0.13% 0.03% 0.19% 0.06% 0.13% 0.06% 0.11% 0.09%	1.04% 1.91% 1.91% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 2.35% 2.44% 3.44% 2.87% 1.35% 0.99% 0.09% 0.39% 0.10% 2.98% 1.06% 1.01% 2.55% 2.20% 2.20% 2.40% 0.21% 1.87% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 20.50% 7.50% 9.00% 11.00% 7.50% 10.00% 7.50% 11.00% 7.50% 12.00% 12.50% 15.50% 12.50% 15.50%	17.63% 10.49% 19.19% -5.00% N/A 19.90% 0.40% 13.14% 11.28% 9.67% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 13.57% 8.14% 12.81% 13.83% 9.99% 15.73% 11.46% 24.50% 7.00%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.1656% 0.0121% 0.0007% 0.0164% 0.0041% 0.0047% 0.0330% 0.00321% 0.0090% 0.0110% 0.0073% 0.0107% 0.0181% 0.0071% 0.0045% 0.0071% 0.0045% 0.00107% 0.0181% 0.0045% 0.0012% 0.002% 0.0122% 0.00233% 0.0012% 0.00233% 0.0061%
SOUTHWESTERN ENERGY CO SYNCHRONY FINANCIAL STRYKER CORP SYMANTEC CORP SYMANTEC CORP SYSCO CORP AT&T INC MOLSON COORS BREWING CO -B TERADATA CORP TRANSDIGM GROUP INC TEC CONNECTIVITY LTD TEGNA INC TARGET CORP TIFFANY & CO TJX COMPANIES INC TORCHMARK CORP THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC T ROWE PRICE GROUP INC TRAVELERS COS INC/THE TRACTOR SUPPLY COMPANY TYSON FOODS INC-CL A TESORO CORP TOTAL SYSTEM SERVICES INC TIME WARNER INC TEXAS INSTRUMENTS INC TEXTRON INC TYCO INTERNATIONAL PLC UNDER ARMOUR INC-CLASS A	SWKS SWN SYF SYK SYMC SYY T TAP TDC TDG TE TGIN TGIT TIF TJX TMK TMO TRIP TROW TRV TSCO TSN TSO TSS TWX TXN TXT TYC UA	17,270,96 12,783,34 5,287,44 21,679,58 44,274,12 12,998,88 28,411,44 267,822,60 21,888,66 3,695,66 14,054,79 6,516,29 22,522,56 4,984,92 41,420,29 7,891,38 50,824,06 7,554,99 59,868,92 9,611,83 18,242,52 33,289,74 12,469,07 23,443,20 9,327,92 9,681,75 57,636,45 63,715,95 10,324,26 18,682,19 16,676,17	0.10% 0.07% 0.03% N/A 0.25% 0.07% 0.16% 1.47% 0.02% 0.08% 0.04% 0.13% 0.03% 0.04% 0.29% 0.04% 0.29% 0.04% 0.13% 0.05% 0.105% 0.105% 0.105% 0.106% 0.106% 0.06%	1.04% 1.91% 1.91% 0.00% 0.00% 0.00% 1.28% 1.41% 2.51% 4.63% 1.61% 0.00% 3.36% 2.35% 2.44% 3.44% 2.87% 1.35% 0.99% 0.39% 0.00% 2.98% 2.35% 1.06% 1.01% 2.57% 0.76% 2.20% 2.40% 0.21% 1.87% 0.00%	16.50% 8.50% 17.50% -5.00% N/A 18.50% -1.00% 10.50% 6.50% 8.00% 3.50% 9.00% 1.00% 7.50% 9.00% 11.00% 7.50% 11.00% 7.50% 12.50% 12.50% 12.50% 12.50% 13.50% 14.00% 14.50% 15.50%	17.63% 10.49% 19.19% -5.00% NIA 19.90% 0.40% 13.14% 11.28% 9.677% 3.50% 20.50% 10.99% 11.46% 3.45% 14.63% 10.48% 11.42% 7.93% 9.41% 16.50% 10.59% 3.87% 15.13% 15.13% 12.81% 12.81% 12.81% 12.81% 13.83% 9.99% 15.73% 11.46% 24.50%	0.0312% 0.0103% 0.01103% 0.0140% -0.0015% N/A 0.0502% 0.0003% 0.0213% 0.0121% 0.0007% 0.0164% 0.0041% 0.0047% 0.0034% 0.00321% 0.0090% 0.0110% 0.0073% 0.0110% 0.0013% 0.0071% 0.0081% 0.00454% 0.00454% 0.00454% 0.00454% 0.00454% 0.0062% 0.0062% 0.0092% 0.0122% 0.0122%

UNIVERSAL HEALTH SERVICES-B	UHS	13,419.52	0.08%	0.29%	11.50%	11.81%	0.0090%
ULTA SALON COSMETICS & FRAGR	ULTA	15,160.26	0.09%	0.00%	18.00%	18.00%	0.0155%
UNITEDHEALTH GROUP INC	UNH	132,787.30	0.76%	1.80%	14.00%	15.93%	0.1204%
UNUM GROUP	UNM	8,444.31	0.05%	2.08%	11.00%	13.19%	0.0063%
UNION PACIFIC CORP	UNP	74,456.73	0.42%	2.49%	7.00%	9.58%	0.0406%
UNITED PARCEL SERVICE-CL B	UPS	94,782.48	0.54%	2.95%	9.50%	12.59%	0.0680%
URBAN OUTFITTERS INC	URBN	3,150.45	0.02%	0.00%	13.50%	13.50%	0.0024%
UNITED RENTALS INC	URI	6,455.70	0.04%	0.00%	13.00%	13.00%	0.0048%
US BANCORP	USB	73,142.62	0.42%	2.51%	4.50%	7.07%	0.0294%
UNITED TECHNOLOGIES CORP	UTX	85,636.50	0.49%	2.58%	6.50%	9.16%	0.0447%
VISA INC-CLASS A SHARES	V	169.680.90	0.97%	0.77%	12.00%	12.82%	0.1238%
VARIAN MEDICAL SYSTEMS INC	VAR	8.055.82	0.05%	0.00%	7.50%	7.50%	0.0034%
VF CORP	VFC	27,117.84	0.15%	2.28%	11.00%	13.41%	0.0207%
VIACOM INC-CLASS B	VIAB	17,222.81	0.10%	3.68%	5.00%	8.77%	0.0267 %
VALERO ENERGY CORP	VLO	25.232.42	0.14%	4.47%	5.50%	10.09%	0.0000%
	VLO						
VULCAN MATERIALS CO		15,873.75	0.09%	0.67%	33.50%	34.28%	0.0310%
VORNADO REALTY TRUST	VNO	18,675.11	0.11%	2.55%	22.50%	25.34%	0.0269%
VERISK ANALYTICS INC	VRSK	13,460.24	0.08%	0.00%	11.00%	11.00%	0.0084%
VERISIGN INC	VRSN	9,502.96	0.05%	0.00%	11.50%	11.50%	0.0062%
VERTEX PHARMACEUTICALS INC	VRTX	21,810.71	N/A	0.00%	N/A	N/A	N/A
VENTAS INC	VTR	-	N/A	4.27%	N/A	N/A	N/A
VERIZON COMMUNICATIONS INC	VZ	222,850.70	1.27%	4.13%	3.00%	7.19%	0.0913%
WATERS CORP	WAT	11,199.19	0.06%	0.00%	9.00%	9.00%	0.0057%
WALGREENS BOOTS ALLIANCE INC	WBA	91,835.88	0.52%	1.69%	13.00%	14.80%	0.0774%
WESTERN DIGITAL CORP	WDC	11,838.73	0.07%	3.94%	-0.50%	3.43%	0.0023%
WEC ENERGY GROUP INC	WEC	19,816.32	0.11%	3.23%	6.00%	9.33%	0.0105%
WELLS FARGO & CO	WFC	243.186.50	1.38%	3.17%	5.00%	8.25%	0.1142%
WHOLE FOODS MARKET INC	WFM	9,961.62	0.06%	1.83%	8.00%	9.90%	0.0056%
WHIRLPOOL CORP	WHR	13,588.80	0.08%	2.24%	11.50%	13.87%	0.0107%
WILLIS TOWERS WATSON PLC	WLTW	N/A	N/A	0.00%	N/A	N/A	N/A
WASTE MANAGEMENT INC	WM	28,217.74	0.16%	2.62%	7.50%	10.22%	0.0164%
WILLIAMS COS INC	WMB	16,335.00	0.16%	12.12%	16.50%	29.62%	0.0276%
WAL-MART STORES INC	WMT	225,312.50	1.28%	2.77%	2.00%	4.80%	0.0616%
WESTROCK CO	WRK	10,477.13	N/A	3.61%	N/A	N/A	N/A
WESTERN UNION CO	WU	9,529.15	0.05%	3.30%	8.00%	11.43%	0.0062%
WEYERHAEUSER CO	WY	22,406.98	0.13%	4.20%	10.50%	14.92%	0.0190%
WYNDHAM WORLDWIDE CORP	WYN	8,044.87	0.05%	2.78%	5.50%	8.36%	0.0038%
WYNN RESORTS LTD	WYNN	10,350.01	0.06%	1.97%	6.50%	8.53%	0.0050%
CIMAREX ENERGY CO	XEC	11,405.30	0.06%	0.27%	11.00%	11.28%	0.0073%
XCEL ENERGY INC	XEL	21,689.59	0.12%	3.23%	5.50%	8.82%	0.0109%
XL GROUP PLC	XL	9,809.11	0.06%	2.40%	9.00%	11.51%	0.0064%
XILINX INC	XLNX	12,034.91	0.07%	2.78%	6.00%	8.86%	0.0061%
EXXON MOBIL CORP	XOM	380,694.60	2.17%	3.27%	5.00%	8.35%	0.1811%
DENTSPLY SIRONA INC	XRAY	15,037.98	0.09%	0.48%	8.00%	8.50%	0.0073%
XEROX CORP	XRX	10,150.28	0.06%	3.19%	4.50%	7.76%	0.0045%
XYLEM INC	XYL	8,292.02	0.05%	1.34%	9.50%	10.90%	0.0051%
YAHOO! INC	YHOO	35,824.85	N/A	0.00%	N/A	N/A	N/A
YUM! BRANDS INC	YUM	34,961.30	0.20%	2.28%	10.00%	12.39%	0.0247%
ZIMMER BIOMET HOLDINGS INC	ZBH	24,075.17	0.20%	0.81%	13.00%	13.86%	0.0190%
	ZION	5.759.96	0.14%	1.14%		13.86%	
ZIONS BANCORPORATION					11.00%		0.0040%
ZOETIS INC	ZTS	23,778.38	0.14%	0.79%	11.00%	11.83%	0.0160%
		17,561,166					13.63%

<sup>[1]</sup> Equals sum of Col. [9]
[2] Source: Bloomberg Professional
[3] Equals [1] - [2]
[4] Source: Value Line
[5] Equals weight in S&P 500 based on market capitalization
[6] Source: Value Line
[7] Source: Value Line
[8] Equals ([6] x (1 + (0.5 x [7]))) + [7]
[9] Equals Col. [5] x Col. [8]

# Bloomberg and Value Line Beta Coefficients

		[1]	[2]
Company	Ticker	Bloomberg	Value Line
ALLETE, Inc.	ALE	0.612	0.750
Alliant Energy Corporation	LNT	0.612	0.750
Ameren Corporation	AEE	0.617	0.750
American Electric Power Company, Inc.	AEP	0.559	0.700
Avista Corporation	AVA	0.580	0.750
CMS Energy Corporation	CMS	0.542	0.700
DTE Energy Company	DTE	0.598	0.700
El Paso Electric Company	EE	0.735	0.750
Entergy Corporation	ETR	0.639	0.700
Eversource Energy	ES	0.589	0.750
FirstEnergy Corp.	FE	0.676	0.700
IDACORP, Inc.	IDA	0.672	0.800
MGE Energy, Inc.	MGEE	0.576	0.700
NorthWestern Corporation	NWE	0.607	0.700
OGE Energy Corp.	OGE	0.700	0.950
Otter Tail Corporation	OTTR	0.692	0.800
Pinnacle West Capital Corporation	PNW	0.599	0.750
PNM Resources, Inc.	PNM	0.638	0.800
Portland General Electric Company	POR	0.606	0.800
SCANA Corporation	SCG	0.589	0.700
Wisconsin Energy Corporation	WEC	0.512	0.650
Xcel Energy Inc.	XEL	0.479	0.650
Mean	-	0.610	0.74

[1] Source: Bloomberg Professional[2] Source: Value Line

# Proxy Group Capital Structure

	% Common Equity									
Company	Ticker	2016Q1	2015Q4	2015Q3	2015Q2	2015Q1	2014Q4	2014Q3	2014Q2	Average
ALLETE, Inc.	ALE	58.83%	58.04%	58.01%	58.93%	58.70%	56.98%	56.18%	55.83%	57.69%
Alliant Energy Corporation	LNT	51.65%	51.24%	51.27%	51.18%	50.32%	50.11%	54.23%	52.94%	51.62%
Ameren Corporation	AEE	52.82%	52.22%	53.40%	52.44%	52.88%	52.82%	54.54%	53.83%	53.12%
American Electric Power Company, Inc.	AEP	49.13%	48.82%	49.13%	49.63%	52.23%	52.11%	52.27%	52.31%	50.71%
Avista Corporation	AVA	55.13%	54.30%	54.95%	54.98%	54.81%	51.39%	52.62%	51.19%	53.67%
CMS Energy Corporation	CMS	51.42%	50.63%	51.44%	51.15%	51.35%	50.21%	49.99%	53.44%	51.20%
DTE Energy Company	DTE	50.53%	50.39%	50.32%	49.81%	48.42%	50.39%	49.32%	50.30%	49.93%
El Paso Electric Company	EE	45.95%	49.86%	49.94%	49.04%	48.79%	49.01%	53.63%	52.57%	49.85%
Entergy Corporation	ETR	48.59%	50.94%	49.01%	48.61%	48.37%	47.81%	48.73%	48.61%	48.83%
Eversource Energy	ES	54.51%	54.02%	54.83%	53.73%	53.84%	53.64%	53.44%	52.05%	53.76%
FirstEnergy Corp.	FE	52.97%	52.39%	52.12%	52.58%	52.26%	51.69%	51.49%	50.74%	52.03%
IDACORP, Inc.	IDA	50.70%	52.34%	52.25%	51.61%	49.38%	52.94%	52.92%	52.03%	51.77%
MGE Energy, Inc.	MGEE	62.00%	61.90%	61.88%	61.20%	61.12%	60.52%	59.93%	59.49%	61.00%
NorthWestern Corporation	NWE	47.54%	47.31%	46.01%	46.97%	47.54%	47.06%	47.78%	47.45%	47.21%
OGE Energy Corp.	OGE	55.17%	54.30%	54.38%	53.31%	52.98%	53.08%	55.43%	52.94%	53.95%
Otter Tail Corporation	OTTR	53.10%	52.75%	52.51%	52.32%	51.13%	49.80%	49.32%	47.60%	51.07%
Pinnacle West Capital Corporation	PNW	55.54%	55.50%	57.11%	55.72%	55.86%	57.54%	58.43%	57.32%	56.63%
PNM Resources, Inc.	PNM	45.35%	45.32%	44.76%	45.63%	46.11%	45.86%	47.43%	47.14%	45.95%
Portland General Electric Company	POR	50.89%	50.61%	50.31%	49.57%	44.11%	43.31%	44.86%	46.64%	47.54%
SCANA Corporation	SCG	52.77%	52.57%	52.55%	52.08%	53.72%	53.46%	53.47%	52.85%	52.93%
Wisconsin Energy Corporation	WEC	55.80%	55.39%	56.60%	55.65%	56.21%	55.93%	55.70%	55.55%	55.85%
Xcel Energy Inc.	XEL	54.68%	54.43%	53.02%	53.88%	54.97%	54.62%	54.54%	53.41%	54.19%
Mean		52.50%	52.51%	52.54%	52.27%	52.05%	51.83%	52.56%	52.10%	52.30%

		Operating	Company	Capital Stru	ucture					
					% (	Common Ed	quity			
Operating Company	Parent	2016Q1	2015Q4	2015Q3	2015Q2	2015Q1	2014Q4	2014Q3	2014Q2	Average
Ameren Illinois Company	AEE	53.67%	53.42%	55.55%	54.67%	54.39%	53.90%	56.91%	56.19%	54.84%
Union Electric Company	AEE	51.97%	51.03%	51.25%	50.21%	51.37%	51.74%	52.17%	51.48%	51.40%
AEP Texas Central Company	AEP	44.18%	43.63%	43.32%	47.46%	45.01%	42.39%	43.93%	43.18%	44.14%
AEP Texas North Company	AEP	42.64%	42.36%	45.03%	48.87%	47.15%	46.96%	47.06%	46.79%	45.86%
Appalachian Power Company	AEP	47.20%	46.77%	46.66%	46.50%	46.52%	45.83%	46.29%	46.00%	46.47%
Indiana Michigan Power Company	AEP	48.26%	52.65%	52.41%	52.08%	51.94%	51.36%	51.45%	51.39%	51.44%
Kentucky Power Company	AEP	43.58%	43.26%	43.72%	43.87%	44.19%	44.74%	46.25%	48.23%	44.73%
Kingsport Power Company	AEP	65.21%	59.70%	59.76%	60.44%	60.77%	61.00%	60.55%	60.91%	61.04%
Ohio Power Company	AEP	50.03%	50.09%	50.36%	50.33%	49.30%	48.96%	46.03%	44.79%	48.74%
Public Service Company of Oklahoma	AEP	46.80%	46.45%	46.30%	45.29%	44.66%	49.69%	49.43%	48.30%	47.11%
Southwestern Electric Power Company	AEP	49.51%	49.59%	49.88%	47.62%	46.25%	50.46%	50.60%	51.26%	49.40%
Wheeling Power Company	AEP	53.90%	53.73%	53.89%	53.82%	86.56%	79.75%	81.14%	82.27%	68.13%
ALLETE (Minnesota Power)	ALE	56.60%	55.86%	55.62%	57.67%	57.56%	55.24%	53.98%	53.01%	55.69%
Superior Water, Light and Power Company	ALE	61.06%	60.23%	60.40%	60.19%	59.83%	58.72%	58.39%	58.65%	59.68%
Alaska Electric Light and Power Company	AVA	58.86%	58.18%	58.09%	58.07%	57.83%	NA	NA	NA	58.21%
Avista Corporation	AVA	51.39%	50.41%	51.80%	51.90%	51.78%	51.39%	52.62%	51.19%	51.56%
Consumers Energy Company	CMS	51.42%	50.63%	51.44%	51.15%	51.35%	50.21%	49.99%	53.44%	51.20%
DTE Electric Company	DTE	50.53%	50.39%	50.32%	49.81%	48.42%	50.39%	49.32%	50.30%	49.93%
El Paso Electric Company	EE	45.95%	49.86%	49.94%	49.04%	48.79%	49.01%	53.63%	52.57%	49.85%
Entergy Arkansas, Inc.	ETR	45.37%	44.18%	44.47%	43.76%	43.50%	43.29%	46.14%	45.30%	44.50%
Entergy Gulf States Louisiana, LLC	ETR	NA	52.85%	51.00%	50.47%	49.90%	48.96%	49.76%	51.50%	50.63%
Entergy Louisiana, LLC	ETR	47.60%	51.13%	48.89%	48.72%	48.09%	47.35%	48.02%	47.90%	48.46%
Entergy Mississippi, Inc.	ETR	49.27%	48.87%	48.86%	48.05%	48.23%	47.61%	47.71%	48.53%	48.39%
Entergy New Orleans, Inc.	ETR	53.42%	58.69%	50.76%	51.71%	50.62%	50.24%	50.58%	49.39%	51.93%
Entergy Texas, Inc.	ETR	47.29%	49.96%	50.09%	48.95%	49.86%	49.41%	50.14%	49.04%	49.34%
Connecticut Light and Power Company	ES	54.45%	53.05%	53.35%	52.25%	53.26%	53.11%	52.72%	50.52%	52.84%
NSTAR Electric Company	ES	55.76%	56.11%	59.18%	58.53%	58.22%	57.84%	57.17%	55.95%	57.34%
Public Service Company of New Hampshire	ES	54.04%	53.48%	53.56%	53.44%	53.40%	53.29%	53.92%	52.44%	53.45%
Western Massachusetts Electric Company	ES	53.78%	53.46%	53.25%	50.70%	50.48%	50.31%	49.97%	49.29%	51.40%
Cleveland Electric Illuminating Company	FE	45.05%	45.10%	44.89%	44.35%	45.44%	44.99%	45.28%	44.88%	45.00%
Jersey Central Power & Light Company	FE	52.37%	52.32%	52.77%	55.19%	54.99%	54.77%	55.24%	54.49%	54.02%
Monongahela Power Company	FE	49.61%	48.89%	48.79%	48.17%	47.92%	47.04%	46.86%	46.27%	47.94%
Ohio Edison Company	FE	64.08%	63.58%	65.73%	64.75%	64.01%	63.05%	57.70%	56.35%	62.40%
Pennsylvania Electric Company	FE	48.32%	47.70%	49.01%	48.46%	48.06%	47.66%	48.17%	47.74%	48.14%
Potomac Edison Company	FE	52.67%	51.59%	52.56%	51.73%	51.11%	51.05%	51.96%	51.17%	51.73%
Toledo Edison Company	FE	60.61%	60.41%	52.06%	51.72%	51.37%	50.74%	51.51%	50.70%	53.64%
West Penn Power Company Idaho Power Co.	FE IDA	51.06% 50.70%	49.48% 52.34%	51.14% 52.25%	56.25% 51.61%	55.18% 49.38%	54.20% 52.94%	55.21% 52.92%	54.31% 52.03%	53.35% 51.77%
	MGEE	62.00%	61.90%	61.88%	61.20%	49.36% 61.12%	60.52%	52.92% 59.93%	52.03% 59.49%	61.00%
Madison Gas and Electric Company Interstate Power and Light Company	LNT	51.52%	50.91%	50.90%	51.72%	50.09%	49.90%	54.01%	52.05%	51.39%
Wisconsin Power and Light Company	LNT	51.78%	51.56%	51.63%	50.65%	50.54%	50.32%	54.45%	53.82%	51.84%
NorthWestern Corporation	NWE	47.54%	47.31%	46.01%	46.97%	47.54%	47.06%	47.78%	47.45%	47.21%
Oklahoma Gas and Electric Company	OGE	55.17%	54.30%	54.38%	53.31%	52.98%	53.08%	55.43%	52.94%	53.95%
Otter Tail Power Company	OTTR	53.17%	52.75%	52.51%	52.32%	51.13%	49.80%	49.32%	47.60%	51.07%
Public Service Company of New Mexico	PNM	45.35%	45.32%	44.76%	45.63%	46.11%	45.86%	49.32%	47.00%	45.95%
Texas-New Mexico Power Company	PNM	45.55% NA	45.32% NA	44.76% NA	45.65% NA	40.11% NA	45.66% NA	47.43% NA	47.14% NA	45.95% N/A
Arizona Public Service Company	PNW	55.54%	55.50%	57.11%	55.72%	55.86%	57.54%	58.43%	57.32%	56.63%
Portland General Electric Company	POR	50.89%	50.61%	50.31%	49.57%	44.11%	43.31%	44.86%	46.64%	47.54%
South Carolina Electric & Gas Co.	SCG	50.89%	52.57%	52.55%	49.57% 52.08%	53.72%	53.46%	53.47%	52.85%	52.93%
Integrys Holding, Inc.	WEC	NA	02.57 % NA	56.36%	55.10%	54.80%	54.61%	54.32%	54.05%	54.87%
Wisconsin Electric Power Company	WEC	56.95%	57.25%	57.07%	56.76%	59.02%	58.57%	58.45%	58.56%	57.83%
Wisconsin Public Service Corporation	WEC	54.65%	53.53%	56.36%	55.10%	54.80%	54.61%	54.32%	54.05%	54.68%
Northern States Power Company - MN	XEL	53.68%	53.26%	51.95%	53.34%	53.03%	52.89%	52.84%	52.49%	52.94%
Northern States Power Company - WI	XEL	54.43%	54.27%	51.95%	52.53%	56.36%	52.89% 55.18%	52.84% 55.01%	52.49% 52.92%	
Public Service Company of Colorado	XEL	54.43% 56.49%	56.34%	56.00%	52.55% 55.55%	56.94%	56.79%	56.51%	56.12%	54.20% 56.34%
Southwestern Public Service Company	XEL	54.13%	53.83%	51.20%	54.08%	53.54%	53.62%	53.81%	50.12%	53.29%
Mean	ΛEL	52.15%	52.09%	52.04%	51.99%	52.33%	51.98%	52.43%	51.95%	52.17%
IVICALI		JZ.10%	JZ.U9%	JZ.U4%	31.99%	JZ.JJ%	J 1.90%	JZ.4J%	J1.90%	JZ.11%

Source: SNL Financial

# Proxy Group Capital Structure

	% Long-Term Debt									
Company	Ticker	2016Q1	2015Q4	2015Q3	2015Q2	2015Q1	2014Q4	2014Q3	2014Q2	Average
ALLETE, Inc.	ALE	41.17%	41.96%	41.99%	41.07%	41.30%	43.02%	43.82%	44.17%	42.31%
Alliant Energy Corporation	LNT	48.35%	48.76%	48.73%	48.82%	49.68%	49.89%	45.77%	47.06%	48.38%
Ameren Corporation	AEE	47.18%	47.78%	46.60%	47.56%	47.12%	47.18%	45.46%	46.17%	46.88%
American Electric Power Company, Inc.	AEP	50.87%	51.18%	50.87%	50.37%	47.77%	47.89%	47.73%	47.69%	49.29%
Avista Corporation	AVA	44.87%	45.70%	45.05%	45.02%	45.19%	48.61%	47.38%	48.81%	46.33%
CMS Energy Corporation	CMS	48.58%	49.37%	48.56%	48.85%	48.65%	49.79%	50.01%	46.56%	48.80%
DTE Energy Company	DTE	49.47%	49.61%	49.68%	50.19%	51.58%	49.61%	50.68%	49.70%	50.07%
El Paso Electric Company	EE	54.05%	50.14%	50.06%	50.96%	51.21%	50.99%	46.37%	47.43%	50.15%
Entergy Corporation	ETR	51.41%	49.06%	50.99%	51.39%	51.63%	52.19%	51.27%	51.39%	51.17%
Eversource Energy	ES	45.49%	45.98%	45.17%	46.27%	46.16%	46.36%	46.56%	47.95%	46.24%
FirstEnergy Corp.	FE	47.03%	47.61%	47.88%	47.42%	47.74%	48.31%	48.51%	49.26%	47.97%
IDACORP, Inc.	IDA	49.30%	47.66%	47.75%	48.39%	50.62%	47.06%	47.08%	47.97%	48.23%
MGE Energy, Inc.	MGEE	38.00%	38.10%	38.12%	38.80%	38.88%	39.48%	40.07%	40.51%	39.00%
NorthWestern Corporation	NWE	52.46%	52.69%	53.99%	53.03%	52.46%	52.94%	52.22%	52.55%	52.79%
OGE Energy Corp.	OGE	44.83%	45.70%	45.62%	46.69%	47.02%	46.92%	44.57%	47.06%	46.05%
Otter Tail Corporation	OTTR	46.90%	47.25%	47.49%	47.68%	48.87%	50.20%	50.68%	52.40%	48.93%
Pinnacle West Capital Corporation	PNW	44.46%	44.50%	42.89%	44.28%	44.14%	42.46%	41.57%	42.68%	43.37%
PNM Resources, Inc.	PNM	54.65%	54.68%	55.24%	54.37%	53.89%	54.14%	52.57%	52.86%	54.05%
Portland General Electric Company	POR	49.11%	49.39%	49.69%	50.43%	55.89%	56.69%	55.14%	53.36%	52.46%
SCANA Corporation	SCG	47.23%	47.43%	47.45%	47.92%	46.28%	46.54%	46.53%	47.15%	47.07%
Wisconsin Energy Corporation	WEC	44.20%	44.61%	43.40%	44.35%	43.79%	44.07%	44.30%	44.45%	44.15%
Xcel Energy Inc.	XEL	45.32%	45.57%	46.98%	46.12%	45.03%	45.38%	45.46%	46.59%	45.81%
Mean		47.50%	47.49%	47.46%	47.73%	47.95%	48.17%	47.44%	47.90%	47.70%

		Operating	Company	Capital Stru	ıcture					
						ong-Term	Debt			
Operating Company	Parent	2016Q1	2015Q4	2015Q3	2015Q2	2015Q1	2014Q4	2014Q3	2014Q2	Average
Ameren Illinois Company	AEE	46.33%	46.58%	44.45%	45.33%	45.61%	46.10%	43.09%	43.81%	45.16%
Union Electric Company	AEE	48.03%	48.97%	48.75%	49.79%	48.63%	48.26%	47.83%	48.52%	48.60%
AEP Texas Central Company	AEP	55.82%	56.37%	56.68%	52.54%	54.99%	57.61%	56.07%	56.82%	55.86%
AEP Texas North Company	AEP	57.36%	57.64%	54.97%	51.13%	52.85%	53.04%	52.94%	53.21%	54.14%
Appalachian Power Company	AEP	52.80%	53.23%	53.34%	53.50%	53.48%	54.17%	53.71%	54.00%	53.53%
Indiana Michigan Power Company	AEP	51.74%	47.35%	47.59%	47.92%	48.06%	48.64%	48.55%	48.61%	48.56%
Kentucky Power Company	AEP	56.42%	56.74%	56.28%	56.13%	55.81%	55.26%	53.75%	51.77%	55.27%
Kingsport Power Company	AEP	34.79%	40.30%	40.24%	39.56%	39.23%	39.00%	39.45%	39.09%	38.96%
Ohio Power Company	AEP	49.97%	49.91%	49.64%	49.67%	50.70%	51.04%	53.97%	55.21%	51.26%
Public Service Company of Oklahoma	AEP	53.20%	53.55%	53.70%	54.71%	55.34%	50.31%	50.57%	51.70%	52.89%
Southwestern Electric Power Company	AEP	50.49%	50.41%	50.12%	52.38%	53.75%	49.54%	49.40%	48.74%	50.60%
Wheeling Power Company	AEP	46.10%	46.27%	46.11%	46.18%	13.44%	20.25%	18.86%	17.73%	31.87%
ALLETE (Minnesota Power)	ALE	43.40%	44.14%	44.38%	42.33%	42.44%	44.76%	46.02%	46.99%	44.31%
Superior Water, Light and Power Company	ALE	38.94%	39.77%	39.60%	39.81%	40.17%	41.28%	41.61%	41.35%	40.32%
Alaska Electric Light and Power Company	AVA	41.14%	41.82%	41.91%	41.93%	42.17%	NA	NA	NA	41.79%
Avista Corporation	AVA	48.61%	49.59%	48.20%	48.10%	48.22%	48.61%	47.38%	48.81%	48.44%
Consumers Energy Company	CMS	48.58%	49.37%	48.56%	48.85%	48.65%	49.79%	50.01%	46.56%	48.80%
DTE Electric Company	DTE	49.47%	49.61%	49.68%	50.19%	51.58%	49.61%	50.68%	49.70%	50.07%
El Paso Electric Company	EE	54.05%	50.14%	50.06%	50.96%	51.21%	50.99%	46.37%	47.43%	50.15%
Entergy Arkansas, Inc.	ETR	54.63%	55.82%	55.53%	56.24%	56.50%	56.71%	53.86%	54.70%	55.50%
Entergy Gulf States Louisiana, LLC	ETR	NA	47.15%	49.00%	49.53%	50.10%	51.04%	50.24%	48.50%	49.37%
Entergy Louisiana, LLC	ETR	52.40%	48.87%	51.11%	51.28%	51.91%	52.65%	51.98%	52.10%	51.54%
Entergy Mississippi, Inc.	ETR	50.73%	51.13%	51.14%	51.95%	51.77%	52.39%	52.29%	51.47%	51.61%
Entergy New Orleans, Inc.	ETR	46.58%	41.31%	49.24%	48.29%	49.38%	49.76%	49.42%	50.61%	48.07%
Entergy Texas, Inc.	ETR	52.71%	50.04%	49.91%	51.05%	50.14%	50.59%	49.86%	50.96%	50.66%
Connecticut Light and Power Company	ES	45.55%	46.95%	46.65%	47.75%	46.74%	46.89%	47.28%	49.48%	47.16%
NSTAR Electric Company	ES	44.24%	43.89%	40.82%	41.47%	41.78%	42.16%	42.83%	44.05%	42.66%
Public Service Company of New Hampshire	ES	45.96%	46.52%	46.44%	46.56%	46.60%	46.71%	46.08%	47.56%	46.55%
Western Massachusetts Electric Company	ES	46.22%	46.54%	46.75%	49.30%	49.52%	49.69%	50.03%	50.71%	48.60%
Cleveland Electric Illuminating Company	FE	54.95%	54.90%	55.11%	55.65%	54.56%	55.01%	54.72%	55.12%	55.00%
Jersey Central Power & Light Company	FE	47.63%	47.68%	47.23%	44.81%	45.01%	45.23%	44.76%	45.51%	45.98%
Monongahela Power Company	FE	50.39%	51.11%	51.21%	51.83%	52.08%	52.96%	53.14%	53.73%	52.06%
Ohio Edison Company	FE	35.92%	36.42%	34.27%	35.25%	35.99%	36.95%	42.30%	43.65%	37.60%
Pennsylvania Electric Company	FE	51.68%	52.30%	50.99%	51.54%	51.94%	52.34%	51.83%	52.26%	51.86%
Potomac Edison Company	FE	47.33%	48.41%	47.44%	48.27%	48.89%	48.95%	48.04%	48.83%	48.27%
Toledo Edison Company	FE	39.39%	39.59%	47.94%	48.28%	48.63%	49.26%	48.49%	49.30%	46.36%
West Penn Power Company	FE	48.94%	50.52%	48.86%	43.75%	44.82%	45.80%	44.79%	45.69%	46.65%
Idaho Power Co.	IDA	49.30%	47.66%	47.75%	48.39%	50.62%	47.06%	47.08%	47.97%	48.23%
Madison Gas and Electric Company	MGEE	38.00%	38.10%	38.12%	38.80%	38.88%	39.48%	40.07%	40.51%	39.00%
Interstate Power and Light Company	LNT	48.48%	49.09%	49.10%	48.28%	49.91%	50.10%	45.99%	47.95%	48.61%
Wisconsin Power and Light Company	LNT	48.22%	48.44%	48.37%	49.35%	49.46%	49.68%	45.55%	46.18%	48.16%
NorthWestern Corporation	NWE	52.46%	52.69%	53.99%	53.03%	52.46%	52.94%	52.22%	52.55%	52.79%
Oklahoma Gas and Electric Company	OGE	44.83%	45.70%	45.62%	46.69%	47.02%	46.92%	44.57%	47.06%	46.05%
Otter Tail Power Company	OTTR	46.90%	47.25%	47.49%	47.68%	48.87%	50.20%	50.68%	52.40%	48.93%
Public Service Company of New Mexico	PNM	54.65%	54.68%	55.24%	54.37%	53.89%	54.14%	52.57%	52.86%	54.05%
Texas-New Mexico Power Company	PNM	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arizona Public Service Company	PNW	44.46%	44.50%	42.89%	44.28%	44.14%	42.46%	41.57%	42.68%	43.37%
Portland General Electric Company	POR	49.11%	49.39%	49.69%	50.43%	55.89%	56.69%	55.14%	53.36%	52.46%
South Carolina Electric & Gas Co.	SCG	47.23%	47.43%	47.45%	47.92%	46.28%	46.54%	46.53%	47.15%	47.07%
Integrys Holding, Inc.	WEC	NA	NA	43.64%	44.90%	45.20%	45.39%	45.68%	45.95%	45.13%
Wisconsin Electric Power Company	WEC	43.05%	42.75%	42.93%	43.24%	40.98%	41.43%	41.55%	41.44%	42.17%
Wisconsin Public Service Corporation	WEC	45.35%	46.47%	43.64%	44.90%	45.20%	45.39%	45.68%	45.95%	45.32%
Northern States Power Company - MN	XEL	46.32%	46.74%	48.05%	46.66%	46.97%	47.11%	47.16%	47.51%	47.06%
Northern States Power Company - WI	XEL	45.57%	45.73%	47.08%	47.47%	43.64%	44.82%	44.99%	47.08%	45.80%
Public Service Company of Colorado	XEL	43.51%	43.66%	44.00%	44.45%	43.06%	43.21%	43.49%	43.88%	43.66%
Southwestern Public Service Company	XEL	45.87%	46.17%	48.80%	45.92%	46.46%	46.38%	46.19%	47.90%	46.71%
Mean		47.85%	47.91%	47.96%	48.01%	47.67%	48.02%	47.57%	48.05%	47.83%

Flotation Cost Adjustment - Combined Proxy Group

Two most recent open market common stock issuances per company, if available

						Net	Total	Gross Equity		
		Shares	Offering	Underwriting	Offering	Proceeds Per	Flotation	Issue Before		Flotation Cost
Company	Date	Issued	Price	Discount	Expense	Share	Costs	Costs	Net Proceeds	Percentage
ALLETE, Inc.	2/26/2014	3,220,000	\$49.75	\$1,7413	\$450.000	\$47.87	\$6.056.825	\$160.195.000	\$154,138,175	3.781%
ALLETE, Inc.	5/25/2001	7,475,000	\$23.68	\$0.9472	\$350,000	\$22.69	\$7,430,320	\$177.008.000	\$169,577,680	4.198%
Alliant Energy Corporation	7/1/2003	17,250,000	\$19.25	\$0.7700	\$370,000	\$18.46	\$13,652,500	\$332.062.500	\$318,410,000	4.111%
Alliant Energy Corporation	11/8/2001	9.775.000	\$28.00	\$1.0500	\$425,000	\$26.91	\$10,688,750	\$273,700,000	\$263,011,250	3.905%
Ameren Corp.	9/9/2009	21.850.000	\$25.25	\$0.7575	\$450,000	\$24.47	\$17.001.375	\$551.712.500	\$534,711,125	3.082%
Ameren Corp.	6/30/2004	10,925,000	\$42.00	\$1.2600	\$400,000	\$40.70	\$14,165,500	\$458,850,000	\$444,684,500	3.087%
American Electric Power Company, Inc.	4/1/2009	69,000,000	\$24.50	\$0.7350	\$400,000	\$23.76	\$51,115,000	\$1,690,500,000	\$1,639,385,000	3.024%
American Electric Power Company, Inc.	2/27/2003	57,500,000	\$20.95	\$0.6285	\$550,000	\$20.31	\$36,688,750	\$1,204,625,000	\$1,167,936,250	3.046%
Avista Corporation	12/11/2006	3,162,500	\$25.05	\$0.4800	\$300,000	\$24.48	\$1,818,000	\$79,220,625	\$77,402,625	2.295%
CMS Energy Corporation	3/30/2005	23.000.000	\$12.25	\$0.4288	\$325,000	\$11.81	\$10.187.400	\$281,750,000	\$271,562,600	3.616%
CMS Energy Corporation	10/7/2004	32.775.000	\$9.10	\$0.3185	\$325,000	\$8.77	\$10,763,838	\$298,252,500	\$287,488,663	3.609%
DTE Energy Company	6/19/2002	6.325.000	\$43.25	\$1.4056	\$250,000	\$41.80	\$9,140,420	\$273,556,250	\$264,415,830	3.341%
Eversource Energy	3/16/2009	18.975.000	\$20.20	\$0.6565	\$335,000	\$19.53	\$12,792,088	\$383,295,000	\$370,502,913	3.337%
Eversource Energy	12/6/2005	23,000,000	\$19.09	\$0.6200	\$340,000	\$18.46	\$14,600,000	\$439.070.000	\$424,470,000	3.325%
FirstEnergy Corp.	9/11/2003	32,200,000	\$30.00	\$0.9750	\$423,000	\$29.01	\$31,818,000	\$966,000,000	\$934,182,000	3.294%
IDACORP, Inc.	12/9/2004	4,025,000	\$30.00	\$1,2000	\$300,000	\$28.73	\$5,130,000	\$120,750,000	\$115,620,000	4.248%
MGE Energy, Inc.	9/10/2004	1,265,000	\$31.85	\$1.0350	\$125,000	\$30.72	\$1,434,275	\$40,290,250	\$38,855,975	3.560%
NorthWestern Corporation	9/29/2015	1,100,000	\$51.81	\$1.3300	\$1,000,000	\$49.57	\$2,463,000	\$56,991,000	\$54,528,000	4.322%
NorthWestern Corporation	11/4/2014	7,766,990	\$51.50	\$1.8025	\$1,000,000	\$49.57	\$14,999,999	\$399,999,985	\$384,999,986	3.750%
OGE Energy Corp.	8/21/2003	5,324,074	\$21.60	\$0.7900	\$325,000	\$20.75	\$4,531,018	\$114,999,998	\$110,468,980	3.940%
Otter Tail Corporation	9/18/2008	5,175,000	\$30.00	\$1.0875	\$400,000	\$28.84	\$6,027,813	\$155,250,000	\$149,222,188	3.883%
Otter Tail Corporation	12/7/2004	3,335,000	\$25.45	\$0.9500	\$300,000	\$24.41	\$3,468,250	\$84,875,750	\$81,407,500	4.086%
Pinnacle West Capital Corporation	4/8/2010	6,900,000	\$38.00	\$1.3300	\$190,000	\$36.64	\$9,367,000	\$262,200,000	\$252,833,000	3.572%
Pinnacle West Capital Corporation	4/27/2005	6,095,000	\$42.00	\$1.3650	\$250,000	\$40.59	\$8,569,675	\$255,990,000	\$247,420,325	3.348%
PNM Resources, Inc.	12/6/2006	5,750,000	\$30.79	\$1.0780	\$250,000	\$29.67	\$6,448,500	\$177,042,500	\$170,594,000	3.642%
PNM Resources, Inc.	3/23/2005	3,910,000	\$26.76	\$0.8697	\$200,000	\$25.84	\$3,600,527	\$104,631,600	\$101,031,073	3.441%
Portland General Electric Company	6/11/2013	12,765,000	\$29.50	\$0.9588	\$600,000	\$28.49	\$12,838,444	\$376,567,500	\$363,729,056	3.409%
Portland General Electric Company	3/5/2009	12,477,500	\$14.10	\$0.4935	\$375,000	\$13.58	\$6,532,646	\$175,932,750	\$169,400,104	3.713%
SCANA Corporation	5/11/2010	8,222,500	\$37.00	\$1.2950	\$350,000	\$35.66	\$10,998,138	\$304,232,500	\$293,234,363	3.615%
SCANA Corporation	12/31/2008	2,875,000	\$35.50	\$0.5325	\$350,000	\$34.85	\$1,880,938	\$102,062,500	\$100,181,563	1.843%
Xcel Energy Inc.	8/3/2010	21,850,000	\$21.50	\$0.6450	\$600,000	\$20.83	\$14,693,250	\$469,775,000	\$455,081,750	3.128%
Xcel Energy Inc.	9/9/2008	17,250,000	\$20.25	\$0.1500	\$600,000	\$20.07	\$3,187,500	\$349,312,500	\$346,125,000	0.913%
Mean							¢11 377 904	\$3.47 F21 Q13		

\$11,377,804 \$347,521,913 WEIGHTED AVERAGE FLOTATION COSTS: 3.274% Mean

Constant Growth Discounted Cash Flow Model Adjusted for Flotation Costs - 30 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
			Average		Expected [	Dividend Yielc	Zacks	First Call	Value Line	Average		Flotation
		Annualized	Stock	Dividend		Adjusted for	Earnings	Earnings	Earnings	Earnings		Adjusted
Company	Ticker	Dividend	Price	Yield	Current	Flot. Costs	Growth	Growth	Growth	Growth	DCF k(e)	DCF k(e)
LLETE, Inc.	ALE	\$2.08	\$59.67	3.49%	3.57%	3.69%	5.50%	5.00%	4.00%	4.83%	8.40%	8.52%
lliant Energy Corporation	LNT	\$1.18	\$38.20	3.08%	3.17%	3.28%	6.10%	6.60%	6.00%	6.23%	9.40%	9.51%
meren Corporation	AEE	\$1.70	\$50.12	3.39%	3.49%	3.61%	6.10%	5.20%	6.00%	5.77%	9.26%	9.37%
merican Electric Power Company, Inc.	AEP	\$2.24	\$66.05	3.39%	3.47%	3.58%	4.90%	4.10%	4.00%	4.33%	7.80%	7.92%
vista Corporation	AVA	\$1.37	\$41.65	3.29%	3.37%	3.49%	5.00%	5.00%	5.00%	5.00%	8.37%	8.49%
MS Energy Corporation	CMS	\$1.24	\$42.95	2.89%	2.98%	3.08%	6.40%	7.24%	6.00%	6.55%	9.53%	9.63%
TE Energy Company	DTE	\$3.08	\$92.91	3.32%	3.40%	3.52%	5.80%	5.35%	5.00%	5.38%	8.79%	8.90%
I Paso Electric Company	EE	\$1.24	\$45.30	2.74%	2.81%	2.91%	6.70%	7.00%	2.50%	5.40%	8.21%	8.31%
ntergy Corporation	ETR	\$3.40	\$77.45	4.39%	4.47%	4.62%	NA	NA	3.50%	3.50%	7.97%	8.12%
versource Energy	ES	\$1.78	\$56.36	3.16%	3.25%	3.36%	6.30%	5.49%	6.00%	5.93%	9.18%	9.29%
irstEnergy Corp.	FE	\$1.44	\$33.34	4.32%	4.51%	4.67%	NA	NA	9.00%	9.00%	13.51%	13.67%
DACORP, Inc.	IDA	\$2.04	\$74.50	2.74%	2.79%	2.88%	4.00%	4.00%	3.00%	3.67%	6.46%	6.55%
IGE Energy, Inc.	MGEE	\$1.18	\$53.30	2.21%	2.27%	2.35%	NA	4.00%	7.00%	5.50%	7.77%	7.85%
orthWestern Corporation	NWE	\$2.00	\$59.68	3.35%	3.44%	3.56%	5.00%	5.00%	6.50%	5.50%	8.94%	9.06%
GE Energy Corp.	OGE	\$1.10	\$30.95	3.55%	3.63%	3.75%	5.20%	4.30%	3.00%	4.17%	7.80%	7.92%
tter Tail Corporation	OTTR	\$1.25	\$30.96	4.04%	4.16%	4.30%	NA	6.00%	6.00%	6.00%	10.16%	10.30%
innacle West Capital Corporation	PNW	\$2.50	\$75.82	3.30%	3.36%	3.48%	4.00%	3.73%	4.00%	3.91%	7.27%	7.39%
NM Resources, Inc.	PNM	\$0.88	\$33.49	2.63%	2.74%	2.83%	7.60%	8.76%	9.00%	8.45%	11.19%	11.28%
ortland General Electric Company	POR	\$1.28	\$41.86	3.06%	3.15%	3.26%	6.40%	6.57%	5.50%	6.16%	9.31%	9.42%
CANA Corporation	SCG	\$2.30	\$71.01	3.24%	3.32%	3.43%	5.30%	5.40%	4.50%	5.07%	8.39%	8.50%
/isconsin Energy Corporation	WEC	\$1.98	\$61.68	3.21%	3.31%	3.42%	6.30%	6.77%	6.00%	6.36%	9.67%	9.78%
cel Energy Inc.	XEL	\$1.36	\$42.20	3.22%	3.31%	3.42%	5.30%	5.27%	5.50%	5.36%	8.67%	8.78%

Notes:
The proxy group DCF result is adjusted for flotation costs by dividing each company's expected dividend yield by (
flotation cost). The flotation cost adjustment is derived as the difference between the unadjusted DCF result and
the DCF result adjusted for flotation costs.
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional
[3] Equals [1] / [2]
[4] Equals [3] x (1 + 0.5 x [9])
[5] Equals [4] / (1 - 0.0327)
[6] Source: Zacks
[7] Source: Yahool Finance
[8] Source: Value Line
[9] Equals Average([6], [7], [8])
[10] Equals [4] + [9]
[11] Equals [5] + [9]
[11] Equals [5] + [9]
[12] Equals Average [11] - Average [10]

PROXY GROUP MEAN

DCF Result Adjusted For Flotation Costs: DCF Result Unadjusted For Flotation Costs: Difference (Flotation Cost Adjustment) 9.02% 8.91% 0.11% [12]

# Proxy Group Comparison

Companies	Ticker	Hevert	Baudino	Gorman	Woolridge	Combined Group
ALLETE, Inc.	ALE	√	√ V	√ V	√ √	√ √
Alliant Energy Corporation	LNT	V	V	√	V	1
Ameren Corporation	AEE	V		V	V	<b>√</b>
American Electric Power Company	AEP	<b>√</b>		V	V	<b>√</b>
Avista Corporation	AVA	<b>√</b>	V	V	V	<b>√</b>
Black Hills Corporation	BKH				V	[1]
CMS Energy Corporation	CMS	V		V	V	-√
Consolidated Edison, Inc.	ED		V		V	[2]
Dominion Resources, Inc.	D	<b>V</b>			V	[1]*
OTE Energy Corporation	DTE	<b>√</b>		V		√
Duke Energy Corporation	DUK				V	[1]
Edison International	EIX		V		V	[1]
El Paso Electric	EE				<b>V</b>	<b>√</b>
Entergy Corporation	ETR				V	<b>√</b>
Eversource Energy	ES		V		V	V
irst Energy Corporation	FE				V	√
Great Plains Energy, Inc.	GXP	V				[1]*
DACORP, Inc.	IDA	V	V	V	V	<b>√</b>
MGE Energy, Inc.	MGEE				$\sqrt{}$	$\sqrt{}$
NextEra Energy, Inc.	NEE				$\sqrt{}$	[1], [3]
NorthWestern Corporation	NWE	V	V	V	V	
DGE Energy Corp.	OGE	V	V	V	V	
Otter Tail Corporation	OTTR	V			V	$\sqrt{}$
PG&E Corporation	PCG				$\sqrt{}$	[1]
Pinnacle West Capital Corporation	PNW	$\sqrt{}$		$\checkmark$	$\sqrt{}$	$\checkmark$
PNM Resources	PNM	V		V	V	$\sqrt{}$
Portland General Electric Co.	POR	$\sqrt{}$	$\sqrt{}$	V	$\sqrt{}$	$\checkmark$
SCANA Corporation	SCG	$\sqrt{}$		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Southern Company	SO				$\sqrt{}$	[1]
Vestar Energy, Inc.	WR	$\checkmark$				[1]*
Visconsin Energy Corporation	WEC		$\sqrt{}$		$\sqrt{}$	
Kcel Energy, Inc.	XEL	V		V		
Included in proxy group Originally included in Hevert proxy g	roup, but rem	oved for recer	nt activity			
1] Removed for being party to a merc	ger or significa	ant transaction	•			di dalam

Note: EIX is subject to onoing settlement payments associated with the bankruptcy of its merchant generation division

Note: PCG was subject to significant penalties from the San Bruno pipeline incident

[2] Removed for having no regulated generation

[3] Parent company; removed to avoid circular logic

					Percent	
					Change	Percent
					Trailing to	Change to
Company	Ticker	Trailing P/E	P/E	Forecasted P/E	Forecast	Forecast
ALLETE, Inc.	ALE	17.30	18.70	14.00	-19%	-25%
Alliant Energy Corporation	LNT	22.90	20.80	15.00	-34%	-28%
Ameren Corporation	AEE	21.00	19.80	14.00	-33%	-29%
American Electric Power Company, Inc.	AEP	19.70	17.80	14.50	-26%	-19%
Avista Corporation	AVA	21.50	20.50	14.00	-35%	-32%
Black Hills Corporation	BKH	21.00	23.50	15.00	-29%	-36%
CMS Energy Corporation	CMS	24.30	21.30	14.00	-42%	-34%
Consolidated Edison, Inc.	ED	19.20	19.20	15.50	-19%	-19%
Dominion Resources, Inc.	D	22.50	20.10	18.00	-20%	-10%
Duke Energy Corporation	DUK	20.00	18.00	16.50	-18%	-8%
Edison International	EIX	17.20	17.70	15.00	-13%	-15%
El Paso Electric Company	EE	22.40	23.70	17.00	-24%	-28%
Entergy Corporation	ETR	14.40	15.40	13.00	-10%	-16%
Eversource Energy	ES	21.10	19.50	14.50	-31%	-26%
FirstEnergy Corp.	FE	15.10	13.00	11.50	-24%	-12%
IDACORP, Inc.	IDA	19.10	18.80	14.50	-24%	-23%
MGE Energy, Inc.	MGEE	26.20	24.10	15.00	-43%	-38%
NextEra Energy, Inc.	NEE	20.00	19.80	17.50	-13%	-12%
NorthWestern Corporation	NWE	23.30	21.20	13.50	-42%	-36%
OGE Energy Corp.	OGE	19.50	17.80	17.00	-13%	-4%
Otter Tail Corporation	OTTR	19.50	19.70	18.00	-8%	-9%
PG&E Corporation	PCG	29.80	21.10	12.00	-60%	-43%
Pinnacle West Capital Corporation	PNW	19.10	18.60	14.50	-24%	-22%
PNM Resources, Inc.	PNM	NMF	20.40	16.00	N/A	-22%
Portland General Electric Company	POR	19.50	18.30	13.00	-33%	-29%
SCANA Corporation	SCG	19.10	17.90	13.50	-29%	-25%
Southern Company	SO	17.50	17.90	15.00	-14%	-16%
Wisconsin Energy Corporation	WEC	23.50	21.00	15.00	-36%	-29%
Xcel Energy Inc.	XEL	19.60	18.80	14.50	-26%	-23%

Source: Value Line as of June 30, 2016

Proof Concept: Earnings, Dividends, Book Value and Stock Price Growth Rate Equivalence in Constant Growth DCF

Line Description	IMPLIED GROWTH RATE AT A	LLOWED RO	E:										
Input	Dividend Yield	4.50% [											
Assumes g = Allowed ROE - Div. Yield	Assumed Growth Rate	6.50%											
Input	Total Return	11.00% [	1]										
lanut	Dayout Datio	67 500/ [	21										
Input Input	Payout Ratio Book Value/Share	67.50% [2 20 [2											
input	BOOK Value/Stiate	20 [	2]										
		0	1	2	3	4	5	6	7	8	9	10	250
BV/S Escalates at Constant Growth g	Book Value/Share	\$ 20.00		\$ 22.68	\$ 24.16	\$ 25.73	\$ 27.40	\$ 29.18	\$ 31.08	\$ 33.10	\$ 35.25	\$ 37.54 \$	137,540,924.55
Demonstrating Constant BV/S growth			6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%
Earnings based on ROE applied to BV/S Demonstrating Constant EPS growth	Earnings/share	\$ 2.20	\$ 2.34 6.50%	\$ 2.50 6.50%	\$ 2.66 6.50%	\$ 2.83 6.50%	\$ 3.01 6.50%	\$ 3.21 6.50%	\$ 3.42 6.50%	\$ 3.64 6.50%		\$ 4.13 \$ 6.50%	15,129,501.70 6.50%
Demonstrating Constant Return Earned based on BV/S and EPS	Allowed ROE	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%		11.00%	11.00%	11.00%
Div/S based on EPS and Constant Payout ratio	Dividends/Share	\$ 1.49		\$ 1.68	\$ 1.79	\$ 1.91		\$ 2.17		\$ 2.46		\$ 2.79 \$	10.212.413.65
Demonstrating Constant Div/S growth	Bividorido Cridio	Ψ 1.10	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%		6.50%	6.50%	6.50%
Retained Earnings based on difference between EPS and Div/S	Earnings retained to book value	\$ 0.72				\$ 0.92		\$ 1.04		\$ 1.18	\$ 1.26	\$ 1.34 \$	4,917,088.05
Demonstrating Constant growth in Retained Earnings			6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%
Demonstrating Constant Market/Book ratio	Market/Book Ratio	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757
DCF calculation of market price = [Div/S]*[1+g]/[ROE-g]	Market Price	\$ 35.15		\$ 39.86			\$ 48.15		\$ 54.61	\$ 58.16	\$ 61.95	\$ 65.97	241,693,789.67
Demonstrating Price Appreciation equals Long Term Growth Rate Demonstrating Constant Price/Earnings Ratio	Price Appreciation Price/Earnings	6.50% 15.98	OK 15.98	<== Price 15.98	apprecial 15.98	ion snould 15.98	equal long 15.98	term grov 15.98	vtn rate 15.98	15.00	15.98	45.00	15.98
Demonstrating Constant Price/Earnings Ratio	Frice/Earnings	15.96	15.96	15.96	15.96	15.90	15.90	15.96	15.90	15.98	15.90	15.98	15.90
Present Value Factor calculated based upon the current period and the													
Constant ROE	Present Value Factor		0.9009	0.8116	0.7312	0.6587	0.5935	0.5346	0.4817	0.4339	0.3909	0.3522	0.0000
CASE 1	DIVIDENDO IN DEDDETHEY												
Present value of Div/S obtained by multiplying nominal Div/S by the	DIVIDENDS IN PERPETUITY											988	
Present Value Factor for the period	Present Value Dividend		1.4248	1.3670	1.3116	1.2584	1.2074	1.1585	1.1115	1.0664	1.0232	0.9817	0.0000
Total Value of investment sum of all Present Value Dividends in perpetuit			1.1210	1.0070	1.0110	1.2001	1.207	1.1000	1.1110	1.0001	1.0202	0.0011 9999	0.0000
(250 instances for demonstration purposes)	Value of Investment	:	\$ 35.14										
CASE 2	10-YEAR HOLDING PERIOD												
Present value of Div/S obtained by multiplying nominal Div/S by the	10-TEAR HOLDING PERIOD												
Present Value Factor for the period	Present Value of Dividend		S 1.42	\$ 1.37	\$ 1.31	\$ 1.26	\$ 1.21	\$ 1.16	S 1.11	\$ 1.07	\$ 1.02	\$ 0.98	
				*	*		*		•	*	*		
Present value of Stock Price obtained by multiplying nominal Stock Price													
by the Present Value Factor for the 10th Period (Terminal Value)	Present Value of Stock Price											23.23	
Value of dividends = sum of all Present Value Dividends for periods 1-10	Value of Dividends		\$ 11.91										
Present value of Stock Price obtained by multiplying nominal Stock Price													
by the Present Value Factor for the 10th Period (Terminal Value)	Value of Stock Price		\$ 23.23										
Total Value of investment sum of all Present Value Dividends for periods			V 20.20										
10 and Present Value of Stock in period 10 (Terminal Value)	Value of Investment	:	\$ 35.15										
CASE 3	5-YEAR HOLDING PERIOD												
Present value of Div/S obtained by multiplying nominal Div/S by the	3-TEAR HOLDING FERIOD												
Present Value Factor for the period	Present Value of Dividend		\$ 1.42	\$ 1.37	\$ 1.31	\$ 1.26	\$ 1.21						
Present value of Stock Price obtained by multiplying nominal Stock Price			_										
by the Present Value Factor for the 5th Period (Terminal Value)	Present Value of Stock Price						28.58						
Value of dividends = sum of all Present Value Dividends for periods 1-5	Value of Dividends		\$ 6.57										
Present value of Stock Price obtained by multiplying nominal Stock Price by the Present Value Factor for the 5th Period (Terminal Value)	Value of Stock Price		\$ 28.58										
Total Value of investment sum of all Present Value Dividends for periods			₩ 20.00										
5 and Present Value of Stock in period 5 (Terminal Value)	Value of Investment		\$ 35.15										

<sup>[1]</sup> Source: Exhibit RBH-XX. Note, for purposes of this exhibit, these data are illustrative only. [2] Note: Illustrative only.

Growth Rate Regression Analysis

		[1]	[2]	[3]	[4]	[5]
			Proj. Earnings	Proj. Div Growth	Proj. BV Growth	Sustainable
Company	Ticker	Median P/E Ratio	Growth Rate	Rate	Rate	Growth Rate
ALLETE	ALE	16.00	4.00%	3.50%	4.00%	3.1%
Alliant Energy	LNT	15.00	6.00%	4.50%	4.00%	4.9%
Ameren Corp.	AEE	15.00	6.00%	4.00%	3.50%	3.4%
Amer. Elec. Power	AEP	14.00	4.00%	5.00%	4.00%	3.1%
Avista Corp.	AVA	16.00	5.00%	4.00%	3.50%	3.3%
Black Hills	ВКН	17.00	6.50%	6.00%	5.00%	4.9%
CMS Energy Corp.	CMS	16.00	6.00%	6.50%	6.00%	5.1%
Consol. Edison	ED	15.00	1.50%	3.00%	3.50%	2.6%
Dominion Resources	D	18.00	8.00%	8.00%	5.00%	5.0%
Duke Energy	DUK	N/A	4.00%	3.50%	1.50%	2.0%
Edison Int'l	EIX	12.00	3.50%	9.00%	5.50%	5.3%
El Paso Electric	EE	15.00	2.50%	5.00%	3.50%	3.3%
Entergy Corp.	ETR	13.00	3.50%	3.00%	3.00%	4.5%
FirstEnergy Corp.	FE	16.00	9.00%	1.00%	3.50%	4.7%
IDACORP, Inc.	IDA	14.00	3.00%	7.50%	4.00%	3.6%
MGE Energy	MGEE	16.00	7.00%	4.00%	5.00%	7.3%
NextEra Energy	NEE	15.00	6.00%	11.00%	5.50%	3.9%
Eversource Energy	ES	17.00	6.00%	6.00%	4.00%	4.0%
NorthWestern Corp.	NWE	16.00	6.50%	5.50%	4.50%	4.1%
OGE Energy	OGE	14.00	3.00%	9.50%	3.50%	3.6%
Otter Tail Corp.	OTTR	23.00	6.00%	1.50%	4.50%	3.9%
PG&E Corp.	PCG	16.00	12.00%	4.50%	5.00%	4.8%
Pinnacle West Capital	PNW	15.00	4.00%	5.00%	3.50%	3.5%
PNM Resources	PNM	17.00	9.00%	10.00%	3.50%	4.3%
Portland General	POR	15.00	5.50%	6.00%	4.00%	4.0%
SCANA Corp.	SCG	14.00	4.50%	5.00%	5.00%	4.0%
Southern Co.	SO	16.00	2.50%	3.00%	3.00%	3.1%
Wisconsin Energy	WEC	16.00	6.00%	7.00%	7.00%	3.6%
Xcel Energy Inc.	XEL	15.00	5.50%	6.00%	4.00%	3.9%

Source: Value Line Investment Survey as of June 30, 2016; Exhibit JRW-10

# SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.408347
R Square	0.166747
Adjusted R Square	0.134699
Standard Error	1.796265
Observations	28.000000

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	16.787844	16.787844	5.203006	0.030982
Residual	26	83.890728	3.226566		
Total	27	100.678571			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	13.736357	0.887633	15.475269	0.000000	11.911801	15.560912
Proj. Earnings Growth Rate	34.461849	15.108155	2.281010	0.030982	3.406592	65.517106

# SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.270143
R Square	0.072977
Adjusted R Square	0.037322
Standard Error	1.894642
Observations	28

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	7.347222	7.347222	2.046770	0.164439
Residual	26	93.331349	3.589667		
Total	27	100.678571			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	16.778439	0.893586	18.776533	0.000000	14.941648	18.615231
Proj. Div Growth Rate	-21.296296	14.885711	-1.430654	0.164439	-51.894314	9.301721

# SUMMARY OUTPUT

Regression Sta	tistics
Multiple R	0.113124
R Square	0.012797
Adjusted R Square	-0.025172
Standard Error	1.955172
Observations	28

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	1.288398	1.288398	0.337039	0.566542
Residual	26	99.390173	3.822699		
Total	27	100.678571			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	14.628613	1.725545	8.477675	0.000000	11.081703	18.175522
Proj. BV Growth Rate	22.832370	39.328829	0.580550	0.566542	-58.009196	103.673936

# SUMMARY OUTPUT

Regression Statistics	5
Multiple R	0.055388
R Square	0.003068
Adjusted R Square	-0.035276
Standard Error	1.964783
Observations	28

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.308861	0.308861	0.080008	0.779526
Residual	26	100.369710	3.860373		
Total	27	100.678571			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	15.137599	1.701026	8.899100	0.000000	11.641090	18.634107
Sustainable Growth Rate	11.442334	40.452702	0.282857	0.779526	-71.709386	94.594053

# SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.546922
R Square	0.299124
Adjusted R Square	0.177233
Standard Error	1.751561
Observations	28

# ANOVA

	df	SS	MS	F	Significance F
Regression	4	30.115390	7.528847	2.454020	0.074516
Residual	23	70.563182	3.067964		
Total	27	100.678571			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	15.282894	1.828242	8.359341	0.000000	11.500889	19.064900
Proj. Earnings Growth Rate	41.198478	17.400325	2.367684	0.026688	5.203164	77.193792
Proj. Div Growth Rate	-26.857425	14.973545	-1.793658	0.086027	-57.832562	4.117713
Proj. BV Growth Rate	37.759099	42.386933	0.890819	0.382250	-49.924952	125.443150
Sustainable Growth Rate	-50.037609	44.298500	-1.129555	0.270307	-141.676039	41.600820

Analysts' Projected EPS Growth Rates - Woolridge Proxy Group as Filed

Company	Ticker	Yahoo	Reuters	Zacks	Mean
ALLETE, Inc.	ALE	3.00%	NA	4.50%	3.75%
Alliant Energy Corporation	LNT	6.60%	6.60%	6.10%	6.43%
Ameren Corporation	AEE	5.20%	5.20%	6.10%	5.50%
American Electric Power Company, Inc.	AEP	4.10%	4.10%	4.90%	4.37%
Avista Corporation	AVA	5.00%	NA	5.00%	5.00%
Black Hills Corporation	BKH	6.50%	NA	6.50%	6.50%
CMS Energy Corporation	CMS	7.20%	7.20%	6.40%	6.93%
Consolidated Edison, Inc.	ED	1.90%	1.90%	2.30%	2.03%
Dominion Resources, Inc.	D	5.90%	5.90%	6.80%	6.20%
Duke Energy Corporation	DUK	4.60%	4.60%	4.80%	4.67%
Edison International	EIX	2.50%	2.50%	4.90%	3.30%
El Paso Electric Company	EE	7.00%	NA	6.70%	6.85%
Entergy Corporation	ETR	-2.40%	-2.40%	-2.30%	-2.37%
Eversource Energy	ES	6.30%	6.30%	6.30%	6.30%
FirstEnergy Corp.	FE	-2.50%	-2.50%	-1.00%	-2.00%
IDACORP, Inc.	IDA	4.00%	4.00%	4.00%	4.00%
MGE Energy, Inc.	MGEE	4.00%	NA	NA	4.00%
NextEra Energy, Inc.	NEE	7.40%	7.40%	6.90%	7.23%
NorthWestern Corporation	NWE	5.00%	5.00%	5.00%	5.00%
OGE Energy Corp.	OGE	4.30%	4.30%	5.20%	4.60%
Otter Tail Corporation	OTTR	6.00%	NA	NA	6.00%
PG&E Corporation	PCG	6.10%	6.10%	5.10%	5.77%
Pinnacle West Capital Corporation	PNW	3.70%	3.70%	4.10%	3.83%
PNM Resources, Inc.	PNM	8.80%	8.80%	7.60%	8.40%
Portland General Electric Company	POR	6.60%	6.60%	6.40%	6.53%
SCANA Corporation	SCG	4.80%	4.80%	5.30%	4.97%
Southern Company	SO	3.30%	3.20%	4.10%	3.53%
WEC Energy Group, Inc.	WEC	6.80%	6.80%	6.30%	6.63%
Xcel Energy Inc.	XEL	5.30%	5.30%	5.30%	5.30%
Average		4.72%	4.58%	4.94%	4.80%
Median		5.00%	5.00%	5.20%	5.00%

Source: Exhibit JRW-10, Page 5 (Electronic version to two decimal places)

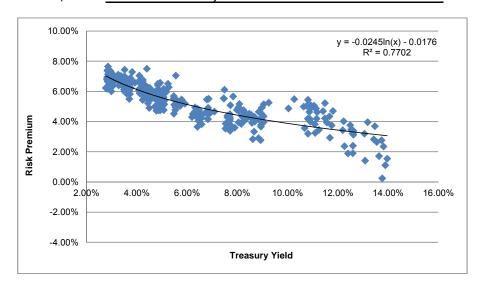
# Analysts' Projected EPS Growth Rates - Woolridge Proxy Group Corrected

Company	Ticker	Yahoo	Reuters	Zacks	Mean
ALLETE, Inc.	ALE	3.00%	NA	4.50%	3.75%
Alliant Energy Corporation	LNT	6.60%	6.60%	6.10%	6.43%
Ameren Corporation	AEE	5.20%	5.20%	6.10%	5.50%
American Electric Power Company, Inc.	AEP	4.10%	4.10%	4.90%	4.37%
Avista Corporation	AVA	5.00%	NA	5.00%	5.00%
Black Hills Corporation	BKH	6.50%	NA	6.50%	6.50%
CMS Energy Corporation	CMS	7.20%	7.20%	6.40%	6.93%
Consolidated Edison, Inc.	ED	1.90%	1.90%	2.30%	2.03%
Dominion Resources, Inc.	D	5.90%	5.90%	6.80%	6.20%
Duke Energy Corporation	DUK	4.60%	4.60%	4.80%	4.67%
Edison International	EIX	2.50%	2.50%	4.90%	3.30%
El Paso Electric Company	EE	7.00%	NA	6.70%	6.85%
Entergy Corporation	ETR	NA	NA	NA	NA
Eversource Energy	ES	6.30%	6.30%	6.30%	6.30%
FirstEnergy Corp.	FE	NA	NA	NA	NA
IDACORP, Inc.	IDA	4.00%	4.00%	4.00%	4.00%
MGE Energy, Inc.	MGEE	4.00%	NA	NA	4.00%
NextEra Energy, Inc.	NEE	7.40%	7.40%	6.90%	7.23%
NorthWestern Corporation	NWE	5.00%	5.00%	5.00%	5.00%
OGE Energy Corp.	OGE	4.30%	4.30%	5.20%	4.60%
Otter Tail Corporation	OTTR	6.00%	NA	NA	6.00%
PG&E Corporation	PCG	6.10%	6.10%	5.10%	5.77%
Pinnacle West Capital Corporation	PNW	3.70%	3.70%	4.10%	3.83%
PNM Resources, Inc.	PNM	8.80%	8.80%	7.60%	8.40%
Portland General Electric Company	POR	6.60%	6.60%	6.40%	6.53%
SCANA Corporation	SCG	4.80%	4.80%	5.30%	4.97%
Southern Company	SO	3.30%	3.20%	4.10%	3.53%
WEC Energy Group, Inc.	WEC	6.80%	6.80%	6.30%	6.63%
Xcel Energy Inc.	XEL	5.30%	5.30%	5.30%	5.30%
Average		5.26%	5.25%	5.46%	5.32%
Median		5.20%	5.20%	5.30%	5.30%

Source: Exhibit JRW-10, Page 5 Difference: 0.52%

Bond Yield Plus Risk Premium - Settled Only

	[1]	[2]	[3] 30-Year	[4]	[5]
			Treasury	Risk	Return on
	Constant	Slope	Yield	Premium	Equity
	-1.76%	-2.45%			
Current 30-Year Treasury			2.50%	7.28%	9.78%
Blue Chip Financial Forecast 2017Q3 Projection		3.40%	6.52%	9.92%	
Blue Chip Financial Forecast 2020 Projection			4.40%	5.89%	10.29%



# Notes:

- [1] Constant of regression equation
- [2] Slope of regression equation
- [3] Source: Current = Bloomberg Professional,
- [3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2.
- [3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
- [4] Equals [1] + In([3]) x [2]
- [5] Equals [3] + [4]
- [6] Source: SNL Financial
- [7] Source: SNL Financial
- [8] Source: Bloomberg Professional, equals 192-trading day average (i.e. lag period)
- [9] Equals [7] [8]

		emium - Sett [8]	•
[6] Date of	[7]	رە <sub>]</sub> 30-Year	[9]
Electric Rate	Return on	Treasury	Risk
Case	Equity	Yield	Premium
6/2/1980	15.63%	10.65%	4.98%
6/12/1980	14.25%	10.68%	3.57%
7/15/1980	15.80%	10.76%	5.04%
8/14/1980	14.00%	10.70%	3.19%
8/14/1980	16.25%	10.81%	5.44%
9/15/1980	15.80%	10.92%	4.88%
10/16/1980	16.10%	11.06%	5.04%
12/9/1980	15.35%	11.16%	4.19%
12/18/1980	15.80%	11.18%	4.62%
9/3/1981	14.50%	13.09%	1.41%
10/15/1981	16.25%	13.43%	2.82%
11/25/1981	15.35%	13.64%	1.71%
2/17/1982	15.00%	13.89%	1.11%
4/2/1982	15.50%	13.96%	1.54%
6/23/1982	16.17%	13.82%	2.35%
7/13/1982	14.00%	13.77%	0.23%
7/19/1982	16.50%	13.75%	2.75%
9/3/1982	16.20%	13.56%	2.64%
9/23/1982	17.17%	13.47%	3.70%
10/22/1982	17.15%	13.19%	3.96%
11/4/1982	16.25%	13.06%	3.19%
12/22/1982	16.25%	12.50%	3.75%
1/12/1983	14.63%	12.26%	2.37%
3/30/1983	16.71%	11.49%	5.22%
5/23/1983	14.90%	10.91%	3.99%
8/19/1983	15.00%	10.81%	4.19%
9/7/1983	15.00%	10.88%	4.12%
9/14/1983	15.78%	10.91%	4.87%
11/1/1983	16.00%	11.08%	4.92%
11/10/1983	14.35%	11.11%	3.24%
11/23/1983	16.00%	11.13%	4.87%
12/20/1983	14.69%	11.25%	3.44%
1/30/1984	16.10%	11.41%	4.69%
2/15/1984	15.70%	11.49%	4.21%
4/2/1984	15.50%	11.76%	3.74%
6/22/1984	16.25%	12.23%	4.02%
7/19/1984	14.30%	12.41%	1.89%
9/26/1984 9/28/1984	14.50% 15.00%	12.60%	1.90%
11/9/1984	16.00%	12.60% 12.62%	2.40% 3.38%
11/14/1984	15.75%	12.62%	3.13%
12/3/1984	15.75%	12.52%	3.13%
12/20/1984	16.00%	12.54%	3.46%
3/15/1985	15.62%	12.20%	3.42%
5/10/1985	16.50%	11.81%	4.69%
5/29/1985	14.61%	11.69%	2.92%
5/31/1985	16.00%	11.67%	4.33%
6/14/1985	15.50%	11.57%	3.93%
9/9/1985	14.90%	11.09%	3.81%
10/28/1985	16.00%	10.92%	5.08%
10/31/1985	15.06%	10.90%	4.16%
11/7/1985	15.50%	10.87%	4.63%
2/5/1986	15.75%	10.27%	5.48%
3/5/1986	14.90%	10.04%	4.86%

5/16/1986	14.50%	9.26%	5.24%
9/16/1986	12.75%	7.98%	4.77%
12/16/1986	13.60%	7.50%	6.10%
3/31/1987	13.00%	7.46%	5.54%
4/6/1987	13.00%	7.47%	5.53%
8/27/1987	13.25%		5.16%
	13.25%	8.09%	5.10%
9/30/1987	12.75%	8.35%	4.40%
10/15/1987	13.00%	8.48%	4.52%
12/17/1987	11.75%	8.85%	2.90%
12/18/1987	13.50%	8.86%	4.64%
12/22/1987	13.00%	8.87%	4.13%
1/26/1988	13.90%	8.98%	4.92%
3/30/1988	12.72%	8.94%	3.78%
5/16/1988	13.00%	9.00%	4.00%
8/23/1988	11.70%	8.93%	2.77%
8/30/1988	13.50%	8.94%	4.56%
9/8/1988	12.60%	8.94%	3.66%
12/27/1988	13.00%	9.05%	3.95%
12/30/1988	13.40%	9.05%	4.35%
2/17/1989	13.00%	9.05%	3.95%
3/8/1989	13.00%	9.04%	3.96%
4/5/1989	14.20%	9.05%	5.15%
12/27/1989	13.00%	8.25%	4.75%
1/26/1990	12.00%	8.16%	3.84%
5/29/1990	12.40%	8.30%	4.10%
6/4/1990	12.90%	8.31%	4.59%
9/26/1990	11.45%	8.62%	2.83%
10/19/1990	13.00%	8.68%	4.32%
11/21/1990	12.70%	8.70%	4.00%
12/19/1990	12.00%	8.67%	3.33%
12/20/1990	12.75%	8.67%	4.08%
12/27/1990	12.79%	8.66%	4.13%
2/4/1991	12.50%	8.59%	3.91%
2/12/1991	13.00%	8.57%	4.43%
2/22/1991	12.80%	8.54%	4.26%
6/28/1991	12.50%	8.35%	4.15%
7/3/1991	12.50%	8.34%	4.16%
9/27/1991	12.50%	8.23%	4.27%
9/30/1991	12.25%	8.23%	4.02%
10/23/1991	12.55%	8.20%	4.35%
1/16/1992	12.75%	8.07%	4.68%
1/21/1992	12.00%	8.06%	3.94%
			4.95%
1/22/1992	13.00%	8.05%	
4/14/1992	11.50%	7.90%	3.60%
7/13/1992	13.50%	7.84%	5.66%
9/28/1992	11.40%	7.72%	3.68%
10/12/1992	12.20%	7.71%	4.49%
10/30/1992	11.75%	7.71%	4.04%
11/3/1992	12.00%	7.70%	4.30%
12/30/1992	12.00%	7.61%	4.39%
12/31/1992	11.90%	7.61%	4.29%
2/2/1993	11.40%	7.54%	3.86%
8/24/1993	11.50%	6.93%	4.57%
11/2/1993	10.80%	6.57%	4.23%
1/4/1994	10.07%	6.42%	3.65%
2/25/1994	11.25%	6.32%	4.93%
3/1/1994	11.00%	6.32%	4.68%
5/13/1994	10.50%	6.46%	4.04%
11/28/1994	11.06%	7.53%	3.53%
11/20/1004	1 1.00 /0	1.00/0	0.0070

2/17/1995	11.90%	7.72%	4.18%
		–	
3/9/1995	11.50%	7.73%	3.77%
3/23/1995	12.81%	7.73%	5.08%
4/6/1995	11.10%	7.72%	3.38%
6/9/1995	11.25%	7.60%	3.65%
9/27/1995	11.75%	7.09%	4.66%
0.=			
11/9/1995	12.36%	6.86%	5.50%
11/9/1995	11.38%	6.86%	4.52%
11/17/1995	11.00%	6.82%	4.18%
12/4/1995	11.35%	6.75%	4.60%
3/29/1996	10.67%	6.41%	4.26%
4/24/1996	11.25%	6.41%	4.84%
4/30/1996	11.00%	6.41%	4.59%
5/13/1996	11.00%	6.41%	4.59%
5/23/1996	11.25%	6.42%	4.83%
6/25/1996	11.25%	6.47%	4.78%
6/27/1996	11.20%	6.48%	4.72%
8/12/1996	10.40%	6.59%	3.81%
10/16/1996	12.25%	6.79%	5.46%
11/5/1996	11.00%	6.84%	4.16%
12/18/1996	11.75%	6.84%	4.91%
12/12/1997			4.41%
	11.00%	6.59%	4.41%
3/6/1998	10.75%	6.24%	4.51%
3/20/1998	10.50%	6.20%	4.30%
11/30/1998	12.60%	5.56%	7.04%
9/23/1999	10.75%	5.73%	5.02%
11/17/1999	11.10%	5.92%	5.18%
1/23/2001	11.25%	5.79%	5.46%
6/26/2001	11.00%	5.61%	5.39%
7/31/2001	11.00%	5.59%	5.41%
8/31/2001	10.50%	5.56%	4.94%
9/7/2001	10.75%	5.55%	5.20%
10/24/2001	10.30%	5.54%	4.76%
11/28/2001	10.60%	5.49%	5.11%
1/22/2002	10.00%	5.49%	4.51%
6/18/2002	11.16%	5.47%	5.69%
6/20/2002	11.00%	5.47%	5.53%
12/4/2002	11.55%	5.28%	6.27%
12/13/2002			
	11.75%	5.25%	6.50%
12/20/2002	11.40%	5.22%	6.18%
1/8/2003	11.10%	5.17%	5.93%
6/25/2003	10.75%	4.80%	5.95%
6/26/2003	10.75%	4.80%	5.95%
7/9/2003	9.75%	4.79%	4.96%
7/25/2003	9.50%	4.78%	4.72%
8/26/2003		4.82%	5.68%
	10.50%		
12/17/2003	10.70%	4.94%	5.76%
12/18/2003	11.50%	4.94%	6.56%
12/23/2003	10.50%	4.94%	5.56%
5/27/2004	10.25%	5.07%	5.18%
6/2/2004	11.22%	5.07%	6.15%
6/30/2004	10.50%	5.10%	5.40%
6/30/2004		5.10%	5.40%
	10.50%		
8/25/2004	10.25%	5.10%	5.15%
11/9/2004	10.50%	5.07%	5.43%
12/14/2004	10.97%	5.08%	5.89%
12/21/2004	11.25%	5.09%	6.16%
12/29/2004	9.85%	5.08%	4.77%
1/6/2005	10.70%	5.08%	5.62%

2/25/2005	10.50%	4.94%	5.56%
3/24/2005	10.30%	4.88%	5.42%
4/7/2005	10.25%	4.85%	5.40%
5/18/2005	10.25%	4.77%	5.48%
5/25/2005	10.75%	4.75%	6.00%
			5.00%
5/26/2005	9.75%	4.75%	5.00%
6/1/2005	9.75%	4.74%	5.01%
0/45/2005		4 600/	E E20/
8/15/2005	10.13%	4.60%	5.53%
9/28/2005	10.00%	4.53%	5.47%
10/4/2005	10.75%	4.52%	6.23%
12/21/2005	10.29%	4.53%	5.76%
12/21/2005	10.40%	4.53%	5.87%
3/3/2006	10.39%	4.54%	5.85%
6/27/2006	10.75%	4.81%	5.94%
7/6/2006	10.20%	4.84%	5.36%
7/24/2006	9.60%	4.86%	4.74%
7/26/2006	10.50%	4.87%	5.63%
9/14/2006	10.00%	4.92%	5.08%
10/6/2006	9.67%	4.93%	4.74%
12/1/2006	10.50%	4.97%	5.53%
12/1/2006	10.25%	4.97%	5.28%
12/7/2006	10.75%	4.97%	5.78%
12/22/2006	10.25%	4.96%	5.29%
1/5/2007	10.00%	4.95%	5.05%
3/21/2007	11.35%	4.85%	6.50%
3/22/2007	9.75%	4.85%	4.90%
5/25/2007	9.67%	4.80%	4.87%
6/22/2007	10.50%	4.83%	5.67%
7/12/2007	9.67%	4.86%	4.81%
8/15/2007	10.40%	4.89%	5.51%
11/29/2007	10.90%	4.88%	6.02%
12/14/2007	10.70%	4.86%	5.84%
12/19/2007	10.20%	4.86%	5.34%
12/20/2007	10.20%	4.86%	5.34%
12/20/2007	11.00%	4.86%	6.14%
12/28/2007	10.25%	4.85%	5.40%
12/31/2007	11.25%	4.85%	6.40%
1/31/2008	10.71%	4.79%	5.92%
3/12/2008	10.25%	4.70%	5.55%
4/22/2008	10.25%	4.58%	5.67%
5/1/2008	10.70%	4.57%	6.13%
6/27/2008	10.50%	4.53%	5.97%
7/16/2008	9.40%	4.50%	4.90%
7/31/2008	10.70%	4.50%	6.20%
9/10/2008	10.30%	4.49%	5.81%
9/30/2008	10.20%	4.48%	5.72%
10/8/2008	10.15%	4.47%	5.68%
11/13/2008	10.55%	4.44%	6.11%
11/17/2008	10.20%	4.44%	5.76%
12/1/2008	10.25%	4.39%	5.86%
12/29/2008	10.20%	4.23%	5.97%
12/31/2008	10.75%	4.21%	6.54%
3/4/2009	10.50%	3.93%	6.57%
4/2/2009	11.10%	3.82%	7.28%
4/21/2009	10.61%	3.76%	6.85%
5/20/2009	10.25%	3.71%	6.54%
5/28/2009	10.50%	3.71%	6.79%
7/8/2009	10.63%	3.75%	6.88%
7/17/2009	10.50%	3.76%	6.74%

10/14/2009         10.70%         4.06%         6.64%           11/3/2009         10.70%         4.12%         6.58%           11/25/2009         10.25%         4.18%         6.07%           11/25/2009         10.50%         4.20%         6.30%           12/16/2009         11.00%         4.24%         6.76%           12/16/2009         11.00%         4.24%         6.66%           1/26/2010         10.13%         4.37%         5.76%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.70%         4.37%         6.03%           1/27/2010         10.70%         4.37%         6.03%           1/27/2010         10.50%         4.40%         6.10%           3/4/2010         10.50%         4.40%         6.10%           3/11/2010         10.50%         4.40%         6.10%           3/11/2010         10.50%         4.40%         5.59%           3/12/2010         10.50%         4.40%         5.59%           3/12/2010         10.50%         4.41%         5.59%           5/12/2010         10.30%         4.45%         5.55%           5/12/2010         10.30%				
11/24/2009         10.25%         4.18%         6.57%           11/25/2009         10.50%         4.20%         6.30%           12/13/2009         10.50%         4.20%         6.30%           12/16/2009         10.70%         4.21%         6.49%           12/16/2009         11.00%         4.24%         6.76%           12/16/2010         10.13%         4.37%         5.76%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.50%         4.40%         6.10%           3/4/2010         10.50%         4.40%         6.10%           3/4/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         5.79%           3/25/2010         10.50%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.20%         4.45%         5.55%           6/12/2010         10.30%	10/14/2009	10.70%	4.06%	6.64%
11/24/2009         10.25%         4.18%         6.57%           11/25/2009         10.50%         4.20%         6.30%           12/13/2009         10.50%         4.20%         6.30%           12/16/2009         10.70%         4.21%         6.49%           12/16/2009         11.00%         4.24%         6.76%           12/16/2010         10.13%         4.37%         5.76%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.50%         4.40%         6.10%           3/4/2010         10.50%         4.40%         6.10%           3/4/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         5.79%           3/25/2010         10.50%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.20%         4.45%         5.55%           6/12/2010         10.30%	11/3/2009	10.70%	4.12%	6.58%
11/25/2009         10.75%         4.18%         6.57%           12/3/2009         10.50%         4.20%         6.30%           12/7/2009         10.70%         4.21%         6.49%           12/16/2009         11.00%         4.24%         6.66%           12/16/2001         10.13%         4.37%         5.76%           1/26/2010         10.13%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         10.50%         4.40%         6.10%           3/12/2010         10.50%         4.41%         5.59%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/17/2010         10.30% <t< td=""><td>11/24/2000</td><td></td><td>/ 100/</td><td>6.07%</td></t<>	11/24/2000		/ 100/	6.07%
12/3/2009         10.50%         4.20%         6.30%           12/7/2009         10.70%         4.21%         6.49%           12/16/2009         11.00%         4.24%         6.76%           12/16/2010         10.90%         4.24%         6.66%           1/26/2010         10.13%         4.37%         5.76%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         5.73%           3/12/2010         10.15%         4.42%         5.73%           3/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/16/2010         10.50%				
12/7/2009         10.70%         4.21%         6.49%           12/16/2009         11.00%         4.24%         6.76%           12/16/2010         10.90%         4.24%         6.66%           1/26/2010         10.13%         4.37%         5.76%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         7.49%           3/12/2010         10.50%         4.40%         6.10%           3/11/2010         10.00%         4.41%         7.49%           3/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.30%         4.45%         5.55%           6/16/2010         10.00%         4.45%         5.55%           6/18/2010         10.70%		10.75%		6.57%
12/16/2009	12/3/2009	10.50%	4.20%	6.30%
12/16/2009	12/7/2000	10 70%	1 21%	6 40%
12/16/2009 10.90% 4.24% 6.66% 1/26/2010 10.13% 4.37% 5.76% 1/27/2010 10.40% 4.37% 6.03% 1/27/2010 10.40% 4.37% 6.33% 2/24/2010 10.18% 4.41% 5.77% 3/4/2010 10.50% 4.40% 6.10% 3/5/2010 10.50% 4.40% 6.10% 3/11/2010 11.90% 4.41% 7.49% 3/17/2010 10.00% 4.41% 5.59% 3/25/2010 10.15% 4.42% 5.73% 5/12/2010 10.30% 4.45% 5.85% 5/12/2010 10.30% 4.45% 5.85% 5/12/2010 10.30% 4.45% 5.85% 6/7/2010 10.30% 4.45% 5.85% 6/7/2010 10.30% 4.45% 5.85% 6/16/2010 10.50% 4.45% 6.05% 6/28/2010 10.50% 4.45% 6.05% 6/28/2010 10.50% 4.45% 6.05% 6/28/2010 10.50% 4.45% 6.28% 8/4/2010 10.50% 4.44% 6.26% 7/30/2010 10.70% 4.44% 6.26% 7/30/2010 10.50% 4.41% 6.99% 9/14/2010 10.50% 4.41% 6.99% 9/14/2010 10.50% 4.41% 6.99% 9/14/2010 10.50% 4.41% 6.99% 9/14/2010 10.50% 4.41% 6.99% 9/14/2010 10.50% 4.41% 6.99% 9/14/2010 10.50% 4.41% 6.99% 9/14/2010 10.00% 4.32% 6.38% 9/16/2010 10.00% 4.32% 5.68% 0/14/2010 10.25% 4.13% 6.12% 12/13/2010 10.25% 4.13% 6.12% 12/13/2010 10.13% 4.14% 5.99% 12/11/2010 10.13% 4.14% 5.99% 12/11/2010 10.13% 4.13% 6.57% 12/11/2010 10.13% 4.13% 6.50% 12/11/2010 10.13% 4.13% 6.50% 12/11/2010 10.13% 4.13% 6.50% 12/11/2010 10.13% 4.13% 6.50% 12/11/2010 10.13% 4.13% 6.50% 12/11/2010 10.13% 4.14% 5.99% 12/21/2010 10.55% 4.13% 6.00% 12/21/2010 10.55% 4.13% 6.00% 12/21/2010 10.55% 4.13% 6.12% 12/21/2010 10.30% 4.12% 5.88% 12/21/2010 10.30% 4.12% 5.88% 12/21/2010 10.30% 4.12% 5.88% 12/21/2011 10.00% 4.39% 5.61% 8/8/2011 10.00% 4.39% 5.61% 8/8/2011 10.00% 4.39% 5.61% 8/8/2011 10.00% 4.39% 5.61% 8/8/2011 10.00% 4.39% 5.61% 8/8/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/8/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011 10.00% 4.39% 5.61% 8/11/2011				
1/26/2010         10.13%         4.37%         5.76%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.70%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         5.59%           3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.4				
1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.70%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         7.49%           3/17/2010         10.00%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.22%           6/28/2010         10.50%         4.44%         6.26%           7/15/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.4	12/16/2009	10.90%	4.24%	6.66%
1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.70%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         7.49%           3/17/2010         10.00%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.22%           6/28/2010         10.50%         4.44%         6.26%           7/15/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.4	1/26/2010	10.13%	4.37%	5.76%
1/27/2010         10.40%         4.37%         6.03%           1/27/2010         10.70%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/17/2010         10.00%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.50%         4.41%         6.9%           9/14/2010         10.50%         4.32%	1/27/2010	10 40%	A 37%	6.03%
1/27/2010         10.70%         4.37%         6.33%           2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.30%         4.45%         5.85%           6/16/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/16/2010         10.00%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.44%         6.26%           7/33/2010         10.50%         4.41%         6.09%           9/14/2010         10.50%         4.32%         6.38%           9/16/2010         10.00%         4.				
2/24/2010         10.18%         4.41%         5.77%           3/4/2010         10.50%         4.40%         6.10%           3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           6/12/2010         10.30%         4.45%         5.85%           6/16/2010         10.30%         4.45%         5.85%           6/16/2010         10.30%         4.45%         5.55%           6/16/2010         10.50%         4.45%         5.25%           6/18/2010         10.70%         4.44%         6.26%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.32%         6.38%           9/16/2010         10.00%         4.3				
3/4/2010       10.50%       4.40%       6.10%         3/5/2010       10.50%       4.40%       6.10%         3/11/2010       11.90%       4.41%       7.49%         3/17/2010       10.00%       4.41%       5.59%         3/25/2010       10.15%       4.42%       5.73%         5/12/2010       10.30%       4.45%       5.85%         5/12/2010       10.30%       4.45%       5.85%         5/28/2010       10.20%       4.45%       5.75%         6/7/2010       10.30%       4.45%       5.85%         6/16/2010       10.30%       4.45%       5.85%         6/16/2010       10.30%       4.45%       5.55%         6/16/2010       10.50%       4.45%       5.55%         6/28/2010       9.67%       4.45%       5.22%         7/15/2010       10.70%       4.44%       6.26%         7/30/2010       10.70%       4.44%       6.26%         7/30/2010       10.50%       4.41%       6.09%         9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       6.8%         0/14/2010       10.35%       4.22%       6.13% <td>1/27/2010</td> <td>10.70%</td> <td>4.37%</td> <td>6.33%</td>	1/27/2010	10.70%	4.37%	6.33%
3/4/2010       10.50%       4.40%       6.10%         3/5/2010       10.50%       4.40%       6.10%         3/11/2010       11.90%       4.41%       7.49%         3/17/2010       10.00%       4.41%       5.59%         3/25/2010       10.15%       4.42%       5.73%         5/12/2010       10.30%       4.45%       5.85%         5/12/2010       10.30%       4.45%       5.85%         5/28/2010       10.20%       4.45%       5.75%         6/7/2010       10.30%       4.45%       5.85%         6/16/2010       10.30%       4.45%       5.85%         6/16/2010       10.30%       4.45%       5.55%         6/16/2010       10.50%       4.45%       5.55%         6/28/2010       9.67%       4.45%       5.22%         7/15/2010       10.70%       4.44%       6.26%         7/30/2010       10.70%       4.44%       6.26%         7/30/2010       10.50%       4.41%       6.09%         9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       6.8%         0/14/2010       10.35%       4.22%       6.13% <td>2/24/2010</td> <td>10.18%</td> <td>4.41%</td> <td>5.77%</td>	2/24/2010	10.18%	4.41%	5.77%
3/5/2010         10.50%         4.40%         6.10%           3/11/2010         11.90%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/28/2010         10.20%         4.45%         5.85%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/16/2010         10.50%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           6/28/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.44%         6.26%           7/15/2010         10.70%         4.32%         6.38%           9/14/2010         10.50%         4.31%         6.09%           9/14/2010         10.70%         4.32%         6.68%           10/14/2010         10.35%         4	3/4/2010		4.40%	6 10%
3/11/2010         11.90%         4.41%         7.49%           3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/28/2010         10.20%         4.45%         5.75%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/16/2010         10.50%         4.45%         5.55%           6/28/2010         9.67%         4.45%         6.26%           7/30/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.88%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.70%         4.19				
3/17/2010         10.00%         4.41%         5.59%           3/25/2010         10.15%         4.42%         5.73%           5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/28/2010         10.20%         4.45%         5.75%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.44%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.		10.50%		6.10%
3/25/2010       10.15%       4.42%       5.73%         5/12/2010       10.30%       4.45%       5.85%         5/12/2010       10.30%       4.45%       5.85%         5/28/2010       10.20%       4.45%       5.75%         6/7/2010       10.30%       4.45%       5.85%         6/16/2010       10.00%       4.45%       5.55%         6/28/2010       10.50%       4.45%       6.05%         6/28/2010       9.67%       4.45%       5.22%         7/15/2010       10.70%       4.44%       6.26%         7/30/2010       10.70%       4.42%       6.28%         8/4/2010       10.50%       4.41%       6.09%         9/3/2010       10.60%       4.35%       6.25%         9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       6.88%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.20%       4.15%       6.05%         12/1/2010       10.35%       4.22%       6.13%         12/29/2010       10.13%       4.14%       5.99%<	3/11/2010	11.90%	4.41%	7.49%
3/25/2010       10.15%       4.42%       5.73%         5/12/2010       10.30%       4.45%       5.85%         5/12/2010       10.30%       4.45%       5.85%         5/28/2010       10.20%       4.45%       5.75%         6/7/2010       10.30%       4.45%       5.85%         6/16/2010       10.00%       4.45%       5.55%         6/28/2010       10.50%       4.45%       6.05%         6/28/2010       9.67%       4.45%       5.22%         7/15/2010       10.70%       4.44%       6.26%         7/30/2010       10.70%       4.42%       6.28%         8/4/2010       10.50%       4.41%       6.09%         9/3/2010       10.60%       4.35%       6.25%         9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       6.88%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.20%       4.15%       6.05%         12/1/2010       10.35%       4.22%       6.13%         12/29/2010       10.13%       4.14%       5.99%<	3/17/2010	10.00%	4.41%	5.59%
5/12/2010         10.30%         4.45%         5.85%           5/12/2010         10.30%         4.45%         5.85%           5/28/2010         10.20%         4.45%         5.75%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.20%         4.15%         6.05%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.1	3/25/2010		1 12%	5 73%
5/12/2010         10.30%         4.45%         5.75%           5/28/2010         10.20%         4.45%         5.75%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.25%         4.13%         6.12%           12/14/2010         10.13%         4				
5/28/2010         10.20%         4.45%         5.75%           6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.25%         4.13%         6.12%           12/14/2010         10.13%         4				
6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.50%         4.41%         6.09%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           12/12/2010         10.25%         4.13%         6.12%           12/14/2010         10.13%         4.14%         5.99%           12/21/2010         10.30%         4.12%         5.88%           12/21/2010         10.30% <t< td=""><td>5/12/2010</td><td>10.30%</td><td>4.45%</td><td>5.85%</td></t<>	5/12/2010	10.30%	4.45%	5.85%
6/7/2010         10.30%         4.45%         5.85%           6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.50%         4.41%         6.09%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           12/12/2010         10.25%         4.13%         6.12%           12/14/2010         10.13%         4.14%         5.99%           12/21/2010         10.30%         4.12%         5.88%           12/21/2010         10.30% <t< td=""><td>5/28/2010</td><td>10 20%</td><td>4 45%</td><td>5 75%</td></t<>	5/28/2010	10 20%	4 45%	5 75%
6/16/2010         10.00%         4.45%         5.55%           6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/17/2010         10.30%         4.12%         5.88%           12/21/2010         10.30% <td< td=""><td>0.20.20.0</td><td></td><td></td><td></td></td<>	0.20.20.0			
6/28/2010         10.50%         4.45%         6.05%           6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           12/12/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.30%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/29/2010         11.15%				
6/28/2010         9.67%         4.45%         5.22%           7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/14/2010         10.30%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/20/2011         10.15%	6/16/2010	10.00%	4.45%	5.55%
7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.25%         4.13%         6.12%           12/9/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%	6/28/2010	10.50%	4.45%	6.05%
7/15/2010         10.70%         4.44%         6.26%           7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.25%         4.13%         6.12%           12/9/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%	6/28/2010	9.67%	4 45%	5 22%
7/30/2010         10.70%         4.42%         6.28%           8/4/2010         10.50%         4.41%         6.09%           9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/14/2010         10.13%         4.13%         6.05%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.00%				
8/4/2010       10.50%       4.41%       6.09%         9/3/2010       10.60%       4.35%       6.25%         9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.00%       4.32%       5.68%         10/14/2010       10.35%       4.22%       6.13%         10/28/2010       10.70%       4.19%       6.51%         11/19/2010       10.20%       4.15%       6.05%         12/1/2010       10.13%       4.14%       5.99%         12/9/2010       10.25%       4.13%       6.12%         12/14/2010       10.13%       4.13%       6.57%         12/14/2010       10.30%       4.12%       5.88%         12/21/2010       10.30%       4.12%       5.88%         12/21/2010       10.30%       4.12%       6.18%         1/20/2011       10.15%       4.10%       6.05%         1/20/2011       10.15%       4.10%       6.05%         1/20/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.14% <t< td=""><td></td><td></td><td></td><td></td></t<>				
9/3/2010         10.60%         4.35%         6.25%           9/14/2010         10.70%         4.32%         6.38%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/14/2010         10.70%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%	7/30/2010	10.70%	4.42%	6.28%
9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.00%       4.32%       5.68%         10/14/2010       10.35%       4.22%       6.13%         10/28/2010       10.70%       4.19%       6.51%         11/19/2010       10.20%       4.15%       6.05%         12/1/2010       10.13%       4.14%       5.99%         12/9/2010       10.25%       4.13%       6.12%         12/13/2010       10.70%       4.13%       6.57%         12/14/2010       10.13%       4.13%       6.00%         12/17/2010       10.00%       4.12%       5.88%         12/21/2010       10.30%       4.12%       5.88%         12/29/2010       11.15%       4.11%       7.04%         1/5/2011       10.15%       4.10%       6.05%         1/20/2011       10.13%       4.09%       6.04%         2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       <	8/4/2010	10.50%	4.41%	6.09%
9/14/2010       10.70%       4.32%       6.38%         9/16/2010       10.00%       4.32%       5.68%         9/16/2010       10.00%       4.32%       5.68%         10/14/2010       10.35%       4.22%       6.13%         10/28/2010       10.70%       4.19%       6.51%         11/19/2010       10.20%       4.15%       6.05%         12/1/2010       10.13%       4.14%       5.99%         12/9/2010       10.25%       4.13%       6.12%         12/13/2010       10.70%       4.13%       6.57%         12/14/2010       10.13%       4.13%       6.00%         12/17/2010       10.00%       4.12%       5.88%         12/21/2010       10.30%       4.12%       5.88%         12/29/2010       11.15%       4.11%       7.04%         1/5/2011       10.15%       4.10%       6.05%         1/20/2011       10.13%       4.09%       6.04%         2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       <	9/3/2010	10.60%	4 35%	6 25%
9/16/2010         10.00%         4.32%         5.68%           9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         5.88%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%				
9/16/2010         10.00%         4.32%         5.68%           10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%				
10/14/2010         10.35%         4.22%         6.13%           10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/19/2011         10.25%	9/16/2010	10.00%	4.32%	5.68%
10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         <	9/16/2010	10.00%	4.32%	5.68%
10/28/2010         10.70%         4.19%         6.51%           11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         <	10/14/2010	10 35%	4 22%	6 13%
11/19/2010         10.20%         4.15%         6.05%           12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         <				
12/1/2010         10.13%         4.14%         5.99%           12/9/2010         10.25%         4.13%         6.12%           12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         4.12%         6.18%           12/14/2011         10.30%         <				
12/9/2010       10.25%       4.13%       6.12%         12/13/2010       10.70%       4.13%       6.57%         12/14/2010       10.13%       4.13%       6.00%         12/17/2010       10.00%       4.12%       5.88%         12/21/2010       10.30%       4.12%       6.18%         12/29/2010       11.15%       4.11%       7.04%         1/5/2011       10.15%       4.10%       6.05%         1/20/2011       10.13%       4.09%       6.04%         2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%		10.20%	4.15%	6.05%
12/9/2010       10.25%       4.13%       6.12%         12/13/2010       10.70%       4.13%       6.57%         12/14/2010       10.13%       4.13%       6.00%         12/17/2010       10.00%       4.12%       5.88%         12/21/2010       10.30%       4.12%       6.18%         12/29/2010       11.15%       4.11%       7.04%         1/5/2011       10.15%       4.10%       6.05%         1/20/2011       10.13%       4.09%       6.04%         2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%	12/1/2010	10.13%	4.14%	5.99%
12/13/2010         10.70%         4.13%         6.57%           12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/8/2011         10.00%         4.38%         5.62%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         3.77%         6.23%           12/14/2011         10.30%         3.77%         6.53%           12/20/2011         10.20%         <		10 25%	4 13%	6 12%
12/14/2010         10.13%         4.13%         6.00%           12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/8/2011         10.00%         4.38%         5.62%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         3.77%         6.23%           12/14/2011         10.30%         3.77%         6.53%           12/20/2011         10.20%         3.73%         6.47%           12/20/2011         10.20%         <				
12/17/2010         10.00%         4.12%         5.88%           12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/8/2011         10.00%         4.38%         5.62%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         4.12%         6.18%           12/14/2011         10.30%         3.77%         6.23%           12/21/2011         10.20%         3.73%         6.47%           12/20/2011         10.20%         3.73%         6.48%				
12/21/2010         10.30%         4.12%         6.18%           12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/8/2011         10.00%         4.39%         5.61%           8/11/2011         10.00%         4.38%         5.62%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         3.77%         6.23%           12/14/2011         10.30%         3.77%         6.53%           12/20/2011         10.20%         3.73%         6.47%           12/21/2011         10.20%         3.73%         6.48%	12/14/2010	10.13%	4.13%	6.00%
12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/8/2011         10.00%         4.39%         5.61%           8/11/2011         10.00%         4.38%         5.62%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         4.12%         6.18%           12/14/2011         10.30%         3.77%         6.23%           12/20/2011         10.20%         3.73%         6.47%           12/21/2011         10.20%         3.73%         6.48%	12/17/2010	10.00%	4.12%	5.88%
12/29/2010         11.15%         4.11%         7.04%           1/5/2011         10.15%         4.10%         6.05%           1/20/2011         10.13%         4.09%         6.04%           2/25/2011         10.00%         4.14%         5.86%           3/30/2011         10.00%         4.19%         5.81%           4/26/2011         9.67%         4.24%         5.43%           6/8/2011         10.75%         4.33%         6.42%           6/17/2011         9.95%         4.34%         5.61%           8/8/2011         10.00%         4.39%         5.61%           8/11/2011         10.00%         4.38%         5.62%           8/19/2011         10.25%         4.36%         5.89%           9/22/2011         10.00%         4.23%         5.77%           10/12/2011         10.30%         4.12%         6.18%           12/14/2011         10.30%         3.77%         6.23%           12/20/2011         10.20%         3.73%         6.47%           12/21/2011         10.20%         3.73%         6.48%	12/21/2010	10 30%	4 12%	6 18%
1/5/2011       10.15%       4.10%       6.05%         1/20/2011       10.13%       4.09%       6.04%         2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.30%       3.77%       6.23%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
1/20/2011       10.13%       4.09%       6.04%         2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.30%       3.77%       6.23%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
2/25/2011       10.00%       4.14%       5.86%         3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.30%       3.77%       6.23%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	1/5/2011	10.15%		6.05%
3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.30%       3.77%       6.23%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	1/20/2011	10.13%	4.09%	6.04%
3/30/2011       10.00%       4.19%       5.81%         4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.30%       3.77%       6.23%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	2/25/2011	10.00%	4.14%	5.86%
4/26/2011       9.67%       4.24%       5.43%         6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
6/8/2011       10.75%       4.33%       6.42%         6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/21/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
6/17/2011       9.95%       4.34%       5.61%         8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/21/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	4/26/2011	9.67%	4.24%	5.43%
8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	6/8/2011	10.75%	4.33%	6.42%
8/8/2011       10.00%       4.39%       5.61%         8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	6/17/2011	9 95%	4 34%	5 61%
8/11/2011       10.00%       4.38%       5.62%         8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
8/19/2011       10.25%       4.36%       5.89%         9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
9/22/2011       10.00%       4.23%       5.77%         10/12/2011       10.30%       4.12%       6.18%         12/14/2011       10.00%       3.77%       6.23%         12/14/2011       10.30%       3.77%       6.53%         12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%	8/11/2011	10.00%	4.38%	5.62%
10/12/2011     10.30%     4.12%     6.18%       12/14/2011     10.00%     3.77%     6.23%       12/14/2011     10.30%     3.77%     6.53%       12/20/2011     10.20%     3.73%     6.47%       12/21/2011     10.20%     3.72%     6.48%	8/19/2011	10.25%	4.36%	5.89%
10/12/2011     10.30%     4.12%     6.18%       12/14/2011     10.00%     3.77%     6.23%       12/14/2011     10.30%     3.77%     6.53%       12/20/2011     10.20%     3.73%     6.47%       12/21/2011     10.20%     3.72%     6.48%	9/22/2011	10.00%	4.23%	5.77%
12/14/2011     10.00%     3.77%     6.23%       12/14/2011     10.30%     3.77%     6.53%       12/20/2011     10.20%     3.73%     6.47%       12/21/2011     10.20%     3.72%     6.48%				
12/14/2011     10.30%     3.77%     6.53%       12/20/2011     10.20%     3.73%     6.47%       12/21/2011     10.20%     3.72%     6.48%				
12/20/2011       10.20%       3.73%       6.47%         12/21/2011       10.20%       3.72%       6.48%				
12/21/2011 10.20% 3.72% 6.48%	12/14/2011	10.30%	3.77%	6.53%
12/21/2011 10.20% 3.72% 6.48%	12/20/2011	10.20%	3.73%	6.47%
1/25/2012 10.50% 3.53% 6.97%				
	1/25/2012	10.50%	3.53%	0.97%

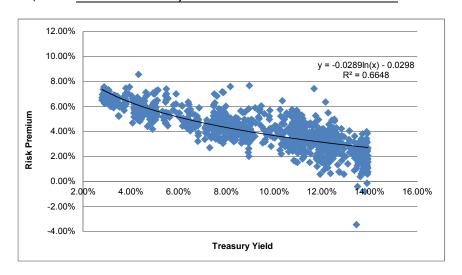
1/27/2012	10.50%	3.52%	6.98%
2/15/2012	10.20%	3.43%	6.77%
2/23/2012	9.90%	3.40%	6.50%
2/23/2012			
2/29/2012	10.40%	3.38%	7.02%
3/29/2012	10.37%	3.27%	7.10%
4/4/2012	10.00%	3.25%	6.75%
4/26/2012	10.00%	3.16%	6.84%
5/2/2012	10.00%	3.15%	6.85%
5/15/2012	10.00%	3.12%	6.88%
6/14/2012	9.40%	3.05%	6.35%
6/18/2012	9.60%	3.05%	6.55%
0/00/0040	40.000/		
6/29/2012	10.00%	3.04%	6.96%
7/9/2012	10.20%	3.03%	7.17%
7/16/2012	9.80%	3.01%	6.79%
9/19/2012	9.80%	2.94%	6.86%
10/12/2012	9.60%	2.93%	6.67%
10/23/2012	9.75%	2.93%	6.82%
10/24/2012	10.30%	2.93%	7.37%
11/29/2012	9.88%	2.89%	6.99%
		2.09 /0	
11/29/2012	9.75%	2.89%	6.86%
12/13/2012	10.50%		7.040/
12/13/2012	10.50%	2.86%	7.64%
12/19/2012	10.25%	2.85%	7.40%
12/20/2012	10.25%	2.85%	7.40%
12/20/2012	10.25%	2.85%	7.40%
12/20/2012	9.80%	2.85%	6.95%
12/20/2012	9.50%	2.85%	6.65%
12/26/2012	9.80%	2.84%	6.96%
1/9/2013	9.70%	2.83%	6.87%
1/9/2013	9.70%	2.83%	6.87%
1/9/2013	9.70%	2.83%	6.87%
1/16/2013	9.60%	2.83%	6.77%
1/16/2013	9.60%	2.83%	6.77%
2/27/2013	10.00%	2.86%	7.14%
3/14/2013	9.30%	2.89%	6.41%
3/27/2013	9.80%	2.91%	6.89%
5/1/2013	9.84%	2.96%	6.88%
5/15/2013	10.30%	2.97%	7.33%
5/30/2013	10.20%	2.99%	7.21%
5/31/2013	9.00%	2.99%	6.01%
6/11/2013	10.00%	3.01%	6.99%
0 = 0 . 0			0.0070
6/21/2013	9.75%	3.03%	6.72%
6/25/2013	9.80%	3.04%	6.76%
9/11/2013	10.25%	3.28%	6.97%
9/11/2013	10.20%	3.28%	6.92%
9/24/2013	10.20%	3.32%	6.88%
11/21/2013	10.00%	3.46%	6.54%
12/3/2013	10.25%	3.48%	6.77%
12/9/2013	9.75%	3.50%	6.25%
12/16/2013	9.95%	3.52%	6.43%
12/16/2013	9.95%	3.52%	6.43%
12/17/2013	9.50%	3.52%	5.98%
12/17/2013	10.95%	3.52%	7.43%
12/18/2013	9.80%	3.52%	6.28%
12/19/2013	10.15%	3.53%	6.62%
2/20/2014	9.20%	3.71%	5.49%
2/26/2014	9.75%	3.71%	6.04%
3/17/2014	9.55%	3.73%	5.82%
5/16/2014	9.80%	3.70%	6.10%
6/30/2014	9.55%	3.64%	5.91%
J. J J J I I	0.0070	0.0170	5.5 . 70

7/10/2014	9.95%	3.63%	6.32%
7/23/2014	9.75%	3.61%	6.14%
7/29/2014	9.45%	3.60%	5.85%
7/31/2014	9.90%	3.60%	6.30%
8/20/2014	9.75%	3.55%	6.20%
8/25/2014	9.60%	3.54%	6.06%
8/29/2014	9.80%	3.53%	6.27%
9/11/2014	9.60%	3.50%	6.10%
9/15/2014	10.25%	3.49%	6.76%
10/9/2014	9.80%	3.43%	6.37%
12/4/2014	9.68%	3.29%	6.39%
12/11/2014	10.07%	3.27%	6.80%
2/24/2015	9.83%	3.02%	6.81%
4/23/2015	10.20%	2.85%	7.35%
5/1/2015	9.60%	2.83%	6.77%
6/17/2015	9.00%	2.80%	6.20%
6/17/2015	9.00%	2.80%	6.20%
10/15/2015	9.00%	2.83%	6.17%
12/15/2015	9.60%	2.92%	6.68%
12/18/2015	9.50%	2.93%	6.57%
1/6/2016	9.50%	2.96%	6.54%
2/23/2016	9.75%	2.94%	6.81%
6/15/2016	9.00%	2.78%	6.22%
6/15/2016	9.00%	2.78%	6.22%

# of Cases: 373 Average: 5.38%

Bond Yield Plus Risk Premium - Fully Litigated Only

	[1]	[2]	[3] 30-Year	[4]	[5]
			Treasury	Risk	Return on
	Constant	Slope	Yield	Premium	Equity
	-2.98%	-2.89%			
	Current 30-	Year Treasury	2.50%	7.67%	10.18%
Blue Chip Financial	Forecast 2017	'Q3 Projection	3.40%	6.79%	10.19%
Blue Chip Financ	ial Forecast 20	020 Projection	4.40%	6.04%	10.44%



- [1] Constant of regression equation
- [2] Slope of regression equation
- [3] Source: Current = Bloomberg Professional,
- [3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2.
- [3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
- [4] Equals [1] + In([3]) x [2]
- [5] Equals [3] + [4] [6] Source: SNL Financial
- [7] Source: SNL Financial
- [8] Source: Bloomberg Professional, equals 204-trading day average (i.e. lag period)
- [9] Equals [7] [8]

Bond Yield Plus		-	
[6]	[7]	[8]	[9]
Date of Electric Rate	Doturn on	30-Year	Diek
	Return on	Treasury	Risk
Case 1/1/1980	Equity 14.50%	Yield 9.35%	Premium 5.15%
1/7/1980	14.30%	9.33%	5.01%
1/9/1980	15.00%	9.39%	5.61%
1/14/1980	15.00 %	9.41%	5.76%
1/17/1980	13.17 %	9.43%	4.50%
1/23/1980	15.50%	9.46%	6.04%
1/30/1980	13.86%	9.51%	4.35%
1/31/1980	12.61%	9.52%	3.09%
2/6/1980	13.71%	9.57%	4.14%
2/13/1980	12.80%	9.62%	3.18%
2/14/1980	13.00%	9.64%	3.36%
2/19/1980	13.50%	9.67%	3.83%
2/27/1980	13.75%	9.77%	3.98%
2/29/1980	13.75%	9.80%	3.95%
2/29/1980	14.00%	9.80%	4.20%
2/29/1980	14.77%	9.80%	4.97%
3/7/1980	12.70%	9.88%	2.82%
3/14/1980	13.50%	9.95%	3.55%
3/26/1980	14.16%	10.08%	4.08%
3/27/1980	14.24%	10.10%	4.14%
3/28/1980	14.50%	10.11%	4.39%
4/11/1980	12.75%	10.25%	2.50%
4/14/1980	13.85%	10.26%	3.59%
4/16/1980	15.50%	10.28%	5.22%
4/22/1980	13.90%	10.32%	3.58%
4/22/1980	13.25%	10.32%	2.93%
4/24/1980 4/29/1980	16.80% 15.50%	10.34% 10.38%	6.46% 5.12%
5/6/1980	13.70%	10.36%	3.28%
5/7/1980	15.70%	10.42%	4.58%
5/8/1980	13.75%	10.42%	3.32%
5/9/1980	14.35%	10.44%	3.91%
5/13/1980	13.60%	10.45%	3.15%
5/15/1980	13.25%	10.46%	2.79%
5/19/1980	13.75%	10.48%	3.27%
5/27/1980	14.60%	10.51%	4.09%
5/27/1980	13.62%	10.51%	3.11%
5/29/1980	16.00%	10.52%	5.48%
5/30/1980	13.80%	10.53%	3.27%
6/9/1980	15.90%	10.57%	5.33%
6/10/1980	13.78%	10.57%	3.21%
6/19/1980	13.40%	10.59%	2.81%
6/30/1980	13.00%	10.62%	2.38%
6/30/1980	13.40%	10.62%	2.78%
7/9/1980	14.75%	10.64%	4.11%
7/10/1980	15.00%	10.65%	4.35%
7/18/1980	13.80%	10.68%	3.12%
7/22/1980	14.10%	10.69%	3.41%
7/24/1980	15.00%	10.70%	4.30%
7/25/1980	13.48%	10.70%	2.78%
7/31/1980 8/8/1980	14.58%	10.73% 10.76%	3.85% 3.24%
8/8/1980	14.00% 13.50%	10.76%	3.24% 2.74%
8/8/1980	15.45%	10.76%	4.69%
8/11/1980	14.85%	10.76%	4.08%
8/25/1980	13.75%	10.77 %	2.94%
8/27/1980	13.80%	10.82%	2.98%
8/29/1980	12.50%	10.83%	1.67%
			** **

9/15/1980	13.93%	10.86%	3.07%
9/15/1980	13.50%	10.86%	2.64%
9/24/1980	12.50%	10.91%	1.59%
9/24/1980	15.00%	10.91%	4.09%
9/26/1980	13.75%	10.93%	2.82%
9/30/1980	14.20%	10.94%	3.26%
9/30/1980	14.10%	10.94%	3.16%
10/1/1980	13.90%	10.95%	2.95%
10/3/1980	15.50%	10.96%	4.54%
10/7/1980	12.50%	10.98%	1.52%
10/9/1980	14.50%	10.99%	3.51%
10/9/1980	14.50%	10.99%	3.51%
10/9/1980	13.25%	10.99%	2.26%
10/17/1980	14.50%	11.01%	3.49%
10/31/1980	14.25%	11.09%	3.16%
10/31/1980	13.75%	11.09%	2.66%
11/4/1980	15.00%	11.10%	3.90%
11/5/1980	14.00%	11.11%	2.89%
11/5/1980	13.75%	11.11%	2.64%
11/8/1980	13.75%	11.13%	2.62%
11/10/1980	14.85%	11.14%	3.71%
11/17/1980	14.00%	11.18%	2.82%
11/18/1980	14.00%	11.18%	2.82%
11/19/1980	13.00%	11.19%	1.81%
11/24/1980	14.00%	11.21%	2.79%
11/26/1980	14.00%	11.22%	2.78%
12/8/1980	15.10%	11.24%	3.86%
12/8/1980	14.15%	11.24%	2.91%
12/12/1980	15.45%	11.26%	4.19%
12/17/1980	13.25%	11.26%	1.99%
		11.25%	
12/19/1980	14.50%		3.25%
12/19/1980	14.64%	11.25%	3.39%
12/22/1980	13.45%	11.25%	2.20%
12/22/1980	15.00%	11.25%	3.75%
12/30/1980	14.50%	11.24%	3.26%
12/30/1980	14.95%	11.24%	3.71%
12/31/1980	13.39%	11.24%	2.15%
1/2/1981	15.25%	11.24%	4.01%
1/7/1981	14.30%	11.23%	3.07%
1/19/1981	15.25%	11.22%	4.03%
1/23/1981	14.40%	11.22%	3.18%
1/23/1981	13.10%	11.22%	1.88%
1/26/1981	15.25%	11.22%	4.03%
1/27/1981	15.00%	11.22%	3.78%
1/31/1981	13.47%	11.22%	2.25%
	15.25%		4.02%
2/3/1981		11.23%	
2/5/1981	15.75%	11.24%	4.51%
2/11/1981	15.60%	11.28%	4.32%
2/20/1981	15.25%	11.32%	3.93%
3/11/1981	15.40%	11.47%	3.93%
3/12/1981	14.51%	11.49%	3.02%
3/12/1981	16.00%	11.49%	4.51%
3/13/1981	13.02%	11.49%	1.53%
3/18/1981	16.19%	11.52%	4.67%
3/19/1981	13.75%	11.53%	2.22%
3/23/1981	14.30%	11.55%	2.75%
3/25/1981	15.30%	11.58%	3.72%
4/1/1981	14.53%	11.64%	2.89%
4/3/1981	19.10%	11.67%	7.43%
4/9/1981	15.00%	11.74%	3.26%
4/9/1981	15.30%	11.74%	3.56%
4/9/1981	17.00%	11.74%	5.26%
4/9/1981	16.50%	11.74%	4.76%
5/ 1001	. 5.55 /5		0 /0

4/10/1981	13.75%	11.76%	1.99%
4/13/1981		11.77%	1.80%
	13.57%		
4/15/1981	15.30%	11.81%	3.49%
4/16/1981	13.50%	11.83%	1.67%
4/17/1981	14.10%	11.83%	2.27%
4/21/1981	16.80%	11.86%	4.94%
4/21/1981	14.00%	11.86%	2.14%
4/24/1981	16.00%	11.91%	4.09%
4/27/1981	13.61%	11.93%	1.68%
4/27/1981	12.50%	11.93%	0.57%
4/29/1981	13.65%	11.96%	1.69%
4/30/1981	13.50%	11.98%	1.52%
5/4/1981	16.22%	12.02%	4.20%
5/5/1981	14.40%	12.04%	2.36%
5/7/1981	16.25%	12.07%	4.18%
5/7/1981	16.27%	12.07%	4.20%
5/8/1981	13.00%	12.09%	0.91%
5/8/1981	16.00%	12.09%	3.91%
5/12/1981	13.50%	12.12%	1.38%
			3.57%
5/15/1981	15.75%	12.18%	
5/18/1981	14.88%	12.19%	2.69%
5/20/1981	16.00%	12.22%	3.78%
5/21/1981	14.00%	12.24%	1.76%
5/26/1981	14.90%	12.27%	2.63%
5/27/1981	15.00%	12.28%	2.72%
5/29/1981	15.50%	12.30%	3.20%
6/1/1981		12.32%	4.18%
	16.50%		
6/3/1981	14.67%	12.34%	2.33%
6/5/1981	13.00%	12.36%	0.64%
6/10/1981	16.75%	12.39%	4.36%
6/17/1981	14.40%	12.43%	1.97%
6/18/1981	16.33%	12.44%	3.89%
6/25/1981	14.75%	12.48%	2.27%
6/26/1981	16.00%	12.49%	3.51%
6/30/1981	15.25%	12.52%	2.73%
7/1/1981	15.50%	12.53%	2.97%
7/1/1981	17.50%	12.53%	4.97%
7/10/1981	16.00%	12.59%	3.41%
7/14/1981	16.90%	12.61%	4.29%
7/15/1981	16.00%	12.62%	3.38%
7/17/1981	15.00%	12.64%	2.36%
7/20/1981	15.00%	12.66%	2.34%
7/21/1981	14.00%	12.67%	1.33%
7/28/1981	13.48%	12.72%	0.76%
7/31/1981	13.50%	12.75%	0.75%
7/31/1981	16.00%	12.75%	3.25%
7/31/1981	15.00%	12.75%	2.25%
8/5/1981	15.71%	12.79%	2.92%
8/10/1981	14.50%	12.83%	1.67%
8/11/1981	15.00%	12.85%	2.15%
8/20/1981	16.50%	12.93%	3.57%
8/20/1981	13.50%	12.93%	0.57%
8/24/1981	15.00%	12.95%	2.05%
8/28/1981	15.00%	13.00%	2.00%
9/10/1981	14.50%	13.09%	1.41%
9/11/1981	16.00%	13.10%	2.90%
9/16/1981	16.00%	13.13%	2.87%
9/17/1981	16.50%	13.14%	3.36%
9/23/1981	15.85%	13.18%	2.67%
9/28/1981	15.50%	13.22%	2.28%
10/9/1981	15.75%	13.30%	2.45%
10/16/1981	16.50%	13.35%	3.15%
10/16/1981	15.50%	13.35%	2.15%
. 5 5. 1001	. 5.55 / 5	. 5.55 / 6	

10/19/1981	14.25%	13.36%	0.89%
10/20/1981	15.25%	13.38%	1.87%
10/20/1981	17.00%	13.38%	3.62%
10/23/1981	16.00%	13.42%	2.58%
10/27/1981	10.00%	13.45%	-3.45%
10/29/1981	16.50%	13.48%	3.02%
10/29/1981	14.75%	13.48%	1.27%
11/3/1981	15.17%	13.51%	1.66%
11/5/1981	16.60%	13.52%	3.08%
11/6/1981	15.17%	13.53%	1.64%
11/24/1981	15.50%	13.58%	1.92%
11/25/1981	16.10%	13.59%	2.51%
11/25/1981	16.10%	13.59%	2.51%
11/25/1981	15.25%	13.59%	1.66%
12/1/1981	16.50%	13.59%	2.91%
12/1/1981	15.70%	13.59%	2.11%
12/1/1981	16.49%	13.59%	2.90%
12/1/1981	16.00%	13.59%	2.41%
12/4/1981	16.00%	13.60%	2.40%
12/11/1981	16.25%	13.61%	2.64%
12/14/1981	14.00%	13.61%	0.39%
12/15/1981	15.81%	13.61%	2.20%
12/15/1981	16.00%	13.61%	2.39%
12/16/1981	15.25%	13.62%	1.63%
12/17/1981	16.50%	13.62%	2.88%
12/18/1981	15.45%	13.62%	1.83%
12/30/1981	16.00%	13.65%	2.35%
12/30/1981	16.25%	13.65%	2.60%
12/30/1981	14.25%	13.65%	0.60%
12/31/1981	16.15%	13.65%	2.50%
1/4/1982	15.50%	13.65%	1.85%
1/11/1982	14.50%	13.70%	0.80%
1/11/1982	17.00%	13.70%	3.30%
1/13/1982	14.75%	13.72%	1.03%
1/14/1982	15.75%	13.73%	
			2.02%
1/15/1982	15.00%	13.74%	1.26%
1/15/1982	16.50%	13.74%	2.76%
1/22/1982	16.25%	13.77%	2.48%
1/27/1982	16.84%	13.79%	3.05%
1/28/1982	13.00%	13.80%	-0.80%
1/29/1982	15.50%	13.80%	1.70%
2/1/1982	15.85%	13.81%	2.04%
2/3/1982	16.44%	13.82%	2.62%
2/8/1982	15.50%	13.84%	1.66%
2/11/1982	16.00%	13.86%	2.14%
			2.34%
2/11/1982	16.20%	13.86%	
2/19/1982	15.17%	13.88%	1.29%
2/26/1982	15.25%	13.89%	1.36%
3/1/1982	15.03%	13.89%	1.14%
3/1/1982	16.00%	13.89%	2.11%
3/3/1982	15.00%	13.88%	1.12%
3/8/1982	17.10%	13.88%	3.22%
3/12/1982	16.25%	13.87%	2.38%
3/17/1982	17.30%		3.43%
		13.87%	
3/22/1982	15.10%	13.87%	1.23%
3/27/1982	15.40%	13.88%	1.52%
3/30/1982	15.50%	13.89%	1.61%
3/31/1982	17.00%	13.89%	3.11%
4/1/1982	16.50%	13.89%	2.61%
4/1/1982	14.70%	13.89%	0.81%
4/5/1982	15.50%	13.90%	1.60%
4/8/1982	16.40%	13.91%	2.49%
4/13/1982	14.50%	13.92%	0.58%

4/23/1982	15.75%	13.93%	1.82%
4/27/1982	15.00%	13.93%	1.07%
4/28/1982	15.75%	13.93%	1.82%
4/30/1982	15.50%	13.93%	1.57%
4/30/1982	14.70%	13.93%	0.77%
5/3/1982	16.60%		
		13.93%	2.67%
5/4/1982	16.00%	13.93%	2.07%
5/14/1982	15.50%	13.92%	1.58%
5/18/1982	15.42%	13.91%	1.51%
5/19/1982	14.69%	13.91%	0.78%
5/20/1982	15.10%	13.91%	1.19%
5/20/1982	15.50%	13.91%	1.59%
5/20/1982	16.30%	13.91%	2.39%
5/20/1982	15.00%		
		13.91%	1.09%
5/21/1982	17.75%	13.91%	3.84%
5/27/1982	15.00%	13.90%	1.10%
5/28/1982	15.50%	13.89%	1.61%
5/28/1982	17.00%	13.89%	3.11%
6/1/1982	13.75%	13.89%	-0.14%
6/1/1982	16.60%	13.89%	2.71%
6/9/1982	17.86%	13.88%	3.98%
6/14/1982	15.75%	13.88%	1.87%
6/15/1982	14.85%	13.88%	0.97%
6/18/1982	15.50%	13.88%	1.62%
6/21/1982	14.90%	13.88%	1.02%
6/23/1982	16.00%	13.88%	2.12%
6/24/1982	14.85%		0.97%
		13.88%	
6/25/1982	14.70%	13.87%	0.83%
7/1/1982	16.00%	13.86%	2.14%
7/2/1982	15.62%	13.86%	1.76%
7/2/1982	17.00%	13.86%	3.14%
7/13/1982	16.80%	13.83%	2.97%
7/14/1982	15.76%	13.82%	1.94%
7/14/1982	16.02%	13.82%	2.20%
7/22/1982	17.00%	13.79%	3.21%
7/22/1982	14.50%	13.79%	0.71%
7/27/1982	16.75%	13.77%	2.98%
7/29/1982	16.50%	13.76%	2.74%
8/11/1982	17.50%	13.70%	3.80%
8/18/1982	17.07%	13.65%	3.42%
8/20/1982	15.73%	13.63%	2.10%
8/25/1982	16.00%	13.59%	2.41%
8/26/1982	15.50%	13.57%	1.93%
8/30/1982	15.00%	13.56%	1.44%
9/8/1982	15.00%	13.52%	1.48%
9/15/1982	13.08%	13.49%	-0.41%
9/15/1982	16.25%	13.49%	2.76%
9/16/1982	16.00%	13.49%	2.51%
9/17/1982	15.25%	13.48%	1.77%
9/24/1982	14.50%	13.46%	1.04%
9/27/1982	15.25%	13.45%	1.80%
10/1/1982	15.50%	13.42%	2.08%
10/15/1982		13.33%	2.57%
	15.90%		
10/22/1982	15.75%	13.26%	2.49%
10/29/1982	15.54%	13.19%	2.35%
11/1/1982	15.50%	13.17%	2.33%
11/3/1982	17.20%	13.15%	4.05%
11/5/1982	16.20%	13.12%	3.08%
11/9/1982	16.00%	13.08%	2.92%
11/23/1982	15.85%	12.91%	2.94%
11/23/1982	15.50%	12.91%	2.59%
11/30/1982	16.50%	12.84%	3.66%
12/1/1982	17.04%	12.82%	4.22%

40/6/4000	45 000/	40.700/	0.040/
12/6/1982	15.00%	12.76%	2.24%
12/6/1982	16.35%	12.76%	3.59%
12/10/1982	15.50%	12.68%	2.82%
12/13/1982	16.00%	12.67%	3.33%
12/14/1982	16.40%	12.65%	3.75%
12/14/1982	15.30%	12.65%	2.65%
12/20/1982	16.00%	12.59%	3.41%
12/21/1982	15.85%	12.57%	3.28%
12/21/1982	14.75%	12.57%	2.18%
12/22/1982	16.75%	12.56%	4.19%
12/22/1982	16.58%	12.56%	4.02%
12/29/1982	14.90%	12.50%	2.40%
12/29/1982	16.25%	12.50%	3.75%
12/30/1982	16.35%	12.49%	3.86%
12/30/1982	16.00%	12.49%	3.51%
12/30/1982	16.77%	12.49%	4.28%
1/5/1983	17.33%	12.43%	4.90%
1/11/1983	15.90%	12.37%	3.53%
1/12/1983	15.50%	12.35%	3.15%
1/20/1983	17.75%	12.26%	5.49%
1/21/1983	15.00%	12.25%	2.75%
1/24/1983	14.50%	12.24%	2.26%
1/24/1983	15.50%	12.24%	3.26%
1/25/1983	15.85%	12.22%	3.63%
1/27/1983	16.14%	12.19%	3.95%
2/1/1983	18.50%	12.15%	6.35%
2/4/1983	14.00%	12.12%	1.88%
2/10/1983	15.00%	12.08%	2.92%
2/21/1983	15.50%	12.01%	3.49%
2/22/1983	15.50%	12.00%	3.50%
2/23/1983	15.10%	11.98%	3.12%
2/23/1983	16.00%	11.98%	4.02%
3/2/1983	15.25%	11.92%	3.33%
3/9/1983	15.20%	11.85%	3.35%
3/15/1983	13.00%	11.80%	1.20%
3/18/1983	15.25%	11.76%	3.49%
3/23/1983	15.40%	11.72%	3.68%
3/24/1983	15.00%	11.71%	3.29%
3/29/1983	15.50%	11.67%	3.83%
0.20000			
3/31/1983	15.00%	11.64%	3.36%
4/4/1983	15.20%	11.62%	3.58%
4/8/1983	15.50%	11.56%	3.94%
4/11/1983	14.81%	11.54%	3.27%
			0.277
4/19/1983	14.50%	11.43%	3.07%
4/20/1983	16.00%	11.41%	4.59%
	16.00%	11.29%	4.71%
4/29/1983			
5/1/1983	14.50%	11.29%	3.21%
5/9/1983	15.50%	11.19%	4.31%
5/11/1983	16.46%	11.16%	5.30%
5/12/1983	14.14%	11.15%	2.99%
5/18/1983	15.00%	11.10%	3.90%
5/23/1983	15.50%	11.05%	4.45%
5/25/1983	15.50%	11.03%	4.47%
5/27/1983	15.00%	11.00%	4.00%
5/31/1983	15.50%	10.99%	4.51%
5/31/1983	14.00%	10.99%	3.01%
6/2/1983	14.50%	10.97%	3.53%
6/17/1983	15.03%	10.87%	4.16%
7/1/1983	14.80%	10.81%	3.99%
7/1/1983	14.90%	10.81%	4.09%
7/8/1983	16.25%	10.78%	5.47%
7/13/1983	13.20%	10.77%	2.43%
7/19/1983	15.10%	10.76%	4.34%
111911903	13.10%	10.70%	4.3470

7/19/1983	15.00%	10.76%	4.24%
7/25/1983	16.25%	10.75%	5.50%
7/28/1983	15.90%	10.75%	5.15%
8/3/1983	16.50%	10.75%	5.75%
8/3/1983	16.34%	10.75%	5.59%
8/22/1983	16.40%	10.80%	5.60%
8/22/1983	15.50%	10.80%	4.70%
8/31/1983	14.75%	10.84%	3.91%
9/16/1983	15.00%	10.90%	4.10%
9/19/1983	14.50%	10.90%	3.60%
9/20/1983	16.50%	10.91%	5.59%
9/28/1983	14.50%	10.93%	3.57%
9/29/1983	15.50%	10.94%	4.56%
9/30/1983	16.15%	10.94%	5.21%
9/30/1983	15.25%	10.94%	4.31%
10/4/1983	14.80%	10.95%	3.85%
10/7/1983	16.00%	10.96%	5.04%
10/13/1983	15.52%	10.98%	4.54%
10/17/1983	15.50%	10.99%	4.51%
10/18/1983	14.50%	10.99%	3.51%
10/19/1983	16.50%	11.00%	5.50%
10/19/1983	16.25%	11.00%	5.25%
10/26/1983	15.00%	11.03%	3.97%
10/27/1983	15.20%		
		11.03%	4.17%
11/9/1983	14.90%	11.08%	3.82%
11/23/1983	16.15%	11.13%	5.02%
11/30/1983		11.14%	3.86%
	15.00%		
12/5/1983	15.25%	11.15%	4.10%
12/6/1983	15.07%	11.15%	3.92%
12/8/1983	15.90%	11.16%	4.74%
12/9/1983	14.75%	11.16%	3.59%
12/12/1983	14.50%	11.17%	3.33%
12/15/1983	15.56%	11.18%	4.38%
12/19/1983	14.80%	11.20%	3.60%
12/20/1983	16.00%	11.20%	4.80%
12/20/1983	16.25%	11.20%	5.05%
12/22/1983	15.75%	11.22%	4.53%
12/22/1983	14.75%	11.22%	3.53%
1/3/1984	14.75%	11.26%	3.49%
1/10/1984	15.90%	11.28%	4.62%
1/12/1984	15.60%	11.29%	4.31%
1/18/1984	13.75%	11.31%	2.44%
1/19/1984			4.58%
	15.90%	11.32%	
1/31/1984	15.25%	11.36%	3.89%
2/1/1984	14.80%	11.36%	3.44%
2/6/1984	14.75%	11.38%	3.37%
2/6/1984	13.75%	11.38%	2.37%
2/9/1984	15.25%	11.40%	3.85%
2/20/1984	15.00%	11.44%	3.56%
2/20/1984	15.00%	11.44%	3.56%
2/22/1984	14.75%	11.45%	3.30%
2/28/1984	14.50%	11.49%	3.01%
3/2/1984	14.25%	11.51%	2.74%
3/20/1984	16.00%	11.63%	4.37%
3/23/1984	15.50%	11.65%	3.85%
3/26/1984	14.71%	11.66%	3.05%
4/6/1984	14.74%	11.73%	3.01%
4/11/1984	15.72%	11.76%	3.96%
4/17/1984			3.21%
	15.00%	11.79%	
4/18/1984	16.20%	11.80%	4.40%
4/25/1984	14.64%	11.84%	2.80%
4/30/1984	14.40%	11.86%	2.54%
5/16/1984	14.69%	11.97%	2.72%

5/16/1984	15.00%	11.97%	3.03%
5/22/1984	14.40%	12.01%	2.39%
5/29/1984	15.10%	12.06%	3.04%
6/13/1984	15.25%	12.14%	3.11%
6/15/1984	15.60%	12.16%	3.44%
6/29/1984	15.25%	12.24%	3.01%
7/2/1984	13.35%	12.25%	1.10%
7/10/1984	16.00%	12.30%	3.70%
7/12/1984	16.50%	12.31%	4.19%
7/13/1984	16.25%	12.32%	3.93%
7/17/1984	14.14%	12.33%	1.81%
7/18/1984	15.50%	12.34%	3.16%
7/18/1984	15.30%	12.34%	2.96%
7/24/1984	16.79%	12.37%	4.42%
7/31/1984	16.00%	12.41%	3.59%
8/3/1984	14.25%	12.43%	1.82%
8/17/1984	14.30%	12.47%	1.83%
8/20/1984	15.00%	12.48%	2.52%
8/27/1984	16.30%	12.49%	3.81%
8/31/1984	15.55%	12.51%	3.04%
9/6/1984	16.00%	12.52%	3.48%
9/10/1984	14.75%	12.52%	2.23%
9/13/1984	15.00%	12.53%	2.47%
9/17/1984	17.38%	12.54%	4.84%
9/28/1984	16.25%	12.56%	3.69%
10/9/1984	14.75%	12.57%	2.18%
10/12/1984	15.60%	12.57%	3.03%
10/22/1984	15.00%	12.57%	2.43%
10/26/1984	16.40%	12.57%	3.83%
10/31/1984	16.25%	12.57%	3.68%
11/7/1984	15.60%	12.56%	3.04%
11/20/1984	15.25%	12.56%	2.69%
11/20/1984	15.92%	12.56%	3.36%
11/23/1984	15.00%	12.56%	2.44%
11/28/1984	16.15%	12.55%	3.60%
12/4/1984	16.50%	12.55%	3.95%
12/18/1984	16.40%	12.53%	3.87%
12/19/1984	14.75%	12.52%	2.23%
12/19/1984	15.00%	12.52%	2.48%
12/28/1984	16.00%	12.50%	3.50%
1/3/1985	14.75%	12.49%	2.26%
1/10/1985	15.75%	12.47%	3.28%
1/11/1985	16.30%	12.46%	3.84%
1/23/1985	15.80%	12.43%	3.37%
1/24/1985	15.82%	12.43%	3.39%
1/25/1985	16.75%	12.42%	4.33%
1/30/1985	14.90%	12.40%	2.50%
1/31/1985	14.75%	12.39%	2.36%
2/8/1985	14.47%	12.36%	2.11%
3/1/1985	13.84%	12.31%	1.53%
3/8/1985	16.85%	12.30%	4.55%
3/14/1985	15.50%	12.27%	3.23%
3/29/1985	15.62%	12.19%	3.43%
4/3/1985	14.60%	12.17%	2.43%
4/9/1985	15.50%	12.14%	3.36%
4/16/1985	15.70%	12.08%	3.62%
4/22/1985	14.00%	12.04%	1.96%
4/26/1985	15.50%	12.00%	3.50%
4/29/1985	15.00%	12.00%	3.00%
5/2/1985	14.68%	11.97%	2.71%
5/8/1985	15.62%	11.92%	3.70%
7/9/1985	15.00%	11.47%	3.53%
7/16/1985	14.50%	11.41%	3.09%

7/26/1985	14.50%	11.34%	3.16%
8/2/1985	14.80%	11.31%	3.49%
8/7/1985	15.00%	11.29%	3.71%
8/28/1985	14.25%	11.16%	3.09%
8/28/1985	15.50%	11.16%	4.34%
8/29/1985	14.50%	11.16%	3.34%
9/9/1985	14.60%	11.12%	3.48%
9/17/1985	14.90%	11.10%	3.80%
9/23/1985	15.00%	11.07%	3.93%
9/27/1985	15.80%	11.05%	4.75%
9/27/1985	15.50%	11.05%	4.45%
10/2/1985	14.75%	11.04%	3.71%
10/2/1985	14.00%	11.04%	2.96%
10/3/1985	15.25%	11.04%	4.21%
10/24/1985	15.40%	10.97%	4.43%
10/24/1985	15.85%	10.97%	4.88%
10/24/1985	15.82%	10.97%	4.85%
10/29/1985	16.65%	10.95%	5.70%
11/4/1985	14.50%	10.93%	3.57%
11/8/1985	14.30%	10.90%	3.40%
12/12/1985	14.75%	10.74%	4.01%
12/18/1985	15.00%	10.70%	4.30%
12/20/1985	15.00%	10.69%	4.31%
12/20/1985	14.50%	10.69%	3.81%
12/20/1985	14.50%	10.69%	3.81%
1/24/1986	15.40%	10.43%	4.97%
1/31/1986	15.00%	10.37%	4.63%
2/5/1986	15.00%	10.34%	4.66%
2/10/1986	13.30%	10.31%	2.99%
2/11/1986	12.50%	10.30%	2.20%
2/14/1986	14.40%	10.27%	4.13%
2/18/1986	16.00%	10.25%	5.75%
2/24/1986	14.50%	10.20%	4.30%
2/26/1986	14.00%	10.17%	3.83%
3/11/1986	14.50%	10.04%	4.46%
3/12/1986	13.50%	10.02%	3.48%
3/27/1986	14.10%	9.86%	4.24%
3/31/1986	13.50%		3.65%
		9.85%	
4/1/1986	14.00%	9.84%	4.16%
4/2/1986	15.50%	9.82%	5.68%
4/4/1986	15.00%	9.79%	5.21%
4/14/1986	13.40%	9.71%	3.69%
4/23/1986	15.00%		
		9.59%	5.41%
5/16/1986	14.50%	9.35%	5.15%
5/29/1986	13.90%	9.22%	4.68%
5/30/1986	15.10%	9.21%	5.89%
6/2/1986	12.81%	9.20%	3.61%
6/11/1986	14.00%	9.10%	4.90%
6/24/1986	16.63%	8.97%	7.66%
6/26/1986	12.00%	8.94%	3.06%
6/26/1986	14.75%	8.94%	5.81%
6/30/1986	13.00%	8.91%	4.09%
7/10/1986	14.34%	8.79%	5.55%
7/11/1986	12.75%	8.77%	3.98%
7/14/1986	12.60%	8.75%	3.85%
7/17/1986	12.40%	8.70%	3.70%
7/25/1986	14.25%	8.61%	5.64%
8/6/1986	13.50%	8.48%	5.02%
8/14/1986	13.50%	8.39%	5.11%
9/19/1986	13.25%	8.07%	5.18%
10/1/1986	14.00%	7.98%	6.02%
10/3/1986	13.40%	7.96%	5.44%
10/31/1986	13.50%	7.81%	5.69%

11/5/1986	13.00%	7.78%	5.22%
12/3/1986	12.90%	7.61%	5.29%
12/4/1986	14.44%	7.60%	6.84%
40/00/4000			
12/22/1986	13.80%	7.52%	6.28%
12/30/1986	13.00%	7.50%	5.50%
1/2/1987	13.00%	7.49%	5.51%
1/12/1987	12.40%	7.48%	4.92%
1/27/1987	12.71%	7.46%	5.25%
3/2/1987	12.47%	7.47%	5.00%
3/3/1987	13.60%	7.47%	6.13%
3/4/1987	12.38%	7.47%	4.91%
3/10/1987	13.50%	7.47%	6.03%
3/13/1987	13.00%	7.47%	5.53%
4/14/1987	12.50%	7.49%	5.01%
4/16/1987	14.50%	7.50%	7.00%
4/27/1987	12.00%	7.53%	4.47%
5/5/1987	12.85%	7.57%	5.28%
5/12/1987	12.65%	7.61%	5.04%
5/28/1987	13.50%	7.69%	5.81%
6/15/1987	13.20%	7.77%	5.43%
6/29/1987	15.00%	7.83%	7.17%
6/30/1987	12.50%	7.83%	4.67%
7/8/1987	12.00%	7.85%	4.15%
7/10/1987	12.90%	7.86%	5.04%
7/15/1987	13.50%	7.87%	5.63%
7/16/1987	15.00%	7.88%	7.12%
7/16/1987	13.50%	7.88%	5.62%
7/27/1987	13.00%	7.91%	5.09%
7/27/1987	13.40%	7.91%	5.49%
7/27/1987	13.50%	7.91%	5.59%
7/31/1987	12.98%	7.94%	5.04%
8/26/1987	12.63%	8.05%	4.58%
8/26/1987	12.75%	8.05%	4.70%
9/9/1987	13.00%	8.12%	4.88%
9/30/1987	13.00%	8.29%	4.71%
10/2/1987	11.50%	8.31%	3.19%
11/2/1987	13.00%	8.52%	4.48%
11/19/1987	13.00%	8.61%	4.39%
11/30/1987	12.00%	8.66%	3.34%
12/3/1987	14.20%	8.68%	5.52%
12/15/1987	13.25%	8.75%	4.50%
10/16/1007			
12/16/1987	13.72%	8.76%	4.96%
12/16/1987	13.50%	8.76%	4.74%
12/21/1987	12.01%	8.78%	3 23%
			0.2070
12/22/1987	12.75%	8.79%	3.96%
12/22/1987	12.00%	8.79%	3.21%
12/22/1987	12.00%	8.79%	3.21%
1/20/1988	13.80%	8.91%	4.89%
1/29/1988	13.20%	8.94%	4.26%
2/4/1988	12.60%	8.95%	3.65%
3/1/1988	11.56%	8.94%	2.62%
3/23/1988	12.87%	8.92%	3.95%
3/24/1988	11.24%	8.92%	2.32%
4/1/1988	12.50%	8.92%	3.58%
4/7/1988	13.25%	8.92%	4.33%
4/25/1988	10.96%	8.95%	2.01%
5/3/1988	12.91%	8.97%	3.94%
5/11/1988	13.50%	8.98%	4.52%
6/30/1988	12.75%	9.01%	3.74%
7/1/1988	12.75%	9.00%	3.75%
7/20/1988	13.40%	8.98%	4.42%
8/5/1988	12.75%	8.94%	3.81%
	12.75%		
8/29/1988	12./5%	8.94%	3.81%

10/13/1988	13.10%	8.94%	4.16%
12/19/1988	13.00%	9.00%	4.00%
12/20/1988	13.00%	9.01%	3.99%
12/20/1988	12.25%	9.01%	3.24%
12/21/1988	12.90%	9.01%	3.89%
12/28/1988	13.10%	9.02%	4.08%
1/27/1989	13.00%	9.05%	3.95%
1/31/1989	13.00%	9.05%	3.95%
2/20/1989	12.40%	9.05%	3.35%
3/1/1989	12.76%	9.05%	3.71%
3/30/1989	14.00%	9.05%	4.95%
4/18/1989	13.00%	9.05%	3.95%
5/5/1989	12.40%	9.05%	3.35%
6/2/1989	13.20%	9.01%	4.19%
6/8/1989	13.50%	8.99%	4.51%
6/27/1989	13.25%	8.92%	4.33%
6/30/1989	13.00%	8.90%	4.10%
8/14/1989	12.50%	8.77%	3.73%
9/28/1989	12.25%	8.64%	3.61%
10/24/1989	12.50%	8.55%	3.95%
11/9/1989	13.00%	8.49%	4.51%
12/15/1989	13.00%	8.35%	4.65%
12/20/1989	12.90%	8.33%	4.57%
12/21/1989	12.90%	8.33%	4.57%
12/27/1989	12.50%	8.31%	4.19%
1/10/1990	12.80%	8.26%	4.54%
1/11/1990	12.90%	8.25%	4.65%
1/17/1990	12.80%	8.24%	4.56%
2/9/1990	12.10%	8.19%	3.91%
2/24/1990	12.86%	8.16%	4.70%
3/30/1990	12.90%	8.16%	4.74%
4/4/1990	15.76%	8.17%	7.59%
4/12/1990	12.52%	8.18%	4.34%
4/19/1990	12.75%	8.19%	4.56%
5/21/1990	12.10%	8.28%	3.82%
5/31/1990	12.00%	8.30%	3.70%
6/6/1990	12.25%	8.30%	3.95%
6/15/1990	13.20%	8.31%	4.89%
6/20/1990	12.92%	8.32%	4.60%
6/27/1990	12.90%	8.33%	4.57%
6/29/1990	12.50%	8.33%	4.17%
7/6/1990	12.35%	8.34%	4.01%
7/6/1990	12.10%	8.34%	3.76%
8/10/1990	12.55%	8.40%	4.15%
8/16/1990	13.21%	8.42%	4.79%
8/22/1990	13.10%	8.44%	4.66%
8/24/1990	13.00%	8.45%	4.55%
10/2/1990	13.00%	8.60%	4.40%
10/5/1990	12.84%	8.61%	4.23%
10/25/1990	12.30%	8.67%	3.63%
12/13/1990	12.30%	8.67%	3.63%
12/17/1990	12.87%	8.67%	4.20%
12/18/1990	13.10%	8.66%	4.44%
12/21/1990	12.50%	8.66%	3.84%
1/2/1991	13.10%	8.65%	4.45%
1/4/1991	12.50%	8.65%	3.85%
1/15/1991	12.75%	8.64%	4.11%
1/25/1991	11.70%	8.63%	3.07%
2/7/1991	12.50%	8.60%	3.90%
2/14/1991	12.72%	8.57%	4.15%
3/6/1991	13.10%	8.53%	4.57%
3/8/1991	13.00%	8.53%	4.47%
3/8/1991	12.30%	8.53%	3.77%
			, 3

4/22/1991	13.00%	8.49%	4.51%
5/7/1991	13.50%	8.47%	5.03%
5/13/1991	13.25%	8.47%	4.78%
5/30/1991	12.75%	8.45%	4.30%
6/12/1991	12.00%	8.42%	3.58%
6/25/1991	11.70%	8.40%	3.30%
7/1/1991	12.00%	8.39%	3.61%
7/19/1991	12.10%	8.35%	3.75%
8/1/1991	12.90%	8.33%	4.57%
8/16/1991	13.20%	8.30%	4.90%
10/17/1991	13.00%	8.21%	4.79%
10/23/1991	12.50%	8.20%	4.30%
10/31/1991	11.80%	8.19%	3.61%
11/1/1991	12.00%	8.19%	3.81%
11/5/1991	12.25%	8.19%	4.06%
11/12/1991	12.50%	8.18%	4.32%
11/12/1991	13.25%	8.18%	5.07%
11/25/1991	12.40%	8.17%	4.23%
11/26/1991	12.50%	8.17%	4.33%
11/26/1991	11.60%	8.17%	3.43%
11/27/1991	12.10%	8.17%	3.93%
12/18/1991	12.25%	8.15%	4.10%
12/19/1991	12.60%	8.15%	4.45%
12/19/1991	12.80%	8.15%	4.65%
12/20/1991	12.65%	8.14%	4.51%
1/9/1992	12.80%	8.09%	4.71%
1/27/1992	12.65%	8.06%	4.59%
1/31/1992	12.00%	8.05%	3.95%
2/11/1992	12.40%	8.03%	4.37%
2/25/1992	12.50%	8.02%	4.48%
3/16/1992	11.43%	7.99%	3.44%
3/18/1992	12.28%	7.99%	4.29%
4/2/1992	12.10%	7.96%	4.14%
4/9/1992	11.45%	7.95%	3.50%
4/10/1992	11.50%	7.94%	3.56%
5/5/1992	11.50%	7.90%	3.60%
5/12/1992	12.46%	7.89%	4.57%
5/12/1992	11.87%	7.89%	3.98%
6/1/1992	12.30%	7.87%	4.43%
6/12/1992	10.90%	7.86%	3.04%
6/26/1992	12.35%	7.85%	4.50%
6/29/1992	11.00%	7.85%	3.15%
6/30/1992	13.00%	7.85%	5.15%
7/13/1992	11.90%	7.84%	4.06%
7/22/1992	11.20%	7.83%	3.37%
8/3/1992	12.00%	7.81%	4.19%
8/6/1992	12.50%	7.80%	4.70%
9/22/1992	12.00%	7.72%	4.28%
9/30/1992	11.75%	7.70%	4.05%
10/2/1992	13.00%	7.70%	5.30%
10/16/1992	13.16%	7.70%	5.46%
12/3/1992	11.85%	7.68%	4.17%
12/15/1992	11.00%	7.67%	3.33%
12/16/1992	11.90%	7.67%	4.24%
12/16/1992	12.40%	7.67%	4.74%
12/17/1992	12.00%	7.66%	4.34%
12/22/1992	12.40%	7.65%	4.75%
12/22/1992	12.30%	7.65%	4.65%
12/29/1992	12.25%	7.64%	4.61%
1/12/1993	12.00%	7.61%	4.39%
1/21/1993	11.25%	7.59%	3.66%
2/15/1993	12.30%	7.53%	4.77%
2/24/1993	11.90%	7.50%	4.40%

2/26/1993	11.80%	7.49%	4.31%
2/26/1993	12.20%	7.49%	4.71%
4/23/1993	11.75%	7.30%	4.45%
5/11/1993	11.75%	7.25%	4.50%
5/14/1993	11.50%	7.24%	4.26%
5/25/1993	11.50%	7.23%	4.27%
E/00/4000	44.000/	7 000/	3.78%
5/28/1993	11.00%	7.22%	
6/3/1993	12.00%	7.21%	4.79%
6/16/1993	11.50%	7.19%	4.31%
6/18/1993	12.10%	7.18%	4.92%
6/25/1993	11.67%	7.17%	4.50%
7/21/1993	11.38%	7.11%	4.27%
7/23/1993	10.46%	7.10%	3.36%
9/21/1993	10.50%	6.82%	3.68%
9/29/1993	11.47%	6.78%	4.69%
9/30/1993	11.60%	6.77%	4.83%
	11.00%	0.7770	
11/12/1993	12.00%	6.58%	5.42%
44/00/4000			4 470/
11/26/1993	11.00%	6.53%	4.47%
12/14/1993	10.55%	6.49%	4.06%
12/16/1993	10.60%	6.48%	4.12%
12/21/1993	11.30%	6.48%	4.82%
1/13/1994	11.00%	6.43%	4.57%
1/21/1994	11.00%	6.41%	4.59%
1/28/1994	11.35%	6.40%	4.95%
2/2/4004	44 400/	6.39%	E 040/
2/3/1994	11.40%		5.01%
2/17/1994	10.60%	6.37%	4.23%
2/25/1994	12.00%	6.36%	5.64%
3/4/1994	11.00%	6.36%	4.64%
4/25/1994	11.00%	6.41%	4.59%
5/10/1994	11.75%	6.45%	5.30%
6/3/1994	11.00%	6.53%	4.47%
6/27/1994	11.40%	6.63%	4.77%
8/5/1994	12.75%	6.86%	5.89%
10/31/1994	10.00%	7.31%	2.69%
11/9/1994	10.85%	7.37%	3.48%
11/9/1994	10.85%	7.37%	3.48%
11/18/1994	11.20%	7.43%	3.77%
11/22/1994	11.60%	7.45%	4.15%
12/8/1994	11.70%	7.53%	4.17%
12/8/1994	11.50%	7.53%	3.97%
12/14/1994	10.95%	7.55%	3.40%
12/15/1994		7.55%	
	11.50%		3.95%
12/19/1994	11.50%	7.56%	3.94%
			4.55%
12/28/1994	12.15%	7.60%	4.55%
1/9/1995	12.28%	7.63%	4.65%
1/31/1995	11.00%	7.68%	3.32%
2/10/1995	12.60%	7.70%	4.90%
3/20/1995	12.00%	7.71%	4.29%
3/29/1995	11.60%	7.71%	3.89%
4/7/1995	11.00%	7.71%	3.29%
4/19/1995	11.00%	7.70%	3.30%
5/12/1995	11.63%	7.67%	3.96%
5/25/1995	11.20%	7.64%	3.56%
6/21/1995	12.25%	7.56%	4.69%
6/30/1995	11.10%	7.52%	3.58%
9/11/1995	11.30%	7.22%	4.08%
9/27/1995	11.0070		
		7 1/10/	
0/07/4005	11.50%	7.14%	4.36%
9/27/1995		7.14% 7.14%	4.36%
	11.50% 11.30%	7.14%	4.16%
9/29/1995	11.50% 11.30% 11.00%	7.14% 7.13%	4.16% 3.87%
	11.50% 11.30%	7.14% 7.13%	4.16%
9/29/1995 12/11/1995	11.50% 11.30% 11.00% 11.40%	7.14% 7.13% 6.76%	4.16% 3.87% 4.64%
9/29/1995 12/11/1995 12/20/1995	11.50% 11.30% 11.00%	7.14% 7.13% 6.76% 6.71%	4.16% 3.87% 4.64% 4.89%
9/29/1995 12/11/1995 12/20/1995	11.50% 11.30% 11.00% 11.40% 11.60%	7.14% 7.13% 6.76% 6.71%	4.16% 3.87% 4.64% 4.89%
9/29/1995 12/11/1995 12/20/1995 12/27/1995	11.50% 11.30% 11.00% 11.40% 11.60% 12.00%	7.14% 7.13% 6.76% 6.71% 6.68%	4.16% 3.87% 4.64% 4.89% 5.32%
9/29/1995 12/11/1995 12/20/1995	11.50% 11.30% 11.00% 11.40% 11.60%	7.14% 7.13% 6.76% 6.71%	4.16% 3.87% 4.64% 4.89%

11.00% 12.59% 12.59%	6.42%	4.58%
	6.43%	6.16%
	6.43%	6.16%
11.00%	6.70%	4.30%
11.30%	6.82%	4.48%
11.50%	6.83%	4.67%
	6.83%	3.87%
10.70%		
		4.97%
		4.98%
		3.21%
		4.84%
		4.69%
		4.89%
		5.23%
	6.58%	4.54%
12.75%	6.41%	6.34%
11.25%	6.30%	4.95%
12.20%	6.13%	6.07%
11.40%	5.94%	5.46%
11.90%	5.79%	6.11%
12.20%	5.55%	6.65%
12.10%	5.53%	6.57%
10.30%	5.39%	4.91%
		5.15%
		5.61%
		5.24%
		5.46%
		5.46%
		4.43%
		5.06%
		4.82%
		6.04%
		5.12%
		7.01%
		6.21%
		5.72%
		5.13%
		5.42%
		5.42%
		5.45%
		4.45%
		7.39%
		7.01%
10.10%	5.45%	4.65%
11.80%	5.45%	6.35%
10.17%	5.46%	4.71%
12.00%	5.47%	6.53%
12.30%	5.47%	6.83%
		0.05/0
11.00%	5.47%	5.53%
11.00% 12.30%	5.47% 5.45%	
		5.53%
12.30% 10.45%	5.45% 5.41%	5.53% 6.85% 5.04%
12.30%	5.45% 5.41% 5.14%	5.53% 6.85% 5.04% 7.31%
12.30% 10.45% 12.45% 12.30%	5.45% 5.41% 5.14% 5.06%	5.53% 6.85% 5.04% 7.31% 7.24%
12.30% 10.45% 12.45% 12.30% 10.75%	5.45% 5.41% 5.14%	5.53% 6.85% 5.04% 7.31%
12.30% 10.45% 12.45% 12.30%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00% 4.97%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00% 7.03%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00% 11.15%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00% 4.97% 4.95%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00% 7.03% 6.20%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00% 11.15% 9.75%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00% 4.97% 4.95% 4.79%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00% 7.03% 6.20% 4.96%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00% 12.00% 11.15% 9.75% 9.85%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00% 4.97% 4.95% 4.79% 4.93%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00% 7.03% 6.20% 4.96% 4.92%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00% 11.15% 9.75% 9.85% 12.00%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00% 4.97% 4.95% 4.79% 4.93% 4.93%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00% 7.03% 6.20% 4.96% 4.92% 7.07%
12.30% 10.45% 12.45% 12.30% 10.75% 9.96% 12.00% 12.00% 11.15% 9.75% 9.85%	5.45% 5.41% 5.14% 5.06% 5.04% 5.03% 5.00% 4.97% 4.95% 4.79% 4.93%	5.53% 6.85% 5.04% 7.31% 7.24% 5.71% 4.93% 7.00% 7.03% 6.20% 4.96% 4.92%
	12.20% 11.40% 11.90% 12.20% 12.10% 10.30% 10.50% 10.94% 10.75% 11.50% 11.50% 11.60% 11.25% 11.00% 12.20% 11.16% 12.90% 11.16% 12.90% 11.16% 12.90% 11.50% 10.75% 11.02% 11.02% 11.02% 11.02% 11.02% 11.02% 11.00% 12.88% 12.50% 10.10% 11.80% 10.17%	11.80%       6.82%         10.02%       6.81%         11.65%       6.81%         11.50%       6.81%         11.70%       6.81%         12.00%       6.77%         11.12%       6.58%         12.75%       6.41%         11.25%       6.30%         12.20%       6.13%         11.40%       5.94%         11.90%       5.79%         12.20%       5.55%         12.10%       5.53%         10.30%       5.39%         10.50%       5.35%         10.94%       5.33%         10.75%       5.51%         11.50%       6.04%         11.50%       6.04%         11.06%       6.17%         11.25%       6.19%         11.00%       6.18%         12.20%       6.16%         11.16%       6.04%         12.90%       5.89%         12.10%       5.89%         11.50%       5.62%         11.02%       5.60%         11.02%       5.60%         11.02%       5.60%         11.00%       5.55%         12.88%       5.49%

3/2/2004	10.75%	4.97%	5.78%
3/26/2004	10.25%	5.01%	5.24%
4/5/2004	11.25%	5.02%	6.23%
5/18/2004	10.50%	5.08%	5.42%
5/25/2004	10.25%	5.08%	5.17%
7/16/2004	11.60%	5.11%	6.49%
9/9/2004	10.40%	5.10%	5.30%
11/23/2004	11.00%	5.06%	5.94%
12/21/2004	11.50%	5.06%	6.44%
12/22/2004	10.70%	5.06%	5.64%
			6.44%
12/22/2004	11.50%	5.06%	
2/18/2005	10.30%	4.99%	5.31%
3/10/2005	11.00%	4.94%	6.06%
4/4/2005	10.00%	4.89%	5.11%
7/19/2005	11.50%	4.65%	6.85%
8/5/2005	11.75%	4.63%	7.12%
12/12/2005	11.00%	4.55%	6.45%
12/13/2005	10.75%	4.55%	6.20%
12/22/2005	11.15%	4.55%	6.60%
12/22/2005	11.00%	4.55%	6.45%
12/28/2005	10.00%	4.54%	5.46%
12/28/2005	10.00%	4.54%	5.46%
1/5/2006	11.00%	4.54%	6.46%
1/27/2006	9.75%	4.52%	5.23%
4/17/2006	10.20%	4.61%	5.59%
4/26/2006			
	10.60%	4.64%	5.96%
5/17/2006	11.60%	4.69%	6.91%
6/6/2006	10.00%	4.74%	5.26%
7/28/2006	10.05%	4.86%	5.19%
8/23/2006	9.55%	4.88%	4.67%
9/1/2006	10.54%	4.89%	5.65%
11/21/2006	10.08%	4.94%	5.14%
11/21/2006	10.08%	4.94%	5.14%
11/21/2006	10.12%	4.94%	5.18%
12/21/2006	10.12%	4.95%	5.95%
12/21/2006	11.25%	4.95%	6.30%
1/11/2007	10.10%	4.95%	5.15%
1/11/2007	10.10%	4.95%	5.15%
1/11/2007	10.90%	4.95%	5.95%
1/12/2007	10.10%	4.95%	5.15%
1/13/2007	10.40%	4.95%	5.45%
1/19/2007	10.80%	4.95%	5.85%
5/15/2007	10.00%	4.81%	5.19%
5/17/2007	10.00%	4.81%	5.44%
5/17/2007	10.25%	4.81%	5.44%
5/22/2007	10.20%	4.81%	5.39%
5/22/2007	10.50%	4.81%	5.69%
5/23/2007	10.70%	4.81%	5.89%
6/15/2007	9.90%	4.82%	5.08%
6/21/2007	10.20%	4.83%	5.37%
6/28/2007	10.75%	4.84%	5.91%
7/19/2007	10.00%	4.87%	5.13%
			5.13%
7/19/2007	10.00%	4.87%	
10/9/2007	10.00%	4.91%	5.09%
10/17/2007	9.10%	4.91%	4.19%
10/31/2007	9.96%	4.90%	5.06%
12/6/2007	10.75%	4.86%	5.89%
12/13/2007	9.96%	4.85%	5.11%
12/14/2007	10.80%	4.85%	5.95%
1/8/2008	10.75%	4.83%	5.92%
1/17/2008	10.75%	4.82%	5.93%
		4.82%	
1/28/2008	9.40%		4.60%
1/30/2008	10.00%	4.79%	5.21%

2/29/2008	10.25%	4.75%	5.50%
3/25/2008	9.10%	4.70%	4.40%
4/24/2008	10.10%	4.61%	5.49%
5/19/2008	11.00%	4.57%	6.43%
5/27/2008	10.00%	4.56%	5.44%
6/10/2008	10.70%	4.55%	6.15%
6/27/2008	11.04%	4.55%	6.49%
7/10/2008	10.43%	4.53%	5.90%
7/30/2008	10.80%	4.51%	6.29%
8/11/2008	10.25%	4.51%	5.74%
8/26/2008	10.18%	4.50%	5.68%
9/24/2008	10.65%	4.48%	6.17%
9/24/2008	10.65%	4.48%	6.17%
9/24/2008	10.65%	4.48%	6.17%
12/23/2008	11.00%	4.27%	6.73%
12/29/2008	10.00%	4.24%	5.76%
1/14/2009	10.50%	4.15%	6.35%
1/21/2009	10.50%	4.12%	6.38%
1/21/2009	10.50%	4.12%	6.38%
1/21/2009	10.50%	4.12%	6.38%
1/27/2009	10.76%	4.10%	6.66%
1/30/2009	10.50%	4.08%	6.42%
2/4/2009	8.75%	4.07%	4.68%
3/12/2009	11.50%	3.95%	7.55%
4/24/2009	10.00%	3.80%	6.20%
4/30/2009	11.25%	3.79%	7.46%
5/4/2009	10.74%	3.79%	6.95%
6/22/2009	10.00%	3.77%	6.23%
6/24/2009	10.80%	3.77%	7.03%
8/31/2009	10.25%	3.82%	6.43%
10/23/2009	10.88%	4.03%	6.85%
11/2/2009	10.70%	4.08%	6.62%
11/30/2009	10.35%	4.15%	6.20%
12/18/2009	10.40%	4.21%	6.19%
12/18/2009	10.40%	4.21%	6.19%
12/22/2009	10.20%	4.22%	5.98%
12/22/2009	10.40%	4.22%	6.18%
12/22/2009	10.40%	4.22%	6.18%
12/30/2009	10.00%	4.25%	5.75%
1/4/2010	10.80%	4.26%	6.54%
1/11/2010	11.00%	4.29%	6.71%
2/9/2010	9.80%	4.37%	5.43%
2/18/2010	10.60%	4.39%	6.21%
3/2/2010	9.63%	4.41%	5.22%
4/2/2010	10.10%	4.43%	5.67%
4/27/2010	10.00%	4.46%	5.54%
4/29/2010	9.90%	4.46%	5.44%
4/29/2010	10.06%	4.46%	5.60%
4/29/2010	10.26%	4.46%	5.80%
5/28/2010	10.10%	4.44%	5.66%
6/30/2010	9.40%	4.43%	4.97%
7/1/2010	10.25%	4.42%	5.83%
7/15/2010	10.53%	4.42%	6.11%
		4.41%	5.42%
8/6/2010	9.83%		
8/25/2010	9.90%	4.37%	5.53%
9/30/2010	9.75%	4.29%	5.46%
11/2/2010	10.38%	4.21%	6.17%
11/4/2010	10.70%	4.20%	6.50%
11/22/2010	10.00%	4.18%	5.82%
12/6/2010	9.86%	4.16%	5.70%
12/15/2010	10.44%	4.16%	6.28%
12/20/2010	10.60%	4.16%	6.44%
12/27/2010	9.90%	4.15%	5.75%

1/12/2011	10.30%	4.14%	6.16%
1/13/2011	10.30%	4.14%	6.16%
1/18/2011	10.00%	4.13%	5.87%
1/20/2011	9.30%	4.13%	5.17%
1/31/2011	9.60%	4.13%	5.47%
2/3/2011	10.00%	4.13%	5.87%
3/25/2011	9.80%	4.18%	5.62%
4/12/2011	10.00%	4.20%	5.80%
4/25/2011	10.74%	4.23%	6.51%
4/27/2011	10.40%	4.23%	6.17%
5/4/2011	10.00%	4.24%	5.76%
5/4/2011	10.00%	4.24%	5.76%
5/24/2011	10.50%	4.26%	6.24%
6/16/2011	9.20%	4.30%	4.90%
7/13/2011	10.20%	4.35%	5.85%
8/1/2011	9.20%	4.38%	4.82%
8/12/2011	10.35%	4.37%	5.98%
9/2/2011	12.88%	4.32%	8.56%
10/20/2011	10.50%	4.11%	6.39%
11/30/2011	10.90%	3.89%	7.01%
11/30/2011	10.90%	3.89%	7.01%
12/22/2011	9.90%	3.76%	6.14%
12/22/2011	10.40%	3.76%	6.64%
12/23/2011	10.19%	3.76%	6.43%
2/27/2012	10.25%	3.44%	6.81%
5/7/2012	9.80%	3.19%	6.61%
5/29/2012	10.05%	3.11%	6.94%
6/7/2012	10.30%	3.09%	7.21%
6/15/2012	10.40%	3.06%	7.34%
6/19/2012	9.25%	3.06%	6.19%
6/26/2012	10.10%	3.04%	7.06%
7/20/2012	9.81%	3.01%	6.80%
7/20/2012	9.31%	3.01%	6.30%
9/13/2012	9.80%	2.94%	6.86%
9/19/2012	10.05%	2.94%	7.11%
9/26/2012	9.50%	2.94%	6.56%
11/9/2012	10.30%	2.92%	7.38%
11/28/2012	10.40%	2.90%	7.50%
12/5/2012	9.71%	2.89%	6.82%
12/5/2012	10.40%	2.89%	7.51%
		2.89%	6.91%
12/12/2012	9.80%		
12/13/2012	9.50%	2.89%	6.61%
12/14/2012	10.40%	2.88%	7.52%
10/10/00 10		0.000/	
12/19/2012	9.71%	2.88%	6.83%
12/20/2012	10.40%	2.88%	7.52%
12/20/2012	10.30%	2.88%	7.42%
12/20/2012			
	10.45%	2.88%	7.57%
12/21/2012	10.20%	2.88%	7.32%
2/13/2013	10.20%	2.85%	7.35%
		2.85%	
2/22/2013	9.75%		6.90%
7/12/2013	9.36%	3.07%	6.29%
8/8/2013	9.83%	3.14%	6.69%
8/14/2013	9.15%	3.15%	6.00%
10/3/2013	9.65%	3.32%	6.33%
11/6/2013	10.20%	3.40%	6.80%
11/26/2013	10.00%	3.45%	6.55%
12/4/2013	9.50%	3.47%	6.03%
12/5/2013	10.20%	3.47%	6.73%
12/9/2013	8.72%	3.48%	5.24%
12/13/2013	9.75%	3.49%	6.26%
12/16/2013	10.12%	3.50%	6.62%
12/18/2013	8.72%	3.50%	5.22%
12/30/2013	9.50%	3.53%	5.97%

3/26/2014	9.40%	3.72%	5.68%
3/26/2014	9.96%	3.72%	6.24%
4/2/2014	9.70%	3.72%	5.98%
5/30/2014	9.70%	3.68%	6.02%
6/6/2014	10.40%	3.67%	6.73%
7/2/2014	9.62%	3.64%	5.98%
11/6/2014	9.56%	3.38%	6.18%
11/6/2014	10.20%	3.38%	6.82%
11/14/2014	10.20%	3.36%	6.84%
11/26/2014	9.70%	3.33%	6.37%
11/26/2014	10.20%	3.33%	6.87%
12/10/2014	9.25%	3.30%	5.95%
12/10/2014	9.25%	3.30%	5.95%
12/12/2014	10.20%	3.29%	6.91%
12/17/2014	9.17%	3.28%	5.89%
12/18/2014	9.83%	3.27%	6.56%
1/23/2015	9.50%	3.15%	6.35%
3/18/2015	9.75%	2.99%	6.76%
3/25/2015	9.50%	2.97%	6.53%
3/26/2015	9.72%	2.96%	6.76%
4/29/2015	9.53%	2.87%	6.66%
5/26/2015	9.75%	2.84%	6.91%
9/2/2015	9.50%	2.79%	6.71%
9/10/2015	9.30%	2.79%	6.51%
11/19/2015	10.30%	2.87%	7.43%
11/19/2015	10.00%	2.87%	7.13%
12/3/2015	10.00%	2.89%	7.11%
12/9/2015	9.14%	2.90%	6.24%
12/9/2015	9.14%	2.90%	6.24%
12/11/2015	10.30%	2.90%	7.40%
12/17/2015	9.70%	2.90%	6.80%
12/30/2015	9.50%	2.92%	6.58%
3/16/2016	9.85%	2.91%	6.94%
4/29/2016	9.80%	2.84%	6.96%
6/3/2016	9.75%	2.80%	6.95%
6/8/2016	9.48%	2.80%	6.68%

# of Cases: 1,102 Average: 4.22%

Implied Return on Equity with M/B Ratio at Unity

Institution Name	Ticker	ROACE (%)	Price/ Book (%)
		2015	2015
ALLETE, Inc.	ALE	7.97	137.0
Alliant Energy Corporation	LNT	10.40	190.3
Ameren Corporation	AEE	9.23	151.0
American Electric Power Company, Inc.	AEP	11.74	159.9
Avista Corporation	AVA	8.17	144.2
Black Hills Corporation	BKH	N/A	162.1
CMS Energy Corporation	CMS	13.65	253.9
Consolidated Edison, Inc.	ED	9.28	144.3
Dominion Resources, Inc.	D	15.46	318.5
Duke Energy Corporation	DUK	7.01	123.7
Edison International	EIX	9.03	169.7
El Paso Electric Company	EE	8.21	153.2
Entergy Corporation	ETR	N/A	131.7
Eversource Energy	ES	8.62	156.5
FirstEnergy Corp.	FE	4.63	108.2
IDACORP, Inc.	IDA	9.72	166.3
MGE Energy, Inc.	MGEE	10.56	233.0
NextEra Energy, Inc.	NEE	12.93	212.2
NorthWestern Corporation	NWE	9.95	163.3
OGE Energy Corp.	OGE	8.24	157.9
Otter Tail Corporation	OTTR	10.05	166.6
PG&E Corporation	PCG	5.42	157.9
Pinnacle West Capital Corporation	PNW	9.76	156.1
PNM Resources, Inc.	PNM	0.91	147.1
Portland General Electric Company	POR	8.12	143.0
SCANA Corporation	SCG	14.00	158.8
Southern Company	SO	11.67	207.2
WEC Energy Group, Inc.	WEC	9.08	187.2
Xcel Energy Inc.	XEL	9.50	171.9

Source: SNL Financial

# Implied Return on Equity with M/B Ratio at Unity

# SUMMARY OUTPUT

Regression Statistics				
Multiple R	0.696375			
R Square	0.484938			
Adjusted R Square	0.464336			
Standard Error	31.472311			
Observations	27			

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	23314.418992	23314.418992	23.537879	0.000055
Residual	25	24762.658747	990.506350		
Total	26	48077.077739			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	76.870997	20.484734	3.752599	0.000933	34.681898	119.060097
ROACE (%)	10.119661	2.085846	4.851585	0.000055	5.823780	14.415542

ROE (%)	PRICE/BOOK
2.29	100.00
3.27	110.00

# Constant Growth Discounted Cash Flow Model and Credit Rating Regression 30 Day Dividend Yield

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
Company	Ticker	Dividend Yield	Expected Dividend Yield	Yahoo Earnings Growth	Reuters Earnings Growth	Zacks Earnings Growth	Average Earnings Growth	Mean ROE	S&P Issuer Credit Rating	Numeric Credit Score
ALLETE, Inc.	ALE	3.70%	3.77%	3.00%	NA	4.50%	3.75%	7.52%	BBB+	5
Alliant Energy Corporation	LNT	3.30%	3.41%	6.60%	6.60%	6.10%	6.43%	9.84%	A-	4
Ameren Corporation	AEE	3.50%	3.60%	5.20%	5.20%	6.10%	5.50%	9.10%	BBB+	5
American Electric Power Company, Inc.	AEP	3.50%	3.58%	4.10%	4.10%	4.90%	4.37%	7.94%	BBB	6
Avista Corporation	AVA	3.40%	3.49%	5.00%	NA	5.00%	5.00%	8.49%	BBB	6
Black Hills Corporation	BKH	2.80%	2.89%	6.50%	NA	6.50%	6.50%	9.39%	BBB	6
CMS Energy Corporation	CMS	3.00%	3.10%	7.20%	7.20%	6.40%	6.93%	10.04%	BBB+	5
Consolidated Edison, Inc.	ED	3.70%	3.74%	1.90%	1.90%	2.30%	2.03%	5.77%	A-	4
Dominion Resources, Inc.	D	4.00%	4.12%	5.90%	5.90%	6.80%	6.20%	10.32%	BBB+	5
Duke Energy Corporation	DUK	4.20%	4.30%	4.60%	4.60%	4.80%	4.67%	8.96%	A-	4
Edison International	EIX	2.70%	2.74%	2.50%	2.50%	4.90%	3.30%	6.04%	BBB+	5
El Paso Electric Company	EE	2.80%	2.90%	7.00%	NA	6.70%	6.85%	9.75%	BBB	6
Entergy Corporation	ETR	4.50%	4.45%	-2.40%	-2.40%	-2.30%	-2.37%	2.08%	BBB	6
Eversource Energy	ES	3.20%	3.30%	6.30%	6.30%	6.30%	6.30%	9.60%	Α	3
FirstEnergy Corp.	FE	4.30%	4.26%	-2.50%	-2.50%	-1.00%	-2.00%	2.26%	BBB-	7
IDACORP, Inc.	IDA	2.80%	2.86%	4.00%	4.00%	4.00%	4.00%	6.86%	BBB	6
MGE Energy, Inc.	MGEE	2.30%	2.35%	4.00%	NA	NA	4.00%	6.35%	AA-	1
NextEra Energy, Inc.	NEE	2.90%	3.00%	7.40%	7.40%	6.90%	7.23%	10.24%	A-	4
NorthWestern Corporation	NWE	3.50%	3.59%	5.00%	5.00%	5.00%	5.00%	8.59%	BBB	6
OGE Energy Corp.	OGE	3.70%	3.79%	4.30%	4.30%	5.20%	4.60%	8.39%	A-	4
Otter Tail Corporation	OTTR	4.30%	4.43%	6.00%	NA	NA	6.00%	10.43%	BBB	6
PG&E Corporation	PCG	3.30%	3.40%	6.10%	6.10%	5.10%	5.77%	9.16%	BBB	6
Pinnacle West Capital Corporation	PNW	3.40%	3.47%	3.70%	3.70%	4.10%	3.83%	7.30%	A-	4
PNM Resources, Inc.	PNM	2.70%	2.81%	8.80%	8.80%	7.60%	8.40%	11.21%	BBB+	5
Portland General Electric Company	POR	3.20%	3.30%	6.60%	6.60%	6.40%	6.53%	9.84%	BBB	6
SCANA Corporation	SCG	3.30%	3.38%	4.80%	4.80%	5.30%	4.97%	8.35%	BBB+	5
Southern Company	SO	4.50%	4.58%	3.30%	3.20%	4.10%	3.53%	8.11%	A-	4
WEC Energy Group, Inc.	WEC	3.40%	3.51%	6.80%	6.80%	6.30%	6.63%	10.15%	A-	4
Xcel Energy Inc.	XEL	3.30%	3.39%	5.30%	5.30%	5.30%	5.30%	8.69%	A-	4
PROXY GROUP MEAN		3.42%	3.50%	4.72%	4.58%	4.94%	4.80%	8.30%	BBB+	4.9
PROXY GROUP MEDIAN		3.40%	3.47%	5.00%	5.00%	5.20%	5.00%	8.69%	BBB+	5.0

# REGRESSION OUTPUT

Regression Statistics	
Multiple R	0.133707
R Square	0.017878
Adjusted R Square	-0.018497
Standard Error	0.022034
Observations	29

ANOVA

	df	SS	MS	F	Signif. F
Regression	1	0.000239	0.000239	0.491482	0.489266
Residual	27	0.013108	0.000485		
Total	28	0.013347			

	Coefficients	Stand. Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.094593	0.017012	5.560305	0.000007	0.059687	0.129499
Credit Score	-0.002364	0.003372	-0.701058	0.489266	-0.009284	0.004555

Notes: [1] Source: JRW-10 [2] Equals [1] x (1 + 0.5 x [6]) [3] Source: JRW-10

[3] Source: JRW-10 [4] Source: JRW-10 [5] Source: JRW-10 [6] Equals Average([3], [4], [5]) [7] Equals [4] + [8] [8] Source: JRW-4

#### Constant Growth Discounted Cash Flow Model and Credit Rating Regression 90 Day Dividend Yield

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
Company	Ticker	Dividend Yield	Expected Dividend Yield	Zacks Earnings Growth	First Call Earnings Growth	Value Line Earnings Growth	Average Earnings Growth	Mean ROE	S&P Issuer Credit Rating	Numeric Credit Score
ALLETE, Inc.	ALE	3.80%	3.87%	3.00%	NA	4.50%	3.75%	7.62%	BBB+	5
Alliant Energy Corporation	LNT	3.30%	3.41%	6.60%	6.60%	6.10%	6.43%	9.84%	ддат А-	4
Ameren Corporation	AEE	3.60%	3.70%	5.20%	5.20%	6.10%	5.50%	9.04%	BBB+	5
American Electric Power Company, Inc.	AEP	3.50%	3.70%	4.10%	4.10%	4.90%	4.37%	7.94%	BBB	6
Avista Corporation	ALP	3.50%	3.59%	5.00%	4.10% NA	5.00%	5.00%	8.59%	BBB	6
Black Hills Corporation	BKH	2.90%	2.99%	6.50%	NA NA	6.50%	6.50%	9.49%	BBB	6
CMS Energy Corporation	CMS	2.90% 3.10%	2.99% 3.21%	7.20%	7.20%	6.40%	6.93%	9.49%	BBB+	5
0, 1	ED	3.70%	3.74%	7.20% 1.90%	1.90%	2.30%	2.03%	5.77%	A-	5 4
Consolidated Edison, Inc.	D	3.70% 4.00%	3.74% 4.12%	5.90%	5.90%	6.80%	6.20%	10.32%	A- BBB+	<del>4</del> 5
Dominion Resources, Inc.								9.07%		
Duke Energy Corporation	DUK	4.30%	4.40%	4.60%	4.60%	4.80%	4.67%		A-	4
Edison International	EIX	2.80%	2.85%	2.50%	2.50%	4.90%	3.30%	6.15%	BBB+	5
El Paso Electric Company	EE	2.90%	3.00%	7.00%	NA	6.70%	6.85%	9.85%	BBB	6
Entergy Corporation	ETR	4.60%	4.55%	-2.40%	-2.40%	-2.30%	-2.37%	2.18%	BBB	6
Eversource Energy	ES	3.20%	3.30%	6.30%	6.30%	6.30%	6.30%	9.60%	Α	3
FirstEnergy Corp.	FE	4.30%	4.26%	-2.50%	-2.50%	-1.00%	-2.00%	2.26%	BBB-	7
IDACORP, Inc.	IDA	2.80%	2.86%	4.00%	4.00%	4.00%	4.00%	6.86%	BBB	6
MGE Energy, Inc.	MGEE	2.40%	2.45%	4.00%	NA	NA	4.00%	6.45%	AA-	1
NextEra Energy, Inc.	NEE	3.00%	3.11%	7.40%	7.40%	6.90%	7.23%	10.34%	A-	4
NorthWestern Corporation	NWE	3.40%	3.49%	5.00%	5.00%	5.00%	5.00%	8.49%	BBB	6
OGE Energy Corp.	OGE	3.90%	3.99%	4.30%	4.30%	5.20%	4.60%	8.59%	A-	4
Otter Tail Corporation	OTTR	4.40%	4.53%	6.00%	NA	NA	6.00%	10.53%	BBB	6
PG&E Corporation	PCG	3.40%	3.50%	6.10%	6.10%	5.10%	5.77%	9.26%	BBB	6
Pinnacle West Capital Corporation	PNW	3.50%	3.57%	3.70%	3.70%	4.10%	3.83%	7.40%	A-	4
PNM Resources, Inc.	PNM	2.70%	2.81%	8.80%	8.80%	7.60%	8.40%	11.21%	BBB+	5
Portland General Electric Company	POR	3.30%	3.41%	6.60%	6.60%	6.40%	6.53%	9.94%	BBB	6
SCANA Corporation	SCG	3.40%	3.48%	4.80%	4.80%	5.30%	4.97%	8.45%	BBB+	5
Southern Company	SO	4.60%	4.68%	3.30%	3.20%	4.10%	3.53%	8.21%	A-	4
WEC Energy Group, Inc.	WEC	3.40%	3.51%	6.80%	6.80%	6.30%	6.63%	10.15%	A-	4
Xcel Energy Inc.	XEL	3.40%	3.49%	5.30%	5.30%	5.30%	5.30%	8.79%	A-	4
PROXY GROUP MEAN		3.49%	3.57%	4.72%	4.58%	4.94%	4.80%	8.37%	BBB+	4.9
PROXY GROUP MEDIAN		3.40%	3.50%	5.00%	5.00%	5.20%	5.00%	8.79%	BBB+	5.0

# REGRESSION OUTPUT

Regression Statistics	
Multiple R	0.137677
R Square	0.018955
Adjusted R Square	-0.017380
Standard Error	0.022042
Observations	29

#### ANOVA

	df	SS	MS	F	Signif. F
Regression	1	0.000253	0.000253	0.521673	0.476338
Residual	27	0.013117	0.000486		
Total	28	0.013371			

	Coefficients	Stand. Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.095618	0.017018	5.618640	0.000006	0.060700	0.130536
X Variable 1	-0.00244	0.003373	-0.722270	0.476338	-0.009358	0.004485

Notes:
[1] Source: JRW-10
[2] Equals [1] x (1 + 0.5 x [6])
[3] Source: JRW-10
[4] Source: JRW-10

[5] Source: JRW-10

[6] Equals Average([3], [4], [5]) [7] Equals [4] + [8] [8] Source: JRW-4

# Constant Growth Discounted Cash Flow Model and Credit Rating Regression 180 Day Dividend Yield

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
Company	Ticker	Dividend Yield	Expected Dividend Yield	Zacks Earnings Growth	First Call Earnings Growth	Value Line Earnings Growth	Average Earnings Growth	Mean ROE	S&P Issuer Credit Rating	Numeric Credit Score
ALLETE In-	A1 E	4.000/	4.000/	0.000/	NIA	4.500/	0.750/	7.000/	DDD.	
ALLETE, Inc.	ALE	4.00%	4.08%	3.00%	NA 0.000/	4.50%	3.75%	7.83%	BBB+	5
Alliant Energy Corporation	LNT AEE	3.60%	3.72% 3.90%	6.60%	6.60%	6.10% 6.10%	6.43%	10.15% 9.40%	A- BBB+	4
American Floatric Rower Company, Inc.		3.80%		5.20%	5.20%		5.50%		BBB+	5
American Electric Power Company, Inc.	AEP	3.80%	3.88%	4.10%	4.10%	4.90%	4.37%	8.25%		6
Avista Corporation	AVA	3.80%	3.90%	5.00%	NA	5.00%	5.00%	8.90%	BBB	6
Black Hills Corporation	BKH	3.40%	3.51%	6.50%	NA 7.00%	6.50%	6.50%	10.01%	BBB	6
CMS Energy Corporation	CMS	3.30%	3.41%	7.20%	7.20%	6.40%	6.93%	10.35%	BBB+	5
Consolidated Edison, Inc.	ED	3.90%	3.94%	1.90%	1.90%	2.30%	2.03%	5.97%	A-	4
Dominion Resources, Inc.	D	4.10%	4.23%	5.90%	5.90%	6.80%	6.20%	10.43%	BBB+	5
Duke Energy Corporation	DUK	4.50%	4.61%	4.60%	4.60%	4.80%	4.67%	9.27%	A-	4
Edison International	EIX	3.00%	3.05%	2.50%	2.50%	4.90%	3.30%	6.35%	BBB+	5
El Paso Electric Company	EE	3.40%	3.52%	7.00%	NA	6.70%	6.85%	10.37%	BBB	6
Entergy Corporation	ETR	4.90%	4.84%	-2.40%	-2.40%	-2.30%	-2.37%	2.48%	BBB	6
Eversource Energy	ES	3.40%	3.51%	6.30%	6.30%	6.30%	6.30%	9.81%	Α	3
FirstEnergy Corp.	FE	4.50%	4.46%	-2.50%	-2.50%	-1.00%	-2.00%	2.46%	BBB-	7
IDACORP, Inc.	IDA	3.00%	3.06%	4.00%	4.00%	4.00%	4.00%	7.06%	BBB	6
MGE Energy, Inc.	MGEE	2.50%	2.55%	4.00%	NA	NA	4.00%	6.55%	AA-	1
NextEra Energy, Inc.	NEE	3.20%	3.32%	7.40%	7.40%	6.90%	7.23%	10.55%	A-	4
NorthWestern Corporation	NWE	3.60%	3.69%	5.00%	5.00%	5.00%	5.00%	8.69%	BBB	6
OGE Energy Corp.	OGE	4.10%	4.19%	4.30%	4.30%	5.20%	4.60%	8.79%	A-	4
Otter Tail Corporation	OTTR	4.60%	4.74%	6.00%	NA	NA	6.00%	10.74%	BBB	6
PG&E Corporation	PCG	3.60%	3.70%	6.10%	6.10%	5.10%	5.77%	9.47%	BBB	6
Pinnacle West Capital Corporation	PNW	3.70%	3.77%	3.70%	3.70%	4.10%	3.83%	7.60%	A-	4
PNM Resources, Inc.	PNM	2.90%	3.02%	8.80%	8.80%	7.60%	8.40%	11.42%	BBB+	5
Portland General Electric Company	POR	3.40%	3.51%	6.60%	6.60%	6.40%	6.53%	10.04%	BBB	6
SCANA Corporation	SCG	3.70%	3.79%	4.80%	4.80%	5.30%	4.97%	8.76%	BBB+	5
Southern Company	SO	4.80%	4.88%	3.30%	3.20%	4.10%	3.53%	8.42%	A-	4
WEC Energy Group, Inc.	WEC	3.70%	3.82%	6.80%	6.80%	6.30%	6.63%	10.46%	A-	4
Xcel Energy Inc.	XEL	3.60%	3.70%	5.30%	5.30%	5.30%	5.30%	9.00%	A-	4
PROXY GROUP MEAN		3.72%	3.80%	4.72%	4.58%	4.94%	4.80%	8.61%	BBB+	4.9
PROXY GROUP MEDIAN		3.70%	3.77%	5.00%	5.00%	5.20%	5.00%	9.00%	BBB+	5.0

# REGRESSION OUTPUT

Regression Statistics	
Multiple R	0.122515
R Square	0.015010
Adjusted R Square	-0.021471
Standard Error	0.022188
Observations	29

### ANOVA

	df	SS	MS	F	Signif. F
Regression	1	0.000203	0.000203	0.411444	0.526646
Residual	27	0.013293	0.000492		
Total	28	0.013495			

	Coefficients	Stand. Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.09672	0.017131	5.645785	0.000005	0.061570	0.131871
X Variable 1	-0.00218	0.003396	-0.641439	0.526646	-0.009146	0.004790

Notes: [1] Source: JRW-10 [2] Equals [1] x (1 + 0.5 x [6]) [3] Source: JRW-10

[3] Source: JRW-10 [4] Source: JRW-10 [5] Source: JRW-10 [6] Equals Average([3], [4], [5]) [7] Equals [4] + [8] [8] Source: JRW-4

Hypothetical Example: Flotation Cost Recovery

Return on Equity 11.00% Flotation Costs 3.28% Market Value \$ 25.00 Dividend Yield 4.50% Growth Rate 6.50% Adjusted ROE 11.15% Flotation Cost Recovery: No **DCF Estimate** 10.85%

	С	ommon	R	etained			Market	Market/	Ea	arnings	Di	ividends	Payout
		Stock	Εa	arnings	Во	ok Value	Price	Book Value	Pe	r Share	Pθ	er Share	Ratio
1	\$	24.18			\$	24.18	\$ 25.00	1.0339	\$	2.66	\$	1.13	42.30%
2	\$	24.18	\$	1.53	\$	25.71	\$ 26.59	1.0339	\$	2.83	\$	1.20	42.30%
3	\$	24.18	\$	3.17	\$	27.35	\$ 28.27	1.0339	\$	3.01	\$	1.27	42.30%
4	\$	24.18	\$	4.90	\$	29.08	\$ 30.07	1.0339	\$	3.20	\$	1.35	42.30%
5	\$	24.18	\$	6.75	\$	30.93	\$ 31.98	1.0339	\$	3.40	\$	1.44	42.30%
6	\$	24.18	\$	8.71	\$	32.89	\$ 34.01	1.0339	\$	3.62	\$	1.53	42.30%
7	\$	24.18	\$	10.80	\$	34.98	\$ 36.17	1.0339	\$	3.85	\$	1.63	42.30%
8	\$	24.18	\$	13.02	\$	37.20	\$ 38.46	1.0339	\$	4.09	\$	1.73	42.30%
9	\$	24.18	\$	15.38	\$	39.56	\$ 40.90	1.0339	\$	4.35	\$	1.84	42.30%
10	\$	24.18	\$	17.89	\$	42.07	\$ 43.50	1.0339	\$	4.63	\$	1.96	42.30%
	Gro	owth Rate				6.35%	6.35%			6.35%		6.35%	

Return on Equity 11.00% Flotation Costs 3.28% Market Value \$ 25.00 Dividend Yield 4.50% Growth Rate 6.50% Adjusted ROE 11.15% Flotation Cost Recovery: Yes **DCF Estimate** 11.00%

	С	ommon	R	etained			Market	Market/	Ea	arnings	Di	vidends	Payout
		Stock	E	arnings	Во	ok Value	Price	Book Value	Per Share		e Per Share		Ratio
1	\$	24.18			\$	24.18	\$ 25.00	1.0339	\$	2.70	\$	1.13	41.72%
2	\$	24.18	\$	1.57	\$	25.75	\$ 26.63	1.0339	\$	2.87	\$	1.20	41.72%
3	\$	24.18	\$	3.25	\$	27.43	\$ 28.36	1.0339	\$	3.06	\$	1.28	41.72%
4	\$	24.18	\$	5.03	\$	29.21	\$ 30.20	1.0339	\$	3.26	\$	1.36	41.72%
5	\$	24.18	\$	6.93	\$	31.11	\$ 32.16	1.0339	\$	3.47	\$	1.45	41.72%
6	\$	24.18	\$	8.95	\$	33.13	\$ 34.25	1.0339	\$	3.69	\$	1.54	41.72%
7	\$	24.18	\$	11.10	\$	35.28	\$ 36.48	1.0339	\$	3.93	\$	1.64	41.72%
8	\$	24.18	\$	13.40	\$	37.58	\$ 38.85	1.0339	\$	4.19	\$	1.75	41.72%
9	\$	24.18	\$	15.84	\$	40.02	\$ 41.37	1.0339	\$	4.46	\$	1.86	41.72%
10	\$	24.18	\$	18.44	\$	42.62	\$ 44.06	1.0339	\$	4.75	\$	1.98	41.72%
	Gro	wth Rate		•		6.50%	6.50%	•		6.50%		6.50%	

# Analysis Using Gorman's Rolling Average Equity Risk Premium Data

	Year	Authorized Electric Returns	Treasury Bond Yield	Indicated Risk Premium	Rolling 5-Year Average Treasury	Rolling 5-Year Average Risk Premium	Slope	Rolling 10-Year Average Treasury	Rolling 10-Year Average Risk Premium	Slope
	1000	10.000/	<b>-</b> 000/	0.400/						
	1986	13.93%	7.80%	6.13%						
	1987	12.99%	8.58%	4.41%						
	1988	12.79%	8.96%	3.83%						
	1989	12.97%	8.45%	4.52%	0.400/	4.000/	40.000/			47 700/
	1990	12.70%	8.61%	4.09%	8.48%	4.60%	-46.02%			-47.73%
	1991	12.55%	8.14%	4.41%	8.55%	4.25%				
	1992	12.09%	7.67%	4.42%	8.36%	4.26%				
	1993	11.41%	6.60%	4.81%	7.89%	4.45%				
	1994	11.34%	7.37%	3.97%	7.68%	4.34%				
	1995	11.55%	6.88%	4.67%	7.33%	4.46%		7.91%	4.53%	
	1996	11.39%	6.70%	4.69%	7.04%	4.51%		7.80%	4.38%	
	1997	11.40%	6.61%	4.79%	6.83%	4.59%		7.60%	4.42%	
	1998	11.66%	5.58%	6.08%	6.63%	4.84%		7.26%	4.65%	
	1999	10.77%	5.87%	4.90%	6.33%	5.03%		7.00%	4.68%	
	2000	11.43%	5.94%	5.49%	6.14%	5.19%		6.73%	4.82%	
	2001	11.09%	5.49%	5.60%	5.90%	5.37%		6.47%	4.94%	
	2002	11.16%	5.43%	5.73%	5.66%	5.56%		6.25%	5.07%	
	2003	10.97%	4.96%	6.01%	5.54%	5.55%		6.08%	5.19%	
	2004	10.75%	5.05%	5.70%	5.37%	5.71%		5.85%	5.37%	
	2005	10.54%	4.65%	5.89%	5.11%	5.79%		5.63%	5.49%	
	2006	10.36%	4.99%	5.37%	5.01%	5.74%		5.46%	5.56%	
	2007	10.36%	4.83%	5.53%	4.90%	5.70%		5.28%	5.63%	
	2008	10.46%	4.28%	6.18%	4.76%	5.73%		5.15%	5.64%	
	2009	10.48%	4.07%	6.41%	4.56%	5.88%		4.97%	5.79%	
	2010	10.24%	4.25%	5.99%	4.49%	5.89%		4.80%	5.84%	
	2011	10.07%	3.91%	6.16%	4.27%	6.05%		4.64%	5.90%	
	2012	10.01%	2.92%	7.09%	3.89%	6.37%		4.39%	6.03%	
	2013	9.79%	3.45%	6.34%	3.72%	6.40%		4.24%	6.07%	
	2014	9.76%	3.34%	6.42%	3.57%	6.40%		4.07%	6.14%	
	2015	9.58%	2.84%	6.74%	3.29%	6.55%		3.89%	6.22%	
	2016	9.68%	2.72%	6.96%	3.05%	6.71%		3.66%	6.38%	
	erage	11.17%	5.71%	5.46%	5.72%	5.40%		5.69%	5.40%	
	imum				3.05%	4.25%		3.66%	4.38%	
Maxi	imum				8.55%	6.71%		7.91%	6.38%	

Source: Exhibit MPG-13

# Analysis Using Gorman's Rolling Average Equity Risk Premium Data

Year	Authorized Electric Returns	Utiltiy Bond Yield	Rolling Indicated Risk Premium	Rolling 5-Year Average Utility Bond	5-Year Average Risk Premium	Rolling Slope	Rolling 10-Year Average Utility Bond	10-Year Average Risk Premium	Slope
4000	40.000/	0.500/	4.050/						
1986		9.58%	4.35%						
1987		10.10%	2.89%						
1988		10.49%	2.30%						
1989		9.77%	3.20%	0.060/	2.420/	45 450/			-44.87%
1990		9.86%	2.84%	9.96%	3.12%	-45.15%			-44.87%
1991	12.55%	9.36%	3.19%	9.92%	2.88%				
1992		8.69%	3.40%	9.63%	2.99%				
1993		7.59%	3.82%	9.05%	3.29%				
1994		8.31%	3.03%	8.76%	3.26%				
1995		7.89%	3.66%	8.37%	3.42%		9.16%	3.27%	
1996		7.75%	3.64%	8.05%	3.51%		8.98%	3.20%	
1997	11.40%	7.60%	3.80%	7.83%	3.59%		8.73%	3.29%	
1998		7.04%	4.62%	7.72%	3.75%		8.39%	3.52%	
1999		7.62%	3.15%	7.58%	3.77%		8.17%	3.52%	
2000		8.24%	3.19%	7.65%	3.68%		8.01%	3.55%	
2001	11.09%	7.76%	3.33%	7.65%	3.62%		7.85%	3.56%	
2002		7.37%	3.79%	7.61%	3.61%		7.72%	3.60%	
2003	10.97%	6.58%	4.39%	7.52%	3.57%		7.62%	3.66%	
2004	10.75%	6.16%	4.59%	7.22%	3.86%		7.40%	3.81%	
2005	10.54%	5.65%	4.89%	6.71%	4.20%		7.18%	3.94%	
2006	10.36%	6.07%	4.29%	6.37%	4.39%		7.01%	4.00%	
2007	10.36%	6.07%	4.29%	6.11%	4.49%		6.86%	4.05%	
2008	10.46%	6.53%	3.93%	6.10%	4.40%		6.81%	3.98%	
2009	10.48%	6.04%	4.44%	6.07%	4.37%		6.65%	4.11%	
2010	10.24%	5.46%	4.78%	6.03%	4.35%		6.37%	4.27%	
2011	10.07%	5.04%	5.03%	5.83%	4.49%		6.10%	4.44%	
2012	10.01%	4.13%	5.88%	5.44%	4.81%		5.77%	4.65%	
2013	9.79%	4.48%	5.31%	5.03%	5.09%		5.56%	4.74%	
2014	9.76%	4.28%	5.48%	4.68%	5.30%		5.37%	4.83%	
2015	9.58%	4.12%	5.46%	4.41%	5.43%		5.22%	4.89%	
2016	9.68%	4.18%	5.50%	4.24%	5.53%		5.03%	5.01%	
Average	11.17%	7.09%	4.08%	7.09%	4.03%		7.09%	4.00%	
Minimum				4.24%	2.88%		5.03%	3.20%	
Maximum				9.96%	5.53%		9.16%	5.01%	

Source: Exhibit MPG-14

# Analysis Using Gorman's Rolling Average Equity Risk Premium Data

# SUMMARY OUTPUT

Regression Sta	Regression Statistics									
Multiple R	0.979694									
R Square	0.959801									
Adjusted R Square	0.958193									
Standard Error	0.001584									
Observations	27									

### ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.001497	0.001497	596.900197	0.000000
Residual	25	0.000063	0.000003		
Total	26	0.001560			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.080351	0.001119	71.795082	0.000000	0.078046	0.082656	0.078046	0.082656
X Variable 1	-0.460208	0.018837	-24.431541	0.000000	-0.499003	-0.421413	-0.499003	-0.421413

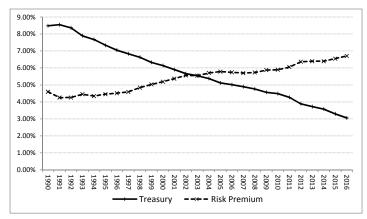
### SUMMARY OUTPUT

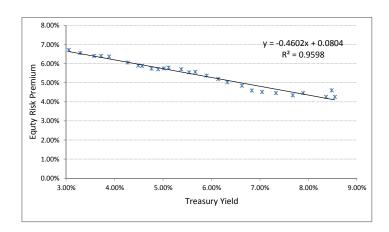
Regression Sta	Regression Statistics									
Multiple R	0.980565									
R Square	0.961508									
Adjusted R Square	0.959968									
Standard Error	0.001497									
Observations	27									

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.001400	0.001400	624.479845	0.000000
Residual	25	0.000056	0.000002		
Total	26	0.001456			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.072307	0.001314	55.042967	0.000000	0.069601	0.075012	0.069601	0.075012
X Variable 1	-0.451532	0.018069	-24.989595	0.000000	-0.488746	-0.414319	-0.488746	-0.414319





Analysis Using Mr. Gorman's Annual Equity Risk Premium Data

					Treasury	Utility Bond		
		Utility "A"	Treasury			Equity Risk	Treasury	Credit
Year	ROE	Bond Yield	Bond Yield	Credit Spread	Premium	Premium	Yield	Spread
1986	13.93%	9.58%	7.80%	1.78%	6.13%	4.35%	7.80%	1.78%
1987	12.99%	10.10%	8.58%	1.52%	4.41%	2.89%	8.58%	1.52%
1988	12.79%	10.49%	8.96%	1.53%	3.83%	2.30%	8.96%	1.53%
1989	12.97%	9.77%	8.45%	1.32%	4.52%	3.20%	8.45%	1.32%
1990	12.70%	9.86%	8.61%	1.25%	4.09%	2.84%	8.61%	1.25%
1991	12.55%	9.36%	8.14%	1.22%	4.41%	3.19%	8.14%	1.22%
1992	12.09%	8.69%	7.67%	1.02%	4.42%	3.40%	7.67%	1.02%
1993	11.41%	7.59%	6.60%	0.99%	4.81%	3.82%	6.60%	0.99%
1994	11.34%	8.31%	7.37%	0.94%	3.97%	3.03%	7.37%	0.94%
1995	11.55%	7.89%	6.88%	1.01%	4.67%	3.66%	6.88%	1.01%
1996	11.39%	7.75%	6.70%	1.05%	4.69%	3.64%	6.70%	1.05%
1997	11.40%	7.60%	6.61%	0.99%	4.79%	3.80%	6.61%	0.99%
1998	11.66%	7.04%	5.58%	1.46%	6.08%	4.62%	5.58%	1.46%
1999	10.77%	7.62%	5.87%	1.75%	4.90%	3.15%	5.87%	1.75%
2000	11.43%	8.24%	5.94%	2.30%	5.49%	3.19%	5.94%	2.30%
2001	11.09%	7.76%	5.49%	2.27%	5.60%	3.33%	5.49%	2.27%
2002	11.16%	7.37%	5.43%	1.94%	5.73%	3.79%	5.43%	1.94%
2003	10.97%	6.58%	4.96%	1.62%	6.01%	4.39%	4.96%	1.62%
2004	10.75%	6.16%	5.05%	1.11%	5.70%	4.59%	5.05%	1.11%
2005	10.54%	5.65%	4.65%	1.00%	5.89%	4.89%	4.65%	1.00%
2006	10.36%	6.07%	4.99%	1.08%	5.37%	4.29%	4.99%	1.08%
2007	10.36%	6.07%	4.83%	1.24%	5.53%	4.29%	4.83%	1.24%
2008	10.46%	6.53%	4.28%	2.25%	6.18%	3.93%	4.28%	2.25%
2009	10.48%	6.04%	4.07%	1.97%	6.41%	4.44%	4.07%	1.97%
2010	10.24%	5.46%	4.25%	1.21%	5.99%	4.78%	4.25%	1.21%
2011	10.07%	5.04%	3.91%	1.13%	6.16%	5.03%	3.91%	1.13%
2012	10.01%	4.13%	2.92%	1.21%	7.09%	5.88%	2.92%	1.21%
2013	9.79%	4.48%	3.45%	1.03%	6.34%	5.31%	3.45%	1.03%
2014	9.76%	4.28%	3.34%	0.94%	6.42%	5.48%	3.34%	0.94%
2015	9.58%	4.12%	2.84%	1.27%	6.74%	5.46%	2.84%	1.27%
2016	9.68%	4.18%	2.72%	1.46%	6.96%	5.50%	2.72%	1.46%

Sources: Exhibit MPG-13 and MPG-14

### SUMMARY OUTPUT

Regression Statistics							
Multiple R	0.898826						
R Square	0.807887						
Adjusted R Square	0.801263						
Standard Error	0.004088						
Observations	31						

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.002038	0.002038	121.953137	0.000000
Residual	29	0.000485	0.000017		
Total	30	0.002522			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.079782	0.002393	33.337504	0.000000	0.074887	0.084676
Treasury Yield	-0.440736	0.039910	-11.043239	0.000000	-0.522361	-0.359111

# RESIDUAL OUTPUT

Observation	5	l Equity Risk F	Residuals	$(e_t - e_{(t-1)})^2$	$(e_t)^2$	
	1	0.0454116	0.015905067			
	2	0.04196651	0.002133486	0.00019	0.00000	
	3	0.04029539	-0.001987057	0.00002	0.00000	
	4	0.04254314	0.00266519	0.00002	0.00001	
	5	0.04184164	-0.000924972	0.00001	0.00000	
	6	0.04392412	0.000217551	0.00000	0.00000	
	7	0.0459919	-0.001758569	0.00000	0.00000	
	8	0.05070043	-0.002583764	0.00000	0.00001	
	9	0.04729942	-0.007599419	0.00003	0.00006	
	10	0.04944066	-0.002782328	0.00002	0.00001	
	11	0.05024868	-0.00335701	0.00000	0.00001	
	12	0.05066738	-0.002725709	0.00000	0.00001	
	13	0.05519594	0.005620729	0.00007	0.00003	
	14	0.05392882	-0.004887155	0.00011	0.00002	
	15	0.05359092	0.001284076	0.00004	0.00000	
	16	0.05557056	0.000396103	0.00000	0.00000	
	17	0.0558497	0.001450304	0.00000	0.00000	
	18	0.05793217	0.002192827	0.00000	0.00000	
	19	0.05753918	-0.00050585	0.00001	0.00000	
	20	0.0593058	-0.000364134	0.00000	0.00000	
	21	0.05777792	-0.004102916	0.00001	0.00002	
	22	0.05847575	-0.003217414	0.00000	0.00001	
	23	0.06092183	0.000886501	0.00002	0.00000	
	24	0.06184738	0.002260956	0.00000	0.00001	
	25	0.06104671	-0.001155041	0.00001	0.00000	
	26	0.06254521	-0.000953543	0.00000	0.00000	
	27	0.0669085	0.003983172	0.00002	0.00002	
	28	0.06458361	-0.001166946	0.00003	0.00000	
	29	0.06506108	-0.000861077	0.00000	0.00000	
	30	0.06726108	0.000130583	0.00000	0.00000	
	31	0.06779364	0.00180636	0.00000	0.00000	
				0.00062	0.00023	
			Durbin-Watson	2.69423		
			dL	1.147	4-dL	4-dU
			dU	1.274	2.853	2.726
			DW>2	TRUE		
			DW<4-dU?	TRUE	No Autocorrelation	

### SUMMARY OUTPUT

Regression Statistics							
Multiple R	0.916176						
R Square	0.839379						
Adjusted R Square	0.833841						
Standard Error	0.003777						
Observations	31						

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.002162	0.002162	151.549633	0.000000
Residual	29	0.000414	0.000014		
Total	30	0.002575			

	Coefficients :	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.072374	0.002653	27.275585	0.000000	0.066947	0.077801
Utility "A" Bond Yiel	-0.445377	0.036178	-12.310550	0.000000	-0.519370	-0.371384

# RESIDUAL OUTPUT

Observation	9	l Equity Risk F	Residuals	(e <sub>t</sub> - e <sub>(t-1)</sub> ) <sup>2</sup>	$(e_t)^2$	
	1	0.02970688	0.013793119			
	2	0.02739092	0.001509079	0.00015	0.00000	
	3	0.02565395	-0.00265395	0.00002	0.00001	
	4	0.02886067	0.003139335	0.00003	0.00001	
	5	0.02845983	-5.98258E-05	0.00001	0.00000	
	6	0.03068671	0.001213289	0.00000	0.00000	
	7	0.03367074	0.000329263	0.00000	0.00000	
	8	0.03856988	-0.000369884	0.00000	0.00000	
	9	0.03536317	-0.00506317	0.00002	0.00003	
	10	0.03723375	-0.000633753	0.00002	0.00000	
	11	0.03785728	-0.001457281	0.00000	0.00000	
	12	0.03852535	-0.000525347	0.00000	0.00000	
	13	0.04101946	0.005180542	0.00003	0.00003	
	14	0.03843627	-0.006936271	0.00015	0.00005	
	15	0.03565638	-0.003798043	0.00001	0.00001	
	16	0.03780161	-0.004526609	0.00000	0.00002	
	17	0.03953858	-0.001663579	0.00001	0.00000	
	18	0.04306448	0.000827186	0.00001	0.00000	
	19	0.0449384	0.000960762	0.00000	0.00000	
	20	0.04721391	0.001694423	0.00000	0.00000	
	21	0.04534704	-0.002430372	0.00002	0.00001	
	22	0.04532477	-0.002458103	0.00000	0.00001	
	23	0.0432983	-0.003981637	0.00000	0.00002	
	24	0.04548776	-0.001055128	0.00001	0.00000	
	25	0.04805082	-0.00026338	0.00000	0.00000	
	26	0.04992204	0.000366821	0.00000	0.00000	
	27	0.05397643	0.004815707	0.00002	0.00002	
	28	0.05243845	0.000700483	0.00002	0.00000	
	29	0.0533234	0.001502504	0.00000	0.00000	
	30	0.05404497	0.000601063	0.00000	0.00000	
	31	0.05375724	0.001242759	0.00000	0.00000	
				0.00053	0.00022	
			Durbin-Watson	2.37384		
			dL	1.085	4-dL	4-dU
			dU	1.345	2.915	2.655
			DW>2	TRUE		
			DW<4-dU?	TRUE	No Autocorrelation	on

### SUMMARY OUTPUT

Regression Statistics							
Multiple R	0.917057						
R Square	0.840994						
Adjusted R Square	0.829636						
Standard Error	0.003785						
Observations	31						

# ANOVA

	df	SS	MS	F	Significance F
Regression	2	0.002121	0.001061	74.046865	0.000000
Residual	28	0.000401	0.000014		
Total	30	0.002522			

-	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.074097	0.003233	22.918543	0.000000	0.067474	0.080720
Treasury Yield	-0.438638	0.036962	-11.867392	0.000000	-0.514351	-0.362926
Credit Spread	0.402273	0.166607	2.414503	0.022540	0.060994	0.743552

# RESIDUAL OUTPUT

Observation	C	l Equity Risk F	Residuals	$(e_t - e_{(t-1)})^2$	$(e_t)^2$	
	1	0.04705767	0.014258992			
	2	0.04257637	0.001523628	0.00016	0.00000	
	3	0.04095678	-0.002648449	0.00002	0.00001	
	4	0.04234906	0.00285927	0.00003	0.00001	
	5	0.04137266	-0.000455992	0.00001	0.00000	
	6	0.0433346	0.000807068	0.00000	0.00000	
	7	0.04458464	-0.000351311	0.00000	0.00000	
	8	0.04914338	-0.001026709	0.00000	0.00000	
	9	0.04555071	-0.00585071	0.00002	0.00003	
	10	0.04794659	-0.001288257	0.00002	0.00000	
	11	0.04892508	-0.002033412	0.00000	0.00000	
	12	0.04912053	-0.001178868	0.00000	0.00000	
	13	0.05550817	0.005308499	0.00004	0.00003	
	14	0.05542373	-0.006382065	0.00014	0.00004	
	15	0.05728989	-0.002414887	0.00002	0.00001	
	16	0.05912936	-0.003162698	0.00000	0.00001	
	17	0.05809308	-0.000793077	0.00001	0.00000	
	18	0.05888172	0.001243279	0.00000	0.00000	
	19	0.05643934	0.000593988	0.00000	0.00000	
	20	0.05775472	0.001186949	0.00000	0.00000	
	21	0.05652575	-0.002850753	0.00002	0.00001	
	22	0.05787731	-0.002618976	0.00000	0.00001	
	23	0.06437471	-0.002566375	0.00000	0.00001	
	24	0.06416306	-5.47269E-05	0.00001	0.00000	
	25	0.0603204	-0.000428735	0.00000	0.00000	
	26	0.06148938	0.000102283	0.00000	0.00000	
	27	0.0661524	0.004739265	0.00002	0.00002	
	28	0.06310572	0.000310942	0.00002	0.00000	
	29	0.06321741	0.000982594	0.00000	0.00000	
	30	0.06676322	0.000628445	0.00000	0.00000	
	31	0.0680392	0.001560796	0.00000	0.00000	
	-			0.00054	0.00020	
			Durbin-Watson	2.73514		
			dL	1.147	4-dL	
			dU	1.274	2.853	
			DW>2	TRUE		
			DW<4-dU	FALSE		
			4-dU <dw<4-dl< td=""><td>TRUE</td><td>Inconclusive</td><td></td></dw<4-dl<>	TRUE	Inconclusive	

Forecasting 30 Year Treasury Yields: Regression Results Based on Data in Exhibit MPG-21

### SUMMARY OUTPUT

Regression Statistics						
Multiple R	0.744743					
R Square	0.554642					
Adjusted R Square	0.546545					
Standard Error	0.005857					
Observations	57					

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.002350	0.002350	68.496210	0.000000
Residual	55	0.001887	0.000034		
Total	56	0.004236			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.006803	0.004302	1.581230	0.119560	-0.001819	0.015424
PRIOR QUARTER ACTUAL YIELD (X)	0.783457	0.094663	8.276244	0.000000	0.593747	0.973166

# SUMMARY OUTPUT

Regression Statistics						
Multiple R	0.905824					
R Square	0.820516					
Adjusted R Square	0.817253					
Standard Error	0.003718					
Observations	57					

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.003476	0.003476	251.434812	0.000000
Residual	55	0.000760	0.000014		
Total	56	0.004236			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.055590	0.000998	55.697993	0.000000	0.053589	0.057590
TREND	-0.000475	0.000030	-15.856696	0.000000	-0.000535	-0.000415

December 2018 Trend Variable 105
Implied Treasury Yield 0.58%

Source: Exhibit MPG-21

## Mr. Gorman's Financial Integrity Analysis (Exhibit MPG-19)

		Retail				
		ost of Service	S&P Ben	chmark (Medial	Volatility)	
<u>Description</u>		<u>Amount</u>	Intermediate	Significant	<u>Aggressive</u>	Reference
		(1)	(2)	(3)	(4)	(5)
Rate Base	\$	32,536,116				Schedule A-1.
Weighted Common Return		4.17%				Exhibit MPG-19, Page 3, Line 3, Col. 3.
Pre-Tax Rate of Return		8.19%				Exhibit MPG-19, Page 3, Line 7, Col. 4.
Income to Common	\$	1,358,228				Line 1 x Line 2.
EBIT	\$	2,663,715				Line 1 x Line 3.
Depreciation & Amortization	\$	1,665,925				Schedule C-1
Imputed Amortization	\$	52,057				Exhibit MPG-19, Page 1, Line 7, Col. 1.
Deferred Income Taxes & ITC	\$	598,846				Schedule C-22
Funds from Operations (FFO)	\$	3,675,056				Sum of Line 4 and Lines 6 through 8.
Imputed Interest Expense	\$	40,363				Exhibit MPG-19, Page 1, Line 10, Col. 1.
EBITDA	\$	4,422,060				Sum of Lines 5 through 7 and Line 10.
Total Debt Ratio		41%				Exhibit MPG-19, Page 4, Line4, Col. 2.
Debt to EBITDA		3.0x	2.5x - 3.5x	3.5x - 4.5x	4.5x - 5.5x	(Line 1 x Line 12) / Line 11.
FFO to Total Debt		27%	23% - 35%	13% - 23%	9% - 13%	Line 9 / (Line 1 x Line 12).

Gorman's Financial Integrity Analysis, ROE of 6.55%

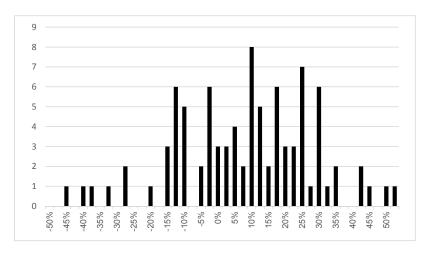
<u>Description</u>	Co	Retail ost of Service Amount	Intermediate	chmark (Medial Significant	Aggressive	Reference
		(1)	(2)	(3)	(4)	(5)
Rate Base Weighted Common Return Pre-Tax Rate of Return Income to Common EBIT Depreciation & Amortization Imputed Amortization Deferred Income Taxes & ITC Funds from Operations (FFO) Imputed Interest Expense EBITDA	* ******	32,536,116 2.96% 6.20% 961,772 2,017,397 1,665,925 52,057 598,846 3,278,600 40,363 3,775,742				Schedule A-1. Exhibit MPG-19, Page 3, Line 3, Col. 3 set as 4% Exhibit MPG-19, Page 3, Line 7, Col. 4 set as 4% Line 1 x Line 2. Line 1 x Line 3. Schedule C-1 CreditStats, www.globalcreditportal.com, June 30, 2016. Schedule C-22 Sum of Line 4 and Lines 6 through 8. CreditStats, www.globalcreditportal.com, June 30, 2016. Sum of Line 5 through 7 and Line 10.
Total Debt Ratio Debt to EBITDA FFO to Total Debt		41% 3.5x 25%	2.5x - 3.5x 23% - 35%	3.5x - 4.5x 13% - 23%	4.5x - 5.5x 9% - 13%	Page 4, Line4, Col. 2. (Line 1 x Line 12) / Line 11. Line 9 / (Line 1 x Line 12).

Gorman's Financial Integrity Analysis, ROE of 11.00%

	Co	Retail est of Service	S&P Bend	chmark (Medial	Volatility)	
<u>Description</u>		Amount	Intermediate	Significant	Aggressive	Reference
		(1)	(2)	(3)	(4)	(5)
Rate Base	\$	32,536,116				Schedule A-1.
Weighted Common Return		4.96%				Exhibit MPG-19, Page 3, Line 3, Col. 3 set as 10.25%
Pre-Tax Rate of Return		9.47%				Exhibit MPG-19, Page 3, Line 7, Col. 4 set as 10.25%
Income to Common	\$	1,615,190				Line 1 x Line 2.
EBIT	\$	3,082,625				Line 1 x Line 3.
Depreciation & Amortization	\$	1,665,925				Schedule C-1
Imputed Amortization	\$	52,057				CreditStats, www.globalcreditportal.com, June 30, 2016.
Deferred Income Taxes & ITC	\$	598,846				Schedule C-22
Funds from Operations (FFO)	\$	3,932,018				Sum of Line 4 and Lines 6 through 8.
Imputed Interest Expense	\$	40,363				CreditStats, www.globalcreditportal.com, June 30, 2016.
EBITDA	\$	4,840,970				Sum of Lines 5 through 7 and Line 10.
Total Debt Ratio		41%				Page 4, Line4, Col. 2.
Debt to EBITDA		2.8x	2.5x - 3.5x	3.5x - 4.5x	4.5x - 5.5x	(Line 1 x Line 12) / Line 11.
FFO to Total Debt		29%	23% - 35%	13% - 23%	9% - 13%	Line 9 / (Line 1 x Line 12).

Source: Exhibit MPG-19 (differences due to rounding)

Frequency Distribution of Observed Market Risk Premia, 1926 - 2015



Sources: Morningstar, Inc., Ibbotson SBBI 2016 Appendix A, at 3-5, 21-23.

	Long-Term
Large Company	Government
Stocks Total	Bond Income
Returns	Returns

	Returns	Returns	
Year	Jan-Dec*	Jan-Dec*	MRP
1926	0.1162	0.0373	7.890
1927	0.3749	0.0341	34.080
1928	0.4361	0.0322	40.390
1929	-0.0842	0.0347	-11.890
1930	-0.2490	0.0332	-28.220
1931	-0.4334	0.0333	-46.670
1932	-0.0819	0.0369	-11.880
1933	0.5399	0.0312	50.870
1934	-0.0144	0.0318	-4.620
1935	0.4767	0.0281	44.860
1936	0.3392	0.0277	31.150
1937	-0.3503	0.0266	-37.690
1938	0.3112	0.0264	28.480
1939	-0.0041	0.0240	-2.810
1940	-0.0978	0.0223	-12.010
1941	-0.1159	0.0194	-13.530
1942	0.2034	0.0246	17.880
1943	0.2590	0.0244	23.460
1944	0.1975	0.0246	17.290
1945	0.3644	0.0234	34.100
1946	-0.0807	0.0204	-10.110
1947	0.0571	0.0213	3.580
1948	0.0550	0.0240	3.100
1949	0.1879	0.0225	16.540
1950	0.3171	0.0212	29.590
1951	0.2402	0.0238	21.640
1952	0.1837	0.0266	15.710
1953	-0.0099	0.0284	-3.830
1954	0.5262	0.0279	49.830
1955	0.3156	0.0275	28.810
1956	0.0656	0.0299	3.570
1957	-0.1078	0.0344	-14.220
1958	0.4336	0.0327	40.090

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1959	0.1196	0.0401	7.950
1960	0.0047	0.0426	-3.790
1961	0.2689	0.0383	23.060
1962	-0.0873	0.0400	-12.730
1963	0.2280	0.0389	18.910
1964	0.1648	0.0415	12.330
1965	0.1245	0.0419	8.260
1966	-0.1006	0.0449	-14.550
1967	0.2398	0.0459	19.390
1968	0.1106	0.0550	5.560
1969	-0.0850	0.0595	-14.450
1970	0.0386	0.0674	-2.880
1971	0.1430	0.0632	7.980
1972	0.1899	0.0587	13.120
1973	-0.1469	0.0651	-21.200
1974	-0.2647	0.0727	-33.740
1975	0.3723	0.0799	29.240
1976	0.2393	0.0789	16.040
1977	-0.0716	0.0714	-14.300
1978	0.0657	0.0790	-1.330
1979	0.1861		
		0.0886	9.750
1980	0.3250	0.0997	22.530
1981	-0.0492	0.1155	-16.470
1982	0.2155	0.1350	8.050
1983	0.2256	0.1038	12.180
1984	0.0627	0.1174	-5.470
1985	0.3173	0.1174	20.480
1986	0.1867	0.0898	9.690
1987	0.0525	0.0792	-2.670
1988	0.1661	0.0897	7.640
1989	0.3169	0.0881	22.880
1990	-0.0310	0.0819	-11.290
		0.0822	
1991	0.3047		22.250
1992	0.0762	0.0726	0.360
1993	0.1008	0.0717	2.910
1994	0.0132	0.0659	-5.270
1995	0.3758	0.0760	29.980
1996	0.2296	0.0618	16.780
1997	0.3336	0.0664	26.720
1998	0.2858	0.0583	22.750
1999	0.2104	0.0557	15.470
2000	-0.0910	0.0650	-15.600
2001	-0.1189	0.0553	-17.420
2002	-0.2210	0.0559	-27.690
2003	0.2868	0.0480	23.880
2004	0.1088	0.0502	5.860
2005	0.0491	0.0469	0.220
2006	0.1579	0.0468	11.110
2007	0.0549	0.0486	0.630
2008	-0.3700	0.0445	-41.450
2009	0.2646	0.0347	22.990
2010	0.1506	0.0425	10.810
2011	0.0211	0.0390	-1.790
2012	0.1600	0.0246	13.540
2013	0.3239	0.0288	29.510
2014	0.1369	0.0341	10.280
2015	0.0138	0.0247	-1.090
Average	0.1195	0.0505	6.904
•			
Std. Dev.	0.1999	0.0263	20.078

Bin	Frequency	Cumulative %
-50.00%	0	0.000%
-47.50%	0	0.000%
-45.00%	1	1.111%
-42.50%	0	1.111%
-40.00%	1	2.222%
-37.50%	1	3.333%
-35.00%	0	3.333%
-32.50%	1	4.444%
-30.00%	0	4.444%
-27.50%	2	6.667%
-25.00%	0	6.667%
-22.50%	0	6.667%
-20.00%	1	7.778%
-17.50%	0	7.778%
-15.00%	3	11.111%
-12.50%	6	17.778%
-10.00%	5	23.333%
-7.50%	0	23.333%
-5.00%	2	25.556%
-2.50%	6	32.222%
0.00%	3	35.556%
2.50%	3	38.889%
5.00%	4	43.333%
7.50%	2	45.556%
10.00%	8	54.444%
12.50%	5	60.000%
15.00%	2	62.222%
17.50%	6	68.889%
20.00%	3	72.222%
22.50%	3	75.556%
25.00%	7	83.333%
27.50%	1	84.444%
30.00%	6	91.111%
32.50%	1	92.222%
35.00%	2	94.444%
37.50%	0	94.444%
40.00%	0	94.444%
42.50%	2	96.667%
45.00%	1	97.778%
47.50%	0	97.778%
50.00%		98.889%
51.00%	1	100.000%
Count:	90	

#### Alternative Bond Yield Plus Risk Premium Analysis

	[1]	[2]	[3]	[4]
			Moody's Utility	
		LN(30-Year	Baa Credit	
	Constant	Treasury)	Spread	VIX
Regression Coefficients	-0.026	-0.025	0.215	0.00005
Long Term Averages [5], [6]			1.81%	22.36

## SUMMARY OUTPUT

Regression Statistics						
Multiple R	0.820612					
R Square	0.673404					
Adjusted R Square	0.671829					
Standard Error	0.005498					
Observations	626					

#### ANOVA

	df	SS	MS	F	Significance F
Regression	3	0.038767	0.012922	427.497607	0.000000
Residual	622	0.018802	0.000030		
Total	625	0.057569			

•	Coefficients S	tandard Error	t Stat	P-value	Lower 95%	Upper 95% L	ower 95.0%	Upper 95.0%
Intercept	-0.025758	0.002491	-10.340783	0.000000	-0.030649	-0.020866	-0.030649	-0.020866
LN(30-Year Treasury)	-0.025474	0.000843	-30.202755	0.000000	-0.027131	-0.023818	-0.027131	-0.023818
Utility Baa Credit Spread	0.214700	0.047428	4.526891	0.000007	0.121562	0.307838	0.121562	0.307838
VIX	0.000055	0.000034	1.618449	0.106073	-0.000012	0.000122	-0.000012	0.000122

#### Notes

- [1] Constant of regression equation (1992-2016)
- [2] Equals Regression Coefficient of LN(30-year Treasury Yield variable)
- [3] Equals Regression Coefficient of Credit Spread variable
- [4] Equals Regression Coefficient of VIX variable
- [5] Long-Term Historical Average of Baa Credit Spread
- [6] Source: http://www.cboe.com/data/volatilityindexes/volatilityindexes.aspx; accessed July 27, 2016
- [7] Source: Current = Bloomberg Professional,

Near-Term Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017. Long-Term Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.

- [8] Equals [1] + ([2] x LN[7]) + ([3] x [5]) + ([4] x [6])
- [9] Equals [7] + [8]
- [10] Source: SNL Financial
- [11] Source: SNL Financial
- [12] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
- [13] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
- [14] Equals LN[12]
- [15] Equals [13] [12]
- [16] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
- [17] Equals [11] [12]

[10]	[11]	[12] 30-Year	[13]	[14]	[15] Moody's Utility	[16]	[17]
Date of Electric Rate	Return on	Treasury	Moody's Utility	LN(30-Year	Baa Credit		Risk
Case	Equity	Yield	Baa Yield	Treasury)	Spread	VIX	Premium
1/10/1990	12.80%	8.24%		-2.496477861		19.95	4.56%
1/11/1990	12.90%	8.23%		-2.497024601		19.96	4.67%
1/17/1990	12.80%	8.22%		-2.499113014		21.59	4.58%
1/26/1990	12.00%	8.19%		-2.501942804		22.87	3.81%
2/9/1990	12.10%	8.17%		-2.504801539		23.58	3.93%
2/24/1990	12.86%	8.15%		-2.507522892		23.35	4.71%
3/30/1990	12.90%	8.16%		-2.505906927		22.17	4.74%
4/4/1990	15.76%	8.17%		-2.505240839		22.16	7.59%
4/12/1990	12.52%	8.18%		-2.503520424		22.04	4.34%
4/19/1990	12.75%	8.20%		-2.501412987		22.01	4.55%
5/21/1990	12.10%	8.28%		-2.490818765		21.42	3.82%
5/29/1990	12.40%	8.30%		-2.489147186		21.25	4.10%
5/31/1990	12.00%	8.30%		-2.488692501		21.17	3.70%
6/4/1990	12.90%	8.30%		-2.4883905		21.11	4.60%
6/6/1990	12.25%	8.31%		-2.488115209		21.06	3.94%
6/15/1990	13.20%	8.32%		-2.486948935		20.80	4.88%

6/20/1990	12.92%	8.32%	-2.486220477	20.68	4.60%
6/27/1990	12.90%	8.33%	-2.484996704	20.52	4.57%
6/29/1990	12.50%	8.34%	-2.484701847	20.45	4.16%
7/6/1990	12.35%	8.34%	-2.48420579	20.33	4.01%
7/6/1990	12.10%	8.34%	-2.48420579	20.33	3.76%
8/10/1990		8.41%	-2.475736762	20.52	4.14%
	12.55%				
8/16/1990	13.21%	8.43%	-2.473575512	20.64	4.78%
8/22/1990	13.10%	8.45%	-2.471018017	20.82	4.65%
8/24/1990	13.00%	8.46%	-2.469496155	21.00	4.54%
9/26/1990	11.45%	8.59%	-2.454201215	21.96	2.86%
10/2/1990	13.00%	8.61%	-2.451809401	22.09	4.39%
10/5/1990	12.84%	8.63%	-2.450337442	22.18	4.21%
10/19/1990	13.00%	8.67%	-2.445512392	22.69	4.33%
10/25/1990	12.30%	8.68%	-2.444370992	22.80	3.62%
11/21/1990	12.70%	8.69%	-2.442615086	22.98	4.01%
12/13/1990	12.30%	8.67%	-2.44490271	22.97	3.63%
12/17/1990	12.87%	8.67%	-2.44545674	23.00	4.20%
12/18/1990	13.10%	8.67%	-2.445757644	23.02	4.43%
12/19/1990	12.00%	8.66%	-2.446009336	23.04	3.34%
12/20/1990	12.75%	8.66%	-2.446187995	23.05	4.09%
12/21/1990	12.50%	8.66%	-2.446334775	23.07	3.84%
12/27/1990	12.79%	8.66%	-2.44671836	23.13	4.13%
1/2/1991	13.10%	8.66%	-2.446942427	23.25	4.44%
1/4/1991	12.50%	8.65%	-2.4473669	23.31	3.85%
1/15/1991	12.75%	8.65%	-2.448168141	23.75	4.10%
1/25/1991	11.70%	8.63%	-2.450247154	23.94	3.07%
		8.60%			
2/4/1991	12.50%		-2.453128134	23.92	3.90%
2/7/1991	12.50%	8.59%	-2.454862821	23.95	3.91%
2/12/1991	13.00%	8.57%	-2.456475087	23.99	4.43%
2/14/1991	12.72%	8.56%	-2.457500722	24.02	4.16%
2/22/1991	12.80%	8.55%	-2.459800347	24.08	4.25%
3/6/1991	13.10%	8.53%	-2.461874245	24.18	4.57%
3/8/1991	13.00%	8.52%	-2.462251459	24.21	4.48%
3/8/1991	12.30%	8.52%	-2.462251459	24.21	3.78%
4/22/1991	13.00%	8.49%	-2.466242714	24.23	4.51%
5/7/1991	13.50%	8.47%	-2.468214975	24.22	5.03%
5/13/1991	13.25%	8.47%	-2.468668749	24.15	4.78%
5/30/1991	12.75%	8.43%	-2.473033695	23.59	4.32%
6/12/1991	12.00%	8.41%	-2.476341626	23.03	3.59%
6/25/1991			-2.478854049	22.47	3.32%
	11.70%	8.38%			
6/28/1991	12.50%	8.38%	-2.479875908	22.31	4.12%
7/1/1991	12.00%	8.37%	-2.480289386	22.25	3.63%
7/3/1991	12.50%	8.36%	-2.481170322	22.15	4.14%
7/19/1991	12.10%	8.34%	-2.484421541	21.55	3.76%
8/1/1991	12.90%	8.32%	-2.486808759	20.89	4.58%
8/16/1991	13.20%	8.29%	-2.490493686	20.12	4.91%
9/27/1991	12.50%	8.23%	-2.496936101	19.02	4.27%
9/30/1991	12.25%	8.23%	-2.49722421	18.99	4.02%
					4.80%
10/17/1991	13.00%	8.20%	-2.500713128	18.47	
10/23/1991	12.50%	8.20%	-2.501422183	18.20	4.30%
10/23/1991	12.55%	8.20%	-2.501422183	18.20	4.35%
10/31/1991	11.80%	8.19%	-2.502275923	17.68	3.61%
11/1/1991	12.00%	8.19%	-2.502450195	17.63	3.81%
11/5/1991	12.25%	8.19%	-2.502725164	17.55	4.06%
11/12/1991	12.50%	8.18%	-2.503292528	17.35	4.32%
11/12/1991	13.25%	8.18%	-2.503292528	17.35	5.07%
11/25/1991	12.40%	8.18%	-2.503712733	17.21	4.22%
11/26/1991					
	12.50%	8.18%	-2.503769265	17.20	4.32%
11/26/1991	11.60%	8.18%	-2.503769265	17.20	3.42%
11/27/1991	12.10%	8.18%	-2.503814739	17.19	3.92%
12/18/1991	12.25%	8.15%	-2.507331083	17.07	4.10%
12/19/1991	12.60%	8.15%	-2.507721524	17.06	4.45%
12/19/1991	12.80%	8.15%	-2.507721524	17.06	4.65%
12/20/1991	12.65%	8.14%	-2.508180009	17.04	4.51%
1/9/1992	12.80%	8.09%	-2.51476261	17.13	4.71%
1/16/1992	12.75%	8.07%	-2.516799408	17.14	4.68%
1/21/1992	12.00%		-2.517809082	17.14	3.94%
		8.06%			
1/22/1992	13.00%	8.06%	-2.518107633	17.10	4.94%
1/27/1992	12.65%	8.05%	-2.519087429	17.09	4.60%
1/31/1992	12.00%	8.04%	-2.520318057	17.12	3.96%
2/11/1992	12.40%	8.03%	-2.522191565	17.16	4.37%
2/25/1992	12.50%	8.01%	-2.524420455	17.14	4.49%
3/16/1992	11.43%	7.98%	-2.5279667	17.25	3.45%
3/18/1992	12.28%	7.98%	-2.528600856	17.26	4.30%
4/2/1992	12.10%	7.95%	-2.532341542	17.24	4.15%
4/9/1992	11.45%		-2.534038199	17.24	3.52%
		7.93%			
4/10/1992	11.50%	7.93%	-2.534424003	17.23	3.57%
4/14/1992	11.50%	7.92%	-2.535249959	17.21	3.58%
5/5/1992	11.50%	7.89%	-2.539367717	17.08	3.61%
5/12/1992	12.46%	7.88%	-2.540491605	17.09	4.58%
5/12/1992	11.87%	7.88%	-2.540491605	17.09	3.99%
6/1/1992	12.30%	7.86%	-2.542849882	17.02	4.44%

6/12/1992	10.90%	7.85%	-2.544044864		16.97	3.05%
6/26/1992	12.35%	7.85%	-2.544922989		16.91	4.50%
6/29/1992	11.00%	7.85%	-2.545003672		16.88	3.15%
6/30/1992	13.00%	7.85%	-2.545063228		16.86	5.15%
7/13/1992	13.50%	7.84%	-2.546223031		16.78	5.66%
7/13/1992	11.90%	7.84%	-2.546223031		16.78	4.06%
7/22/1992	11.20%	7.83%	-2.547220512		16.65	3.37%
8/3/1992	12.00%	7.81%	-2.550005891		16.52	4.19%
8/6/1992	12.50%	7.80%	-2.550979453		16.48	4.70%
9/22/1992	12.00%	7.71%	-2.562150915		15.88	4.29%
9/28/1992	11.40%	7.71%	-2.563005971		15.78	3.69%
9/30/1992	11.75%	7.71%	-2.563248543		15.75	4.04%
10/2/1992	13.00%	7.70%	-2.563503569		15.74	5.30%
10/12/1992	12.20%	7.70%	-2.563555104		15.85	4.50%
10/16/1992	13.16%	7.71%	-2.563267456		15.82	5.45%
10/30/1992	11.75%	7.71%	-2.563084214		15.75	4.04%
11/3/1992	12.00%	7.71%	-2.56315855		15.74	4.29%
12/3/1992	11.85%	7.68%	-2.566695907		15.36	4.17%
12/15/1992	11.00%	7.66%	-2.569018479		15.17	3.34%
12/16/1992	11.90%	7.66%	-2.569326814		15.14	4.24%
12/16/1992	12.40%	7.66%	-2.569326814		15.14	4.74%
12/17/1992			-2.569679219		15.14	4.34%
	12.00%	7.66%				
12/22/1992	12.40%	7.65%	-2.571003981		14.99	4.75%
12/22/1992	12.30%	7.65%	-2.571003981		14.99	4.65%
12/29/1992	12.25%	7.63%	8.61% -2.573127127	0.98%	14.86	4.62%
12/30/1992	12.00%	7.63%	8.61% -2.573498663	0.98%	14.84	4.37%
12/31/1992	11.90%	7.62%	8.61% -2.573859792	0.99%	14.82	4.28%
1/12/1993	12.00%	7.61%	8.62% -2.5762929	1.01%	14.72	4.39%
1/21/1993	11.25%	7.59%	8.61% -2.578757112	1.02%	14.52	3.66%
2/2/1993	11.40%	7.56%	8.56% -2.582792324	1.01%	14.35	3.84%
2/15/1993	12.30%	7.52%	8.52% -2.587853331	1.00%	14.22	4.78%
2/24/1993	11.90%	7.49%	8.48% -2.591873816	0.99%	14.18	4.41%
2/26/1993	11.80%	7.48%	8.46% -2.593142317	0.98%	14.16	4.32%
2/26/1993	12.20%	7.48%	8.46% -2.593142317	0.98%	14.16	4.72%
4/23/1993	11.75%	7.29%	8.29% -2.619128589	1.00%	13.85	4.46%
5/11/1993	11.75%	7.24%	8.26% -2.62487387	1.02%	13.86	4.51%
5/14/1993	11.50%	7.24%	8.26% -2.625954403	1.02%	13.87	4.26%
5/25/1993	11.50%	7.22%	8.26% -2.627704331	1.04%	13.87	4.28%
5/28/1993	11.00%	7.22%	8.26% -2.628492033	1.04%	13.84	3.78%
6/3/1993	12.00%	7.21%	8.26% -2.629953568	1.05%	13.83	4.79%
6/16/1993	11.50%	7.19%	8.24% -2.633023609	1.06%	13.77	4.31%
6/18/1993	12.10%	7.18%	8.24% -2.633671358	1.06%	13.77	4.92%
6/25/1993	11.67%	7.17%	8.23% -2.635647271	1.06%	13.74	4.50%
7/21/1993	11.38%	7.10%	8.20% -2.64572959	1.10%	13.42	4.28%
7/23/1993	10.46%	7.09%	8.16% -2.646920829	1.08%	13.34	3.37%
8/24/1993	11.50%	6.95%	8.13% -2.665744765	1.18%	12.79	4.55%
9/21/1993	10.50%	6.80%	8.05% -2.687542088	1.25%	12.72	3.70%
9/29/1993	11.47%	6.76%	8.03% -2.693671658	1.27%	12.73	4.71%
9/30/1993	11.60%	6.76%	8.03% -2.694664066	1.27%	12.74	4.84%
11/2/1993	10.80%	6.60%	7.89% -2.718055616	1.29%	12.67	4.20%
11/12/1993	12.00%	6.56%	7.86% -2.723624369	1.30%	12.76	5.44%
11/26/1993	11.00%	6.52%	7.83% -2.730429154	1.31%	12.85	4.48%
12/14/1993	10.55%	6.48%	7.80% -2.736143407	1.32%	12.75	4.07%
12/16/1993	10.60%	6.48%	7.80% -2.736836716	1.32%	12.72	4.12%
12/21/1993	11.30%	6.47%	7.80% -2.738096605	1.33%	12.66	4.83%
1/4/1994	10.07%	6.44%	7.78% -2.742426307	1.34%	12.49	3.63%
1/13/1994	11.00%	6.42%	7.77% -2.746265671	1.35%	12.45	4.58%
1/21/1994	11.00%	6.40%	7.75% -2.748645306	1.35%	12.39	4.60%
1/28/1994	11.35%	6.39%		1.35%	12.37	4.96%
2/3/1994	11.40%	6.38%	7.73% -2.75225574	1.35%	12.34	5.02%
2/17/1994	10.60%	6.36%	7.71% -2.755429452	1.35%	12.38	4.24%
2/25/1994	11.25%	6.35%	7.70% -2.756899777	1.36%	12.39	4.90%
2/25/1994	12.00%	6.35%	7.70% -2.756899777	1.36%	12.39	5.65%
3/1/1994	11.00%	6.35%	7.70% -2.757370833	1.36%	12.40	4.65%
3/4/1994	11.00%	6.34%	7.70% -2.757695555	1.36%	12.43	4.66%
4/25/1994	11.00%	6.40%	7.74% -2.74819011	1.33%	13.03	4.60%
5/10/1994	11.75%	6.44%	7.77% -2.741906094	1.32%	13.20	5.31%
5/13/1994	10.50%	6.46%	7.78% -2.739522199	1.32%	13.25	4.04%
6/3/1994	11.00%	6.54%	7.84% -2.727421288	1.30%	13.32	4.46%
6/27/1994	11.40%	6.65%	7.94% -2.710605473	1.29%	13.42	4.75%
8/5/1994	12.75%	6.88%	8.15% -2.676571985	1.27%	13.42	5.87%
10/31/1994	10.00%	7.33%	8.54% -2.613065108	1.21%	13.77	2.67%
11/9/1994	10.85%	7.40%	8.60% -2.604267563	1.20%	13.94	3.45%
11/9/1994	10.85%	7.40%	8.60% -2.604267563	1.20%	13.94	3.45%
11/18/1994	11.20%	7.46%	8.65% -2.59623401	1.20%	14.12	3.74%
11/22/1994	11.60%	7.47%	8.67% -2.594037077	1.20%	14.14	4.13%
11/28/1994	11.06%	7.50%	8.69% -2.590418601	1.20%	14.20	3.56%
12/8/1994	11.70%	7.55%	8.75% -2.584071324	1.21%	14.29	4.15%
12/8/1994	11.50%	7.55%	8.75% -2.584071324	1.21%	14.29	3.95%
12/14/1994	10.95%	7.57%	8.78% -2.581380139	1.21%	14.28	3.38%
12/15/1994	11.50%	7.57%	8.78% -2.580740162	1.21%	14.26	3.93%
12/19/1994	11.50%	7.58%	8.80% -2.579505183	1.21%	14.24	3.92%
, .0, 1007	11.00/0	00/0	2.55,0 2.57,0000100	/0		J.JZ /U

12/28/1994	12.15%	7.61%	8.83%	-2.575147209	1.21%	14.14	4.54%
1/9/1995	12.28%	7.64%	8.87%	-2.571310299	1.22%	14.14	4.64%
1/31/1995	11.00%	7.69%	8.93%	-2.565244175	1.24%	13.71	3.31%
2/10/1995	12.60%	7.70%	8.95%	-2.563744305	1.25%	13.56	4.90%
2/17/1995	11.90%	7.70%	8.96%	-2.563497046	1.26%	13.49	4.20%
3/9/1995	11.50%	7.72%	8.98%	-2.561774453	1.26%	13.37	3.78%
3/20/1995	12.00%	7.72%	8.98%	-2.561279667	1.26%	13.35	4.28%
3/23/1995	12.81%	7.72%	8.99%	-2.561193104	1.27%	13.32	5.09%
3/29/1995	11.60%	7.72%	8.99%	-2.561390321	1.27%	13.31	3.88%
4/6/1995	11.10%	7.72%		-2.561975041	1.28%	13.30	3.38%
4/7/1995	11.00%	7.71%		-2.562117041	1.28%	13.28	3.29%
4/19/1995	11.00%	7.70%	8.99%	-2.563551842	1.29%	13.20	3.30%
5/12/1995	11.63%	7.68%		-2.566903376	1.29%	13.21	3.95%
5/25/1995	11.20%	7.65%	8.95%	-2.570704328	1.30%	13.22	3.55%
6/9/1995	11.25%	7.60%	8.91%	-2.576999458	1.31%	13.26	3.65%
6/21/1995	12.25%	7.56%	8.88%	-2.582523025	1.32%	13.24	4.69%
6/30/1995	11.10%	7.51%		-2.588289223	1.33%	13.20	3.59%
9/11/1995	11.30%	7.20%	8.58%	-2.630863753	1.38%	12.48	4.10%
9/27/1995							
	11.50%	7.12%		-2.642117081	1.38%	12.24	4.38%
9/27/1995	11.75%	7.12%		-2.642117081	1.38%	12.24	4.63%
9/27/1995	11.30%	7.12%	8.50%	-2.642117081	1.38%	12.24	4.18%
9/29/1995	11.00%	7.11%	8.49%	-2.643930188	1.38%	12.24	3.89%
11/9/1995	12.36%	6.89%	8.30%	-2.674546417	1.40%	12.47	5.47%
11/9/1995	11.38%	6.89%	8.30%	-2.674546417	1.40%	12.47	4.49%
11/17/1995	11.00%	6.85%	8.26%	-2.680612738	1.41%	12.51	4.15%
12/4/1995	11.35%	6.78%	8.21%	-2.69155484	1.43%	12.52	4.57%
				-2.697079693			
12/11/1995	11.40%	6.74%			1.44%	12.52	4.66%
12/20/1995	11.60%	6.69%		-2.704042664	1.44%	12.50	4.91%
12/27/1995	12.00%	6.66%	8.11%	-2.709184261	1.45%	12.48	5.34%
2/5/1996	12.25%	6.48%	7.97%	-2.737087325	1.50%	12.63	5.77%
3/29/1996	10.67%	6.42%	7.92%	-2.746308744	1.50%	13.49	4.25%
4/8/1996	11.00%	6.42%	7.92%	-2.745813123	1.50%	13.63	4.58%
4/11/1996	12.59%	6.43%	7.93%	-2.74496808	1.51%	13.74	6.16%
4/11/1996	12.59%		7.93%	-2.74496808	1.51%		
		6.43%				13.74	6.16%
4/24/1996	11.25%	6.43%		-2.744033106	1.51%	13.93	4.82%
4/30/1996	11.00%	6.43%	7.95%	-2.744203463	1.52%	13.99	4.57%
5/13/1996	11.00%	6.44%	7.97%	-2.743373053	1.53%	14.15	4.56%
5/23/1996	11.25%	6.43%	7.98%	-2.743837779	1.54%	14.24	4.82%
6/25/1996	11.25%	6.48%	8.01%	-2.736832837	1.53%	14.73	4.77%
6/27/1996	11.20%	6.48%		-2.736140306	1.53%	14.77	4.72%
8/12/1996	10.40%	6.57%	8.09%	-2.722275526	1.51%	15.35	3.83%
9/27/1996	11.00%	6.71%	8.19%	-2.701473883	1.48%	15.98	4.29%
10/16/1996	12.25%	6.76%		-2.693650854	1.46%	16.22	5.49%
11/5/1996	11.00%	6.81%	8.25%	-2.686455654	1.44%	16.44	4.19%
11/26/1996	11.30%	6.83%	8.27%	-2.683157094	1.43%	16.58	4.47%
12/18/1996	11.75%	6.84%	8.27%	-2.683065193	1.44%	16.80	4.91%
12/31/1996	11.50%	6.83%	8.27%	-2.683536548	1.44%	16.84	4.67%
1/3/1997	10.70%	6.83%	8.27%	-2.683469618	1.43%	16.85	3.87%
2/13/1997	11.80%	6.82%	8.24%	-2.684796545	1.42%	17.23	4.98%
2/20/1997	11.80%	6.82%	8.23%	-2.685897396	1.42%	17.29	4.98%
3/31/1997	10.02%	6.80%	8.21%	-2.688051022	1.40%	17.83	3.22%
4/2/1997	11.65%	6.80%	8.20%	-2.687962365	1.40%	17.86	4.85%
4/28/1997	11.50%	6.81%	8.20%	-2.686810534	1.39%	18.20	4.69%
4/29/1997	11.70%	6.81%		-2.686853335	1.39%	18.20	4.89%
7/17/1997	12.00%	6.77%		-2.692346266	1.37%	19.04	5.23%
12/12/1997	11.00%	6.60%	7.96%	-2.717610327	1.36%	22.58	4.40%
12/23/1997	11.12%	6.57%	7.88%	-2.722946277	1.31%	22.85	4.55%
2/2/1998	12.75%	6.39%	7.80%	-2.750652989	1.41%	23.45	6.36%
3/2/1998	11.25%	6.28%	7.71%	-2.76702993	1.42%	23.41	4.97%
3/6/1998	10.75%	6.27%		-2.769940573	1.43%	23.39	4.48%
3/20/1998	10.75%	6.22%	7.64%	-2.777213672	1.42%	23.36	4.28%
4/30/1998	12.20%	6.12%	7.54%	-2.79337985	1.42%	23.68	6.08%
7/10/1998	11.40%	5.94%	7.39%	-2.824188014	1.46%	23.14	5.46%
9/15/1998	11.90%	5.78%	7.30%	-2.850769112	1.52%	23.80	6.12%
11/30/1998	12.60%	5.58%	7.26%	-2.886003023	1.68%	26.06	7.02%
12/10/1998	12.20%	5.54%	7.25%	-2.89315573	1.71%	26.34	6.66%
12/17/1998	12.10%	5.52%	7.25%	-2.897314092	1.73%	26.58	6.58%
2/5/1999	10.30%	5.38%	7.24%	-2.922553735	1.86%	27.54	4.92%
3/4/1999	10.50%	5.34%	7.25%	-2.930709887	1.91%	28.19	5.16%
	10.94%	5.32%	7.28%	-2.933623209	1.96%	28.47	5.62%
4/6/1999							
7/29/1999	10.75%	5.52%	7.54%	-2.897188406	2.02%	25.77	5.23%
9/23/1999	10.75%	5.70%	7.72%	-2.864128491	2.02%	24.95	5.05%
11/17/1999	11.10%	5.90%	7.90%	-2.830538984	2.00%	24.31	5.20%
1/7/2000	11.50%	6.05%	8.03%	-2.805234019	1.98%	23.49	5.45%
1/7/2000	11.50%	6.05%	8.03%	-2.805234019	1.98%	23.49	5.45%
2/17/2000	10.60%	6.17%	8.15%	-2.784697924	1.98%	23.35	4.43%
3/28/2000	11.25%	6.20%	8.23%	-2.781387114	2.03%	22.96	5.05%
5/24/2000		6.18%	8.34%	-2.783420237	2.16%		4.82%
	11.00%					23.84	
7/18/2000	12.20%	6.16%	8.40%	-2.787689912	2.24%	23.36	6.04%
9/29/2000	11.16%	6.03%	8.42%	-2.808572357	2.39%	22.44	5.13%
11/28/2000	12.90%	5.89%	8.40%	-2.832402316	2.51%	22.97	7.01%
11/30/2000	12.10%	5.88%	8.40%	-2.83326822	2.52%	23.03	6.22%

1/23/2001	11.25%	5.79%	8.33%	-2.848668238	2.54%	23.49	5.46%
2/8/2001	11.50%	5.77%	8.31%	-2.852595652	2.54%	23.15	5.73%
5/8/2001	10.75%	5.62%	8.12%	-2.878885019	2.50%	24.39	5.13%
6/26/2001	11.00%	5.62%	8.08%	-2.878717819	2.46%	24.93	5.38%
7/25/2001	11.02%	5.60%	8.06%	-2.882979849	2.46%	25.07	5.42%
7/25/2001	11.02%	5.60%	8.06%	-2.882979849	2.46%	25.07	5.42%
7/31/2001	11.00%	5.59%	8.05%	-2.883621127	2.46%	24.96	5.41%
8/31/2001	10.50%	5.56%	8.01%	-2.88991106	2.45%	24.49	4.94%
9/7/2001	10.75%	5.55%	8.01%	-2.890944082	2.45%	24.53	5.20%
9/10/2001	11.00%	5.55%	8.00%	-2.8911758	2.45%	24.55	5.45%
9/20/2001	10.00%	5.55%	8.00%	-2.891508082	2.45%	24.84	4.45%
10/24/2001	10.30%	5.54%	8.00%	-2.892931715	2.46%	25.69	4.76%
11/28/2001	10.60%	5.49%	8.01%	-2.902140335	2.52%	26.17	5.11%
12/3/2001	12.88%	5.49%	8.01%	-2.902751896	2.52%	26.22	7.39%
12/20/2001	12.50%	5.50%	8.03%	-2.900883598	2.53%	26.14	7.00%
1/22/2002	10.00%	5.50%		-2.901113059	2.56%	25.49	4.50%
3/27/2002	10.10%	5.45%		-2.910256497	2.65%	24.65	4.65%
4/22/2002	11.80%	5.45%	8.12%	-2.909549875	2.67%	24.49	6.35%
5/28/2002	10.17%	5.46%	8 15%	-2.906892594	2.69%	24.29	4.71%
6/10/2002	12.00%	5.47%		-2.905117339	2.69%	24.33	6.53%
6/18/2002	11.16%	5.48%	8.17%	-2.904826571	2.70%	24.42	5.68%
6/20/2002	11.00%	5.48%	8.18%	-2.904761693	2.70%	24.46	5.52%
6/20/2002	12.30%	5.48%	8.18%	-2.904761693	2.70%	24.46	6.82%
7/15/2002	11.00%	5.48%	8.19%	-2.904867042	2.71%	24.08	5.52%
9/12/2002	12.30%	5.45%	8.14%	-2.909336723	2.69%	25.15	6.85%
9/26/2002	10.45%	5.41%	8.12%	-2.916605702	2.70%	25.82	5.04%
12/4/2002	11.55%	5.29%	8.04%	-2.939312994	2.75%	28.03	6.26%
12/13/2002	11.75%	5.27%		-2.943691118	2.75%	28.29	6.48%
12/20/2002	11.40%	5.25%	8.01%	-2.947529791	2.76%	28.48	6.15%
1/8/2003	11.10%	5.19%	7.96%	-2.958831509	2.77%	28.93	5.91%
1/31/2003	12.45%	5.13%		-2.970990735	2.76%	29.66	7.32%
2/28/2003	12.30%	5.04%	7.79%	-2.987360779	2.75%	30.74	7.26%
3/6/2003	10.75%	5.02%	7.76%	-2.991151425	2.74%	30.99	5.73%
3/7/2003	9.96%	5.02%	7.75%	-2.992064936	2.74%	31.04	4.94%
3/20/2003	12.00%	4.98%		-2.999369836	2.71%	31.54	7.02%
4/3/2003	12.00%	4.95%	7.63%	-3.00477383	2.68%	31.74	7.05%
4/15/2003	11.15%	4.93%	7.59%	-3.008823419	2.65%	31.70	6.22%
6/25/2003	10.75%	4.79%	7.24%	-3.038054451	2.44%	28.27	5.96%
6/26/2003	10.75%	4.79%	7.23%	-3.038241201	2.44%	28.19	5.96%
7/9/2003	9.75%	4.79%	7.18%	-3.038725594	2.39%	27.44	4.96%
7/16/2003	9.75%	4.79%	7.16%	-3.038182058	2.36%	26.97	4.96%
			7.12%	-3.037864695			
7/25/2003	9.50%	4.79%			2.33%	26.27	4.71%
8/26/2003	10.50%	4.83%	7.02%	-3.030347336	2.19%	24.78	5.67%
12/17/2003	9.85%	4.94%	6.75%	-3.008547812	1.82%	20.47	4.91%
12/17/2003	10.70%	4.94%	6.75%	-3.008547812	1.82%	20.47	5.76%
12/18/2003	11.50%	4.94%	6.75%	-3.008306374	1.81%	20.40	6.56%
12/19/2003	12.00%	4.94%	6.75%	-3.008139377	1.81%	20.31	7.06%
12/19/2003	12.00%	4.94%	6.75%	-3.008139377	1.81%	20.31	7.06%
12/23/2003	10.50%	4.94%	6.74%	-3.007905668	1.80%	20.15	5.56%
1/13/2004	12.00%	4.95%	6.71%	-3.006044052	1.76%	19.31	7.05%
3/2/2004	10.75%	4.99%	6.63%	-2.997661168	1.63%	18.17	5.76%
3/26/2004	10.25%	5.02%	6.60%	-2.990888746	1.58%	17.96	5.23%
4/5/2004	11.25%	5.03%	6.60%	-2.98876185	1.57%	17.85	6.22%
5/18/2004	10.50%	5.07%	6.61%	-2.981503433	1.54%	17.43	5.43%
5/25/2004	10.25%	5.07%	6.60%	-2.980961895	1.53%	17.36	5.18%
5/27/2004	10.25%	5.08%	6.60%	-2.980817422	1.52%	17.33	5.17%
6/2/2004	11.22%		6.59%	-2.980403032	1.52%	17.30	6.14%
		5.08%					
6/30/2004	10.50%	5.10%	6.57%	-2.975822055	1.47%	16.96	5.40%
6/30/2004	10.50%	5.10%	6.57%	-2.975822055	1.47%	16.96	5.40%
7/16/2004	11.60%	5.11%	6.56%	-2.974028017	1.45%	16.69	6.49%
8/25/2004	10.25%	5.10%	6.53%	-2.975274132	1.43%	16.53	5.15%
				-2.976412668			
9/9/2004	10.40%	5.10%	6.51%		1.42%	16.35	5.30%
11/9/2004	10.50%	5.07%	6.43%	-2.982694322	1.37%	15.94	5.43%
11/23/2004	11.00%	5.06%	6.42%	-2.983091699	1.36%	15.75	5.94%
12/14/2004	10.97%	5.07%	6.42%	-2.982380897	1.35%	15.59	5.90%
12/21/2004	11.25%	5.07%	6.41%	-2.981810537	1.34%	15.51	6.18%
12/21/2004	11.50%	5.07%	6.41%	-2.981810537	1.34%	15.51	6.43%
12/22/2004	10.70%	5.07%	6.41%	-2.981683878	1.34%	15.47	5.63%
12/22/2004	11.50%	5.07%	6.41%	-2.981683878	1.34%	15.47	6.43%
12/29/2004	9.85%	5.08%	6.41%	-2.980600108	1.34%	15.30	4.77%
1/6/2005	10.70%	5.08%	6.41%	-2.980446978	1.33%	15.12	5.62%
2/18/2005	10.30%	4.98%	6.33%	-3.000646136	1.35%	14.59	5.32%
2/25/2005		4.96%	6.31%	-3.004643114	1.35%	14.46	5.54%
	10.50%						
3/10/2005	11.00%	4.93%	6.27%	-3.010737966	1.34%	14.18	6.07%
3/24/2005	10.30%	4.89%	6.23%	-3.017006419	1.34%	14.05	5.41%
4/4/2005	10.00%	4.87%	6.21%	-3.021138837	1.33%	14.02	5.13%
				-3.022686157			
4/7/2005	10.25%	4.87%	6.19%		1.33%	14.00	5.38%
5/18/2005	10.25%	4.78%	6.08%	-3.040911423	1.30%	13.89	5.47%
5/25/2005	10.75%	4.76%	6.06%	-3.044157534	1.30%	13.75	5.99%
5/26/2005	9.75%	4.76%	6.06%	-3.044786764	1.30%	13.71	4.99%
6/1/2005	9.75%	4.75%	6.05%	-3.047722875	1.30%	13.64	5.00%
7/19/2005	11.50%	4.64%	5.95%	-3.069666948	1.31%	13.17	6.86%

8/5/2005	11.75%	4.62%	5.93%	-3.074217217	1.31%	12.94	7.13%
8/15/2005	10.13%	4.61%	5.92%	-3.076430355	1.31%	12.84	5.52%
9/28/2005	10.00%	4.54%	5.87%	-3.091984314	1.32%	12.77	5.46%
10/4/2005	10.75%	4.53%	5.86%	-3.093410813	1.33%	12.78	6.22%
12/12/2005	11.00%	4.55%	5.93%	-3.090657422	1.38%	12.70	6.45%
	10.75%				1.38%		
12/13/2005		4.55%	5.93%	-3.090774901		12.96	6.20%
12/21/2005	10.29%	4.54%		-3.091653062	1.39%	12.91	5.75%
12/21/2005	10.40%	4.54%	5.93%	-3.091653062	1.39%	12.91	5.86%
12/22/2005	11.15%	4.54%	5.94%	-3.091878642	1.39%	12.90	6.61%
12/22/2005	11.00%	4.54%	5.94%	-3.091878642	1.39%	12.90	6.46%
12/28/2005	10.00%	4.54%	5.94%	-3.092997227	1.40%	12.87	5.46%
12/28/2005	10.00%	4.54%	5.94%	-3.092997227	1.40%	12.87	5.46%
1/5/2006	11.00%	4.53%	5.93%	-3.094948	1.41%	12.82	6.47%
1/27/2006	9.75%	4.52%	5.94%	-3.096670977	1.42%	12.72	5.23%
3/3/2006	10.39%	4.53%	5.96%	-3.094156765	1.43%	12.39	5.86%
4/17/2006	10.20%	4.62%		-3.075605406	1.44%	12.34	5.58%
4/26/2006	10.60%	4.64%		-3.070230581	1.44%	12.34	5.96%
5/17/2006	11.60%	4.69%	6.14%	-3.058721844	1.45%	12.47	6.91%
6/6/2006	10.00%	4.75%	6.19%	-3.047813395	1.44%	12.72	5.25%
6/27/2006	10.75%	4.80%	6.25%	-3.036302206	1.45%	13.07	5.95%
7/6/2006	10.20%	4.83%	6.28%	-3.031062883	1.45%	13.12	5.37%
7/24/2006	9.60%	4.86%	6.32%	-3.02480261	1.46%	13.29	4.74%
7/26/2006	10.50%	4.86%	6.33%	-3.023940481	1.47%	13.29	5.64%
7/28/2006	10.05%	4.87%	6.33%	-3.022998842	1.47%	13.27	5.18%
8/23/2006	9.55%	4.89%		-3.018275015	1.47%	13.20	4.66%
9/1/2006	10.54%	4.90%	6.36%	-3.016566705	1.47%	13.19	5.64%
9/14/2006	10.00%	4.91%	6.37%	-3.014511628	1.47%	13.25	5.09%
10/6/2006	9.67%	4.92%		-3.011845109	1.45%	13.30	4.75%
11/21/2006	10.08%	4.95%	6.39%	-3.005242783	1.44%	13.12	5.13%
11/21/2006	10.08%	4.95%	6.39%	-3.005242783	1.44%	13.12	5.13%
11/21/2006	10.12%	4.95%	6.39%	-3.005242783	1.44%	13.12	5.17%
12/1/2006	10.50%	4.96%	6.38%	-3.004548713	1.43%	13.07	5.54%
12/1/2006	10.25%	4.96%	6.38%	-3.004548713	1.43%	13.07	5.29%
12/7/2006	10.75%	4.96%	6.38%	-3.004570614	1.43%	13.06	5.79%
12/21/2006	10.90%	4.95%	6.38%	-3.004971508	1.42%	12.98	5.95%
12/21/2006	11.25%	4.95%	6.38%	-3.004971508	1.42%	12.98	6.30%
12/22/2006	10.25%	4.95%	6.38%	-3.00491217	1.42%	12.98	5.30%
1/5/2007	10.00%	4.95%	6.37%	-3.00518353	1.42%	12.98	5.05%
1/11/2007	10.10%	4.95%	6.37%	-3.00597145	1.42%	12.98	5.15%
1/11/2007	10.10%	4.95%	6.37%	-3.00597145	1.42%	12.98	5.15%
1/11/2007	10.90%	4.95%	6.37%	-3.00597145	1.42%	12.98	5.95%
1/12/2007	10.10%	4.95%	6.37%	-3.006139	1.42%	12.98	5.15%
1/13/2007	10.40%	4.95%	6.36%	-3.006139	1.41%	12.98	5.45%
1/19/2007	10.80%	4.94%	6.36%	-3.00724106	1.42%	12.96	5.86%
3/21/2007	11.35%	4.86%	6.26%	-3.023136318	1.40%	12.81	6.49%
3/22/2007	9.75%	4.86%	6.26%	-3.023543588	1.40%	12.78	4.89%
5/15/2007	10.00%	4.81%	6.18%	-3.035131286	1.38%	12.22	5.19%
5/17/2007	10.25%	4.80%	6.18%	-3.035523183	1.38%	12.21	5.45%
5/17/2007			6.18%	-3.035523183	1.38%	12.21	5.45%
	10.25%	4.80%					
5/22/2007	10.20%	4.80%	6.18%	-3.035813023	1.37%	12.19	5.40%
5/22/2007	10.50%	4.80%	6.18%	-3.035813023	1.37%	12.19	5.70%
5/23/2007	10.70%	4.80%	6.18%	-3.035807374	1.37%	12.18	5.90%
5/25/2007	9.67%	4.80%	6.18%	-3.035748374	1.37%	12.16	4.87%
6/15/2007	9.90%	4.82%	6.18%	-3.032185058	1.36%	12.27	5.08%
6/21/2007	10.20%	4.83%	6.19%	-3.030757034	1.36%	12.30	5.37%
6/22/2007	10.50%	4.83%	6.19%	-3.030419127	1.36%	12.31	5.67%
6/28/2007	10.75%	4.84%	6.19%	-3.028770569	1.35%	12.38	5.91%
7/12/2007	9.67%	4.86%	6.21%	-3.024328119	1.35%	12.56	4.81%
7/19/2007	10.00%	4.87%	6.21%	-3.023067835	1.35%	12.65	5.13%
7/19/2007	10.00%	4.87%	6.21%	-3.023067835	1.35%	12.65	5.13%
8/15/2007	10.40%	4.88%	6.24%	-3.020041442	1.36%	13.76	5.52%
			6.24%				
10/9/2007	10.00%	4.91%		-3.01403012	1.41%	15.94	5.09%
10/17/2007	9.10%	4.91%	6.32%	-3.013249941	1.41%	16.15	4.19%
10/31/2007	9.96%	4.90%	6.33%	-3.015111405	1.43%	16.62	5.06%
11/29/2007	10.90%	4.87%	6.34%	-3.022447269	1.47%	18.14	6.03%
12/6/2007	10.75%	4.86%	6.35%	-3.023872047	1.49%	18.45	5.89%
12/13/2007	9.96%	4.86%	6.36%	-3.024379313	1.50%	18.60	5.10%
12/14/2007	10.70%	4.86%	6.37%	-3.024419338	1.51%	18.62	5.84%
12/14/2007	10.80%	4.86%	6.37%	-3.024419338	1.51%	18.62	5.94%
12/19/2007	10.20%	4.86%	6.37%	-3.024925123	1.52%	18.74	5.34%
12/20/2007	10.20%	4.86%	6.37%	-3.025146904	1.52%	18.77	5.34%
12/20/2007	11.00%	4.86%	6.37%	-3.025146904	1.52%	18.77	6.14%
12/28/2007	10.25%	4.85%	6.39%	-3.026113672	1.54%	18.84	5.40%
12/31/2007	11.25%	4.85%	6.39%	-3.026472202	1.54%	18.88	6.40%
1/8/2008	10.75%	4.83%	6.39%	-3.029431558	1.56%	19.16	5.92%
1/17/2008	10.75%	4.81%	6.40%	-3.033564395	1.58%	19.51	5.94%
1/28/2008	9.40%	4.80%	6.40%	-3.037591447	1.60%	19.99	4.60%
1/30/2008	10.00%	4.79%	6.40%	-3.038613023	1.61%	20.14	5.21%
1/31/2008	10.71%	4.79%	6.40%	-3.039198674	1.61%	20.21	5.92%
2/29/2008	10.25%	4.75%	6.44%	-3.047449143	1.70%	21.45	5.50%
3/12/2008	10.25%	4.73%	6.46%	-3.052209146	1.73%	21.99	5.52%
3/25/2008	9.10%	4.68%	6.47%	-3.061558162	1.79%	22.55	4.42%

4/22/2008	10.25%	4.60%	6.49%	-3.078832624	1.89%	23.32	5.65%
4/24/2008	10.10%	4.60%	6.50%	-3.080067582	1.90%	23.35	5.50%
5/1/2008	10.70%	4.58%	6.50%	-3.082615966	1.92%	23.46	6.12%
5/19/2008	11.00%	4.56%	6.52%	-3.087540151	1.96%	23.32	6.44%
5/27/2008	10.00%	4.55%	6.53%	-3.090159256	1.98%	23.18	5.45%
6/10/2008	10.70%	4.54%	6.55%	-3.091971478	2.01%	22.89	6.16%
6/27/2008	11.04%	4.54%	6.58%	-3.092903964	2.05%	22.73	6.50%
6/27/2008	10.50%	4.54%	6.58%	-3.092903964	2.05%	22.73	5.96%
7/10/2008	10.43%	4.52%	6.60%	-3.096262708	2.07%	22.88	5.91%
7/16/2008	9.40%	4.51%	6.60%	-3.09785137	2.09%	23.08	4.89%
7/30/2008	10.80%	4.51%	6.64%	-3.099343455	2.13%	23.33	6.29%
7/31/2008	10.70%	4.51%	6.64%	-3.09948303	2.13%	23.34	6.19%
8/11/2008	10.25%	4.50%	6.67%	-3.099990996	2.16%	23.37	5.75%
8/26/2008	10.18%	4.50%	6.70%	-3.101220659	2.20%	23.23	5.68%
					2.24%		
9/10/2008	10.30%	4.50%	6.73%	-3.102089265		23.01	5.80%
9/24/2008	10.65%	4.48%	6.77%	-3.105445296	2.29%	23.46	6.17%
9/24/2008	10.65%	4.48%	6.77%	-3.105445296	2.29%	23.46	6.17%
9/24/2008	10.65%	4.48%	6.77%	-3.105445296	2.29%	23.46	6.17%
		4.47%					
9/30/2008	10.20%		6.79%	-3.106880921	2.32%	23.77	5.73%
10/8/2008	10.15%	4.46%	6.83%	-3.109380865	2.37%	24.61	5.69%
11/13/2008	10.55%	4.45%	7.14%	-3.113307793	2.70%	29.58	6.10%
11/17/2008	10.20%	4.44%	7.17%	-3.113801229	2.73%	29.98	5.76%
12/1/2008	10.25%	4.39%	7.27%	-3.124869944	2.88%	31.79	5.86%
12/23/2008	11.00%	4.27%	7.40%	-3.153518936	3.13%	34.13	6.73%
12/29/2008	10.00%	4.24%	7.41%	-3.16118106	3.17%	34.34	5.76%
12/29/2008	10.20%	4.24%	7.41%	-3.16118106	3.17%	34.34	5.96%
12/31/2008	10.75%	4.22%	7.42%	-3.165299335	3.20%	34.47	6.53%
1/14/2009	10.50%	4.15%	7.48%	-3.182081347	3.33%	35.25	6.35%
1/21/2009	10.50%	4.11%	7.50%	-3.191026293	3.38%	35.81	6.39%
1/21/2009	10.50%	4.11%	7.50%	-3.191026293	3.38%	35.81	6.39%
1/21/2009	10.50%	4.11%	7.50%	-3.191026293	3.38%	35.81	6.39%
1/27/2009	10.76%	4.09%	7.52%	-3.196810512	3.43%	36.26	6.67%
1/30/2009	10.50%	4.07%	7.54%	-3.200583476	3.46%	36.58	6.43%
2/4/2009	8.75%	4.06%	7.55%	-3.203900576	3.49%	36.94	4.69%
3/4/2009	10.50%	3.96%	7.64%	-3.228968418	3.69%	39.59	6.54%
3/12/2009	11.50%	3.93%		-3.237197803	3.75%	40.42	7.57%
4/2/2009	11.10%	3.85%	7.77%	-3.257597848	3.92%	42.04	7.25%
4/21/2009	10.61%	3.80%	7.83%	-3.270969095	4.04%	42.91	6.81%
4/24/2009	10.00%	3.78%	7.85%	-3.274149923	4.07%	43.10	6.22%
4/30/2009	11.25%	3.77%		-3.277842627	4.10%	43.29	7.48%
5/4/2009	10.74%	3.77%	7.88%	-3.279318491	4.12%	43.40	6.97%
5/20/2009	10.25%	3.74%	7.92%	-3.286204298	4.18%	43.96	6.51%
5/28/2009	10.50%	3.74%	7.94%	-3.286261679	4.20%	44.24	6.76%
6/22/2009	10.00%	3.76%	7.98%	-3.280184058	4.22%	45.01	6.24%
6/24/2009	10.80%	3.76%	7.98%	-3.27948786	4.22%	45.06	7.04%
7/8/2009	10.63%	3.76%	7.98%	-3.279556337	4.22%	44.95	6.87%
7/17/2009	10.50%	3.77%	7.96%	-3.276804414	4.19%	44.55	6.73%
8/31/2009	10.25%	3.82%	7.63%	-3.265340673	3.81%	38.96	6.43%
10/14/2009	10.70%	4.02%		-3.214483475	3.26%	33.90	6.68%
10/23/2009	10.88%	4.06%	7.22%	-3.203174858	3.15%	33.22	6.82%
11/2/2009	10.70%	4.10%	7.17%	-3.195312051	3.08%	32.57	6.60%
11/3/2009	10.70%	4.10%	7.16%	-3.194201474	3.06%	32.48	6.60%
11/24/2009	10.25%	4.16%	7.04%	-3.180528246	2.88%	30.89	6.09%
11/25/2009	10.75%	4.16%	7.03%	-3.179847438	2.87%	30.79	6.59%
11/30/2009	10.35%	4.17%	7.02%	-3.177361286	2.85%	30.58	6.18%
12/3/2009	10.50%	4.18%	6.99%	-3.175090026	2.82%	30.18	6.32%
12/7/2009	10.70%	4.19%	6.98%	-3.173207062	2.79%	29.90	6.51%
12/16/2009	11.00%	4.22%	6.93%	-3.165967328	2.71%	28.98	6.78%
12/16/2009	10.90%	4.22%	6.93%	-3.165967328	2.71%	28.98	6.68%
12/18/2009	10.40%	4.22%	6.91%	-3.164249054	2.69%	28.70	6.18%
12/18/2009	10.40%	4.22%	6.91%	-3.164249054	2.69%	28.70	6.18%
12/22/2009	10.20%	4.23%	6.90%	-3.162096838	2.66%	28.46	5.97%
				-3.162096838	2.66%		
12/22/2009	10.40%	4.23%	6.90%			28.46	6.17%
12/22/2009	10.40%	4.23%	6.90%	-3.162096838	2.66%	28.46	6.17%
12/30/2009	10.00%	4.26%	6.85%	-3.155121845	2.59%	27.91	5.74%
1/4/2010	10.80%	4.28%	6.84%	-3.151395302	2.56%	27.67	6.52%
1/11/2010		4.31%	6.79%	-3.145305506	2.49%	27.09	6.69%
	11.00%						
1/26/2010	10.13%	4.35%	6.69%	-3.134367263	2.34%	26.08	5.78%
1/27/2010	10.40%	4.36%	6.68%	-3.133477673	2.32%	26.01	6.04%
1/27/2010	10.40%	4.36%	6.68%	-3.133477673	2.32%	26.01	6.04%
1/27/2010	10.70%	4.36%	6.68%	-3.133477673	2.32%	26.01	6.34%
2/9/2010			6.60%	-3.127793047		25.43	
	9.80%	4.38%			2.21%		5.42%
2/18/2010	10.60%	4.40%	6.55%	-3.123777636	2.15%	25.05	6.20%
2/24/2010	10.18%	4.41%	6.52%	-3.121686872	2.11%	24.80	5.77%
3/2/2010	9.63%	4.41%	6.49%	-3.121269972	2.08%	24.54	5.22%
3/4/2010	10.50%	4.41%	6.47%	-3.120908261	2.06%	24.43	6.09%
3/5/2010	10.50%	4.41%	6.46%	-3.120784568	2.05%	24.37	6.09%
3/11/2010	11.90%	4.42%	6.44%	-3.120123654	2.02%	24.10	7.48%
3/17/2010	10.00%	4.41%	6.40%	-3.120488042	1.99%	23.85	5.59%
3/25/2010	10.15%	4.42%	6.36%	-3.119876023	1.94%	23.47	5.73%
4/2/2010			6.33%	-3.117231477	1.90%		
	10.10%	4.43%				23.15	5.67%
4/27/2010	10.00%	4.46%	6.26%	-3.110636567	1.80%	22.16	5.54%

4/29/2010	9.90%	4.46%	6.25%	-3.110494299	1.79%	22.11	5.44%
4/29/2010	10.06%	4.46%	6.25%	-3.110494299	1.79%	22.11	5.60%
4/29/2010	10.26%	4.46%	6.25%	-3.110494299	1.79%	22.11	5.80%
	10.30%	4.45%			1.75%	22.11	
5/12/2010				-3.111299926			5.85%
5/12/2010	10.30%	4.45%	6.21%	-3.111299926	1.75%	22.26	5.85%
5/28/2010	10.20%	4.44%	6.17%	-3.113932092	1.73%	22.81	5.76%
5/28/2010	10.10%	4.44%	6.17%	-3.113932092	1.73%	22.81	5.66%
6/7/2010	10.30%	4.44%	6.17%	-3.114055732	1.73%	23.00	5.86%
6/16/2010	10.00%	4.44%	6.17%	-3.114597301	1.73%	23.16	5.56%
6/28/2010	10.50%	4.43%	6.17%	-3.115717468	1.73%	23.19	6.07%
6/28/2010	9.67%	4.43%		-3.115717468	1.73%	23.19	5.24%
6/30/2010	9.40%	4.43%		-3.116340439	1.74%	23.30	4.97%
7/1/2010	10.25%	4.43%	6.17%	-3.116562245	1.74%	23.34	5.82%
7/15/2010	10.70%	4.43%		-3.117118905	1.74%	23.43	6.27%
7/15/2010	10.53%	4.43%	6.17%	-3.117118905	1.74%	23.43	6.10%
7/30/2010	10.70%	4.41%	6.16%	-3.120221767	1.74%	23.39	6.29%
8/4/2010	10.50%	4.41%	6.15%	-3.120995743	1.74%	23.40	6.09%
8/6/2010	9.83%	4.41%	6.15%	-3.121498459	1.74%	23.41	5.42%
8/25/2010	9.90%	4.37%	6.10%	-3.130131006	1.73%	23.38	5.53%
9/3/2010	10.60%	4.35%	6.07%	-3.135016174	1.72%	23.44	6.25%
9/14/2010	10.70%	4.33%	6.06%	-3.139529881	1.73%	23.46	6.37%
9/16/2010	10.00%	4.32%	6.05%	-3.140935713	1.73%	23.44	5.68%
9/16/2010	10.00%	4.32%	6.05%	-3.140935713	1.73%	23.44	5.68%
9/30/2010	9.75%	4.28%	6.02%	-3.150230015	1.73%	23.47	5.47%
10/14/2010	10.35%	4.24%	5.98%	-3.160773329	1.74%	23.50	6.11%
				-3.168341788	1.75%		
10/28/2010	10.70%	4.21%	5.95%			23.55	6.49%
11/2/2010	10.38%	4.20%	5.95%	-3.17043425	1.75%	23.60	6.18%
11/4/2010	10.70%	4.19%	5.94%	-3.171543411	1.75%	23.54	6.51%
11/19/2010	10.20%	4.17%	5.93%	-3.176070512	1.76%	23.28	6.03%
11/22/2010	10.00%	4.17%	5.93%	-3.176584599	1.76%	23.24	5.83%
12/1/2010	10.13%	4.16%	5.92%	-3.180510957	1.76%	23.21	5.97%
12/6/2010	9.86%	4.15%	5.91%	-3.181566727	1.76%	23.18	5.71%
12/9/2010	10.25%	4.15%	5.91%	-3.182246769	1.76%	23.14	6.10%
12/13/2010	10.70%	4.15%	5.91%	-3.182883161	1.76%	23.13	6.55%
12/14/2010	10.13%	4.15%	5.91%	-3.183079988	1.76%	23.12	5.98%
12/15/2010	10.44%	4.15%	5.91%	-3.183167264	1.76%	23.12	6.29%
12/17/2010	10.00%	4.14%	5.90%	-3.183507953	1.76%	23.11	5.86%
12/20/2010	10.60%	4.14%	5.90%	-3.183684527	1.76%	23.10	6.46%
12/21/2010	10.30%	4.14%	5.90%	-3.18386368	1.76%	23.09	6.16%
12/27/2010	9.90%	4.14%	5.90%	-3.184538125	1.76%	23.07	5.76%
12/29/2010	11.15%	4.14%	5.90%	-3.185177677	1.76%	23.07	7.01%
1/5/2011	10.15%	4.13%	5.89%	-3.187112059	1.77%	23.08	6.02%
1/12/2011	10.30%	4.12%	5.89%	-3.188930455	1.77%	23.07	6.18%
1/13/2011	10.30%	4.12%	5.89%	-3.189224696	1.77%	23.06	6.18%
1/18/2011	10.00%	4.12%	5.88%	-3.189817587	1.77%	23.05	5.88%
1/20/2011	9.30%	4.12%	5.88%	-3.190121488	1.77%	23.06	5.18%
1/20/2011	10.13%	4.12%	5.88%	-3.190121488	1.77%	23.06	6.01%
1/31/2011	9.60%	4.11%		-3.190920371	1.76%	23.12	5.49%
2/3/2011	10.00%	4.11%	5.88%	-3.190715033	1.76%	23.12	5.89%
2/25/2011				-3.183839904			
	10.00%	4.14%	5.88%		1.74%	22.58	5.86%
3/25/2011	9.80%	4.18%		-3.175519517	1.70%	21.29	5.62%
3/30/2011	10.00%	4.18%	5.87%	-3.173985214	1.69%	21.16	5.82%
4/12/2011	10.00%	4.21%	5.86%	-3.167347489	1.65%	20.69	5.79%
4/25/2011	10.74%	4.23%	5.86%	-3.162361798	1.63%	20.17	6.51%
4/26/2011	9.67%	4.24%	5.86%	-3.161766449	1.62%	20.13	5.43%
4/27/2011	10.40%	4.24%	5.86%	-3.161170032	1.62%	20.08	6.16%
5/4/2011	10.00%	4.25%	5.85%	-3.159264664	1.61%	19.84	5.75%
5/4/2011	10.00%	4.25%	5.85%	-3.159264664	1.61%	19.84	5.75%
5/24/2011	10.50%	4.27%	5.85%	-3.153484574	1.58%	19.44	6.23%
6/8/2011	10.75%	4.30%	5.86%	-3.145562201	1.55%	19.02	6.45%
6/16/2011	9.20%	4.32%	5.86%	-3.142525313	1.55%	18.83	4.88%
6/17/2011	9.95%	4.32%	5.86%	-3.142110224	1.55%	18.83	5.63%
7/13/2011	10.20%	4.37%	5.88%	-3.131313145	1.51%	18.48	5.83%
8/1/2011	9.20%	4.39%	5.89%	-3.126053204	1.50%	18.46	4.81%
8/8/2011	10.00%	4.38%	5.88%	-3.127241649	1.49%	18.77	5.62%
8/11/2011	10.00%	4.38%	5.87%	-3.128765757	1.49%	19.05	5.62%
8/12/2011	10.35%	4.38%	5.87%	-3.129218642	1.49%	19.13	5.97%
8/19/2011	10.25%	4.36%	5.85%	-3.133372714	1.49%	19.53	5.89%
9/2/2011	12.88%	4.32%	5.82%	-3.141667397	1.50%	20.31	8.56%
9/22/2011	10.00%	4.24%	5.76%	-3.160554415	1.52%	21.34	5.76%
10/12/2011	10.30%	4.14%	5.70%	-3.185236225	1.57%	22.82	6.16%
10/20/2011	10.50%	4.10%	5.68%	-3.194899365	1.58%	23.27	6.40%
11/30/2011	10.90%	3.87%	5.54%	-3.251672762	1.66%	25.28	7.03%
11/30/2011	10.90%	3.87%	5.54%	-3.251672762	1.66%	25.28	7.03%
12/14/2011	10.00%	3.79%	5.49%	-3.271703753	1.70%	25.67	6.21%
12/14/2011	10.30%	3.79%	5.49%	-3.271703753	1.70%	25.67	6.51%
			5.47%	-3.280231611	1.71%		6.44%
12/20/2011 12/21/2011	10.20% 10.20%	3.76%	5.47%	-3.280231611	1.71%	25.76 25.76	6.44%
		3.75%	5.46%	-3.282150288 -3.284074128			
12/22/2011	9.90%	3.75%			1.71%	25.77	6.15%
12/22/2011	10.40%	3.75%		-3.284074128	1.71%	25.77	6.65%
12/23/2011	10.19%	3.74%	5.45%	-3.285945923	1.71%	25.76	6.45%
1/25/2012	10.50%	3.57%	5.36%	-3.333877869	1.80%	25.89	6.93%

1/27/2012	10.50%	3.55%	5.35% -3.33779292	1.80%	25.91	6.95%
2/15/2012	10.20%	3.47%	5.29% -3.361409425	1.82%	26.12	6.73%
2/23/2012	9.90%	3.43%	5.27% -3.371270593	1.84%	26.14	6.47%
2/27/2012	10.25%	3.42%	5.27% -3.374743262	1.84%	26.15	6.83%
2/29/2012	10.40%	3.41%	5.26% -3.378194589	1.85%	26.16	6.99%
3/29/2012	10.37%	3.31%	5.20% -3.407607481	1.89%	25.99	7.06%
4/4/2012	10.00%	3.29%	5.19% -3.413550962	1.90%	25.89	6.71%
4/26/2012	10.00%	3.20%	5.14% -3.441427686	1.94%	25.91	6.80%
5/2/2012	10.00%	3.18%	5.13% -3.448747519	1.95%	25.85	6.82%
5/7/2012			5.12% -3.453275485	1.95%	25.85	6.64%
	9.80%	3.16%				
5/15/2012	10.00%	3.14%	5.10% -3.460060701	1.95%	25.79	6.86%
5/29/2012	10.05%	3.11%	5.08% -3.4721097	1.98%	25.23	6.94%
6/7/2012	10.30%	3.07%	5.07% -3.482000441	2.00%	24.77	7.23%
6/14/2012	9.40%	3.06%	5.06% -3.486617828	2.00%	24.45	6.34%
6/15/2012	10.40%	3.06%	5.06% -3.487549095	2.01%	24.40	7.34%
6/18/2012	9.60%	3.05%	5.06% -3.488645419	2.01%	24.33	6.55%
6/19/2012	9.25%	3.05%	5.06% -3.489530491	2.01%	24.25	6.20%
6/26/2012	10.10%	3.04%	5.06% -3.493695579	2.02%	23.82	7.06%
6/29/2012	10.00%	3.04%	5.05% -3.494637933	2.02%	23.58	6.96%
7/9/2012	10.20%	3.03%	5.05% -3.497048482	2.02%	23.14	7.17%
7/16/2012	9.80%	3.02%	5.04% -3.500418657	2.02%	22.59	6.78%
7/20/2012	9.81%	3.01%	5.04% -3.504340258	2.03%	22.07	6.80%
7/20/2012	9.31%	3.01%	5.04% -3.504340258	2.03%	22.07	6.30%
9/13/2012	9.80%	2.94%	4.99% -3.527182873	2.05%	19.11	6.86%
9/19/2012	10.05%	2.94%	4.99% -3.526826754	2.05%	18.84	7.11%
9/19/2012	9.80%	2.94%	4.99% -3.526826754	2.05%	18.84	6.86%
9/26/2012	9.50%	2.94%	4.98% -3.527062671	2.04%	18.51	6.56%
10/12/2012	9.60%	2.93%	4.95% -3.52951591	2.02%	18.04	6.67%
10/12/2012	9.75%	2.93%	4.93% -3.529590812	2.00%	17.84	6.82%
10/23/2012	10.30%	2.93%	4.93% -3.529748862	2.00%	17.83	7.37%
11/9/2012			4.90% -3.533860924	1.98%		7.38%
	10.30%	2.92%			17.75	
11/28/2012	10.40%	2.90%	4.86% -3.542070693	1.97%	17.60	7.50%
11/29/2012	9.88%	2.89%	4.86% -3.542597759	1.97%	17.58	6.99%
11/29/2012	9.75%	2.89%	4.86% -3.542597759	1.97%	17.58	6.86%
12/5/2012	9.71%	2.89%	4.85% -3.544668433	1.96%	17.53	6.82%
12/5/2012	10.40%	2.89%	4.85% -3.544668433	1.96%	17.53	7.51%
12/12/2012	9.80%	2.88%	4.84% -3.547301552	1.96%	17.48	6.92%
12/13/2012	10.50%	2.88%	4.84% -3.547776921	1.96%	17.47	7.62%
12/13/2012	9.50%	2.88%	4.84% -3.547776921	1.96%	17.47	6.62%
12/14/2012	10.40%	2.88%	4.83% -3.548313291	1.96%	17.47	7.52%
12/19/2012	9.71%	2.87%	4.83% -3.55032707	1.96%	17.44	6.84%
12/19/2012	10.25%	2.87%	4.83% -3.55032707	1.96%	17.44	7.38%
12/20/2012	10.40%	2.87%	4.83% -3.551071791	1.96%	17.43	7.53%
12/20/2012	10.30%	2.87%	4.83% -3.551071791	1.96%	17.43	7.43%
12/20/2012	10.45%	2.87%	4.83% -3.551071791	1.96%	17.43	7.58%
12/20/2012	10.25%	2.87%	4.83% -3.551071791	1.96%	17.43	7.38%
12/20/2012	10.25%	2.87%	4.83% -3.551071791	1.96%	17.43	7.38%
12/20/2012	9.80%	2.87%	4.83% -3.551071791	1.96%	17.43	6.93%
12/20/2012	9.50%	2.87%	4.83% -3.551071791	1.96%	17.43	6.63%
12/21/2012	10.20%	2.87%	4.82% -3.552029679	1.96%	17.43	7.33%
12/26/2012	9.80%	2.86%	4.82% -3.554468047	1.96%	17.46	6.94%
1/9/2013	9.70%	2.84%	4.79% -3.560007089	1.95%	17.50	6.86%
1/9/2013	9.70%	2.84%	4.79% -3.560007089	1.95%	17.50	6.86%
1/9/2013	9.70%	2.84%	4.79% -3.560007089	1.95%	17.50	6.86%
1/16/2013	9.60%	2.84%	4.78% -3.561332869	1.94%	17.45	6.76%
1/16/2013	9.60%	2.84%	4.78% -3.561332869	1.94%	17.45	6.76%
2/13/2013	10.20%	2.84%	4.74% -3.560233115	1.90%	17.43	7.36%
2/22/2013	9.75%	2.85%	4.73% -3.556516105	1.88%	16.89	6.90%
2/27/2013	10.00%	2.86%	4.73% -3.555309947	1.87%	16.85	7.14%
3/14/2013	9.30%	2.88%	4.72% -3.546517094	1.83% 1.80%	16.34 15.88	6.42%
3/27/2013	9.80%	2.90%	4.71% -3.539647787			6.90%
5/1/2013	9.84%	2.94%	4.65% -3.526125487	1.71%	15.25	6.90%
5/15/2013	10.30%	2.96%	4.64% -3.519540807	1.68%	15.02	7.34%
5/30/2013	10.20%	2.98%	4.64% -3.513066975	1.66%	14.88	7.22%
5/31/2013	9.00%	2.98%	4.64% -3.512192166	1.65%	14.89	6.02%
6/11/2013	10.00%	3.00%	4.64% -3.505315119	1.63%	14.96	7.00%
6/21/2013	9.75%	3.02%	4.65% -3.498759074	1.62%	14.99	6.73%
6/25/2013	9.80%	3.03%	4.65% -3.49675999	1.62%	15.02	6.77%
7/12/2013	9.36%	3.08%	4.68% -3.481789788	1.60%	15.07	6.28%
8/8/2013	9.83%	3.14%	4.73% -3.45936077	1.59%	14.82	6.69%
8/14/2013	9.15%	3.16%	4.75% -3.453855638	1.58%	14.72	5.99%
9/11/2013	10.25%	3.27%	4.83% -3.421529571	1.57%	14.57	6.98%
9/11/2013	10.20%	3.27%	4.83% -3.421529571	1.57%	14.57	6.93%
9/24/2013	10.20%	3.31%	4.87% -3.409215674	1.57%	14.47	6.89%
10/3/2013	9.65%	3.33%	4.90% -3.401082413	1.56%	14.45	6.32%
11/6/2013	10.20%	3.41%	4.96% -3.379044872	1.55%	14.40	6.79%
11/21/2013	10.00%	3.44%	4.99% -3.368809925	1.54%	14.36	6.56%
11/26/2013	10.00%	3.45%	4.99% -3.366096324	1.54%	14.36	6.55%
12/3/2013	10.25%	3.47%	5.00% -3.360895981	1.53%	14.38	6.78%
12/4/2013	9.50%	3.47%	5.01% -3.359715842	1.53%	14.38	6.03%
12/5/2013	10.20%	3.48%	5.01% -3.35846819	1.53%	14.38	6.72%
12/9/2013	8.72%	3.49%	5.01% -3.356206097	1.53%	14.34	5.23%
	J = /0	2	5.55520007			0.2070

12/9/2013	9.75%	3.49%	5.01%	-3.356206097	1.53%	14.34	6.26%
12/13/2013	9.75%	3.50%		-3.352419421	1.53%	14.34	6.25%
12/16/2013	9.95%	3.50%		-3.351442572	1.53%	14.35	6.45%
12/16/2013	9.95%	3.50%		-3.351442572	1.53%	14.35	6.45%
12/16/2013	10.12%	3.50%		-3.351442572	1.53%	14.35	6.62%
12/17/2013	9.50%	3.51%		-3.350513821	1.52%	14.37	5.99%
12/17/2013	10.95%	3.51%		-3.350513821	1.52%	14.37	7.44%
12/17/2013							
	8.72%	3.51%		-3.349557441	1.52%	14.37	5.21%
12/18/2013	9.80%	3.51%		-3.349557441	1.52%	14.37	6.29%
12/19/2013	10.15%	3.51%		-3.348558925	1.52%	14.38	6.64%
12/30/2013	9.50%	3.54%		-3.341237101	1.51%	14.41	5.96%
2/20/2014	9.20%	3.69%		-3.300809253	1.46%	14.62	5.51%
2/26/2014	9.75%	3.70%		-3.298142577	1.46%	14.65	6.05%
3/17/2014	9.55%	3.72%		-3.291654434	1.45%	14.72	5.83%
3/26/2014	9.40%	3.73%		-3.289458707	1.45%	14.66	5.67%
3/26/2014	9.96%	3.73%		-3.289458707	1.45%	14.66	6.23%
4/2/2014	9.70%	3.73%		-3.289430531	1.45%	14.58	5.97%
5/16/2014	9.80%	3.70%	5.11%	-3.296016163	1.40%	14.38	6.10%
5/30/2014	9.70%	3.68%	5.08%	-3.30223463	1.40%	14.35	6.02%
6/6/2014	10.40%	3.67%	5.07%	-3.304183446	1.40%	14.26	6.73%
6/30/2014	9.55%	3.64%	5.02%	-3.312939972	1.38%	13.95	5.91%
7/2/2014	9.62%	3.64%	5.01%	-3.313638177	1.38%	13.91	5.98%
7/10/2014	9.95%	3.63%	5.00%	-3.316024339	1.37%	13.86	6.32%
7/23/2014	9.75%	3.61%	4.97%	-3.321269779	1.36%	13.68	6.14%
7/29/2014	9.45%	3.60%	4.96%	-3.323360677	1.35%	13.57	5.85%
7/31/2014	9.90%	3.60%		-3.324172133	1.35%	13.55	6.30%
8/20/2014	9.75%	3.56%		-3.334006414	1.36%	13.61	6.19%
8/25/2014	9.60%	3.56%		-3.336650742	1.36%	13.59	6.04%
8/29/2014	9.80%	3.54%		-3.340939413	1.36%	13.57	6.26%
9/11/2014	9.60%	3.51%		-3.349211325	1.37%	13.57	6.09%
9/15/2014	10.25%	3.51%	4.87%	-3.35067505	1.37%	13.57	6.74%
10/9/2014	9.80%	3.44%		-3.368938807	1.39%	13.62	6.36%
				-3.390572121			
11/6/2014 11/6/2014	9.56%	3.37%		-3.390572121	1.41%	14.09	6.19%
	10.20%	3.37%			1.41%	14.09	6.83%
11/14/2014	10.20%	3.35%		-3.395556187	1.42%	13.94	6.85%
11/26/2014	9.70%	3.32%		-3.403705802	1.44%	13.82	6.38%
11/26/2014	10.20%	3.32%		-3.403705802	1.44%	13.82	6.88%
12/4/2014	9.68%	3.30%		-3.409936411	1.45%	13.78	6.38%
12/10/2014	9.25%	3.29%		-3.414456607	1.46%	13.80	5.96%
12/10/2014	9.25%	3.29%		-3.414456607	1.46%	13.80	5.96%
12/11/2014	10.07%	3.28%		-3.415853404	1.47%	13.83	6.79%
12/12/2014	10.20%	3.28%	4.75%	-3.417360316	1.47%	13.86	6.92%
12/17/2014	9.17%	3.27%	4.75%	-3.421672047	1.48%	13.96	5.90%
12/18/2014	9.83%	3.26%	4.74%	-3.422874511	1.48%	13.98	6.57%
1/23/2015	9.50%	3.14%	4.69%	-3.461973582	1.55%	14.37	6.36%
2/24/2015	9.83%	3.04%	4.65%	-3.494634623	1.62%	14.67	6.79%
3/18/2015	9.75%	2.98%	4.64%	-3.514002626	1.66%	14.90	6.77%
3/25/2015	9.50%	2.95%	4.63%	-3.521791091	1.67%	14.96	6.55%
3/26/2015	9.72%	2.95%	4.63%	-3.52324442	1.68%	14.98	6.77%
4/23/2015	10.20%	2.87%	4.61%	-3.551824778	1.74%	15.21	7.33%
4/29/2015	9.53%	2.86%	4.60%	-3.556018437	1.75%	15.22	6.67%
5/1/2015	9.60%	2.85%	4.60%	-3.55764862	1.75%	15.23	6.75%
5/26/2015	9.75%	2.83%	4.63%	-3.565489209	1.80%	15.16	6.92%
6/17/2015	9.00%	2.82%		-3.569012071	1.84%	15.30	6.18%
6/17/2015	9.00%	2.82%		-3.569012071	1.84%	15.30	6.18%
9/2/2015	9.50%	2.79%		-3.579016567	2.00%	15.68	6.71%
9/10/2015	9.30%	2.79%		-3.579283498	2.02%	15.99	6.51%
10/15/2015	9.00%	2.81%		-3.571012447	2.09%	16.66	6.19%
11/19/2015	10.30%	2.88%		-3.547076162	2.16%	16.28	7.42%
11/19/2015	10.00%	2.88%		-3.547076162	2.16%	16.28	7.12%
12/3/2015	10.00%	2.90%		-3.541396988	2.19%	16.28	7.10%
12/9/2015	9.14%	2.90%		-3.539568146	2.20%	16.33	6.24%
12/9/2015	9.14%	2.90%		-3.539568146	2.20%	16.33	6.24%
12/11/2015							
12/11/2015	10.30%	2.90%	5.12% 5.13%	-3.53922282 -3.538307892	2.21% 2.22%	16.42 16.50	7.40% 6.69%
12/15/2015	9.60%	2.91%		-3.537386373	2.23%		
	9.70%	2.91%				16.54	6.79%
12/18/2015	9.50%	2.91%		-3.536907801	2.23%	16.57	6.59%
12/30/2015	9.50%	2.93%		-3.530756888	2.25%	16.60	6.57%
1/6/2016	9.50%	2.94%		-3.526766416	2.26%	16.72	6.56%
2/23/2016	9.75%	2.94%		-3.528253531	2.40%	18.32	6.81%
3/16/2016	9.85%	2.91%		-3.537673349	2.45%	18.69	6.94%
4/29/2016	9.80%	2.83%		-3.563568465	2.47%	18.60	6.97%
6/3/2016	9.75%	2.80%		-3.573972869	2.43%	18.79	6.95%
6/8/2016	9.48%	2.80%		-3.576092552	2.43%	18.56	6.68%
6/15/2016	9.00%	2.79%		-3.580432911	2.42%	18.29	6.21%
6/15/2016	9.00%	2.79%		-3.580432911	2.42%	18.29	6.21%
				Average:	1.81%	20	
			C	Count:		748	

# Value Line Projected Sustainable Growth And Return On Common Equity

	Value Line				Value Line	
	Return on				Retained to	
	Common	Value Line	Retention Ratio		Common	
Company	Equity ("R")	Payout Ratio	("B")	BxR	Equity	Difference
ALE	8.50%	63.00%	37.00%	3.15%	3.00%	0.15%
LNT	12.50%	61.00%	39.00%	4.88%	5.50%	-0.63%
AVA	9.00%	63.00%	37.00%	3.33%	3.50%	-0.17%
ED	8.50%	69.00%	31.00%	2.64%	2.50%	0.14%
EIX	11.50%	54.00%	46.00%	5.29%	5.50%	-0.21%
ES	9.50%	58.00%	42.00%	3.99%	4.00%	-0.01%
IDA	9.00%	60.00%	40.00%	3.60%	3.50%	0.10%
NWE	10.00%	59.00%	41.00%	4.10%	4.00%	0.10%
OGE	12.00%	70.00%	30.00%	3.60%	3.50%	0.10%
POR	9.00%	56.00%	44.00%	3.96%	4.00%	-0.04%
WEC	11.00%	67.00%	33.00%	3.63%	3.50%	0.13%
XEL	10.50%	63.00%	37.00%	3.89%	4.00%	-0.12%
AVERAGE:	10.08%	61.92%	38.08%	3.84%	3.88%	-0.04%
MEDIAN:	9.75%	62.00%	38.00%	3.76%	3.75%	0.04%

Source: Value Line projections 2019-2021 period, as of June 30, 2016. Note: Retention Ratio equals 1 - Payout Ratio

# Mr. Baudino's Exhibit No.\_\_\_(RAB-7) Adjusted

# AS FILED:

AS FILED.		M-1 - 12	17-b 13	Malara I Sara		
		Value Line	Value Line	Value Line		
COMPANY	TICKER	DPS	EPS	BxR	Zacks	IBES
ALLETE, Inc.	ALE	3.50%	4.00%	3.00%	4.50%	3.00%
Alliant Energy Corporation	LNT	4.50%	6.00%	5.50%	6.10%	6.60%
Avista Corporation	AVA	4.00%	5.00%	3.50%	5.00%	5.00%
Consolidated Edison, Inc.	ED	3.00%	1.50%	2.50%	2.30%	1.89%
Edison International	EIX	9.00%	3.50%	5.50%	4.90%	2.45%
Eversource Energy	ES	6.00%	6.00%	4.00%	6.30%	6.01%
IDACORP, Inc.	IDA	7.50%	3.00%	3.50%	4.00%	4.00%
NorthWestern Corp.	NWE	5.50%	6.50%	4.00%	5.00%	5.00%
OGE Energy	OGE	9.50%	3.00%	3.50%	5.20%	4.30%
Portland General Electric Compar	ny POR	6.00%	5.50%	4.00%	6.40%	6.57%
WEC Energy	WEC	7.00%	6.00%	3.50%	6.30%	6.77%
Xcel Energy Inc.	XEL	6.00%	5.50%	4.00%	5.30%	5.27%
	Average	e: 5.96%	4.63%	3.88%	5.11%	4.74%
	Media	n: 6.00%	5.25%	3.75%	5.10%	5.00%

					Average of
	Value Line	Value Line		Thomson	All Growth
Method 1	DPS	EPS	Zacks	Financial	Rates
Dividend Yield	3.44%	3.44%	3.44%	3.44%	3.44%
Growth Rate	5.96%	4.63%	5.11%	4.74%	5.11%
Expected Div Yield	3.54%	3.52%	3.53%	3.52%	3.53%
DCF ROE	9.50%	8.14%	8.64%	8.26%	8.64%
				Midpoint:	8.82%
Method 2					
Dividend Yield	3.44%	3.44%	3.44%	3.44%	3.44%
Growth Rate	6.00%	5.25%	5.10%	5.00%	5.34%
Expected Div Yield	3.54%	3.53%	3.53%	3.53%	3.53%
DCF ROE	9.54%	8.78%	8.63%	8.53%	8.87%
				Midpoint:	9.03%

 $SOURCE: EXHIBIT\ NO. \underline{\hspace{1cm}} (RAB-7); differences\ due\ to\ rounding.$ 

EQUITY DURATION CALCULATION USING MR. BAUDINO'S DCF MODEL DATA

		6-Month		Mean	Constant														
		Average	Annual	Projected	Growth	Solved		Div	Div										
Company	Ticker	Price	Dividend	Growth Rate		ROE	Price	1	2	3	4	5	6	7	8	9	10	199	200
ALLETE	ALE	53.33	2.08	3.75%		7.72%	(\$53.33)	\$ 2.12	\$ 2.20	\$ 2.28	\$ 2.37	\$ 2.46	\$ 2.55	\$ 2.64	\$ 2.74	\$ 2.84	\$ 2.95		\$ 3,219.32
Alliant Energy	LNT	67.75	2.35	5.80%		9.37%	(\$67.75)	\$ 2.42	\$ 2.56	\$ 2.71	\$ 2.87	\$ 3.03	\$ 3.21	\$ 3.39	\$ 3.59	\$ 3.80			
Avista Corp.	AVA	38.11	1.37	4.75%	8.44%	8.43%	(\$38.11)	\$ 1.40	\$ 1.47	\$ 1.54	\$ 1.61	\$ 1.69	\$ 1.77	\$ 1.86	\$ 1.94	\$ 2.04	\$ 2.13		, , , , , ,
Consolidated Edison	ED	70.26	2.68	2.17%		6.03%	(\$70.26)	\$ 2.71	\$ 2.77	\$ 2.83	\$ 2.89	\$ 2.95	\$ 3.02	\$ 3.08	\$ 3.15	\$ 3.22	\$ 3.29		
Edison International	EIX	65.84	1.92	4.96%	7.95%	7.94%	(\$65.84)	\$ 1.97	\$ 2.07	\$ 2.17		\$ 2.39	\$ 2.51	\$ 2.63	\$ 2.76	\$ 2.90			
Eversoure Energy	ES	54.30	1.78	6.08%		9.45%	(\$54.30)	\$ 1.83	\$ 1.95	\$ 2.06	\$ 2.19	\$ 2.32	\$ 2.46	\$ 2.61	\$ 2.77		\$ 3.12		
IDACORP	IDA	70.54	2.04	4.63%		7.57%	(\$70.54)	\$ 2.09	\$ 2.18	\$ 2.28	\$ 2.39	\$ 2.50	\$ 2.62	\$ 2.74	\$ 2.86		\$ 3.14		
Northwestern Corp.	NWE	57.06		5.50%		9.10%	(\$57.06)	\$ 2.06	\$ 2.17	\$ 2.29	\$ 2.41		\$ 2.69	\$ 2.83	\$ 2.99		\$ 3.33		
OGE Energy	OGE	26.98		5.50%	9.69%	9.69%	(\$26.98)	\$ 1.13	\$ 1.19			\$ 1.40	\$ 1.48	\$ 1.56	\$ 1.64		\$ 1.83		, , , , , , , ,
Portland General Electric	POR	38.43	1.20	6.12%	9.34%	9.33%		\$ 1.24	\$ 1.31	\$ 1.39	\$ 1.48	\$ 1.57	\$ 1.66	\$ 1.77			\$ 2.11		, .
WEC Energy	WEC	55.70		6.52%		10.18%			\$ 2.18		\$ 2.47	\$ 2.63	\$ 2.80	\$ 2.99					
Xcel Energy	XEL	38.62	1.36	5.52%	9.14%	9.13%	(\$38.62)	\$ 1.40	\$ 1.47	\$ 1.56	\$ 1.64	\$ 1.73	\$ 1.83	\$ 1.93	\$ 2.04	\$ 2.15	\$ 2.27	\$ 58,023.96	\$ 61,225.43
Duration calculation																			
_							Equity	Div	Div										
Company	Ticker						Duration	11	2	3	4	5	6	7	8	9	10	199	200
ALLETE	ALE						26.99	0.04	0.07	0.10	0.13	0.16	0.18	0.21	0.23	0.25	0.26	0.00	0.00
Alliant Energy	LNT						30.32	0.03	0.06	0.09	0.12	0.14	0.17	0.19	0.21	0.23	0.24	0.01	0.01
Avista Corp.	AVA						29.19	0.03	0.07	0.10	0.12	0.15	0.17	0.19	0.21	0.23	0.25	0.01	0.01
Consolidated Edison	ED						27.36	0.04	0.07	0.10	0.13	0.16	0.18	0.20	0.22	0.24	0.26	0.00	0.00
Edison International	EIX						35.26	0.03	0.05	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.02	0.02
Eversoure Energy	ES						31.97	0.03	0.06	0.09	0.11	0.14	0.16	0.18	0.20	0.22	0.23	0.01	0.01
IDACORP	IDA						35.47	0.03	0.05	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.21	0.02	0.02
Northwestern Corp.	NWE						30.01	0.03	0.06	0.09	0.12	0.14	0.17	0.19	0.21	0.23	0.24	0.01	0.01
OGE Energy	OGE						26.09	0.04	0.07	0.11	0.14	0.16	0.19	0.21	0.23	0.25	0.27	0.00	0.00
Portland General Electric	POR						33.38	0.03	0.06	0.08	0.11	0.13	0.15	0.17	0.19	0.21	0.22	0.02	0.02
WEC Energy	WEC						29.76	0.03	0.06	0.09	0.12	0.15	0.17	0.19	0.21	0.23	0.25	0.01	0.01
Xcel Energy	XEL				i	A.,	29.89	0.03	0.06	0.09	0.12	0.14	0.17	0.19	0.21	0.23	0.24	0.01	0.01
						Average: Median:	30.47 29.95												
						iviedian:	∠9.95												

Notes:
Source: Exhibit No.\_\_\_(RAB-6) and Exhibit No.\_\_\_( RAB-7)
Mean projected growth rate excludes Mr. Baudino's Sustainable Growth rate since that rate was not used in his DCF calculations

Using Data As-Filed

$$D = \frac{\sum_{t=1}^{T} t \times \frac{CF_t}{(1+r)^t}}{P}$$

Where: t = time period (1 through 200)

CF = Cash Flow (i.e. dividend) at time t

r = ROE

P = Current Stock Price

## Duration of Treasury Bonds at Current Interest Rates

Start Date	6/30/2016	6/30/2016	6/30/2016	
Maturity Date	6/30/2046	6/30/2036	6/30/2021	
Term (years)	30	20	5	
Par	100	100	100	
Interest Rate	2.50%	2.07%	1.22%	(30-day average)
Excel Duration	21 46	16 57	4 88	

#### Man

lanual calculation (che	ck):																														
	Cash Flows																														
	Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	30year Treasury:	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	102.50
	20year Treasury:	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	102.07										
	5year Treasury:	1.22	1.22	1.22	1.22	101.22																									
<u>Duration</u>	Discounted Value	ue of Cash																													
21.46	30year Treasury:	2.44	2.38	2.32	2.26	2.21	2.15	2.10	2.05	2.00	1.95	1.90	1.86	1.81	1.77	1.73	1.68	1.64	1.60	1.56	1.53	1.49	1.45	1.42	1.38	1.35	1.32	1.28	1.25	1.22	48.89
16.57	20year Treasury:	2.03	1.99	1.95	1.91	1.87	1.83	1.80	1.76	1.72	1.69	1.65	1.62	1.59	1.56	1.52	1.49	1.46	1.43	1.40	67.71										
4.88	5year Treasury:	1.20	1.19	1.18	1.16	95.27																									

Notes:

Interest rates based on 30-day average; Source: Bloomberg Professional

$$D = \frac{\sum_{t=1}^{T} t \times \frac{CF_t}{(1+r)^t}}{P}$$

Where: t = time period CF = cash flow (i.e. coupon) at time t

r = discount rate

P = current price (assumed par)

DCF Model ROE Estimate Assuming Different Holding Periods and No Terminal Value

#### Perpetual Holding Period (200 years) Using Data As-Filed 6-Month Mean Projected Average Annual 5 2.46 3.03 1.69 2.95 2.39 2.28 2.71 1.54 2.83 2.17 2.55 3.21 1.77 3.02 2.51 Price 53.33 67.75 ROE 7.72% 9.37% 10 2.95 4.02 Company ALLETE Dividend Growth Rate 3.75% DCF ROE 199 3,102.96 200 3,219.32 2.20 2.56 1.47 2.77 2.07 1.95 2.18 2.17 1.19 1.31 2.18 1.47 2.37 2.87 1.61 2.89 2.28 2.19 2.39 ALE LNT 2.12 2.42 1.40 2.71 1.97 1.83 2.09 2.64 2.74 3.59 1.94 3.15 2.76 2.77 2.86 2.84 3.80 \*\*\*\* 3.39 1.86 3.08 2.63 2.61 2.74 170.614.09 180.509.71 Alliant Energy 2.35 5.80% 9.37% 5 5 5 5 5 5 5 5 5 5 2.04 3.22 2.90 2.94 Avista Corp. Consolidated Edison Edison International AVA ED EIX ES IDA 38.11 70.26 65.84 54.30 70.54 1.37 2.68 1.92 1.78 2.04 4.75% 2.17% 4.96% 6.08% 8.43% 6.03% 7.94% 9.45% 7.57% 2.13 3.29 3.04 3.12 3.14 13,741.88 190.97 28,754.81 217,184.69 14,394.62 195.12 30,181.77 9.46% 7.58% 2.06 2.28 2.29 1.26 1.39 2.32 1.56 2.32 2.50 2.55 1.40 1.57 2.63 1.73 230,384.09 Eversource Energy IDACORP \$ \$ \$ \$ \$ \$ \$ \$ 2.46 2.62 16.866.21 4.63% 5.50% (\$70.54) 3.00 16.120.63 Northwestern Corp. OGE Energy Portland General Electric WEC Energy Xcel Energy NEW OGE POR WEC XEL 57.06 26.98 38.43 55.70 38.62 2.00 1.10 1.20 1.98 1.36 (\$70.34) (\$57.06) (\$26.98) (\$38.43) (\$55.70) (\$38.62) 2.06 1.13 1.24 2.04 1.40 2.41 1.33 1.48 2.47 1.64 2.69 1.48 1.66 2.80 1.83 2.83 1.56 1.77 2.99 1.93 2.99 1.64 1.87 3.18 2.04 3.15 1.73 1.99 3.39 2.15 3.33 1.83 2.11 3.61 2.27 9.10% 9.69% 9.10% 9.69% 82,565.54 45,411.05 87,106.65 47,908.66 5.50% 9.69% 9.34% 10.19% 9.14% Mean: Median: 6.12% 6.52% 5.52% 9.69% 9.33% 10.18% 9.13% 8.66% 9.11% 47,908.66 167,448.44 585,280.51 61,225.43 Twenty Year Holding Period Solved ROE 1.24% 2.12% 1.47% -0.42% -0.13% 6-Month Mean Constant Div 5 2.46 3.03 1.69 2.95 2.20 Div 6 2.55 3.21 1.77 3.02 Div 8 2.74 3.59 1.94 3.15 2.70 Div 9 2.84 3.80 2.04 3.22 Div 4 2.37 2.87 1.61 2.89 Div 10 2.95 4.02 2.13 3.29 Average Price 53.33 67.75 Div 1 2.12 2.42 1.40 2.71 1.97 1.83 2.09 2.06 1.13 1.24 2.04 Div 2.08 2.35 1.37 2.68 1.92 1.78 2.04 2.00 1.10 1.20 2 2.20 2.56 1.47 2.77 2.28 2.71 1.54 2.83 7 2.64 3.39 1.86 3.08 ALE LNT AVA ED 4.11 6.68 3.24 4.26 7.06 3.39 4.08 4.94 5.63 4.93 5.68 3.13 3.82 6.79 (\$53.33) (\$67.75) (\$38.11) \*\*\* 5555555555555 \*\*\*\* \*\*\*\* \*\*\* \*\*\* \*\*\*\* \*\*\*\* Alliant Energy 4.75% 2.17% 4.96% 6.08% 4.63% 5.50% Avista Corp. Consolidated Edison 38.11 70.26 6.03% 3.22 3.99 -0.42% -0.13% 1.88% -0.51% 1.92% 3.28% (\$70.26) (\$65.84) (\$54.30) (\$70.54) (\$57.06) (\$26.98) 2.95 2.39 2.32 2.50 2.55 1.40 1.57 2.51 2.46 2.62 2.69 1.48 1.66 3.29 3.04 3.12 3.14 3.33 1.83 2.11 Edison International Eversource Energy IDACORP Northwestern Corp. 65.84 54.30 70.54 57.06 26.98 4.71 5.30 4.71 5.39 2.96 EIX ES IDA NEW OGE POR WEC 7.95% 2.07 1.95 2.18 2.17 1.19 1.31 2.18 2.17 2.06 2.28 2.29 1.26 1.39 2.32 2.28 2.19 2.39 2.41 1.33 1.48 2.47 1.64 2.63 2.61 2.74 2.83 1.56 1.77 2.99 2.76 2.77 2.86 2.99 1.64 1.87 3.18 2.90 2.94 3.00 3.15 1.73 1.99 3.39 \$ \$ \$ \$ \$ \$ \$ \$ SSSSSSSSSS 9.46% 7.58% 9.10% 9.69% OGE Energy Portland General Electric WEC Energy Xcel Energy 38.43 55.70 6.12% 6.52% 9.34% 1.50% 2.99% (\$38.43) 3.60 10.19% 2.63 2.80 3.61 6.37 9.14% Mean: Median: 1.98% 1.44% 1.69% 5.52% Five Year Holding Period 6-Month Mean Constant Average Annual Projected Growth Solved Div Solved ROE -35.69% -36.50% -36.46% -36.90% -39.66% -37.28% Price 53.33 67.75 38.11 70.26 65.84 Company ALLETE Alliant Energy Avista Corp. Consolidated Edison Edison International Dividend 2.08 2.35 1.37 2.68 1.92 1.78 2.04 2.00 1.10 1.20 1.98 1.36 2.28 2.71 1.54 2.83 DCF ROE 7.72 5 2.46 3.03 1.69 2.95 2.39 2.32 2.50 2.55 2.12 2.42 1.40 2.71 1.97 1.83 2.37 2.87 1.61 2.89 2.28 2.19 ALE LNT AVA ED EIX ES IDA NEW OGE POR WEC XEL \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \*\*\*\* 9.37% 8.44% 6.03% 2.56 1.47 2.77 2.07 1.95 2.18 2.17 1.19 1.31 2.18 1.47 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 4.75% 2.17% 4.96% (\$70.26) (\$65.84) 7.95% 2.17 2.06 54.30 70.54 57.06 6.08% Eversource Energy IDACORP 9.46% 7.58% 2.09 2.06 1.13 1.24 2.04 1.40 2.28 2.29 1.26 1.39 2.32 1.56 2.19 2.39 2.41 1.33 1.48 2.47 1.64 (\$70.54) 4.63% 5.50% -39.96% -36.50% Northwestern Corp 9.10% OGE Energy Portland General Electric WEC Energy Xcel Energy 26.98 38.43 55.70 38.62 5.50% 6.12% 6.52% 5.52% 9.69% 9.34% 10.19% 9.14% Mean: -33.99% -38.02% -35.74% -36.42% -36.93% 1.40 1.57 2.63 1.73

Notes:
Source: Exhibit No.\_\_(RAB-6) and Exhibit No.\_\_( RAB-7)
Mean projected growth rate excludes Mr. Baudino's Sustainable Growth rate since that rate was not used in his DCF calculations

Median

-36.50%

# R-Squared of Beta Coefficient Regressions for Mr. Baudino's Proxy Group: Value Line Methodology

Company	Ticker	R-Squared of Beta Coefficient
ALLETE, Inc. Alliant Energy Corporation Avista Corporation Consolidated Edison, Inc. Edison International Eversource Energy IDACORP, Inc. NorthWestern Corporation OGE Energy Corp. Portland General Electric Company WEC Energy Group, Inc.	ALE LNT AVA ED EIX ES IDA NWE OGE POR WEC	0.2556 0.2146 0.2359 0.0468 0.1443 0.1868 0.2941 0.2257 0.2426 0.2204 0.1147
Xcel Energy Inc.  Mean	XEL	0.1258

# Notes:

Source: Bloomberg Professional; Beta coefficients were calculated using Value Line's methodology which derives the Beta coefficient from a regression analysis of the relationship between weekly percentage changes in the price of a stock and weekly percentage changes in the NYSE Composite Index over a period of five years.

## Bond Yield Plus Risk Premium Analysis Applying 95.00% Confidence Interval

	[1]	[2]	[3]	[4]	[5]
_	Constant	Slope	30-Year Treasury Yield	Risk Premium	Return on Equity
Current	-2.70%	-2.78%	2.50%	7.53%	10.04%
Blue Chip Financial Forecast 2017 Projection Blue Chip Financial Forecast 2020 Projection	-2.70% -2.70%	-2.78% -2.78%	3.40% 4.40%	6.68% 5.97%	10.08% 10.37%

	95% Confide	ence Interval
	[6]	[7]
	Lower	Upper
	Bound	Bound
	Return on	Return on
	Equity	Equity
	Equity	Equity
	Equity	Lquity
•	9.47%	10.61%
•	' '	<u> </u>
•	9.47%	10.61%

## SUMMARY OUTPUT

Regression Statistic	S
Multiple R	0.843796
R Square	0.711991
Adjusted R Square	0.711796
Standard Error	0.008539
Observations	1475

## ANOVA

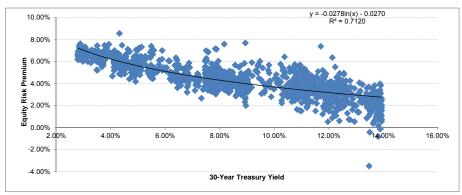
	df	SS	MS	F	Signif. F
Regression	1	0.265541	0.265541	3641.432302	0.000000
Residual	1473	0.107414	0.000073		
Total	1474	0.372955			

		Standard			Lower	Upper
	Coefficients	Error	t Stat	P-value	95%	95%
Intercept	-0.027000	0.001215	-22.220102	0.000000	-0.029384	-0.024617
X Variable 1	-0.027751	0.000460	-60.344281	0.000000	-0.028654	-0.026849

- Notes:
  [1] Constant of regression equation
  [2] Slope of regression equation
- [3] Source: Current = Bloomberg Professional,

Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017. Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.

- [4] Equals [1] + [2] x ln([3])
- [5] Equals [3] + [4]
- [6] Using 95% confidence interval data reported in regression output: (lower bound constant + LN([3]) x upper bound slope) + [3]
- [7] Using 95% confidence interval data reported in regression output: ( upper bound constant + LN([3]) x lower bound slope ) + [3]



Source: RBH-12

		Average 30-	
Date of		Year	
Electric Rate	Return on	Treasury	
Case	Equity	Yield	Risk Premium
1/1/1980	14.50%	9.36%	5.14%
1/7/1980	14.39%	9.38%	5.01%
1/9/1980	15.00%	9.40%	5.60%
1/14/1980	15.17%	9.42%	5.75%
1/17/1980	13.93%	9.44%	4.49%
1/23/1980	15.50%	9.47%	6.03%
1/30/1980	13.86%	9.52%	4.34%
1/31/1980	12.61%	9.53%	3.08%
2/6/1980	13.71%	9.58%	4.13%
2/13/1980	12.80%	9.63%	3.17%
2/14/1980	13.00%	9.65%	3.35%
2/19/1980	13.50%	9.68%	3.82%
2/27/1980	13.75%	9.78%	3.97%

2/29/1980	13.75%	9.81%	3.94%
		9.81%	
2/29/1980	14.00%		4.19%
2/29/1980	14.77%	9.81%	4.96%
3/7/1980	12.70%	9.89%	2.81%
3/14/1980	13.50%	9.97%	3.53%
3/26/1980	14.16%	10.10%	4.06%
3/27/1980	14.24%	10.12%	4.12%
3/28/1980	14.50%	10.13%	4.37%
4/11/1980	12.75%	10.27%	2.48%
4/14/1980	13.85%	10.29%	3.56%
4/16/1980	15.50%	10.31%	5.19%
4/22/1980	13.25%	10.35%	2.90%
4/22/1980	13.90%	10.35%	3.55%
4/24/1980	16.80%	10.38%	6.43%
4/29/1980	15.50%	10.41%	5.09%
5/6/1980	13.70%	10.45%	3.25%
5/7/1980	15.00%	10.45%	4.55%
5/8/1980	13.75%	10.46%	3.29%
5/9/1980	14.35%	10.47%	3.88%
5/13/1980	13.60%	10.48%	3.12%
5/15/1980	13.25%	10.49%	2.76%
5/19/1980	13.75%	10.51%	3.24%
5/27/1980	13.62%	10.54%	3.08%
5/27/1980	14.60%	10.54%	4.06%
5/29/1980	16.00%	10.56%	5.44%
5/30/1980	13.80%	10.56%	3.24%
6/2/1980	15.63%	10.57%	5.06%
6/9/1980	15.90%	10.60%	5.30%
6/10/1980	13.78%	10.60%	3.18%
6/12/1980	14.25%	10.61%	3.64%
6/19/1980	13.40%	10.62%	2.78%
6/30/1980	13.00%	10.65%	2.35%
6/30/1980	13.40%	10.65%	2.75%
7/9/1980	14.75%	10.67%	4.08%
7/10/1980	15.00%	10.68%	4.32%
7/15/1980	15.80%	10.70%	5.10%
7/18/1980	13.80%	10.71%	3.09%
7/22/1980	14.10%	10.72%	3.38%
7/24/1980	15.00%	10.73%	4.27%
7/25/1980	13.48%	10.73%	2.75%
7/31/1980	14.58%	10.75%	3.83%
8/8/1980	13.50%	10.78%	2.72%
8/8/1980	14.00%	10.78%	3.22%
8/8/1980	15.45%	10.78%	4.67%
8/11/1980	14.85%	10.78%	4.07%
8/14/1980	14.00%	10.79%	3.21%
8/14/1980	16.25%	10.79%	5.46%
8/25/1980	13.75%	10.82%	2.93%
8/27/1980	13.80%	10.83%	2.97%
8/29/1980	12.50%	10.84%	1.66%
9/15/1980	13.50%	10.88%	2.62%
9/15/1980	13.93%	10.88%	3.05%
9/15/1980	15.80%	10.88%	4.92%
9/24/1980	12.50%	10.93%	1.57%
9/24/1980	15.00%	10.93%	4.07%
9/26/1980	13.75%	10.94%	2.81%
9/30/1980	14.10%	10.96%	3.14%
9/30/1980	14.20%	10.96%	3.24%
10/1/1980			
	13.90%	10.97%	2.93%
10/3/1980	15.50%	10.98%	4.52%
10/7/1980	12.50%	10.99%	1.51%
10/9/1980	13.25%	11.00%	2.25%
10/9/1980	14.50%	11.00%	3.50%
10/9/1980	14.50%	11.00%	3.50%
10/16/1980	16.10%	11.02%	5.08%
10/17/1980	14.50%	11.03%	3.47%
10/31/1980	13.75%	11.11%	2.64%
10/31/1980			
	14.25%	11.11%	3.14%
11/4/1980	15.00%	11.12%	3.88%
11/5/1980	13.75%	11.12%	2.63%
11/5/1980	14.00%	11.12%	2.88%
11/8/1980	13.75%	11.14%	2.61%
11/10/1980	14.85%	11.15%	3.70%
11/17/1980	14.00%	11.18%	2.82%
11/18/1980	14.00%	11.19%	2.81%
11/19/1980	13.00%	11.19%	1.81%
11/24/1980	14.00%	11.21%	2.79%
11/26/1980	14.00%	11.21%	2.79%
12/8/1980	14.15%	11.22%	2.93%
12/8/1980	15.10%	11.22%	3.88%
12/9/1980	15.35%	11.22%	4.13%
12/12/1980	15.45%	11.23%	4.22%
12/17/1980	13.25%	11.23%	2.02%
/ 1// 1800	10.20/0	11.23/0	2.02/0

12/18/1980	15.80%	11.23%	4.57%
12/19/1980	14.50%	11.23%	3.27%
12/19/1980	14.64%	11.23%	3.41%
12/22/1980	13.45%	11.23%	2.22%
12/22/1980	15.00%	11.23%	3.77%
12/30/1980	14.50%	11.22%	3.28%
12/30/1980	14.95%	11.22%	3.73%
12/31/1980	13.39%	11.22%	2.17%
1/2/1981	15.25%	11.22%	4.03%
1/7/1981	14.30%	11.21%	3.09%
1/19/1981	15.25%	11.20%	4.05%
1/23/1981	13.10%	11.20%	1.90%
1/23/1981	14.40%	11.20%	3.20%
1/26/1981	15.25%	11.20%	4.05%
1/27/1981	15.20%	11.21%	3.79%
1/31/1981			
	13.47% 15.25%	11.22% 11.23%	2.25% 4.02%
2/3/1981			
2/5/1981	15.75%	11.25%	4.50%
2/11/1981	15.60%	11.28%	4.32%
2/20/1981	15.25%	11.33%	3.92%
3/11/1981	15.40%	11.49%	3.91%
3/12/1981	14.51%	11.50%	3.01%
3/12/1981	16.00%	11.50%	4.50%
3/13/1981	13.02%	11.52%	1.50%
3/18/1981	16.19%	11.55%	4.64%
3/19/1981	13.75%	11.56%	2.19%
3/23/1981	14.30%	11.58%	2.72%
3/25/1981	15.30%	11.60%	3.70%
4/1/1981	14.53%	11.68%	2.85%
4/3/1981	19.10%	11.71%	7.39%
4/9/1981	15.00%	11.78%	3.22%
4/9/1981	15.30%	11.78%	3.52%
4/9/1981	16.50%	11.78%	4.72%
4/9/1981	17.00%	11.78%	5.22%
4/10/1981	13.75%	11.80%	1.95%
4/13/1981	13.57%	11.82%	1.75%
4/15/1981	15.30%	11.85%	3.45%
4/16/1981	13.50%	11.87%	1.63%
4/17/1981	14.10%	11.87%	2.23%
4/21/1981	14.00%	11.90%	2.10%
4/21/1981	16.80%	11.90%	4.90%
4/24/1981	16.00%	11.95%	4.05%
4/27/1981	12.50%	11.97%	0.53%
4/27/1981	13.61%	11.97%	1.64%
4/29/1981	13.65%	12.00%	1.65%
4/30/1981	13.50%	12.02%	1.48%
5/4/1981	16.22%	12.05%	4.17%
5/5/1981	14.40%	12.07%	2.33%
5/7/1981	16.25%	12.11%	4.14%
5/7/1981	16.27%	12.11%	4.16%
5/8/1981	13.00%	12.13%	0.87%
5/8/1981	16.00%	12.13%	3.87%
5/12/1981	13.50%	12.16%	1.34%
5/15/1981	15.75%	12.22%	3.53%
5/18/1981	14.88%	12.23%	2.65%
5/20/1981	16.00%	12.26%	3.74%
5/21/1981	14.00%	12.27%	1.73%
5/26/1981	14.90%	12.30%	2.60%
5/27/1981	15.00%	12.31%	2.69%
5/29/1981	15.50%	12.34%	3.16%
6/1/1981	16.50%	12.35%	4.15%
6/3/1981	14.67%	12.37%	2.30%
6/5/1981	13.00%	12.39%	0.61%
6/10/1981	16.75%	12.42%	4.33%
6/17/1981	14.40%	12.46%	1.94%
6/18/1981	16.33%	12.47%	3.86%
6/25/1981	14.75%	12.51%	2.24%
6/26/1981	16.00%	12.52%	3.48%
6/30/1981	15.25%	12.54%	2.71%
7/1/1981	15.50%	12.56%	2.94%
7/1/1981	17.50%	12.56%	4.94%
7/10/1981	16.00%	12.62%	3.38%
7/10/1981	16.00%	12.64%	4.26%
7/14/1981	16.00%	12.65%	3.35%
7/15/1981	15.00%	12.67%	2.33%
7/17/1981	15.00%	12.68%	2.32%
7/20/1981	14.00%	12.69%	1.31%
7/21/1961	13.48%	12.74%	0.74%
7/20/1901	13.46%	12.74%	0.74%
7/31/1981	15.00%	12.78%	2.22%
7/31/1981	16.00%	12.78%	3.22%
8/5/1981	15.71%	12.76%	2.88%
8/10/1981	14.50%	12.87%	1.63%
G, 10, 100 I	1-1.50 /0	12.01/0	1.5570

8/11/1981	15.00%	12.88%	2.12%
8/20/1981	13.50%	12.95%	0.55%
8/20/1981	16.50%	12.95%	3.55%
8/24/1981	15.00%	12.97%	2.03%
8/28/1981	15.00%	13.01%	1.99%
9/3/1981	14.50%	13.05%	1.45%
9/10/1981	14.50%	13.11%	1.39%
9/11/1981	16.00%	13.12%	2.88%
9/16/1981	16.00%	13.15%	2.85%
9/17/1981	16.50%	13.16%	3.34%
9/23/1981	15.85%	13.20%	2.65%
9/28/1981	15.50%	13.23%	2.27%
10/9/1981	15.75%	13.33%	2.42%
10/15/1981	16.25%	13.37%	2.88%
10/16/1981	15.50%	13.38%	2.12%
10/16/1981	16.50%	13.38%	3.12%
10/19/1981	14.25%	13.39%	0.86%
10/20/1981	15.25%	13.41%	1.84%
10/20/1981	17.00%	13.41%	3.59%
10/23/1981	16.00%	13.45%	2.55%
10/27/1981	10.00%	13.48%	-3.48%
10/29/1981	14.75%	13.51%	1.24%
10/29/1981	16.50%	13.51%	2.99%
11/3/1981	15.17%	13.53%	1.64%
11/5/1981	16.60%	13.55%	3.05%
11/6/1981	15.17%	13.56%	1.61%
11/24/1981	15.50%	13.61%	1.89%
11/25/1981	15.25%	13.61%	1.64%
11/25/1981	15.35%	13.61%	1.74%
11/25/1981	16.10%	13.61%	2.49%
11/25/1981	16.10%	13.61%	2.49%
12/1/1981	15.70%	13.61%	2.09%
12/1/1981	16.00%	13.61%	2.39%
12/1/1981	16.49%	13.61%	2.88%
12/1/1981	16.50%	13.61%	2.89%
12/4/1981	16.00%	13.61%	2.39%
12/11/1981	16.25%	13.63%	2.62%
12/14/1981	14.00%	13.63%	0.37%
12/15/1981	15.81%	13.63%	2.18%
12/15/1981	16.00%	13.63%	2.37%
12/16/1981	15.25%	13.63%	1.62%
12/17/1981	16.50%	13.63%	2.87%
12/18/1981	15.45%	13.63%	1.82%
12/30/1981	14.25%	13.67%	0.58%
12/30/1981	16.00%	13.67%	2.33%
12/30/1981			2.58%
	16.25%	13.67%	
12/31/1981	16.15%	13.67%	2.48%
1/4/1982	15.50%	13.67%	1.83%
1/11/1982	14.50%	13.72%	0.78%
1/11/1982	17.00%	13.72%	3.28%
1/13/1982		13.74%	1.01%
	14.75%		
1/14/1982	15.75%	13.75%	2.00%
1/15/1982	15.00%	13.76%	1.24%
1/15/1982	16.50%	13.76%	2.74%
1/22/1982	16.25%	13.79%	2.46%
1/27/1982	16.84%		
		13.81%	3.03%
1/28/1982	13.00%	13.81%	-0.81%
1/29/1982	15.50%	13.82%	1.68%
2/1/1982	15.85%	13.82%	2.03%
2/3/1982	16.44%	13.84%	2.60%
2/8/1982	15.50%	13.86%	1.64%
2/11/1982	16.00%	13.88%	2.12%
2/11/1982	16.20%	13.88%	2.32%
2/17/1982	15.00%	13.89%	1.11%
2/19/1982	15.17%	13.89%	1.28%
2/26/1982	15.25%	13.89%	1.36%
3/1/1982	15.03%	13.89%	1.14%
3/1/1982	16.00%	13.89%	2.11%
3/3/1982	15.00%	13.88%	1.12%
3/8/1982	17.10%	13.88%	3.22%
3/12/1982	16.25%	13.88%	2.37%
3/17/1982	17.30%	13.88%	3.42%
3/22/1982	15.10%	13.89%	1.21%
3/27/1982	15.40%	13.89%	1.51%
3/30/1982	15.50%	13.90%	1.60%
3/31/1982	17.00%	13.91%	3.09%
4/1/1982	14.70%	13.91%	0.79%
4/1/1982	16.50%	13.91%	2.59%
4/2/1982	15.50%	13.91%	1.59%
4/5/1982	15.50%	13.92%	1.58%
4/8/1982	16.40%	13.93%	2.47%
4/13/1982	14.50%	13.94%	0.56%
4/23/1982	15.75%	13.94%	1.81%

4/27/1982	15.00%	13.94%	1.06%
4/28/1982	15.75%	13.94%	1.81%
4/30/1982	14.70%	13.94%	0.76%
4/30/1982	15.50%	13.94%	1.56%
5/3/1982	16.60%	13.94%	2.66%
5/4/1982	16.00%	13.94%	2.06%
5/14/1982	15.50%	13.92%	1.58%
5/18/1982	15.42%	13.92%	1.50%
5/19/1982	14.69%	13.92%	0.77%
5/20/1982	15.00%	13.91%	1.09%
5/20/1982	15.10%	13.91%	1.19%
5/20/1982	15.50%	13.91%	1.59%
5/20/1982	16.30%	13.91%	2.39%
5/21/1982	17.75%	13.91%	3.84%
5/27/1982	15.00%	13.89%	1.11%
5/28/1982	15.50%	13.89%	1.61%
5/28/1982	17.00%	13.89%	3.11%
6/1/1982	13.75%	13.89%	-0.14%
6/1/1982	16.60%	13.89%	2.71%
6/9/1982	17.86%	13.88%	3.98%
6/14/1982	15.75%	13.88%	1.87%
6/15/1982	14.85%	13.88%	0.97%
6/18/1982	15.50%	13.87%	1.63%
6/21/1982	14.90%	13.87%	1.03%
6/23/1982		13.86%	2.14%
6/23/1982	16.00%		
6/23/1982	16.17% 14.85%	13.86% 13.86%	2.31% 0.99%
		13.86%	
6/25/1982 7/1/1982	14.70%	13.86%	0.84%
	16.00%	13.84%	2.16%
7/2/1982	15.62%		1.78% 3.16%
7/2/1982	17.00%	13.84%	
7/13/1982 7/13/1982	14.00%	13.82% 13.82%	0.18%
	16.80%		2.98%
7/14/1982	15.76%	13.82%	1.94%
7/14/1982	16.02%	13.82%	2.20%
7/19/1982	16.50%	13.80%	2.70%
7/22/1982	14.50%	13.77%	0.73%
7/22/1982	17.00%	13.77%	3.23%
7/27/1982	16.75%	13.75%	3.00%
7/29/1982	16.50%	13.74%	2.76%
8/11/1982	17.50%	13.68%	3.82%
8/18/1982	17.07%	13.63%	3.44%
8/20/1982	15.73%	13.60%	2.13%
8/25/1982	16.00%	13.57%	2.43%
8/26/1982	15.50%	13.56%	1.94%
8/30/1982	15.00%	13.55%	1.45%
9/3/1982	16.20%	13.53%	2.67%
9/8/1982	15.00%	13.52%	1.48%
9/15/1982	13.08%	13.50%	-0.42%
9/15/1982	16.25%	13.50%	2.75%
9/16/1982	16.00%	13.50%	2.50%
9/17/1982	15.25%	13.50%	1.75%
9/23/1982	17.17%	13.47%	3.70%
9/24/1982	14.50%	13.46%	1.04%
9/27/1982	15.25%	13.46%	1.79%
10/1/1982	15.50%	13.42%	2.08%
10/15/1982	15.90%	13.32%	2.58%
10/22/1982	15.75%	13.24%	2.51%
10/22/1982	17.15%	13.24%	3.91%
10/29/1982	15.54%	13.16%	2.38%
11/1/1982	15.50%	13.15%	2.35%
11/3/1982	17.20%	13.13%	4.07%
11/4/1982	16.25%	13.11%	3.14%
11/5/1982	16.20%	13.09%	3.11%
11/9/1982	16.00%	13.05%	2.95%
11/23/1982	15.50%	12.89%	2.61%
11/23/1982	15.85%	12.89%	2.96%
11/30/1982	16.50%	12.81%	3.69%
12/1/1982	17.04%	12.79%	4.25%
12/6/1982	15.00%	12.73%	2.27%
12/6/1982	16.35%	12.73%	3.62%
12/10/1982	15.50%	12.66%	2.84%
12/13/1982	16.00%	12.65%	3.35%
12/14/1982	15.30%	12.63%	2.67%
12/14/1982	16.40%	12.63%	3.77%
12/20/1982	16.00%	12.57%	3.43%
12/21/1982	14.75%	12.56%	2.19%
12/21/1982	15.85%	12.56%	3.29%
12/22/1982	16.25%	12.54%	3.71%
12/22/1982	16.58%	12.54%	4.04%
12/22/1982	16.75%	12.54%	4.21%
12/29/1982	14.90%	12.48%	2.42%
12/29/1982	16.25%	12.48%	3.77%

12/30/1982	16.00%	12.47%	3.53%
12/30/1982	16.35%	12.47%	3.88%
12/30/1982	16.77%	12.47%	4.30%
1/5/1983	17.33%	12.40%	4.93%
1/11/1983	15.90%	12.34%	3.56%
1/12/1983	14.63%	12.33%	2.30%
1/12/1983	15.50%	12.33%	3.17%
1/20/1983	17.75%	12.24%	5.51%
1/21/1983			
	15.00%	12.22%	2.78%
1/24/1983	14.50%	12.21%	2.29%
1/24/1983	15.50%	12.21%	3.29%
1/25/1983	15.85%	12.19%	3.66%
1/27/1983	16.14%	12.17%	3.97%
2/1/1983	18.50%	12.13%	6.37%
2/4/1983	14.00%	12.10%	1.90%
2/10/1983	15.00%	12.06%	2.94%
2/21/1983	15.50%	11.98%	3.52%
2/22/1983	15.50%	11.97%	3.53%
2/23/1983	15.10%	11.96%	3.14%
2/23/1983	16.00%	11.96%	4.04%
3/2/1983	15.25%	11.89%	3.36%
3/9/1983	15.20%	11.82%	3.38%
3/15/1983	13.00%	11.77%	1.23%
3/18/1983	15.25%	11.73%	3.52%
3/23/1983	15.40%	11.69%	3.71%
3/24/1983	15.00%	11.67%	3.33%
3/29/1983	15.50%	11.63%	3.87%
3/30/1983	16.71%	11.61%	5.10%
3/31/1983	15.00%	11.59%	3.41%
4/4/1983	15.20%	11.58%	3.62%
4/8/1983	15.50%	11.51%	3.99%
4/11/1983	14.81%	11.49%	3.32%
4/19/1983	14.50%	11.38%	3.12%
4/20/1983	16.00%	11.36%	4.64%
4/29/1983	16.00%	11.24%	4.76%
5/1/1983	14.50%	11.24%	3.26%
5/9/1983	15.50%	11.15%	4.35%
5/11/1983	16.46%	11.12%	5.34%
5/12/1983	14.14%	11.11%	3.03%
5/18/1983	15.00%	11.05%	3.95%
5/23/1983	14.90%	11.01%	3.89%
5/23/1983	15.50%	11.01%	4.49%
5/25/1983	15.50%	10.98%	4.52%
5/27/1983	15.00%	10.96%	4.04%
5/31/1983	14.00%	10.95%	3.05%
5/31/1983	15.50%	10.95%	4.55%
6/2/1983	14.50%	10.93%	3.57%
6/17/1983	15.03%	10.84%	4.19%
7/1/1983	14.80%	10.78%	4.02%
7/1/1983	14.90%	10.78%	4.12%
7/8/1983			
	16.25%	10.76%	5.49%
7/13/1983	13.20%	10.75%	2.45%
7/19/1983	15.00%	10.74%	4.26%
7/19/1983	15.10%	10.74%	4.36%
7/25/1983	16.25%	10.73%	5.52%
7/28/1983	15.90%		
		10.74%	5.16%
8/3/1983	16.34%	10.75%	5.59%
8/3/1983	16.50%	10.75%	5.75%
8/19/1983	15.00%	10.80%	4.20%
8/22/1983	15.50%	10.80%	4.70%
8/22/1983	16.40%	10.80%	5.60%
8/31/1983	14.75%	10.84%	3.91%
9/7/1983	15.00%	10.86%	4.14%
9/14/1983	15.78%	10.89%	4.89%
9/16/1983	15.00%	10.90%	4.10%
9/19/1983	14.50%	10.91%	3.59%
9/20/1983	16.50%	10.91%	5.59%
9/28/1983	14.50%	10.94%	3.56%
9/29/1983	15.50%	10.95%	4.55%
9/30/1983	15.25%	10.95%	4.30%
9/30/1983	16.15%	10.95%	5.20%
10/4/1983	14.80%	10.96%	3.84%
10/7/1983	16.00%	10.97%	5.03%
10/13/1983	15.52%	10.99%	4.53%
10/17/1983	15.50%	11.00%	4.50%
10/18/1983	14.50%	11.00%	3.50%
10/19/1983	16.25%	11.01%	5.24%
10/19/1983	16.50%	11.01%	5.49%
10/26/1983	15.00%	11.04%	3.96%
10/27/1983	15.20%	11.04%	4.16%
11/1/1983	16.00%	11.06%	4.94%
11/9/1983	14.90%	11.09%	3.81%
11/10/1983	14.35%	11.10%	3.25%
11/10/1903	17.00/0	11.10/0	J.ZJ/0

11/23/1983	16.00%	11.13%	4.87%
11/23/1983	16.15%	11.13%	5.02%
11/30/1983	15.00%	11.14%	3.86%
12/5/1983	15.25%	11.15%	4.10%
12/6/1983	15.07%	11.15%	3.92%
12/8/1983	15.90%	11.16%	4.74%
12/9/1983	14.75%	11.17%	3.58%
12/12/1983	14.50%	11.17%	3.33%
12/15/1983	15.56%	11.19%	4.37%
12/19/1983	14.80%	11.21%	3.59%
12/20/1983	14.69%	11.22%	3.47%
12/20/1983	16.00%	11.22%	4.78%
12/20/1983	16.25%	11.22%	5.03%
12/22/1983	14.75%	11.23%	3.52%
12/22/1983	15.75%	11.23%	4.52%
		11.27%	
1/3/1984	14.75%		3.48%
1/10/1984	15.90%	11.30%	4.60%
1/12/1984	15.60%	11.31%	4.29%
1/18/1984	13.75%	11.33%	2.42%
1/19/1984	15.90%	11.33%	4.57%
1/30/1984	16.10%	11.37%	4.73%
1/31/1984	15.25%	11.37%	3.88%
2/1/1984	14.80%	11.38%	3.42%
2/6/1984	13.75%	11.40%	2.35%
2/6/1984	14.75%	11.40%	3.35%
2/9/1984	15.25%	11.42%	3.83%
2/15/1984	15.70%	11.44%	4.26%
2/20/1984	15.00%	11.46%	3.54%
2/20/1984	15.00%	11.46%	3.54%
2/22/1984	14.75%	11.47%	3.28%
2/28/1984	14.50%	11.51%	2.99%
3/2/1984	14.25%	11.54%	2.71%
3/20/1984	16.00%	11.64%	4.36%
3/23/1984	15.50%	11.67%	3.83%
3/26/1984	14.71%	11.68%	3.03%
4/2/1984	15.50%	11.71%	3.79%
4/6/1984	14.74%	11.75%	2.99%
4/11/1984			
	15.72%	11.78%	3.94%
4/17/1984	15.00%	11.81%	3.19%
4/18/1984	16.20%	11.82%	4.38%
4/25/1984	14.64%	11.85%	2.79%
4/30/1984	14.40%	11.87%	2.53%
5/16/1984	14.69%	11.98%	2.71%
5/16/1984	15.00%	11.98%	3.02%
5/22/1984	14.40%	12.02%	2.38%
5/29/1984	15.10%	12.06%	3.04%
6/13/1984	15.25%	12.15%	3.10%
6/15/1984	15.60%	12.17%	3.43%
6/22/1984	16.25%	12.21%	4.04%
6/29/1984	15.25%	12.26%	2.99%
7/2/1984	13.35%	12.27%	1.08%
7/10/1984	16.00%	12.31%	3.69%
7/12/1984	16.50%	12.32%	4.18%
7/13/1984	16.25%	12.33%	3.92%
7/17/1984	14.14%	12.35%	1.79%
7/18/1984	15.30%	12.36%	2.94%
7/18/1984	15.50%	12.36%	3.14%
7/19/1984	14.30%	12.37%	1.93%
7/24/1984	16.79%	12.39%	4.40%
7/31/1984	16.00%	12.43%	3.57%
8/3/1984	14.25%	12.44%	1.81%
8/17/1984	14.30%	12.49%	1.81%
8/20/1984	15.00%	12.49%	2.51%
8/27/1984	16.30%	12.51%	3.79%
8/31/1984	15.55%	12.52%	3.03%
9/6/1984	16.00%	12.53%	3.47%
9/10/1984		12.54%	
	14.75%		2.21%
9/13/1984	15.00%	12.55%	2.45%
9/17/1984	17.38%	12.56%	4.82%
9/26/1984	14.50%	12.57%	1.93%
9/28/1984	15.00%	12.57%	2.43%
9/28/1984	16.25%	12.57%	3.68%
10/9/1984		12.57 %	2.17%
	14.75%		
10/12/1984	15.60%	12.59%	3.01%
10/22/1984	15.00%	12.59%	2.41%
10/26/1984	16.40%	12.58%	3.82%
10/31/1984	16.25%	12.58%	3.67%
11/7/1984	15.60%	12.58%	3.02%
11/9/1984	16.00%	12.58%	3.42%
11/14/1984	15.75%	12.58%	3.17%
11/20/1984	15.25%	12.58%	2.67%
11/20/1984	15.92%	12.58%	3.34%
11/23/1984	15.00%	12.58%	2.42%

11/28/1984	40 450/	12.57%	3.58%
12/3/1984	16.15% 15.80%		3.24%
		12.56%	
12/4/1984 12/18/1984	16.50%	12.56%	3.94% 3.87%
12/18/1984	16.40%	12.53% 12.53%	2.22%
12/19/1984	14.75%		
	15.00%	12.53%	2.47%
12/20/1984	16.00%	12.53%	3.47%
12/28/1984	16.00%	12.50%	3.50%
1/3/1985	14.75%	12.49%	2.26%
1/10/1985	15.75%	12.47%	3.28%
1/11/1985	16.30%	12.46%	3.84%
1/23/1985	15.80%	12.43%	3.37%
1/24/1985	15.82%	12.43%	3.39%
1/25/1985	16.75%	12.42%	4.33%
1/30/1985	14.90%	12.40%	2.50%
1/31/1985	14.75%	12.39%	2.36%
2/8/1985	14.47%	12.35%	2.12%
3/1/1985	13.84%	12.31%	1.53%
3/8/1985	16.85%	12.28%	4.57%
3/14/1985	15.50%	12.25%	3.25%
3/15/1985	15.62%	12.25%	3.37%
3/29/1985	15.62%	12.17%	3.45%
4/3/1985	14.60%	12.14%	2.46%
4/9/1985	15.50%	12.11%	3.39%
4/16/1985	15.70%	12.06%	3.64%
4/22/1985	14.00%	12.02%	1.98%
4/26/1985	15.50%	11.98%	3.52%
4/29/1985	15.00%	11.97%	3.03%
5/2/1985	14.68%	11.94%	2.74%
5/8/1985	15.62%	11.89%	3.73%
5/10/1985	16.50%	11.87%	4.63%
5/29/1985	14.61%	11.73%	2.88%
5/31/1985	16.00%	11.71%	4.29%
6/14/1985	15.50%	11.61%	3.89%
7/9/1985	15.00%	11.45%	3.55%
7/16/1985	14.50%	11.39%	3.11%
7/26/1985	14.50%	11.33%	3.17%
8/2/1985	14.80%	11.29%	3.51%
8/7/1985	15.00%	11.27%	3.73%
8/28/1985	14.25%	11.15%	3.10%
8/28/1985	15.50%	11.15%	4.35%
8/29/1985	14.50%	11.15%	3.35%
9/9/1985	14.60%	11.11%	3.49%
9/9/1985	14.90%	11.11%	3.79%
9/17/1985	14.90%	11.08%	3.82%
9/23/1985	15.00%	11.06%	3.94%
9/27/1985	15.50%	11.05%	4.45%
9/27/1985	15.80%	11.05%	4.75%
10/2/1985	14.00%	11.03%	2.97%
10/2/1985	14.75%	11.03%	3.72%
10/3/1985	15.25%	11.03%	4.22%
10/24/1985	15.40%	10.96%	4.44%
10/24/1985	15.82%	10.96%	4.86%
10/24/1985	15.85%	10.96%	4.89%
10/28/1985	16.00%	10.95%	5.05%
10/29/1985	16.65%	10.94%	5.71%
10/31/1985	15.06%	10.93%	4.13%
11/4/1985	14.50%	10.92%	3.58%
11/7/1985	15.50%	10.90%	4.60%
11/8/1985	14.30%	10.89%	3.41%
12/12/1985	14.75%	10.73%	4.02%
12/18/1985	15.00%	10.69%	4.31%
12/20/1985	14.50%	10.67%	3.83%
12/20/1985	14.50%	10.67%	3.83%
12/20/1985	15.00%	10.67%	4.33%
1/24/1986	15.40%	10.41%	4.99%
1/31/1986	15.00%	10.35%	4.65%
2/5/1986	15.00%	10.32%	4.68%
2/5/1986	15.75%	10.32%	5.43%
2/10/1986	13.73%	10.29%	3.01%
2/10/1986	12.50%	10.28%	2.22%
2/11/1986	14.40%	10.24%	4.16%
2/14/1986	16.00%	10.23%	5.77%
2/24/1986	14.50%	10.18%	4.32%
2/24/1986	14.00%	10.15%	3.85%
3/5/1986	14.00%	10.13%	4.82%
3/11/1986	14.50%	10.00%	4.48%
3/11/1986	13.50%	10.02%	3.50%
3/12/1986	14.10%	9.86%	4.24%
3/27/1986	13.50%	9.86% 9.84%	3.66%
4/1/1986	13.50%	9.84%	4.17%
4/1/1986	15.50%	9.83%	5.69%
4/4/1986	15.00%	9.78%	5.22%
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4/14/1986	13.40%	9.69%	3.71%
4/23/1986	15.00%	9.57%	5.43%
5/16/1986	14.50%	9.32%	5.18%
5/16/1986	14.50%	9.32%	5.18%
5/29/1986	13.90%	9.19%	4.71%
	15.10%	9.18%	5.92%
5/30/1986			
6/2/1986	12.81%	9.17%	3.64%
6/11/1986	14.00%	9.07%	4.93%
6/24/1986	16.63%	8.94%	7.69%
6/26/1986	12.00%	8.91%	3.09%
6/26/1986	14.75%	8.91%	5.84%
6/30/1986	13.00%	8.87%	4.13%
7/10/1986	14.34%	8.75%	5.59%
7/11/1986	12.75%	8.73%	4.02%
7/14/1986	12.60%	8.71%	3.89%
7/17/1986	12.40%	8.66%	3.74%
7/17/1986	14.25%	8.57%	5.68%
8/6/1986	13.50%	8.44%	5.06%
8/14/1986	13.50%	8.35%	5.15%
9/16/1986	12.75%	8.06%	4.69%
9/19/1986	13.25%	8.03%	5.22%
10/1/1986	14.00%	7.95%	6.05%
10/3/1986	13.40%	7.93%	5.47%
10/31/1986	13.50%	7.77%	5.73%
11/5/1986	13.00%	7.75%	5.25%
12/3/1986	12.90%	7.58%	5.32%
12/4/1986	14.44%	7.58%	6.86%
12/16/1986	13.60%	7.52%	6.08%
12/10/1900	13.80%	7.51%	6.29%
12/30/1986			5.51%
	13.00%	7.49%	
1/2/1987	13.00%	7.49%	5.51%
1/12/1987	12.40%	7.47%	4.93%
1/27/1987	12.71%	7.46%	5.25%
3/2/1987	12.47%	7.47%	5.00%
3/3/1987	13.60%	7.47%	6.13%
3/4/1987	12.38%	7.47%	4.91%
3/10/1987	13.50%	7.47%	6.03%
3/13/1987	13.00%	7.47%	5.53%
3/31/1987	13.00%	7.46%	5.54%
4/6/1987	13.00%	7.47%	5.53%
4/14/1987	12.50%	7.49%	5.01%
4/14/1987	14.50%	7.50%	7.00%
4/27/1987	12.00%	7.54%	4.46%
5/5/1987	12.85%	7.58%	5.27%
5/12/1987	12.65%	7.62%	5.03%
5/28/1987	13.50%	7.70%	5.80%
6/15/1987	13.20%	7.78%	5.42%
6/29/1987	15.00%	7.83%	7.17%
6/30/1987	12.50%	7.84%	4.66%
7/8/1987	12.00%	7.86%	4.14%
7/10/1987	12.90%	7.86%	5.04%
7/15/1987	13.50%	7.88%	5.62%
7/16/1987	13.50%	7.88%	5.62%
7/16/1987	15.00%	7.88%	7.12%
7/27/1987	13.00%	7.92%	5.08%
7/27/1987	13.40%	7.92%	5.48%
7/27/1987	13.50%	7.92%	5.58%
7/31/1987			5.03%
	12.98%	7.95%	
8/26/1987	12.63%	8.06%	4.57%
8/26/1987	12.75%	8.06%	4.69%
8/27/1987	13.25%	8.06%	5.19%
9/9/1987	13.00%	8.14%	4.86%
9/30/1987	12.75%	8.31%	4.44%
9/30/1987	13.00%	8.31%	4.69%
10/2/1987	11.50%	8.33%	3.17%
10/15/1987	13.00%	8.43%	4.57%
11/2/1987	13.00%	8.55%	4.45%
11/19/1987	13.00%	8.64%	4.36%
11/30/1987	12.00%	8.68%	3.32%
12/3/1987	14.20%	8.70%	5.50%
12/15/1987	13.25%	8.77%	4.48%
12/16/1987	13.50%	8.78%	4.72%
12/16/1987	13.72%	8.78%	4.94%
12/10/1907	11.75%	8.79%	2.96%
12/18/1987	13.50%	8.80%	4.70%
12/21/1987	12.01%	8.81%	3.20%
12/22/1987	12.00%	8.81%	3.19%
12/22/1987	12.00%	8.81%	3.19%
12/22/1987	12.75%	8.81%	3.94%
12/22/1987	13.00%	8.81%	4.19%
1/20/1988	13.80%	8.94%	4.86%
1/26/1988	13.90%	8.95%	4.95%
1/29/1988	13.20%	8.96%	4.24%

2/4/1988	12.60%	8.96%	3.64%
3/1/1988	11.56%	8.94%	2.62%
3/23/1988	12.87%	8.92%	3.95%
3/24/1988	11.24%	8.92%	2.32%
3/30/1988	12.72%	8.92%	3.80%
4/1/1988	12.50%	8.92%	3.58%
4/7/1988	13.25%	8.93%	4.32%
4/25/1988	10.96%	8.96%	2.00%
5/3/1988	12.91%	8.97%	3.94%
5/11/1988	13.50%	8.99%	4.51%
5/16/1988	13.00%	8.99%	4.01%
6/30/1988	12.75%	9.00%	3.75%
7/1/1988	12.75%	8.99%	3.76%
7/20/1988	13.40%	8.96%	4.44%
8/5/1988	12.75%	8.92%	3.83%
8/23/1988	11.70%	8.93%	2.77%
8/29/1988		8.94%	3.81%
	12.75%		
8/30/1988	13.50%	8.94%	4.56%
9/8/1988	12.60%	8.95%	3.65%
10/13/1988	13.10%	8.93%	4.17%
12/19/1988	13.00%	9.02%	3.98%
12/20/1988	12.25%	9.02%	3.23%
12/20/1988	13.00%	9.02%	3.98%
12/21/1988	12.90%	9.02%	3.88%
12/27/1988	13.00%	9.03%	3.97%
12/28/1988	13.10%	9.03%	4.07%
12/30/1988	13.40%	9.04%	4.36%
1/27/1989	13.00%	9.05%	3.95%
1/31/1989	13.00%	9.05%	3.95%
2/17/1989	13.00%	9.05%	3.95%
2/20/1989			3.35%
	12.40%	9.05%	
3/1/1989	12.76%	9.05%	3.71%
3/8/1989	13.00%	9.05%	3.95%
3/30/1989	14.00%	9.05%	4.95%
4/5/1989	14.20%	9.05%	5.15%
4/18/1989	13.00%	9.05%	3.95%
5/5/1989	12.40%	9.05%	3.35%
6/2/1989	13.20%	9.00%	4.20%
6/8/1989	13.50%	8.98%	4.52%
6/27/1989	13.25%	8.91%	4.34%
6/30/1989	13.00%	8.90%	4.10%
8/14/1989			3.73%
	12.50%	8.77%	
9/28/1989	12.25%	8.63%	3.62%
10/24/1989	12.50%	8.54%	3.96%
11/9/1989	13.00%	8.49%	4.51%
12/15/1989	13.00%	8.34%	4.66%
12/20/1989	12.90%	8.32%	4.58%
12/21/1989	12.90%	8.31%	4.59%
12/27/1989	12.50%	8.29%	4.21%
12/27/1989	13.00%	8.29%	4.71%
1/10/1990	12.80%	8.24%	4.56%
1/11/1990	12.90%	8.24%	4.66%
		8.22%	
1/17/1990	12.80%		4.58%
1/26/1990	12.00%	8.20%	3.80%
2/9/1990	12.10%	8.17%	3.93%
2/24/1990	12.86%	8.15%	4.71%
3/30/1990	12.90%	8.16%	4.74%
4/4/1990	15.76%	8.17%	7.59%
4/12/1990	12.52%	8.18%	4.34%
4/19/1990	12.75%	8.20%	4.55%
5/21/1990	12.10%	8.28%	3.82%
5/29/1990	12.40%	8.30%	4.10%
5/31/1990	12.00%	8.30%	3.70%
6/4/1990	12.90%	8.30%	4.60%
6/6/1990	12.25%	8.31%	3.94%
6/15/1990	13.20%	8.32%	4.88%
6/20/1990	12.92%	8.32%	4.60%
6/27/1990	12.90%	8.33%	4.57%
6/29/1990	12.50%	8.33%	4.17%
		8.34%	3.76%
7/6/1990	12.10%		
7/6/1990	12.35%	8.34%	4.01%
8/10/1990	12.55%	8.41%	4.14%
8/16/1990	13.21%	8.43%	4.78%
8/22/1990	13.10%	8.45%	4.65%
8/24/1990	13.00%	8.46%	4.54%
9/26/1990	11.45%	8.59%	2.86%
10/2/1990	13.00%	8.61%	4.39%
10/5/1990	12.84%	8.62%	4.22%
10/19/1990	13.00%	8.67%	4.33%
10/25/1990	12.30%	8.68%	3.62%
11/21/1990	12.70%	8.69%	4.01%
12/13/1990	12.30%	8.67%	3.63%
12/17/1990	12.87%	8.67%	4.20%

12/18/1990	13.10%	8.67%	4.43%
12/19/1990	12.00%	8.66%	3.34%
12/20/1990	12.75%	8.66%	4.09%
12/21/1990	12.50%	8.66%	3.84%
12/27/1990	12.79%	8.66%	4.13%
1/2/1991	13.10%	8.65%	4.45%
1/4/1991	12.50%	8.65%	3.85%
1/15/1991	12.75%	8.64%	4.11%
1/25/1991	11.70%	8.63%	3.07%
2/4/1991	12.50%	8.60%	3.90%
2/7/1991	12.50%	8.59%	3.91%
2/12/1991	13.00%	8.58%	4.43%
2/14/1991	12.72%	8.57%	4.15%
2/22/1991	12.80%	8.55%	4.25%
3/6/1991	13.10%	8.53%	4.57%
3/8/1991	12.30%	8.52%	3.78%
3/8/1991	13.00%	8.52%	4.48%
4/22/1991	13.00%	8.49%	4.51%
5/7/1991	13.50%	8.47%	5.03%
5/13/1991	13.25%	8.47%	4.78%
5/30/1991	12.75%	8.44%	4.31%
6/12/1991	12.00%	8.41%	3.59%
6/25/1991	11.70%	8.39%	3.31%
6/28/1991	12.50%	8.38%	4.12%
7/1/1991	12.00%	8.38%	3.62%
7/3/1991	12.50%	8.37%	4.13%
7/19/1991	12.10%	8.34%	3.76%
8/1/1991	12.90%	8.32%	4.58%
		8.29%	4.91%
8/16/1991	13.20%		
9/27/1991	12.50%	8.23%	4.27%
9/30/1991	12.25%	8.23%	4.02%
10/17/1991	13.00%	8.20%	4.80%
10/23/1991	12.50%	8.20%	4.30%
10/23/1991	12.55%	8.20%	4.35%
10/31/1991	11.80%	8.19%	3.61%
11/1/1991	12.00%	8.19%	3.81%
11/5/1991	12.25%	8.19%	4.06%
11/12/1991	12.50%	8.18%	4.32%
11/12/1991	13.25%	8.18%	5.07%
11/25/1991	12.40%	8.18%	4.22%
11/26/1991	11.60%	8.18%	3.42%
11/26/1991	12.50%	8.18%	4.32%
11/27/1991	12.10%	8.18%	3.92%
12/18/1991	12.25%	8.15%	4.10%
12/19/1991	12.60%	8.15%	4.45%
12/19/1991	12.80%	8.15%	4.65%
12/20/1991	12.65%	8.14%	4.51%
1/9/1992	12.80%	8.09%	4.71%
1/16/1992	12.75%	8.07%	4.68%
1/21/1992	12.00%	8.06%	3.94%
1/22/1992	13.00%	8.06%	4.94%
1/27/1992	12.65%	8.05%	4.60%
1/31/1992	12.00%	8.04%	3.96%
2/11/1992	12.40%	8.03%	4.37%
2/25/1992	12.50%	8.01%	4.49%
3/16/1992	11.43%	7.98%	3.45%
3/18/1992	12.28%	7.98%	4.30%
4/2/1992	12.10%	7.95%	4.15%
4/9/1992	11.45%	7.94%	3.51%
4/10/1992	11.50%	7.93%	3.57%
4/14/1992	11.50%	7.93%	3.57%
5/5/1992	11.50%	7.89%	3.61%
5/12/1992	11.87%	7.88%	3.99%
5/12/1992	12.46%	7.88%	4.58%
6/1/1992	12.30%	7.87%	4.43%
6/12/1992	10.90%	7.86%	3.04%
6/26/1992	12.35%	7.85%	4.50%
6/29/1992	11.00%	7.85%	3.15%
6/30/1992	13.00%	7.85%	5.15%
7/13/1992	11.90%	7.84%	4.06%
7/13/1992	13.50%	7.84%	5.66%
7/22/1992	11.20%	7.83%	3.37%
8/3/1992	12.00%	7.81%	4.19%
8/6/1992	12.50%	7.80%	4.70%
9/22/1992	12.00%	7.71%	4.29%
9/28/1992	11.40%	7.71%	3.69%
9/30/1992	11.75%	7.70%	4.05%
10/2/1992	13.00%	7.70%	5.30%
10/12/1992	12.20%	7.70%	4.50%
10/16/1992	13.16%	7.70%	5.46%
10/30/1992	11.75%	7.71%	4.04%
11/3/1992	12.00%	7.71%	4.29%
12/3/1992	11.85%	7.68%	4.17%

12/15/1992	11.00%	7.66%	3.34%
12/16/1992	11.90%	7.66%	4.24%
12/16/1992	12.40%	7.66%	4.74%
12/17/1992	12.00%	7.66%	4.34%
12/22/1992	12.30%	7.65%	4.65%
12/22/1992	12.40%	7.65%	4.75%
12/29/1992	12.25%	7.63%	4.62%
12/30/1992	12.00%	7.63%	4.37%
12/31/1992	11.90%	7.63%	4.27%
1/12/1993	12.00%	7.61%	4.39%
1/21/1993	11.25%	7.59%	3.66%
2/2/1993	11.40%	7.56%	3.84%
2/15/1993	12.30%	7.52%	4.78%
2/24/1993	11.90%	7.49%	4.41%
2/26/1993	11.80%	7.48%	4.32%
2/26/1993	12.20%	7.48%	4.72%
4/23/1993	11.75%	7.29%	4.46%
5/11/1993	11.75%	7.25%	4.50%
5/14/1993	11.50%	7.24%	4.26%
5/25/1993	11.50%	7.23%	4.27%
	11.00%	7.22%	3.78%
5/28/1993			
6/3/1993	12.00%	7.21%	4.79%
6/16/1993	11.50%	7.19%	4.31%
6/18/1993	12.10%	7.18%	4.92%
6/25/1993	11.67%	7.17%	4.50%
7/21/1993	11.38%	7.10%	4.28%
7/23/1993	10.46%	7.09%	3.37%
8/24/1993	11.50%	6.96%	4.54%
9/21/1993	10.50%	6.81%	3.69%
9/29/1993	11.47%	6.77%	4.70%
9/30/1993	11.60%	6.76%	4.84%
11/2/1993	10.80%	6.60%	4.20%
11/12/1993	12.00%	6.57%	5.43%
11/26/1993	11.00%	6.52%	4.48%
12/14/1993	10.55%	6.48%	4.07%
12/16/1993	10.60%	6.48%	4.12%
12/21/1993	11.30%	6.47%	4.83%
1/4/1994	10.07%	6.44%	3.63%
1/13/1994	11.00%	6.42%	4.58%
1/21/1994	11.00%	6.40%	4.60%
1/28/1994	11.35%	6.39%	4.96%
2/3/1994			5.02%
	11.40%	6.38%	
2/17/1994	10.60%	6.36%	4.24%
2/25/1994	11.25%	6.35%	4.90%
2/25/1994	12.00%	6.35%	5.65%
3/1/1994	11.00%	6.35%	4.65%
3/4/1994	11.00%	6.35%	4.65%
4/25/1994	11.00%	6.41%	4.59%
5/10/1994	11.75%	6.45%	5.30%
5/13/1994	10.50%	6.46%	4.04%
6/3/1994	11.00%	6.54%	4.46%
6/27/1994	11.40%	6.65%	4.75%
			5.87%
8/5/1994	12.75%	6.88%	
10/31/1994	10.00%	7.33%	2.67%
11/9/1994	10.85%	7.39%	3.46%
11/9/1994	10.85%	7.39%	3.46%
11/18/1994	11.20%	7.45%	3.75%
11/22/1994	11.60%	7.47%	4.13%
	11.06%	7.49%	
11/28/1994			3.57%
12/8/1994	11.50%	7.54%	3.96%
12/8/1994	11.70%	7.54%	4.16%
12/14/1994	10.95%	7.56%	3.39%
12/15/1994	11.50%	7.57%	3.93%
12/19/1994	11.50%	7.58%	3.92%
12/28/1994			
	12.15%	7.61%	4.54%
1/9/1995	12.28%	7.64%	4.64%
1/31/1995	11.00%	7.69%	3.31%
2/10/1995	12.60%	7.70%	4.90%
2/17/1995	11.90%	7.70%	4.20%
3/9/1995	11.50%	7.71%	3.79%
3/20/1995	12.00%	7.72%	4.28%
3/23/1995	12.81%	7.72%	5.09%
3/29/1995	11.60%	7.72%	3.88%
4/6/1995	11.10%	7.71%	3.39%
4/7/1995	11.00%	7.71%	3.29%
4/19/1995	11.00%	7.70%	3.30%
5/12/1995	11.63%	7.68%	3.95%
5/25/1995	11.20%	7.65%	3.55%
6/9/1995	11.25%	7.60%	3.65%
6/21/1995	12.25%	7.56%	4.69%
6/30/1995	11.10%	7.52%	3.58%
9/11/1995	11.30%	7.20%	4.10%
9/27/1995	11.30%	7.12%	4.18%

9/27/1995	11.50%	7.12%	4.38%
9/27/1995	11.75%	7.12%	4.63%
9/29/1995	11.00%	7.11%	3.89%
11/9/1995	11.38%	6.90%	4.48%
11/9/1995	12.36%	6.90%	5.46%
11/17/1995	11.00%	6.86%	4.14%
12/4/1995	11.35%	6.78%	4.57%
12/11/1995	11.40%	6.74%	4.66%
12/20/1995	11.60%	6.70%	4.90%
12/27/1995	12.00%	6.66%	5.34%
2/5/1996	12.25%	6.48%	5.77%
		6.42%	4.25%
3/29/1996	10.67%		
4/8/1996	11.00%	6.42%	4.58%
4/11/1996	12.59%	6.43%	6.16%
4/11/1996	12.59%	6.43%	6.16%
4/24/1996	11.25%	6.43%	4.82%
4/30/1996	11.00%	6.43%	4.57%
5/13/1996	11.00%	6.44%	4.56%
5/23/1996	11.25%	6.43%	4.82%
6/25/1996	11.25%	6.48%	4.77%
6/27/1996	11.20%	6.48%	4.72%
8/12/1996	10.40%	6.57%	3.83%
9/27/1996	11.00%	6.71%	4.29%
10/16/1996	12.25%	6.76%	5.49%
11/5/1996	11.00%	6.81%	4.19%
11/26/1996	11.30%	6.83%	4.47%
12/18/1996	11.75%	6.83%	4.92%
12/31/1996	11.50%	6.83%	4.67%
1/3/1997	10.70%	6.83%	3.87%
			4.98%
2/13/1997	11.80%	6.82%	
2/20/1997	11.80%	6.82%	4.98%
3/31/1997	10.02%	6.80%	3.22%
4/2/1997	11.65%	6.80%	4.85%
4/28/1997		6.81%	4.69%
	11.50%		
4/29/1997	11.70%	6.81%	4.89%
7/17/1997	12.00%	6.77%	5.23%
12/12/1997	11.00%	6.60%	4.40%
12/23/1997	11.12%	6.57%	4.55%
2/2/1998	12.75%	6.39%	6.36%
3/2/1998	11.25%	6.29%	4.96%
3/6/1998	10.75%	6.27%	4.48%
3/20/1998	10.50%	6.22%	4.28%
4/30/1998	12.20%	6.12%	6.08%
7/10/1998	11.40%	5.94%	5.46%
9/15/1998	11.90%	5.78%	6.12%
11/30/1998	12.60%	5.58%	7.02%
12/10/1998	12.20%	5.54%	6.66%
12/17/1998	12.10%	5.52%	6.58%
2/5/1999	10.30%	5.38%	4.92%
3/4/1999	10.50%	5.34%	5.16%
4/6/1999	10.94%	5.32%	5.62%
7/29/1999	10.75%	5.52%	5.23%
9/23/1999	10.75%	5.70%	5.05%
11/17/1999	11.10%	5.90%	5.20%
1/7/2000	11.50%	6.05%	5.45%
1/7/2000	11.50%	6.05%	5.45%
2/17/2000	10.60%	6.17%	4.43%
	11.25%		
3/28/2000		6.20%	5.05%
5/24/2000	11.00%	6.18%	4.82%
7/18/2000	12.20%	6.16%	6.04%
9/29/2000	11.16%	6.03%	5.13%
11/28/2000	12.90%	5.89%	7.01%
11/30/2000	12.10%	5.88%	6.22%
1/23/2001	11.25%	5.79%	5.46%
2/8/2001	11.50%	5.77%	5.73%
5/8/2001	10.75%	5.62%	5.13%
6/26/2001	11.00%	5.62%	5.38%
7/25/2001	11.02%	5.60%	5.42%
7/25/2001	11.02%	5.60%	5.42%
7/31/2001	11.00%	5.59%	5.41%
8/31/2001	10.50%	5.56%	4.94%
9/7/2001	10.75%	5.55%	5.20%
9/10/2001	11.00%	5.55%	5.45%
9/20/2001	10.00%	5.55%	4.45%
10/24/2001	10.30%	5.54%	4.76%
11/28/2001		5.49%	5.11%
	10.60%		
12/3/2001	12.88%	5.49%	7.39%
12/20/2001	12.50%	5.50%	7.00%
1/22/2002	10.00%	5.50%	4.50%
3/2//2002		5 45%	4 65%
3/27/2002	10.10%	5.45%	4.65%
4/22/2002	10.10% 11.80%	5.45%	6.35%
4/22/2002 5/28/2002	10.10% 11.80% 10.17%	5.45% 5.46%	6.35% 4.71%
4/22/2002	10.10% 11.80%	5.45%	6.35%

0/40/0000	44.400/	E 400/	F C00/
6/18/2002	11.16%	5.48%	5.68%
6/20/2002	11.00%	5.48%	5.52%
6/20/2002	12.30%	5.48%	6.82%
7/15/2002	11.00%	5.48%	5.52%
9/12/2002	12.30%	5.45%	6.85%
9/26/2002	10.45%	5.41%	5.04%
12/4/2002	11.55%	5.29%	6.26%
12/13/2002	11.75%	5.27%	6.48%
12/20/2002	11.40%	5.25%	6.15%
1/8/2003			
	11.10%	5.19%	5.91%
1/31/2003	12.45%	5.13%	7.32%
2/28/2003	12.30%	5.05%	7.25%
3/6/2003	10.75%	5.03%	5.72%
3/7/2003	9.96%	5.02%	4.94%
3/20/2003	12.00%	4.98%	7.02%
4/3/2003	12.00%	4.96%	7.04%
4/15/2003	11.15%	4.94%	6.21%
6/25/2003	10.75%	4.79%	5.96%
6/26/2003	10.75%	4.79%	5.96%
7/9/2003	9.75%	4.79%	4.96%
7/16/2003	9.75%	4.79%	4.96%
7/25/2003	9.50%	4.80%	4.70%
8/26/2003	10.50%	4.83%	5.67%
12/17/2003	9.85%	4.94%	4.91%
12/17/2003	10.70%	4.94%	5.76%
12/18/2003	11.50%	4.94%	6.56%
12/19/2003	12.00%	4.94%	7.06%
12/19/2003	12.00%	4.94%	7.06%
12/23/2003	10.50%	4.94%	5.56%
1/13/2004	12.00%	4.95%	7.05%
3/2/2004	10.75%	4.99%	5.76%
3/26/2004	10.25%	5.02%	5.23%
4/5/2004	11.25%	5.03%	6.22%
5/18/2004	10.50%	5.07%	5.43%
5/25/2004	10.25%	5.08%	5.17%
5/27/2004	10.25%	5.08%	5.17%
6/2/2004	11.22%	5.08%	6.14%
6/30/2004	10.50%	5.10%	5.40%
6/30/2004	10.50%	5.10%	5.40%
7/16/2004	11.60%	5.11%	6.49%
8/25/2004	10.25%	5.10%	5.15%
9/9/2004	10.40%	5.10%	5.30%
11/9/2004	10.50%	5.07%	5.43%
11/23/2004	11.00%	5.06%	5.94%
12/14/2004	10.97%	5.07%	5.90%
12/21/2004	11.25%	5.07%	6.18%
12/21/2004	11.50%	5.07%	6.43%
12/21/2004	10.70%	5.07%	5.63%
12/22/2004			6.43%
	11.50%	5.07%	
12/29/2004	9.85%	5.07%	4.78%
1/6/2005	10.70%	5.08%	5.62%
2/18/2005	10.30%	4.98%	5.32%
2/25/2005	10.50%	4.96%	5.54%
3/10/2005	11.00%	4.93%	6.07%
3/24/2005	10.30%	4.90%	5.40%
4/4/2005	10.00%	4.88%	5.12%
4/7/2005	10.25%	4.87%	5.38%
5/18/2005	10.25%	4.78%	5.47%
5/25/2005	10.75%	4.76%	5.99%
5/26/2005	9.75%	4.76%	4.99%
6/1/2005	9.75%	4.75%	5.00%
7/19/2005	11.50%	4.64%	6.86%
8/5/2005	11.75%	4.62%	7.13%
8/15/2005	10.13%	4.61%	5.52%
9/28/2005	10.00%	4.54%	5.46%
10/4/2005	10.75%	4.54%	6.21%
12/12/2005	11.00%	4.55%	6.45%
12/13/2005	10.75%	4.55%	6.20%
12/21/2005	10.29%	4.54%	5.75%
12/21/2005	10.40%	4.54%	5.86%
12/22/2005	11.00%	4.54%	6.46%
12/22/2005	11.15%	4.54%	6.61%
12/28/2005	10.00%	4.54%	5.46%
12/28/2005	10.00%	4.54%	5.46%
1/5/2006	11.00%	4.53%	6.47%
1/27/2006	9.75%	4.52%	5.23%
3/3/2006	10.39%	4.53%	5.86%
4/17/2006	10.20%	4.61%	5.59%
4/26/2006	10.60%	4.64%	5.96%
5/17/2006	11.60%	4.69%	6.91%
6/6/2006	10.00%	4.74%	5.26%
6/27/2006	10.75%	4.80%	5.95%
		4.83%	5.37%
7/6/2006	10.20%	4.00/0	

7/24/2006	9.60%	4.86%	4.74%
7/26/2006	10.50%	4.86%	5.64%
7/28/2006	10.05%	4.86%	5.19%
8/23/2006	9.55%	4.89%	4.66%
9/1/2006	10.54%	4.90%	5.64%
9/14/2006	10.00%	4.91%	5.09%
10/6/2006	9.67%	4.92%	4.75%
11/21/2006	10.08%	4.95%	5.13%
11/21/2006	10.08%	4.95%	5.13%
11/21/2006	10.12%	4.95%	5.17%
12/1/2006	10.25%	4.95%	5.30%
12/1/2006	10.50%	4.95%	5.55%
12/7/2006	10.75%	4.95%	5.80%
12/21/2006	10.90%	4.95%	5.95%
12/21/2006	11.25%	4.95%	6.30%
12/22/2006	10.25%	4.95%	5.30%
1/5/2007	10.00%	4.95%	5.05%
1/11/2007	10.10%	4.95%	5.15%
1/11/2007	10.10%	4.95%	5.15%
1/11/2007	10.90%	4.95%	5.95%
1/12/2007	10.10%	4.95%	5.15%
1/13/2007	10.40%	4.95%	5.45%
1/19/2007	10.80%	4.94%	5.86%
3/21/2007	11.35%	4.87%	6.48%
3/22/2007	9.75%	4.86%	4.89%
5/15/2007	10.00%	4.81%	5.19%
5/17/2007	10.25%	4.81%	5.44%
5/17/2007	10.25%	4.81%	5.44%
5/22/2007	10.20%	4.80%	5.40%
5/22/2007	10.50%	4.80%	5.70%
5/23/2007	10.70%	4.80%	5.90%
5/25/2007	9.67%	4.80%	4.87%
6/15/2007	9.90%	4.82%	5.08%
6/21/2007	10.20%	4.83%	5.37%
6/22/2007	10.50%	4.83%	5.67%
6/28/2007	10.75%	4.84%	5.91%
7/12/2007	9.67%	4.86%	4.81%
7/19/2007	10.00%	4.87%	5.13%
7/19/2007	10.00%	4.87%	5.13%
8/15/2007	10.40%	4.88%	5.52%
10/9/2007	10.00%	4.91%	5.09%
10/17/2007	9.10%	4.91%	4.19%
10/11/2007	9.96%	4.90%	5.06%
11/29/2007	10.90%	4.87%	6.03%
12/6/2007	10.75%	4.86%	5.89%
12/13/2007	9.96%	4.86%	5.10%
12/14/2007	10.70%	4.86%	5.84%
12/14/2007	10.80%	4.86%	5.94%
12/19/2007	10.20%	4.86%	5.34%
12/20/2007	10.20%	4.85%	5.35%
12/20/2007	11.00%	4.85%	6.15%
12/28/2007	10.25%	4.85%	5.40%
12/31/2007	11.25%	4.85%	6.40%
1/8/2008	10.75%	4.83%	5.92%
1/17/2008	10.75%	4.81%	5.94%
1/28/2008	9.40%	4.80%	4.60%
1/30/2008	10.00%	4.79%	5.21%
1/31/2008	10.71%	4.79%	5.92%
2/29/2008	10.25%	4.75%	5.50%
3/12/2008	10.25%	4.73%	5.52%
3/25/2008	9 10%		4 42%
3/25/2008	9.10%	4.68%	4.42%
4/22/2008	10.25%	4.68% 4.60%	5.65%
4/22/2008 4/24/2008	10.25% 10.10%	4.68% 4.60% 4.60%	5.65% 5.50%
4/22/2008 4/24/2008 5/1/2008	10.25% 10.10% 10.70%	4.68% 4.60% 4.60% 4.59%	5.65% 5.50% 6.11%
4/22/2008 4/24/2008 5/1/2008 5/19/2008	10.25% 10.10% 10.70% 11.00%	4.68% 4.60% 4.60% 4.59% 4.56%	5.65% 5.50% 6.11% 6.44%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008	10.25% 10.10% 10.70% 11.00% 10.00%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55%	5.65% 5.50% 6.11% 6.44% 5.45%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/10/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/10/2008 6/27/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/10/2008 6/27/2008 6/27/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50% 11.04%	4.68% 4.60% 4.60% 4.59% 4.55% 4.555% 4.54% 4.54% 4.54%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50%
4/22/2008 4/24/2008 5/19/2008 5/19/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50% 11.04% 10.43%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/27/2008 6/27/2008 7/10/2008 7/16/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50% 11.04% 10.43% 9.40%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52% 4.52%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 4.88%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008 7/16/2008 7/30/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50% 11.04% 10.43% 9.40% 10.80%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52% 4.52% 4.51%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 4.88% 6.29%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/27/2008 6/27/2008 7/10/2008 7/16/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50% 11.04% 10.43% 9.40%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52% 4.52% 4.51%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 4.88% 6.29% 6.19%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 5/27/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008 7/16/2008 7/30/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.70% 10.50% 11.04% 10.43% 9.40% 10.80%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52% 4.52% 4.51%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 4.88% 6.29%
4/22/2008 4/24/2008 5/19/2008 5/19/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008 7/10/2008 7/30/2008 7/31/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 11.04% 10.43% 9.40% 10.80% 10.70%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52% 4.52% 4.51%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 4.88% 6.29% 6.19%
4/22/2008 4/24/2008 5/11/2008 5/19/2008 5/27/2008 6/10/2008 6/27/2008 7/10/2008 7/16/2008 7/30/2008 7/31/2008 8/11/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 11.04% 10.43% 9.40% 10.80% 10.70% 10.25%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.54% 4.52% 4.52% 4.51% 4.51%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 6.50% 6.29% 6.19% 5.74%
4/22/2008 4/24/2008 5/11/2008 5/19/2008 5/19/2008 6/10/2008 6/27/2008 7/10/2008 7/10/2008 7/30/2008 7/31/2008 8/11/2008 8/26/2008	10.25% 10.10% 10.70% 10.00% 10.00% 10.50% 11.04% 10.43% 9.40% 10.80% 10.70% 10.25% 10.18%	4.68% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.52% 4.52% 4.51% 4.51% 4.51% 4.50%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 6.50% 5.91% 4.88% 6.29% 6.19% 5.74% 5.68%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 6/27/2008 6/27/2008 6/27/2008 7/10/2008 7/16/2008 7/30/2008 7/31/2008 8/11/2008 8/11/2008 9/10/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 10.45% 10.43% 9.40% 10.80% 10.70% 10.25% 10.18% 10.30%	4.68% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.52% 4.52% 4.52% 4.51% 4.51% 4.51% 4.50% 4.50%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 6.50% 6.29% 6.19% 5.74% 5.68% 5.80%
4/22/2008 4/24/2008 5/11/2008 5/19/2008 6/10/2008 6/27/2008 6/27/2008 6/27/2008 7/10/2008 7/30/2008 7/31/2008 8/11/2008 8/11/2008 9/10/2008 9/24/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 11.04% 10.43% 90.43% 10.80% 10.70% 10.25% 10.18% 10.30% 10.65%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.52% 4.52% 4.51% 4.51% 4.50% 4.50% 4.48%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 6.29% 6.19% 5.74% 5.68% 6.17%
4/22/2008 4/24/2008 5/11/2008 5/19/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008 7/10/2008 7/30/2008 7/31/2008 8/26/2008 8/26/2008 9/24/2008 9/24/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 11.04% 10.43% 9.40% 10.80% 10.25% 10.18% 10.65% 10.65% 10.65%	4.68% 4.60% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.52% 4.52% 4.51% 4.51% 4.51% 4.50% 4.48% 4.48%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 5.91% 6.29% 6.19% 5.74% 5.68% 6.17% 6.17%
4/22/2008 4/24/2008 5/19/2008 5/19/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008 7/10/2008 7/31/2008 8/11/2008 8/11/2008 9/10/2008 9/24/2008 9/24/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 11.04% 10.43% 9.40% 10.80% 10.70% 10.25% 10.18% 10.65% 10.65% 10.65% 10.65%	4.68% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.52% 4.51% 4.51% 4.51% 4.51% 4.51% 4.450% 4.48% 4.48%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 6.50% 6.50% 6.59% 6.19% 5.74% 5.68% 5.80% 6.17% 6.17% 6.17%
4/22/2008 4/24/2008 5/11/2008 5/19/2008 6/10/2008 6/27/2008 6/27/2008 7/10/2008 7/10/2008 7/30/2008 7/31/2008 8/11/2008 8/11/2008 9/24/2008 9/24/2008 9/24/2008 9/30/2008 10/8/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 10.43% 9.40% 10.80% 10.70% 10.25% 10.18% 10.65% 10.65% 10.65% 10.65% 10.15%	4.68% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.52% 4.52% 4.51% 4.51% 4.51% 4.50% 4.48% 4.48% 4.48% 4.48%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 5.96% 6.50% 6.19% 5.74% 5.68% 6.17% 6.17% 6.17% 6.17% 5.72%
4/22/2008 4/24/2008 5/1/2008 5/19/2008 6/27/2008 6/27/2008 6/27/2008 7/10/2008 7/10/2008 7/30/2008 7/31/2008 8/26/2008 9/10/2008 9/24/2008 9/24/2008 9/24/2008 9/30/2008	10.25% 10.10% 10.70% 11.00% 10.00% 10.50% 11.04% 10.43% 9.40% 10.80% 10.70% 10.25% 10.18% 10.65% 10.65% 10.65% 10.65%	4.68% 4.60% 4.59% 4.56% 4.55% 4.54% 4.54% 4.52% 4.51% 4.51% 4.51% 4.51% 4.51% 4.450% 4.48% 4.48%	5.65% 5.50% 6.11% 6.44% 5.45% 6.16% 6.50% 6.50% 6.59% 6.19% 5.74% 5.68% 5.80% 6.17% 6.17% 6.17%

12/1/2008	10.25%	4.40%	5.85%
12/23/2008	11.00%	4.27%	6.73%
12/29/2008	10.00%	4.24%	5.76%
12/29/2008	10.00%	4.24%	5.96%
12/31/2008	10.75%	4.22%	6.53%
1/14/2009	10.75%	4.15%	6.35%
1/21/2009	10.50%	4.12%	6.38%
1/21/2009	10.50%	4.12%	6.38%
1/21/2009		4.12%	6.38%
1/21/2009	10.50% 10.76%	4.09%	6.67%
1/30/2009	10.50%	4.08%	6.42%
2/4/2009	8.75%	4.06%	4.69%
3/4/2009 3/12/2009	10.50%	3.96% 3.93%	6.54%
	11.50%		7.57%
4/2/2009	11.10%	3.85%	7.25%
4/21/2009	10.61%	3.80%	6.81%
4/24/2009	10.00%	3.79%	6.21%
4/30/2009	11.25%	3.78%	7.47%
5/4/2009	10.74%	3.77%	6.97%
5/20/2009	10.25%	3.74%	6.51%
5/28/2009	10.50%	3.74%	6.76%
6/22/2009	10.00%	3.76%	6.24%
6/24/2009	10.80%	3.77%	7.03%
7/8/2009	10.63%	3.77%	6.86%
7/17/2009	10.50%	3.78%	6.72%
8/31/2009	10.25%	3.82%	6.43%
10/14/2009	10.70%	4.01%	6.69%
10/23/2009	10.88%	4.06%	6.82%
11/2/2009	10.70%	4.09%	6.61%
11/3/2009	10.70%	4.10%	6.60%
11/24/2009	10.25%	4.15%	6.10%
11/25/2009	10.75%	4.16%	6.59%
11/30/2009	10.35%	4.17%	6.18%
12/3/2009	10.50%	4.18%	6.32%
12/7/2009	10.70%	4.18%	6.52%
12/16/2009	10.90%	4.21%	6.69%
12/16/2009	11.00%	4.21%	6.79%
12/18/2009	10.40%	4.22%	6.18%
12/18/2009	10.40%	4.22%	6.18%
12/22/2009	10.20%	4.23%	5.97%
12/22/2009	10.40%	4.23%	6.17%
12/22/2009	10.40%	4.23%	6.17%
12/30/2009	10.00%	4.26%	5.74%
1/4/2010	10.80%	4.28%	6.52%
1/11/2010	11.00%	4.30%	6.70%
1/26/2010	10.13%	4.35%	5.78%
1/27/2010	10.40%	4.35%	6.05%
1/27/2010	10.40%	4.35%	6.05%
1/27/2010	10.70%	4.35%	6.35%
2/9/2010	9.80%	4.38%	5.42%
2/18/2010	10.60%	4.40%	6.20%
2/24/2010	10.18%	4.41%	5.77%
3/2/2010	9.63%	4.41%	5.22%
3/4/2010	10.50%	4.41%	6.09%
3/5/2010	10.50%	4.41%	6.09%
3/11/2010	11.90%	4.42%	7.48%
3/17/2010	10.00%	4.41%	5.59%
3/25/2010	10.15%	4.42%	5.73%
4/2/2010	10.10%	4.43%	5.67%
4/27/2010	10.00%	4.46%	5.54%
4/29/2010	9.90%	4.46%	5.44%
4/29/2010	10.06%	4.46%	5.60%
4/29/2010	10.26%	4.46%	5.80%
5/12/2010	10.30%	4.45%	5.85%
5/12/2010	10.30%	4.45%	5.85%
5/28/2010	10.10%	4.44%	5.66%
5/28/2010	10.20%	4.44%	5.76%
6/7/2010	10.30%	4.44%	5.86%
6/16/2010	10.00%	4.44%	5.56%
6/28/2010	9.67%	4.43%	5.24%
6/28/2010	10.50%	4.43%	6.07%
6/30/2010	9.40%	4.43%	4.97%
7/1/2010	10.25%	4.43%	5.82%
7/15/2010	10.53%	4.43%	6.10%
7/15/2010	10.70%	4.43%	6.27%
7/30/2010	10.70%	4.41%	6.29%
8/4/2010	10.50%	4.41%	6.09%
8/6/2010	9.83%	4.41%	5.42%
8/25/2010	9.90%	4.37%	5.53%
9/3/2010	10.60%	4.35%	6.25%
9/14/2010	10.70%	4.33%	6.37%
9/16/2010	10.00%	4.33%	5.67%
9/16/2010	10.00%	4.33%	5.67%

9/30/2010	9.75%	4.29%	5.46%
10/14/2010	10.35%	4.24%	6.11%
10/14/2010			
11/2/2010	10.70%	4.21%	6.49%
11/4/2010	10.38%	4.20% 4.20%	6.18% 6.50%
11/4/2010	10.70%	4.20%	6.02%
	10.20% 10.00%	4.18%	
11/22/2010			5.82%
12/1/2010	10.13%	4.16%	5.97%
12/6/2010	9.86%	4.15%	5.71%
12/9/2010	10.25%	4.15%	6.10%
12/13/2010	10.70%	4.15%	6.55%
12/14/2010	10.13%	4.15%	5.98%
12/15/2010	10.44%	4.15%	6.29%
12/17/2010	10.00%	4.15%	5.85%
12/20/2010	10.60%	4.15%	6.45%
12/21/2010	10.30%	4.14%	6.16%
12/27/2010	9.90%	4.14%	5.76%
12/29/2010	11.15%	4.14%	7.01%
1/5/2011	10.15%	4.13%	6.02%
1/12/2011	10.30%	4.12%	6.18%
1/13/2011	10.30%	4.12%	6.18%
1/18/2011	10.00%	4.12%	5.88%
1/20/2011	9.30%	4.12%	5.18%
1/20/2011	10.13%	4.12%	6.01%
1/31/2011	9.60%	4.12%	5.48%
2/3/2011	10.00%	4.12%	5.88%
2/25/2011	10.00%	4.14%	5.86%
3/25/2011	9.80%	4.18%	5.62%
3/30/2011	10.00%	4.18%	5.82%
4/12/2011	10.00%	4.21%	5.79%
4/25/2011	10.74%	4.23%	6.51%
4/26/2011	9.67%	4.23%	5.44%
4/27/2011	10.40%	4.24%	6.16%
5/4/2011	10.00%	4.24%	5.76%
5/4/2011	10.00%	4.24%	5.76%
5/24/2011	10.50%	4.27%	6.23%
6/8/2011	10.75%	4.30%	6.45%
6/16/2011	9.20%	4.32%	4.88%
6/17/2011	9.95%	4.32%	5.63%
7/13/2011	10.20%	4.36%	5.84%
8/1/2011	9.20%	4.39%	4.81%
8/8/2011	10.00%	4.38%	5.62%
8/11/2011	10.00%	4.38%	5.62%
8/12/2011	10.35%	4.37%	5.98%
8/19/2011	10.25%	4.36%	5.89%
9/2/2011	12.88%	4.32%	8.56%
9/22/2011	10.00%	4.24%	5.76%
10/12/2011	10.30%	4.14%	6.16%
10/20/2011	10.50%	4.10%	6.40%
11/30/2011	10.90%	3.87%	7.03%
11/30/2011	10.90%	3.87%	7.03%
12/14/2011	10.00%	3.80%	6.20%
12/14/2011	10.30%	3.80%	6.50%
12/20/2011	10.20%	3.76%	6.44%
12/21/2011	10.20%	3.76%	6.44%
12/22/2011	9.90%	3.75%	6.15%
12/22/2011	10.40%	3.75%	6.65%
12/23/2011	10.19%	3.74%	6.45%
1/25/2012	10.50%	3.57%	6.93%
1/27/2012	10.50%	3.56%	6.94%
2/15/2012	10.20%	3.47%	6.73%
2/23/2012	9.90%	3.44%	6.46%
2/27/2012	10.25%	3.43%	6.82%
2/29/2012	10.40%	3.41%	6.99%
3/29/2012	10.37%	3.32%	7.05%
4/4/2012	10.00%	3.30%	6.70%
4/26/2012	10.00%	3.21%	6.79%
5/2/2012	10.00%	3.18%	6.82%
5/7/2012	9.80%	3.17%	6.63%
5/15/2012	10.00%	3.14%	6.86%
5/29/2012	10.05%	3.11%	6.94%
6/7/2012	10.30%	3.08%	7.22%
6/14/2012	9.40%	3.06%	6.34%
6/15/2012	10.40%	3.06%	7.34%
6/18/2012	9.60%	3.06%	6.54%
6/19/2012	9.25%	3.05%	6.20%
6/26/2012	10.10%	3.04%	7.06%
6/29/2012	10.00%	3.04%	6.96%
7/9/2012	10.20%	3.03%	7.17%
7/16/2012	9.80%	3.02%	6.78%
7/20/2012 7/20/2012	9.31% 9.81%	3.01% 3.01%	6.30% 6.80%
9/13/2012	9.81%	3.01% 2.94%	6.86%
3/13/2012	9.00%	2.3470	0.00%

9/19/2012	9.80%	2.94%	6.86%
9/19/2012	10.05%	2.94%	7.11%
9/26/2012	9.50%	2.94%	6.56%
10/12/2012	9.60%	2.93%	6.67%
10/23/2012	9.75%	2.93%	6.82%
10/24/2012	10.30%	2.93%	7.37%
11/9/2012	10.30%	2.92%	7.38%
11/28/2012	10.40%	2.90%	7.50%
11/29/2012	9.75%	2.89%	6.86%
11/29/2012	9.88%	2.89%	6.99%
12/5/2012	9.71%	2.89%	6.82%
12/5/2012	10.40%	2.89%	7.51%
12/12/2012	9.80%	2.88%	6.92%
12/13/2012	9.50%	2.88%	6.62%
12/13/2012	10.50%	2.88%	7.62%
12/14/2012	10.40%	2.88%	7.52%
12/19/2012	9.71%	2.87%	6.84%
12/19/2012	10.25%	2.87%	7.38%
12/20/2012	9.50%	2.87%	6.63%
12/20/2012	9.80%	2.87%	6.93%
12/20/2012	10.25%	2.87%	7.38%
12/20/2012	10.25%	2.87%	7.38%
12/20/2012	10.30%	2.87%	7.43%
12/20/2012	10.40%	2.87%	7.53%
12/20/2012			
	10.45%	2.87%	7.58%
12/21/2012	10.20%	2.87%	7.33%
12/26/2012	9.80%	2.86%	6.94%
1/9/2013	9.70%	2.85%	6.85%
1/9/2013	9.70%	2.85%	6.85%
1/9/2013	9.70%	2.85%	6.85%
1/16/2013	9.60%	2.84%	6.76%
1/16/2013	9.60%	2.84%	6.76%
2/13/2013	10.20%	2.84%	7.36%
2/22/2013	9.75%	2.85%	6.90%
2/27/2013	10.00%	2.86%	7.14%
3/14/2013	9.30%	2.88%	6.42%
3/27/2013	9.80%	2.90%	6.90%
5/1/2013	9.84%	2.94%	6.90%
5/15/2013	10.30%	2.96%	7.34%
5/30/2013	10.20%	2.98%	7.22%
5/31/2013	9.00%	2.98%	6.02%
6/11/2013	10.00%	3.00%	7.00%
6/21/2013	9.75%	3.02%	6.73%
6/25/2013	9.80%	3.03%	6.77%
7/12/2013	9.36%	3.07%	6.29%
8/8/2013	9.83%	3.14%	6.69%
8/14/2013	9.15%	3.16%	5.99%
9/11/2013	10.20%	3.26%	6.94%
9/11/2013	10.25%	3.26%	6.99%
9/24/2013	10.20%	3.31%	6.89%
10/3/2013	9.65%	3.33%	6.32%
11/6/2013	10.20%	3.41%	6.79%
11/21/2013	10.00%	3.44%	6.56%
11/26/2013	10.00%	3.45%	6.55%
12/3/2013	10.25%	3.47%	6.78%
12/4/2013	9.50%	3.47%	6.03%
12/5/2013	10.20%	3.48%	6.72%
12/9/2013	8.72%	3.48%	5.24%
12/9/2013	9.75%	3.48%	6.27%
12/13/2013	9.75%	3.50%	6.25%
12/16/2013	9.95%	3.50%	6.45%
12/16/2013	9.95%	3.50%	6.45%
12/16/2013	10.12%	3.50%	6.62%
12/17/2013	9.50%	3.51%	5.99%
12/17/2013	10.95%	3.51%	7.44%
12/18/2013	8.72%	3.51%	5.21%
12/18/2013	9.80%	3.51%	6.29%
12/19/2013	10.15%	3.51%	6.64%
12/30/2013	9.50%	3.54%	5.96%
2/20/2014	9.20%	3.68%	5.52%
2/26/2014	9.75%	3.69%	6.06%
3/17/2014	9.55%	3.72%	5.83%
3/26/2014	9.40%	3.73%	5.67%
3/26/2014	9.96%	3.73%	6.23%
4/2/2014	9.70%	3.73%	5.97%
5/16/2014	9.80%	3.70%	6.10%
5/30/2014	9.70%	3.68%	6.02%
6/6/2014	10.40%	3.67%	6.73%
6/30/2014	9.55%	3.64%	5.91%
7/2/2014	9.62%	3.64%	5.98%
7/10/2014	9.95%	3.63%	6.32%
7/23/2014	9.75%	3.61%	6.14%
7/29/2014	9.45%	3.60%	5.85%
	2	3.0070	3.3070

7/31/2014	9.90%	3.60%	6.30%
8/20/2014	9.75%	3.57%	6.18%
8/25/2014	9.60%	3.56%	6.04%
8/29/2014	9.80%	3.54%	6.26%
9/11/2014	9.60%	3.51%	6.09%
9/15/2014	10.25%	3.51%	6.74%
10/9/2014	9.80%	3.45%	6.35%
11/6/2014	9.56%	3.37%	6.19%
11/6/2014		3.37%	6.83%
	10.20%		
11/14/2014	10.20%	3.35%	6.85%
11/26/2014	9.70%	3.33%	6.37%
11/26/2014	10.20%	3.33%	6.87%
12/4/2014	9.68%	3.31%	6.37%
12/10/2014	9.25%	3.29%	5.96%
12/10/2014	9.25%	3.29%	5.96%
12/11/2014	10.07%	3.29%	6.78%
12/12/2014	10.20%	3.28%	6.92%
12/17/2014	9.17%	3.27%	5.90%
12/18/2014	9.83%	3.26%	6.57%
1/23/2015	9.50%	3.14%	6.36%
2/24/2015	9.83%	3.04%	6.79%
3/18/2015	9.75%	2.98%	6.77%
3/25/2015	9.50%	2.96%	6.54%
3/26/2015	9.72%	2.95%	6.77%
4/23/2015	10.20%	2.87%	7.33%
4/29/2015	9.53%	2.86%	6.67%
5/1/2015	9.60%	2.85%	6.75%
5/26/2015	9.75%	2.83%	6.92%
6/17/2015	9.00%	2.82%	6.18%
6/17/2015	9.00%	2.82%	6.18%
9/2/2015	9.50%	2.79%	6.71%
9/10/2015	9.30%	2.79%	6.51%
10/15/2015	9.00%	2.81%	6.19%
11/19/2015	10.00%	2.88%	7.12%
11/19/2015	10.30%	2.88%	7.42%
12/3/2015	10.00%	2.90%	7.10%
12/9/2015	9.14%	2.90%	6.24%
12/9/2015	9.14%	2.90%	6.24%
12/11/2015	10.30%	2.90%	7.40%
12/15/2015	9.60%	2.91%	6.69%
12/17/2015	9.70%	2.91%	6.79%
12/18/2015	9.50%	2.91%	6.59%
12/30/2015	9.50%	2.93%	6.57%
1/6/2016	9.50%	2.94%	6.56%
2/23/2016	9.75%	2.94%	6.81%
3/16/2016	9.75% 9.85%	2.94% 2.91%	6.94%
4/29/2016	9.80%	2.83%	6.97%
6/3/2016	9.75%	2.80%	6.95%
6/8/2016	9.48%	2.80%	6.68%
6/15/2016	9.00%	2.79%	6.21%
6/15/2016	9.00%	2.79%	6.21%

Average: 4.51% Count: 1,475

# S&P Business Risk Profiles and Credit Rankings

# Business Risk Profile (scale from 1 to 6)

"Excellent" Business Risk (score = 1)	79
Total	107
% Total	73.83%

U.S. Regulated Electric Utilities		Business	Corp. Credit
Company	Designation	Risk Profile	Rating
AED Toyon Control Co	Floatria	1	DDD
AEP Texas Central Co. AEP Texas North Co.	Electric Electric	2	BBB BBB
Alabama Power Co.	Electric	1	A
America Bayes Co.	Electric	2	BBB+
Appalachian Power Co.	Electric	1	BBB
Arizona Public Service Co.	Electric	1	A-
Atlantic City Electric Co.	Electric	1	BBB+
Baltimore Gas & Electric Co.	Electric	1	A-
Black Hills Power Inc.	Electric	1	BBB
CenterPoint Energy Houston Electric LLC	Electric	1	A-
Central Hudson Gas & Electric Corp.	Electric	1	Α
Central Maine Power Co.	Electric	1	BBB+
Cleco Power LLC	Electric	2	BBB+
Cleveland Electric Illuminating Co.	Electric	1	BBB-
Commonwealth Edison Co.	Electric	2	BBB
Connecticut Light & Power Co.	Electric	1	A-
Consolidated Edison Co. of New York Inc.	Electric	1	A-
Consumers Energy Co.	Electric	1	BBB+
Dayton Power & Light Co.	Electric	2	BB
Delmarva Power & Light Co.	Electric	1	BBB+
DTE Electric Co.	Electric	1	BBB+
Duke Energy Carolinas LLC	Electric	1	BBB+
Duke Energy Florida Inc.	Electric	1	BBB+
Duke Energy Indiana Inc.	Electric	1	BBB+
Duke Energy Kentucky Inc.	Electric	2	BBB+
Duke Energy Ohio Inc.	Electric	2	BBB+
Duke Energy Progress Inc.	Electric	_ 1	BBB+
Duquesne Light Co.	Electric	1	BBB
El Paso Electric Co.	Electric	2	BBB
Empire District Electric Co.	Electric	2	BBB
Entergy Arkansas Inc.	Electric	1	BBB
Entergy Gulf States Louisiana LLC	Electric	1	BBB
Entergy Louisiana LLC	Electric	1	BBB
= -	Electric	1	BBB
Entergy Mississippi Inc.			
Entergy New Orleans Inc.	Electric	2 2	BBB
Entergy Texas Inc.	Electric		BBB
Florida Power & Light Co.	Electric	1	A-
Georgia Power Co.	Electric	1	A
Green Mountain Power Corp.	Electric	1	BBB+
Gulf Power Co.	Electric	1	Α
Hawaiian Electric Co. Inc.	Electric	2	BBB-
Idaho Power Co.	Electric	2	BBB
Indiana Michigan Power Co.	Electric	1	BBB
Indianapolis Power & Light Co.	Electric	1	BB+
Interstate Power & Light Co.	Electric	1	A-
Jersey Central Power & Light Co.	Electric	2	BBB-
Kansas City Power & Light Co.	Electric	1	BBB+
Kansas Gas & Electric Co.	Electric	1	BBB+
KCP&L Greater Missouri Operations Co.	Electric	2	BBB+

Kentucky Power Co.	Electric	2	BBB
Kentucky Utilities Co.	Electric	1	BBB
LG&E and KU Energy LLC	Electric	1	BBB
= <del>-</del>		1	
Louisville Gas & Electric Co.	Electric	=	BBB
Madison Gas & Electric Co.	Electric	1	AA-
Metropolitan Edison Co.	Electric	1	BBB-
MidAmerican Energy Co.	Electric	1	A-
Mississippi Power Co.	Electric	2	Α
Monongahela Power Co.	Electric	2	BBB-
Nevada Power Co.	Electric	2	BBB+
New York State Electric & Gas Corp.	Electric	1	BBB+
	Electric	1	A-
Niagara Mohawk Power Corp.		=	
Northern Indiana Public Service Co.	Electric	2	BBB-
Northern States Power Co.	Electric	1	Α-
Northern States Power Wisconsin	Electric	1	A-
NSTAR Electric Co.	Electric	1	A-
Ohio Edison Co.	Electric	1	BBB-
Ohio Power Co.	Electric	1	BBB
Oklahoma Gas & Electric Co.	Electric	1	A-
Oncor Electric Delivery Co. LLC	Electric	1	BBB+
•		1	
Orange and Rockland Utilities Inc.	Electric	=	A-
Otter Tail Power Co.	Electric	2	BBB
Pacific Gas & Electric Co.	Electric	1	BBB
PacifiCorp	Electric	1	A-
PECO Energy Co.	Electric	1	BBB
Pennsylvania Electric Co.	Electric	1	BBB-
Pennsylvania Power Co.	Electric	1	BBB-
Portland General Electric Co.	Electric	2	BBB
Potomac Edison Co.	Electric	2	BBB-
		1	
Potomac Electric Power Co.	Electric	=	BBB+
PPL Electric Utilities Corp.	Electric	1	BBB
Public Service Co. of Colorado	Electric	1	A-
Public Service Co. of New Hampshire	Electric	1	A-
Public Service Co. of New Mexico	Electric	2	BBB
Public Service Co. of Oklahoma	Electric	2	BBB
Public Service Electric & Gas Co.	Electric	1	BBB+
Puget Sound Energy Inc.	Electric	2	BBB
Rochester Gas & Electric Corp.	Electric	1	BBB+
San Diego Gas & Electric Co.	Electric	1	A
· ·		=	
Sierra Pacific Power Co.	Electric	2	BBB+
South Carolina Electric & Gas Co.	Electric	1	BBB+
Southern California Edison Co.	Electric	1	BBB+
Southern Indiana Gas & Electric Co.	Electric	1	A-
Southwestern Electric Power Co.	Electric	1	BBB
Southwestern Public Service Co.	Electric	1	A-
Tampa Electric Co.	Electric	1	BBB+
Texas-New Mexico Power Co.	Electric	1	BBB
Toledo Edison Co.	Electric	1	BBB-
Tucson Electric Power Co.	Electric	2	BBB+
UIL Holdings Corp.	Electric	1	BBB
Union Electric Co. d/b/a Ameren Missouri	Electric	1	BBB+
United Illuminating Co. (The)	Electric	1	BBB
Virginia Electric & Power Co.	Electric	1	A-
West Penn Power Co.	Electric	1	BBB-
Western Massachusetts Electric Co.	Electric	1	A-
Wisconsin Electric Power Co.	Electric	1	A-
Wisconsin Power & Light Co.	Electric	1	A
Wisconsin Public Service Corp.	Electric	1	A-

Source: Standard & Poors Ratings Direct, as of March 5, 2015. (Company provided data).

Business Risk: 1 = "Excellent", 2 = "Stong", 3 = "Satisfactory", 4 = "Fair", 5 = "Weak", 6 = "Vulnerable"

Recently Authorized ROEs

						Recently Authori	zed ROEs					All Cases		Vortic	ally Intogr	tod
Control   Cont							Return on					All Cases		vertic	any integra	itea
Macrost   Separate Colly Price of Aligns   Separate Colly Price of Aligns   Separate Colly Price of College   Separate Coll   Separate College							Equity	Vertically			Above		Below	Above		
Massard   MSCPAL Grown Missard Pote   C. B. (2017) (1985)   Emrit   Ventury Missard   MSCPAL Grown Missard Pote   C. C. Set 497)   Emrit   Ventury Missard   C. C. C. Set 497)   Emrit   Ventury Missard   C.									Distribution		Average		Average	Average		Average
Massard   March   Ma																
Inchange   Control of Control   Control   Control of Control of Control   Control of Control of Control of Control   Control of Control of Control of Control of Control   Control of Control																
Content											10.20			10.20		
New York   Nagara Michael Promot Cap   12-5-001   12-									9.75				9.75			
Indiana								10.00							10.00	
Check   Chec								0.80	9.30						0.80	
Morting								9.00	9.84						9.00	
Note   Company   Progress   LC     Dec   25 to 1023     Dec   Progress   LC   Dec   25 to 1023     Dec   Progress   LC   Dec   Dec   Progress   LC   Dec   Dec   Progress   LC   Dec   D								10.30	0.01						10.30	
According   Tupon Benich Private   Co.   D. E-0.183.A-1-2.0231   Electric   Destruction   Elec	North Carolina		D-E-2, Sub 1023	Electric	Vertically Integrated	5/30/2013	10.20	10.20		Average / 1						
New Justing   Allance City Executor Co.   Allance City Executor   Delicative City   Company																
Washington   Pupel Sourie Enterly Inc.   DuE-159157   Electic   Wincolar Integrated   Communic Cluster   Electric   Communic								10.00	0.75						10.00	
Maryland   Polionia Electer Fower Co.   Morther States Prover Co.   Morther States P								9.80	9.75						9.80	
Morther Consection   Morthern States Prover Co - Min   D-400/05-11-26   Electric   United Illuminating Co.   D-13/01-126   Electric   United Illuminating Co.								0.00	9.36			0.00	9.36		0.00	
South Controlling   Dute Ferry Carolinas LLC   D-2015-50-E   Electric   Verlosiny Hintegrated   011/2013   10.20   1			D-E-002/GR-12-961					9.83		Average / 2		9.83			9.83	
Florida   Tampa Efeiric Co.   Data Eneigy Carolinas LLC   Data Eneigy Carolinas LLC	Connecticut				Distribution				9.15				9.15			
North Carcillane   Duck Energy Carolines LLC   De-7, Sub 1026   Electric   Section												10.20			10.20	
Total   Southwestern   Enterity   Character   Flower Co.											10.25	10.20		10.25	10.20	
Wisconsin   Public Service Comp.   D-880-UR-122 (Service Comp.												10.20	9.65		10.20	9.65
Vestar Energy Inc.   Chi-13-WSEE-628-FTS   Electric Vertically Integrated   117-127-131   10.00   10.00   Above Average / 2   10.00   10.00   10.00   Above Average / 2   10.00   10.00   10.00   Above Average / 3   10.25					, ,						10.20		3.03	10.20		3.03
Florida   Quil Power Co.   U.5190140-El   Electric   Vertically Integrated   12/20/13   10.25   10.25   Above Average / 3   10.25   10.25     10												10.00			10.00	
Washington   PacificOrp   Pac	Virginia	Virginia Electric & Power Co.	C-PUE-2013-00020	Electric	Vertically Integrated					Above Average / 2						
Wisconsin   Northern States Power Co - VI   D-4220/RT-19 (Files)   Electric   Vertically Integrated   15/20/213   10.20   10											10.25			10.25		
Illinois   American Illinois   American Illinois   D-13-0301   Electric   D-15-0501   Ele											40.00	9.50		40.00	9.50	
Decision   Portinand General Electric   Co.								10.20	8 72		10.20		8 72	10.20		
Maryland   Ballinnore Gas and Electric Co.   C-9208 (electric Distribution   12/13/2013   9.75   9.75   Below Average / 1   9.95   9.95   9.95   1.0								9.75	0.72			9.75	0.72		9.75	
Louisiana   Entergy Gulf Salates LA LC   D-U-32707   Electric   Vertically Integrated   12/16/2013   9.95   9.95   9.95   Average / 1   9.95								00	9.75				9.75			
Nevada   Slera Pacific Power Co.   D.13-06002   Electric   Vertically Integrated   2/16/2013   0.12   0.1	Louisiana									Average / 1						
Artzona   UNS Electric   Inc.   C-04204A-12-0504   Electric   Centrally Integrated   12/17/2013   0.50																
Georgia   Georgia Power Co.   D-36889   Electric   Certically Integrated   12/17/2013   10.95   10.95   R.72   R.72   Relow Newrage / 1   R.72   R.																
Illinois   Commonwealth Edison Co.   0-13-03-18   Electric   Distribution   12/18/2013   8.72   8.72   Below Average / 1   8.72   New Jone Co.   C-1-17274   Electric   Vertically Integrated   Vert					, ,						10.05	9.50		10.05	9.50	
Oregon   Pacificary   Definition   Power Co.   C. U-17274   Electric   Vertically Integrated   12/18/2013   9.80   9.80   Average / 3   9.80   9.80   Average / 1   10.15								10.95	8 72		10.33		8.72	10.33		
Michigan   Upper Peninsula Power Co. C-U-17274   Electric   Vertically Integrated   12/19/2013   10.15   10.15   New York   Consolidated Edison Co. of NY   C-13-E-0030   Electric   Distribution   2/20/2014   9.70   9.50   Average / 2   9.50   9.50   9.50   9.50   North Dakota   Northern States Power Co. NN   C-14-E-0030   Electric   Distribution   2/20/2014   9.70   9.75   Average / 1   9.75   9.75   New Hampshire   Liberty Utilities Granite St   D-DE-13-063   Electric   Distribution   3/17/2014   9.55   9.55   Average / 1   9.75   9.75   Average / 1   9.75   9.75   Average / 1   9.75   9.75   P. 17/2014								9.80				9.80	-		9.80	
New York   Consolidated Edison Co. of NY   C-13-E-0030   Electric   Destriction Co. Min   C-14-E-0030   Electric   Destriction Co. Min   C-14-E-0030   Electric   Destrict of Co. Min   C-14-E-0030   D-DE-13-063   Electric   Destrict of Co. Min   C-14-E-0030   D-DE-13-063   Electric   Destrict of Co. Min   C-14-E-0030   D-DE-13-063   Electric   Destriction   D-DE-13-063   Electric	Michigan	Upper Peninsula Power Co.		Electric												
Northern States Power Co NM   CPU-12-813   Electric   Vertically Integrated   2/28/2014   9.75   9.75   Average / 1   9.75   9.75   Average / 1   9.75   9.75   Polymore								9.50							9.50	
New Hampshire   Liberty Ullillies Granite St   D-DE-13-063   Electric   Distribution   3/17/2014   9.55   9.55   9.55   9.55   9.55   9.60   9.40   Policy   Policy								0.75	9.20						0.75	
District of Columbia   Potomac Electric Power Co.   FC-1103-2013-E   Electric   Distribution   Sudhwestern Public Service Co   C-12-00350-UT   Electric   Distribution   Sudhwestern Public Service Core   D-13-115   Electric   Distribution   Sudhwestern Public Service Core   D-2013-0043   Electric   Distribution   Sudhwestern Public Service Core   D-2013-0048   Electric   Distribution   Sudhwestern Public Service Core   D-2013-0048   Electric   Distribution   Sudhwestern Public Service Core   D-13-035-184   Electric   Distribution   Sudhwestern Public Service Core   D-14-05004   Electric   Distribution   Sudhwestern Public Service Core   D-14-05004   Electric   Distribution   Sudhwestern Public Service Core   D-14-05004   Electric   D-14-05004   Electric   D-14-05004   Electric   D-14-05004   Electric   D-1								9.75	0.55						9.75	
New Mexico   New Mexico   New Mexico   Delmarve Power & Light Co.   Delmarve Power Po												3.55	9.40			
Entergy Texas Inc.								9.96		•			9.96			9.96
Masachusetts   Fitchburg Gas & Electric Light   DPU 13-90   Electric   Distribution   S/30/2014   9.70   9.70   Average / 3   9.70									9.70			9.70				
Wisconsin   Wisconsin   Power and Light Co   D-680-UR-119 (Elect)   Electric   Vertically Integrated   6/6/2014   10.40   10.40   Nove Average / 2   10.40   10.40   Nove Average / 2   10.20   Nove Average / 2					, ,			9.80					9.80			9.80
Marine   Emera Maine   D-2013-00443   Electric   Distribution   G/30/2014   9.55   9.55   Average / 2   9.55   9.62								10.40	9.70		10.40	9.70		10.40		
Maryland   Potomac Electric Power Co.   C-9336   Electric   Distribution   7/2/2014   9.62   9.62   Below Average / 2   9.62   Below Average / 2   9.95   9.95   New Jersey   Rockland Electric Company   D-ER-13111135   Electric   Distribution   7/2/2014   9.95   9.95   New Jersey   Rockland Electric Company   D-ER-13111135   Electric   Distribution   7/2/2014   9.75   9.75   Nerage / 3   9.75   Nerage / 3   9.75   New Jersey   Allantic City Electric   D-20003-132-EER-13   Electric   Distribution   7/2/2014   9.45   9.45   Nerage / 2   9.45   New Jersey   Allantic City Electric   D-20003-132-EER-13   Electric   Distribution   8/2/2014   9.75   9.75   Nerage / 3   9.90   9.90   New Jersey   Allantic City Electric   D-20003-132-EER-13   Electric   Distribution   8/2/2014   9.75   9.75   Nerage / 3   9.75   Nerage / 3   9.60   9.60   9.60   Nerage / 3   9.60   9.60   9.60   9.60   Nerage / 3   9.60   9.60   9.60   9.60   Nerage / 2   9.80   9.80   9.80   9.80   Nerage / 2   9.80   9.80   9.80   9.80   Nevada   Nevada Power Co.   D-14-05004   Electric   Vertically Integrated   10/9/2014   9.56   9.56   Below Average / 3   9.56   9.56   Nevada Power Co.   D-14-05004   Electric   Vertically Integrated   10/9/2014   9.80   9.80   9.80   Nevada Power Co.   D-14-066   Electric   Vertically Integrated   11/6/2014   9.56   9.56   Below Average / 2   10.20   10.20   Nisconsin   Wisconsin Public Service Corp.   D-6690-UR-123 (Elec)   Electric   Vertically Integrated   11/6/2014   10.20   10.20   Above Average / 2   10.20   10.20   10.20   Nove Average / 2   10.20   10.20   Nove Average / 2   10.20   10.20   Nove Average / 2   10.20   10.20   Nisconsin   Madison Gas and Electric Co.   D-3270-UR-120 (Elec)   Electric   Vertically Integrated   11/2/2/2014   10.20   10.20   Above Average / 2   10.20   10.20   Nove Average		· ·			, ,			10.40	9.55		10.40	9.55		10.40		
Louisiana   Entergy Louisiana LLC   D-UD-13-01   Electric   Vertically Integrated   7/10/2014   9.95   9.95   Average / 1   9.95   9.												0.00	9.62			
Maine         Central Maine Power Co.         D-2013-00168         Electric Distribution         7/29/2014         9.45         Average / 2         9.45         9.45           Wyoming         Cheyenne Light Fuel Power Co.         D-20003-132-ER-13         Electric Vertically Integrated Power Co.         7/31/2014         9.90         9.90         Average / 2         9.90         9.90           New Jersey         Atlantic City Electric Co.         D-ER-14030245         Electric Distribution         8/20/2014         9.75         Average / 3         9.75         9.75         Average / 3         9.75         9.60         9.60         9.60         9.60         9.60         9.60         9.60         9.60         9.60         9.60         9.60         9.80 </td <td></td> <td></td> <td>D-UD-13-01</td> <td>Electric</td> <td></td> <td>7/10/2014</td> <td>9.95</td> <td>9.95</td> <td></td> <td></td> <td></td> <td>9.95</td> <td></td> <td></td> <td>9.95</td> <td></td>			D-UD-13-01	Electric		7/10/2014	9.95	9.95				9.95			9.95	
Wyoming   Cheyenne Light Fuel Power Co.   D-20003-132-ER-13   Electric   Vertically Integrated   7/31/2014   9.90   9.90   Average / 2   9.90   9.9																
New Jersey         Atlantic City Electric Co.         D-ER.14030245         Electric Petricular Industrian Power Corp         B/20/2014         9.75         9.75         Average / 3         9.75         9.75         Average / 3         9.75         9.75         Average / 3         9.75         9.60         9.60         Average / 3         9.75         9.60         9.60         Average / 3         9.75         9.80         9.60         9.60         Average / 3         9.75         9.60         9.60         Average / 3         9.60         9.60         9.60         Average / 3         9.75         9.80         9.60         9.60         Average / 3         9.60         9.60         9.60         Average / 2         9.80									9.45						0.00	
Vermont         Green Mountain Power Corp         D-8190, 8191         Electric         Vertically Integrated         8/25/2014         9.60         9.60         Average / 3         9.60         9.60         9.60           Utah         PacifiCorp         D-13-035-184         Electric         Vertically Integrated         8/25/2014         9.80         9.80         Average / 2         9.80         9.80           Florida         Florida Public Utilities Co.         D-14-05004         Electric         Vertically Integrated         10/9/2014         9.80         9.80         Average / 2         9.80         9.80           Nevada         Nevada Power Co.         D-14-05004         Electric         Vertically Integrated         10/9/2014         9.80         9.80         Average / 2         9.80         9.80           Illinois         MidAmerican Energy Co.         D-14-0066         Electric         Vertically Integrated         11/6/2014         9.56         9.56         Below Average / 2         9.80         9.56           Wisconsin         Wisconsin Public Service Corp.         D-6690-UR-123 (Elec)         Electric         Vertically Integrated         11/6/2014         10.20         10.20         Above Average / 2         10.20         10.20           Wisconsin         Wisconsin Electric Po								9.90	0.75						9.90	
Utah   PacifiCorp   D-13-035-184   Electric   Vertically Integrated   8/29/2014   9.80   9.80   Average / 2   9.80   9.								9.60	9.75						9.60	
Florida   Florida   Public Utilities Co.   D-140025-El   Electric   Vertically Integrated   9/15/2014   10.25   10.25   Above Average / 3   10.25   10.25   Above Average / 2   9.80   9.80   9.80   9.80   9.80   9.80   Average / 2   10.20   Above Average / 2   10.20   10.20   Above Average / 2   10.20   10.20   10.20   Above Average / 2   10.20   10.20   10.20   Above Average / 2   10.20																
Illinois   MidAmerican Energy Co.   D-14-0066   Electric   Vertically Integrated   11/6/2014   9.56   9.56   Below Average / 1   9.56   9.56	Florida	Florida Public Utilities Co.	D-140025-EI	Electric	Vertically Integrated	9/15/2014	10.25	10.25		Above Average / 3	10.25			10.25		
Wisconsin         Wisconsin Public Service Corp.         D-6690-UR-123 (Elec)         Electric         Vertically Integrated         11/6/2014         10.20         10.20         Above Average / 2         10.20         10.20         10.20         10.20         Above Average / 2         10.20         10.20         10.20         Above Average / 2         10.20         10.20         10.20         Above Average / 2         10.20         10.20         10.20         10.20         Above Average / 2         10.20 </td <td></td> <td>9.80</td> <td></td> <td></td> <td>9.80</td> <td></td>												9.80			9.80	
Wisconsin         Wisconsin Electric Power Co.         D-05-UR-107 (WEP-Elec)         Electric Vertically Integrated         11/14/2014         10.20         Above Average / 2         10.20         10.20         Above Average / 2         10.20         10.20         10.20         Above Average / 2         9.70         9.70         Above Average / 2         9.70         9.70         9.70         Above Average / 2         9.70         9.70         9.70         Above Average / 2         10.20         10.20         10.20         Above Average / 2         10.20         10.20         10.20         10.20         Above Average / 2         10.20         10.20         10.20         10.20         10.20         Above Average / 2         10.20         10.20         10.20         10.20         10.20         Above Average / 2         10.20         <		0,									40.00		9.56	40.00		9.56
Virginia         Appalachian Power Co.         C-PUE-2014-00026         Electric         Vertically Integrated         11/26/2014         9.70         9.70         Above Average / 2         9.70         9.70           Wisconsin         Madison Gas and Electric Co.         D-3270-UR-120 (Elec)         Electric         Vertically Integrated         11/26/2014         10.20         10.20         Above Average / 2         10.20         10.20																
Wisconsin         Madison Gas and Electric Co.         D-3270-UR-120 (Elec)         Electric Vertically Integrated         11/26/2014         10.20         10.20         Above Average / 2         10.20         10.20																
		Portland General Electric Co.	D-UE-283	Electric	Vertically Integrated	12/4/2014	9.68	9.68		Average / 3		9.68			9.68	

Exhibit RBH-42. Page 2 of 2	Sponsored by Robert B. Hever	DOCKEL NO. TOOOK I-EI

Illinois	Ameren Illinois	D-14-0317	Electric	Distribution	12/10/2014	9.25		9.25	Below Average / 1			9.25			ĺ
Illinois	Commonwealth Edison Co.	D-14-0312	Electric	Distribution	12/10/2014	9.25		9.25	Below Average / 1			9.25			
Mississippi	Entergy Mississippi Inc.	D-2014-UN-0132	Electric	Vertically Integrated	12/11/2014	10.07	10.07		Above Average / 3	10.07			10.07		
Wisconsin	Northern States Power Co - WI	D-4220-UR-120 (Elec)	Electric	Vertically Integrated	12/12/2014	10.20	10.20		Above Average / 2	10.20			10.20		
Connecticut	Connecticut Light & Power Co.	D-14-05-06	Electric	Distribution	12/17/2014	9.17		9.17	Below Average / 2			9.17			
Colorado	Black Hills Colorado Electric	D-14AL-0393E	Electric	Vertically Integrated	12/18/2014	9.83	9.83		Average / 1		9.83			9.83	
Wyoming	PacifiCorp	D-20000-446-ER-14	Electric	Vertically Integrated	1/23/2015	9.50	9.50		Average / 2		9.50			9.50	
Colorado	Public Service Co. of CO	D-14AL-0660E	Electric	Vertically Integrated	2/24/2015	9.83	9.83		Average / 1		9.83			9.83	
New Jersey	Jersey Cntrl Power & Light Co.	D-ER-12111052	Electric	Distribution	3/18/2015	9.75		9.75	Average / 3		9.75				
Washington	PacifiCorp	D-UE-140762	Electric	Vertically Integrated	3/25/2015	9.50	9.50		Average / 3		9.50			9.50	
Minnesota	Northern States Power Co MN	D-E-002/GR-13-868	Electric	Vertically Integrated	3/26/2015	9.72	9.72		Average / 2		9.72			9.72	
Michigan	Wisconsin Public Service Corp.	C-U-17669	Electric	Vertically Integrated	4/23/2015	10.20	10.20		Average / 1		10.20			10.20	
Missouri	Union Electric Co.	C-ER-2014-0258	Electric	Vertically Integrated	4/29/2015	9.53	9.53		Average / 2		9.53			9.53	
West Virginia	Appalachian Power Co.	C-14-1152-E-42T	Electric	Vertically Integrated	5/26/2015	9.75	9.75		Below Average / 1			9.75			9.75
New York	Central Hudson Gas & Electric	C-14-E-0318	Electric	Distribution	6/17/2015	9.00		9.00	Average / 2		9.00				
New York	Consolidated Edison Co. of NY	C-15-E-0050/C-13-E-0030 (Ext)	Electric	Distribution	6/17/2015	9.00		9.00	Average / 2		9.00				
Missouri	Kansas City Power & Light	C-ER-2014-0370	Electric	Vertically Integrated	9/2/2015	9.50	9.50		Average / 2		9.50			9.50	
Kansas	Kansas City Power & Light	D-15-KCPE-116-RTS	Electric	Vertically Integrated	9/10/2015	9.30	9.30		Average / 2		9.30			9.30	
New York	Orange & Rockland Utits Inc.	C-14-E-0493	Electric	Distribution	10/15/2015	9.00		9.00	Average / 2		9.00				
Wisconsin	Wisconsin Public Service Corp.	D-6690-UR-124 (Elec)	Electric	Vertically Integrated	11/19/2015	10.00	10.00		Above Average / 2	10.00			10.00		
Michigan	Consumers Energy Co.	C-U-17735	Electric	Vertically Integrated	11/19/2015	10.30	10.30		Average / 1		10.30			10.30	
Wisconsin	Northern States Power Co - WI	D-4220-UR-121 (Elec)	Electric	Vertically Integrated	12/3/2015	10.00	10.00		Above Average / 2	10.00			10.00		
Illinois	Ameren Illinois	D-15-0305	Electric	Distribution	12/9/2015	9.14		9.14	Below Average / 1			9.14			
Illinois	Commonwealth Edison Co.	D-15-0287	Electric	Distribution	12/9/2015	9.14		9.14	Below Average / 1			9.14			
Michigan	DTE Electric Co.	C-U-17767	Electric	Vertically Integrated	12/11/2015	10.30	10.30	0	Average / 1		10.30	• • • • •		10.30	
Oregon	Portland General Electric Co.	D-UE-294	Electric	Vertically Integrated	12/15/2015	9.60	9.60		Average / 3		9.60			9.60	
Texas	Southwestern Public Service Co	D-43695	Electric	Vertically Integrated	12/17/2015	9.70	9.70		Below Average / 1			9.70			9.70
Idaho	Avista Corp.	C-AVU-E-15-05	Electric	Vertically Integrated	12/18/2015	9.50	9.50		Average / 2		9.50	••		9.50	
Wyoming	PacifiCorp	D-20000-469-ER-15	Electric	Vertically Integrated	12/30/2015	9.50	9.50		Average / 2		9.50			9.50	
Washington	Avista Corp.	D-UE-150204	Electric	Vertically Integrated	1/6/2016	9.50	9.50		Average / 3		9.50			9.50	
Arkansas	Entergy Arkansas Inc.	D-15-015-U	Electric	Vertically Integrated	2/23/2016	9.75	9.75		Average / 2		9.75			9.75	
Indiana	Indianapolis Power & Light Co.	Ca-44576	Electric	Vertically Integrated	3/16/2016	9.85	9.85		Above Average / 3	9.85			9.85		
Massachusetts	Fitchburg Gas & Electric Light	DPU 15-80	Electric	Distribution	4/29/2016	9.80	0.00	9.80	Average / 3	0.00	9.80		0.00		
Maryland	Baltimore Gas and Electric Co.	C-9406 (elec)	Electric	Distribution	6/3/2016	9.75		9.75	Below Average / 2		0.00	9.75			
New Mexico	El Paso Electric Co.	C-15-00127-UT	Electric	Vertically Integrated	6/8/2016	9.48	9.48	0.70	Below Average / 1			9.48			9.48
New York	NY State Electric & Gas Corp.	C-15-E-0283	Electric	Distribution	6/15/2016	9.00	0.40	9.00	Average / 2		9.00	0.10			0.10
New York	Rochester Gas & Electric Corp.	C-15-E-0285	Electric	Distribution	6/15/2016	9.00		9.00	Average / 2		9.00				
INCW TOTA	Nochester das & Electric dorp.	C-13-L-0203	LICCUIC	Distribution	Total Cases	103	71	32	/Weitage / Z	18	64	21	18	46	7
					Mean	9.73	9.88	9.38		10.17	9.70	9.43	10.17	9.79	9.70
					Median	9.75	9.83	9.38		10.17	9.75	9.48	10.17	9.80	9.70
					Maximum	10.95	10.95	9.84		10.95	10.30	9.96	10.25	10.30	9.96
Source: SNL Finance	rial				Minimum	8.72	9.00	8.72		9.70	9.00	8.72	9.70	9.00	9.48
Jource. SINE FINALIC	Jiai				WIIIIIIIIIII	0.12	3.00	0.72		3.10	3.00	0.72	3.10	3.00	J.40

Summary of Adjustment Clauses & Alternative Regulation/Incentive Plans

			F1/		Adj	ustment Claus	es		
Company	Parent	State	Fuel/ Purchased Power	Decoupling (F/P) [1]	New Capital Investment [2]	Energy Efficiency [3]	Renewables & RPS [4]	Environmental [5]	Other [6]
Ameren Illinois Company	AEE	Illinois	rowei	(F/F) [1]	invesiment [2]	∠ Elliciency [3]	KF3 [4]	[ <u>ə</u> ]	Other [6]
Union Electric Company	AEE	Missouri	✓	Р		· /	•	· /	· /
Southwestern Electric Power Company	AEP	Arkansas	· /	P	✓	· /		•	,
Indiana Michigan Power Company	AEP	Indiana		P	•	· /		1	,
Kentucky Power Company	AEP	Kentucky		Р	✓	· /		· /	· /
Southwestern Electric Power Company	AEP	Louisiana		P	•	· /		,	
Indiana Michigan Power Company	AEP	Michigan				· /	1	·	•
Ohio Power Company	AEP	Ohio	,	Р	1	· /	, ,		1
Public Service Company of Oklahoma	AEP	Oklahoma	<b>✓</b>	P	,	· /	·		
Kingsport Power Company	AEP	Tennessee		'	•	•			•
AEP Texas Central Company	AEP	Texas	,		/	✓			
AEP Texas North Company	AEP	Texas			,	,			
Southwestern Electric Power Company	AEP	Texas	1		,	· /			
Appalachian Power Company	AEP	Virginia	· /		,	,	1	1	1
Appalachian Power Company Appalachian Power Company	AEP	West Virginia			•	·	•	•	,
Wheeling Power Company	AEP	West Virginia	· /						1
ALLETE (Minnesota Power)	ALE	Minnesota				✓	✓	/	./
		Alaska				•	•	•	•
Alaska Electric Light and Power Company	AVA		<b>✓</b>						
Avista Corporation - Electric	AVA	Idaho Washington		F		•			
Avista Corporation - Electric	AVA	Washington	<b>✓</b>	F		✓	./		
Consumers Energy Company	CMS	Michigan	I			<b>V</b>	· ·		,
DTE Electric Company	DTE	Michigan	· ,			<b>√</b>	•		<b>v</b>
El Paso Electric	EE	New Mexico	· ·		,	<b>v</b>			<b>v</b>
El Paso Electric	EE	Texas	· ·	_	•	<b>v</b>			•
Connecticut Light & Power	ES	Connecticut	· ·	F		<b>v</b>			· ·
NSTAR Electric	ES	Massachusetts		_		✓.			<b>V</b>
Western Massachusetts Electric	ES	Massachusetts		F	<b>√</b>	✓	✓		✓,
Public Service Co. of New Hampshire	ES_	New Hampshire	<b>*</b>	_	<b>V</b>				<b>V</b>
Entergy Arkansas	ETR	Arkansas	<b>√</b>	P	✓.	✓.			✓.
Entergy New Orleans - Electric	ETR	Louisiana	✓	Р	✓	✓		✓	✓
Entergy Louisiana - Electric	ETR	Louisiana	<b>✓</b>	Р	✓	✓		✓	✓
Entergy Mississippi	ETR	Mississippi	<b>✓</b>	Р	✓	✓		✓	✓
Entergy Texas	ETR	Texas	✓		✓	✓			✓
Potomac Edison Company	FE	Maryland				✓			✓
Jersey Central Power & Light Company	FE	New Jersey				✓	✓		✓
Cleveland Electric Illuminating Company	FE	Ohio		Р	✓	✓	✓		✓
Ohio Edison Company	FE	Ohio		Р	✓	✓	✓		✓
Toledo Edison Company	FE	Ohio		Р	✓	✓	✓		✓
Metropolitan Edison Company	FE	Pennsylvania				✓			✓
Pennsylvania Electric Company	FE	Pennsylvania				✓			✓
Pennsylvania Power Company	FE	Pennsylvania				✓			✓
West Penn Power Company	FE	Pennsylvania				✓			✓
Monongahela Power Company	FE	West Virginia	✓						✓
Potomac Edison Company	FE	West Virginia	✓						✓
Idaho Power Co.	IDA	Idaho	✓	Р		✓			
Idaho Power Co.	IDA	Oregon	✓				✓		
Interstate Power and Light Company	LNT	lowa	✓			✓	✓	✓	✓
Wisconsin Power and Light Company	LNT	Wisconsin	✓						✓
Madison Gas & Electric - Electric	MGEE	Wisconsin	✓						✓
Madison Gas & Electric - Gas	MGEE	Wisconsin	✓						✓
NorthWestern Corp	NWE	Montana	✓	Р		✓			✓
NorthWestern Corp.	NWE	South Dakota	✓			✓			
Oklahoma Gas and Electric Company	OGE	Arkansas	✓	Р	✓	✓	✓		✓
Oklahoma Gas and Electric Company	OGE	Oklahoma	✓	P	✓	✓		✓	✓
Otter Tail Power Company	OTTR	Minnesota		•	•	· /	✓	· /	
Otter Tail Power Company	OTTR	North Dakota			1	•	,	,	1
Public Service Co. of New Mexico	PNM	New Mexico			·	1	,		· /
Texas-New Mexico Power	PNM	Texas	•		./	./	•	•	./
Arizona Public Service Company	PNW	Arizona	./	Р	./	./	./	./	
Portland General Electric Company	POR	Oregon	· /	P	•	•	· /	•	•
South Carolina Electric & Gas Co.		South Carolina		۲	✓		•	./	
	SCG		<b>✓</b>		•	✓	<b>√</b>	•	
Wisconsin Electric Power	WEC WEC	Michigan	<b>✓</b>			*	•		,
Wisconsin Electric Power		Wisconsin Wisconsin							<b>v</b>
Wisconsin Public Service	WEC		<b>√</b>		,	,	,		<b>V</b>
Public Service Company of Colorado	XEL	Colorado	<b>√</b>		✓	· /	<b>√</b>	,	✓
Northern States Power Company - MN	XEL	Minnesota	<b>*</b>			<b>V</b>	<b>V</b>	✓	
Southwestern Public Service Company	XEL	New Mexico	✓.			✓	✓		✓
Northern States Power Company - MN	XEL	North Dakota	✓.		✓		✓	✓	✓.
Northern States Power Company - MN	XEL	South Dakota	✓	Р	✓	✓		✓	✓
Southwestern Public Service Company	XEL	Texas	✓		✓	✓			✓
Northern States Power Company - WI	XEL	Wisconsin	✓						✓

Summary of Adjustment Clauses & Alternative Regulation/Incentive Plans

Company Ameren Illinois Company AEE Illinois Union Electric Company AEE Arkansas Illinois Company AEE Allinois Illinois Company AEE Allinois Illinois Company AEE Allinois Illinois Company AEE Allinois Illinois Arkansas Indiana Michigan Power Company AEP Indiana Kentucky Power Company AEP Indiana Kentucky Power Company AEP Indiana Kentucky Power Company AEP Indiana Michigan Power Company AEP Indiana Michigan Power Company AEP Indiana Michigan AEP Indiana AEP	Price Freeze/ Cap	native Regul Earnings Sharing	Formula- Based	Service	
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Union Electric Company Southwestern Electric Power Company AEP Arkansas Indiana Michigan Power Company AEP Arkansas Indiana Michigan Power Company AEP Louisiana AEP Rothack AEP Louisiana AEP Louisiana AEP Louisiana AEP Louisiana AEP AEP Rexas AEP Texas AEP			ROE	Performance	Savings
Southwestern Electric Power Company Indiana Michigan Power Company AEP Indiana Indiana Michigan Power Company AEP Louisiana Indiana Michigan Power Company AEP Michigan AEP Ohio Power Company AEP Ohio Public Service Company of Oklahoma Ringsport Power Company AEP Texas Central Company AEP Texas South Company AEP Texas Central Company AEP Texas Central Company AEP Texas South Company AEP Texas Central Company AEP Texas South Company AEP Texas Central Company AEP Texas South Company AEP Texas South Company AEP West Virginia Power Company AEP West Virginia ALETE (Minnesota Power) ALE Minnesota Power Company ALETE (Minnesota Power) ALLETE (Minnesota Power) ALLETE (Minnesota Power) ALLETE (Minnesota Power) Allaska Electric Light and Power Company Avista Corporation - Electric Consumers Energy Company DTE Electric Company DTE Electric EE New Mexico EI Paso Electric EE Texas Connecticut Light & Power NSTAR Electric ES Massachusetts Western Massachusetts Electric ES Massachusetts Western Massachusetts Electric EE Texas Entergy New Orleans - Electric ETR Louisiana Entergy New Greans - Electric ETR Louisiana Entergy New Greans - Electric Entergy Arkansas ETR Arkansas ETR Arkansas ETR Power Potomac Edison Company FE New Jersey Cleveland Electric Illuminating Company FE New Jersey Cleveland Electric Company FE New Jersey Cleveland Electric Company FE New Jersey Cleveland Electric Company FE Pennsylvania Pennsylvania Electric Company FE Pennsylvania Monongahela Power Company FE Pennsylvania Monongahela Power Company FE Pennsylvania Monongahela Power and Light Company FE W		✓	✓	✓	
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Kingsport Power Company AEP Tennessee AEP Texas Central Company AEP Texas AEP Texas North Company AEP Texas AEP Texas AEP Texas North Company AEP Texas AEP					
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Wheeling Power Company         AEP         West Virginia           ALLETTE (Minnesota Power)         ALE         Minnesota           Alaska Electric Light and Power Company         AVA         Alaska           Avista Corporation - Electric         AVA         Idaho           Avista Corporation - Electric         AVA         Washington           Consumers Energy Company         CMS         Michigan           DTE Electric Company         DTE         Michigan           El Paso Electric         EE         New Mexico           El Paso Electric         EE         New Mexico           El Paso Electric         ES         Connecticut           NSTAR Electric         ES         Massachusetts           Western Massachusetts         ES         New Hampshire           Entergy Arkansas         ETR         Arkansas           Entergy New Orleans - Electric         ETR         Louisiana           Entergy Worleans - Electric         ETR         Louisiana           Entergy Mississippi         ETR         Louisian		✓	✓	✓	
ALLETE (Minnesota Power) Alaska Electric Light and Power Company Alaska Electric Light and Power Company Ava Alaska Avista Corporation - Electric Ava Washington Consumers Energy Company DTE Electric Company El Paso Electric El Electric El Paso Electric Electric Electric El Paso Electric Elec					
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Avista Corporation - Electric Consumers Energy Company DTE Ellectric Company El Paso Electric Elle Electric El Paso Electric Ellectric Ellectric El Paso Electric Ellectric Ellectri	,				
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South Carolina Electric & Gas Co. SCG South Carolina	✓				
vvisconsin Electric Power WEC Michigan	✓				
Wisconsis Floatric Pours	,				
Wisconsin Electric Power WEC Wisconsin	✓				
Wisconsin Public Service WEC Wisconsin  Public Service Company of Colorado YEL Colorado	./				
Public Service Company of Colorado XEL Colorado Northern States Power Company - MN XEL Minnesota	•	✓			
Northern States Power Company - MN XEL Minnesota Southwestern Public Service Company XEL New Mexico	1				
Northern States Power Company - MN XEL North Dakota	*				
Northern States Power Company - MN XEL North Dakota  Northern States Power Company - MN XEL South Dakota	1				
Southwestern Public Service Company XEL Texas	· /				
Northern States Power Company - WI XEL Wisconsin	•				

#### Notes

A mechanism may cover one or more cost categories; therefore, designations may not indicate separate mechanisms for each category.

- [1] Full or partial decoupling (such as Straight-Fixed Variable rate design, weather normalization clauses, and recovery of lost revenues as a result of Energy Efficiency programs).
- [2] Includes recovery of costs related to targeted new generation projects, infrastructure replacement, system integrity/hardening, Smart Grid, AMI metering, and other capital expenditures.
- [3] Utility-sponsored conservation, energy efficiency, load control, or other demand side management programs.
- [4] Recovers costs associated with renewable energy projects, Distributed Energy Resources, REC purchases, net metering, RPS expense, and renewable PPAs.
- [5] EPA upgrade costs, emissions control & allowance purchase costs, nuclear decommissioning, and other costs to comply with state and federal environmental mandates.
- [6] Pension expenses, bad debt costs, storm costs, vegetation management, RTO/Transmission Expense, capacity costs, transmission costs, government & franchise fees and taxes, economic development, and low

Sources: Regulatory Research Associates, Alternative Regulation/Incentive Plans: A State-by-State Overview, November 19, 2013; Regulatory Research Associates, Adjustment Clauses: A State-by-State Overview, October 2, 2015.

Mr. Lawton's Financial Integrity Analysis Replicated, as Filed (Exhibit \_ (DJL-5))

	Α	В	С	D	E
REQUESTED CAPITAL STRUCTURE, C	OST RATES, AND RE	TURN			
DESCRIPTION	CAPITAL	RATIO	COST RATE	WEIGHTED COST	RETURN
LONG TERM DEBT CUSTOMER DEPOSITS	\$9,358,417 \$407,328	28.76% 1.25%	4.620% 2.050%	1.33% 0.03%	\$432,359 \$8,350
COMMON EQUITY	\$14,682,574	45.13%	11.500%	5.19%	\$1,688,496
SHORT TERM DEBT	\$612,939	1.88%	1.850%	0.03%	\$11,339
DEFERRED INCOME TAX	\$7,368,582	22.65%	0.000%	0.00%	\$0
INVESTMENT TAX CREDITS TOTAL CAPITAL	\$106,275 \$32,536,115	0.33% 100.00%	8.820%	0.03% 6.61%	\$9,373 \$2,149,918
RATE BASE	ψ32,330,113	100.0070	\$32,536,115	0.0170	Ψ2,149,910
PER COMPANY SCHEDULES B-1					
ALTERNATIVE CAPITAL STRUCTURE,	COST DATES AND D	ETLIDNI ON EOLII	TV @ 8 75%		
DESCRIPTION	CAPITAL	RATIO	COST RATE	WEIGHTED COST	RETURN
LONG TERM DEBT	\$11,636,598	35.56%	4.620%	1.643%	\$537,611
CUSTOMER DEPOSITS	\$409,700	1.25%	2.050%	0.026%	\$8,399
COMMON EQUITY	\$12,398,749	37.89%	8.750%	3.315%	\$1,084,891
SHORT TERM DEBT	\$762,151	2.33%	1.850%	0.043%	\$14,100
DEFERRED INCOME TAX	\$7,411,492	22.65%	0.000%	0.000%	\$0
INVESTMENT TAX CREDITS	\$106,894	0.33%	6.750%	0.022%	\$7,215
TOTAL CAPITAL	\$32,725,584	100.00%		5.049%	\$1,652,215
RATE BASE			\$32,725,584		(\$497,703)
PER COMPANY SCHEDULES B-1, ADJU	JSTED PER OPC TES <b>A</b>	TIMONY OF RAL <b>B</b>	PH SMITH EXHIB C	SIT RCS-2 P. 15	
		ALT. OPC	Ū		
	Company Requested	Capital			
LINE NO. DESCRIPTION	Capital Structure	Structure ROE	Difference	SOURCES COL. A	SOURCES COL. B
	& 11.5% ROE	Adjusted to 8.75%			
1 RATE BASE	\$32,536,115	\$32,725,584		COMPANY FILING SCHEDULE A-1	COMPANY FILING SCHEDULE A-1 ADJUSTED PER OPC TESTIMONY OF RALPH SMITH AT EXHIBIT RCS-2 P. 2.
				FPL SCHEDULE D1-A	COMPANY FILING SCHEDULE A-1 ADJUSTED PER OPC TESTIMONY OF RALPH SMITH AT EXHIBIT RCS-2 P. 2.
2 RATE OF RETURN	6.608%	5.049%		LINE 1 TIMES	
3 RETURN	\$2,149,918	\$1,652,215	(\$497,703)	LINE 2	LINE 1 TIMES LINE 2
4 DEPRECIATION & AMORTIZATION	\$1,665,925	\$1,140,564	(\$525,361)	FPL SCHEDULE C-1	OPC R. SMITH EX. RCS-2
5 CASH FLOW	\$3,815,843	\$2,792,779	(\$1,023,064)	SUM LINES 3 AND 4	SUM LINES 3 AND 4
6 TOTAL DEBT	\$9,971,356	\$12,398,749	\$2,427,393	DEBT ALL SOURCES WTD DEBT COST	DEBT ALL SOURCES
7 TOTAL INTEREST ESTIMATED	\$443,698	\$551,711		TIMES RATE BASE	WTD DEBT COST TIMES RATE BASE
	ψ1.0,000	φοσι,		27.102	
	D	E	F Moody's Guidelines for A Bonds	G Moody's Guidelines for Baa Bonds	
PROJECTED METRICS					
8 CASH FLOW/INTEREST DSC (X)	8.6	5.1	4.5x-6.0x	2.7x-4.5x	
9 CASH FLOW/DEBT (%) 10 DEBT PERCENTAGE (%)	38.27% 40.40%	22.52% 50.00%	22%-30% 35% to 45%	13%-22% 45%-55%	
SOURCES:					

COLUMNS D & E ROW 8: LINE 5/LINE 7

COLUMNS D & E ROW 9: LINE 5/LINE 6

COLUMNS D & E ROW 10: Debt Ratio Investor Sources PER CAPITAL STURCTURE RECOMMENDATION OF FPL & OPC WITNESSES COLUMN F & G: Moody's Investor Service, "Electric & Gas Utilities, Assessing Their Credit Quality and Outlook" (January 18, 2013 at 33) DEBT PERCENTAGE BASED ON INVESTOR SOURCES SEE MR. DEWHURST DIRECT AT 23:2 also see OPC witness O'Donnell ALL DOLLAR AMOUNTS ARE IN (\$000).

Mr. Lawton's Financial Integrity Analysis, adjusted (Exhibit \_ (DJL-5))

RATES, AND <u>RETUR</u> CAPITAL  \$9.358.417	RATIO			
\$0.358.417	KATIO	COST RATE	WEIGHTED COST	RETURN
ψθ,000,+17	28.76%	4.620%	1.33%	\$432,359
\$407,328	1.25% _	2.050%	0.03%	\$8,35
\$14,682,574	45.13%	0.000%	0.00%	\$
\$612,939	1.88%	1.850%	0.03%	\$11,33
\$7,368,582	22.65%	0.000%	0.00%	\$
		8.820%		\$9,37
\$32,536,115	100.00%		1.42%	\$461,42
		\$32,536,115		
CAPITAL				
· · · · · · · · · · · · · · · · · · ·	RATIO	COST RATE	WEIGHTED COST	RETURN
\$11,636,598	<b>RATIO</b> 35.56%	<b>COST RATE</b> 4.620%		<b>RETURN</b> \$537,61
			WEIGHTED COST	
\$11,636,598	35.56%	4.620%	WEIGHTED COST 1.643% 0.026%	\$537,61 \$8,39
\$11,636,598 \$409,700	35.56% 1.25%	4.620% 2.050%	WEIGHTED COST 1.643% 0.026%	\$537,61 \$8,39 \$774,80
\$11,636,598 \$409,700 \$12,398,749	35.56% 1.25% 37.89%	4.620% 2.050% <b>6.249%</b>	WEIGHTED COST 1.643% 0.026% 2.368%	\$537,61 \$8,39! \$774,80! \$14,10!
\$11,636,598 \$409,700 \$12,398,749 \$762,151	35.56% 1.25% 37.89% 2.33%	4.620% 2.050% <b>6.249%</b> 1.850%	WEIGHTED COST 1.643% 0.026% 2.368% 0.043%	\$537,61 \$8,39 \$774,80 \$14,10
\$11,636,598 \$409,700 \$12,398,749 \$762,151 \$7,411,492	35.56% 1.25% 37.89% 2.33% 22.65%	4.620% 2.050% <b>6.249%</b> 1.850% 0.000%	WEIGHTED COST 1.643% 0.026% 2.368% 0.043% 0.000%	\$537,61
	\$612,939 \$7,368,582 \$106,275 \$32,536,115	\$612,939 1.88% \$7,368,582 22.65% \$106,275 0.33% \$32,536,115 100.00%	\$612,939 1.88% 1.850% \$7,368,582 22.65% 0.000% \$106,275 0.33% 8.820%	\$612,939

LINE NO	. DESCRIPTION	A Company Requested Capital Structure & <u>0.00%</u> ROE	B ALT. OPC Capital Structure ROE Adjusted to 8.75%	C Difference	SOURCES COL. A	SOURCES COL. B
	1 RATE BASE	\$32,536,115	\$32,725,584		COMPANY FILING SCHEDULE A-1	COMPANY FILING SCHEDULE A-1 ADJUSTED PER OPC TESTIMONY OF RALPH SMITH AT EXHIBIT RCS-2 P. 2.
	2 RATE OF RETURN	1.418%	4.101%		FPL SCHEDULE D1-A	COMPANY FILING SCHEDULE A-1 ADJUSTED PER OPC TESTIMONY OF RALPH SMITH AT EXHIBIT RCS-2 P. 2.
:	3 RETURN	\$461,422	\$1,342,134	\$880,712	LINE 1 TIMES LINE 2	LINE 1 TIMES LINE 2
	4 DEPRECIATION & AMORTIZATION	\$1,665,925	\$1,140,564	(\$525,361)	EDI SCHEDIILE C	OPC R. SMITH EX. RCS-2
	5 CASH FLOW	\$2,127,347	\$2,482,698	\$355,351	SUM LINES 3 AND 4	SUM LINES 3 AND 4
(	6 TOTAL DEBT	\$9,971,356	\$12,398,749	\$2,427,393	DEBT ALL SOURCES WTD DEBT COST	DEBT ALL SOURCES
7	7 TOTAL INTEREST ESTIMATED	\$443,698	\$551,711		TIMES RATE BASE	WTD DEBT COST TIMES RATE BASE
		D	E	F Moody's Guidelines for A Bonds	G Moody's Guidelines for Baa Bonds	
ę	PROJECTED METRICS  8 CASH FLOW/INTEREST DSC (X)  9 CASH FLOW/DEBT (%)  0 DEBT PERCENTAGE (%)	4.8 21.33% 40.40%	<b>4.5</b> 20.02% 50.00%	4.5x-6.0x 22%-30% 35% to 45%	2.7x-4.5x 13%-22% 45%-55%	

#### SOURCES

COLUMNS D & E ROW 8: LINE 5/LINE 7 COLUMNS D & E ROW 9: LINE 5/LINE 6

COLUMNS D & E ROW 10: Debt Ratio Investor Sources PER CAPITAL STURCTURE RECOMMENDATION OF FPL & OPC WITNESSES COLUMN F & G: Moody's Investor Service, "Electric & Gas Utilities, Assessing Their Credit Quality and Outlook" (January 18, 2013 at 33) DEBT PERCENTAGE BASED ON INVESTOR SOURCES SEE MR. DEWHURST DIRECT AT 23:2 also see OPC witness O'Donnell ALL DOLLAR AMOUNTS ARE IN (\$000).