



VIA Electronic Filing

April 17, 2018

Florida Public Service Commission
Carlotta S. Stauffer, Commission Clerk
Office of the Commission Clerk
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: City of Bartow, Florida – Revised Tariff Sheets

Dear Ms. Stauffer:

This letter is submitted on behalf of the City of Bartow, Florida pursuant to Rules 25-9.051 through 25-9.071 of the *Florida Administrative Code*.

Electronically filed are the following revisions to Bartow's tariff sheets in legislative and final filing formats:

- a) Twentieth Revised Sheet No. 5.0 – *General Service Non-Demand Rate*;
- b) Nineteenth Revised Sheet No. 6.0 – *General Service Demand Rate – Secondary*;
- c) Third Revised Sheet No. 6.1 – *General Service Demand – Primary*;
- d) First Revised Sheet No. 6.2 – *General Service Demand – Large Power*;
- e) Sixth Revised Sheet No. 6.3 – *General Service Demand – Low Load Factor*;
- f) Nineteenth Revised Sheet No. 7.0 – *Residential Service, and*,
- g) First Revised Sheets 9.6 and 9.6.1 – *Economic Development Rider*.

Also filed for information and supportive purposes are copies of the following:

- 1) Signed copy of Bartow Ordinance No. 2018-04 with exhibits (7 pgs.) and,
- 2) 2017 Electric Rate Study for City of Bartow (65 pgs.).

If you have any questions or need clarification, please do not hesitate to contact our office.

Very truly yours,

/s/

Jody Lamar Finklea
General Counsel and Chief Legal Officer

GENERAL SERVICE NON-DEMAND

RATE SCHEDULE GS

AVAILABILITY – Available throughout the area served.

APPLICABILITY – For lighting and power in establishments not classed as Residential Service or General Service Demand.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard secondary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Standby or resale not permitted.

RATES -	Service Charge	\$8.70	\$8.00 per month
	Energy Charge	\$0.06320	\$0.06100 per kWh

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

BILLING ADJUSTMENTS – See “Power Cost Adjustment” beginning on Sheet No. 9.0
See “Public Service Tax and Surcharge” beginning on Sheet No. 9.1
See “Florida Gross Receipts tax” beginning on Sheet No. 9.3
See “Florida Sales Tax” beginning on Sheet No. 9.5.

Issued by: George A. Long
City Manager

Effective: ~~April 1, 2018~~ ~~December 1, 2011~~

GENERAL SERVICE DEMAND

RATE SCHEDULE GSD SECONDARY

AVAILABILITY – Available throughout the area served.

APPLICABILITY – For lighting and power in non-residential establishments with an electrical demand requirement of 20 kW or more for three or more months out of the past twelve months. Also available to customers with a lower demand requirement who agree to remain on this rate schedule for at least one year.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard secondary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Resale not permitted. Standby generating equipment is permitted for emergency purposes only.

RATES -	Service Charge	<u>\$21.10</u>	\$20.00 per month
	Demand Charge	<u>\$9.30</u>	\$8.83 per kW
	Energy Charge	<u>\$0.02190</u>	\$0.02080 per kWh

BILLING DEMAND - The maximum 15 minute integrated demand, but not less than 20kW.

POWER FACTOR – When the power factor is less than 90%, the Billing Demand may be determined upon the basis of 90% of the calculated kVA demand.

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus demand charges, plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

BILLING ADJUSTMENTS – See “Power Cost Adjustment” beginning on Sheet No. 9.0
See “Public Service Tax and Surcharge” beginning on Sheet No. 9.1
See “Florida Gross Receipts tax” beginning on Sheet No. 9.3
See “Florida Sales Tax” beginning on Sheet No. 9.5.

Issued by: George A. Long
City Manager

Effective: April 1, 2018 ~~December 1, 2011~~

GENERAL SERVICE DEMAND

RATE SCHEDULE GSD PRIMARY

AVAILABILITY – Available throughout the area served.

APPLICABILITY – Customer served through primary metering for lighting and power in non-residential establishments with an electrical demand requirement of 20 kW or more for three or more months out of the past twelve months. Also available to customers with a lower demand requirement who agree to remain on this rate schedule for at least one year.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard primary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Resale not permitted. Standby generating equipment is permitted for emergency purposes only.

RATES -	Service Charge	\$21.10	\$20.00 per month
	Demand Charge	\$9.15	\$8.653 per kW
	Energy Charge	\$0.02164	\$0.02050 per kWh

BILLING DEMAND - The maximum 15 minute integrated demand, but not less than 20kW.

POWER FACTOR – When the power factor is less than 90%, the Billing Demand may be determined upon the basis of 90% of the calculated kVA demand.

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus demand charges, plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

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Issued by: George A. Long
City Manager

Effective: ~~April 1, 2018~~ ~~December 1, 2011~~

GENERAL SERVICE DEMAND

RATE SCHEDULE GSD LARGE POWER

AVAILABILITY – Available throughout the area served.

APPLICABILITY – Primary metered customers with an electrical demand of 1000 kW or greater and a load factor of 50% or better for lighting and power in non-residential establishments.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard secondary or primary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Resale not permitted. Standby generating equipment is permitted for emergency purposes only.

RATES -	Service Charge	<u>\$21.10</u>	\$20.00 per month
	Demand Charge	<u>\$9.10</u>	\$8.565 per kW
	Energy Charge	<u>\$0.02047</u>	\$0.01930 per kWh

BILLING DEMAND - The maximum 15 minute integrated demand, but not less than 20kW.

POWER FACTOR – When the power factor is less than 90%, the Billing Demand may be determined upon the basis of 90% of the calculated kVA demand.

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus demand charges, plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

BILLING ADJUSTMENTS – See “Power Cost Adjustment” beginning on Sheet No. 9.0
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Issued by: George A. Long
City Manager

Effective: April 1, 2018 ~~December 1, 2011~~

GENERAL SERVICE DEMAND

RATE SCHEDULE GSD LOW LOAD FACTOR

AVAILABILITY – Available throughout the area served.

APPLICABILITY – For lighting and power in non-residential establishments with an electrical demand requirement of 20 kW or more, but not in excess of 200 kW, and with an average monthly load factor of less than 25%.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard secondary or primary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Resale not permitted. Standby generating equipment is permitted for emergency purposes only.

RATES -	Service Charge	\$21.10	\$20.00	per month
	Energy Charge	\$0.08855	\$0.08380	per kWh

BILLING DEMAND - The maximum 15 minute integrated demand will be metered monthly, but will not be applied in the billing process.

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

BILLING ADJUSTMENTS – See “Power Cost Adjustment” beginning on Sheet No. 9.0
 See “Public Service Tax and Surcharge” beginning on Sheet No. 9.1
 See “Florida Gross Receipts tax” beginning on Sheet No. 9.3
 See “Florida Sales Tax” beginning on Sheet No. 9.5.

SPECIAL CONDITIONS – Customers must apply in writing for service under this rate schedule, and must remain under this rate schedule for a period of at least one year. Thereafter, in the event a customer served under this rate schedule modifies their electric usage such that Rate Schedule GSD is more advantageous, said customer will be permitted to change to billing under Rate Schedule GSD, upon written request. Customers electing to change to Rate Schedule GSD must remain under that rate schedule for a period of at least one year.

By making application for Rate Schedule GSD Low Load Factor, the customer also agrees to the installation of load control equipment by, and at the option of, the City.

Issued by: George A. Long
City Manager

Effective: ~~April 1, 2018~~ ~~December 1, 2011~~

RESIDENTIAL SERVICE

RATE SCHEDULE RS

AVAILABILITY – Available throughout the area served.

APPLICABILITY – For service to a single family dwelling unit occupied by one family or household, and to churches on church property used for church purposes. Service provided hereunder shall not be shared with or resold to others.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard secondary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Standby or resale not permitted.

RATES -	Service Charge	\$8.70	\$8.00 per month
	Energy Charge	\$0.05070	\$0.04670 per kWh

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

BILLING ADJUSTMENTS – See “Power Cost Adjustment” beginning on Sheet No. 9.0
See “Public Service Tax and Surcharge” beginning on Sheet No. 9.1
See “Florida Gross Receipts tax” beginning on Sheet No. 9.3

ECONOMIC DEVELOPMENT RIDER

AVAILABILITY – Available throughout the area served.

APPLICABILITY – This rider is available for load associated with initial permanent service to new establishments or the expansion of existing establishments. Service under this Rider is limited to customers who make application to the City for service under this Rider, and for whom the City approves such application after January 1, 2018 ~~July 1, 2011~~. The new load applicable under this Rider, either for a new establishment or the incremental new load for an existing establishment must be a minimum of 500 kW and 200,000 kWh per month at a single delivery point.

Initial application for this Rider is not available to existing load. However, if a change in ownership occurs after the customer contracts for service under this Rider, the successor customer may be allowed to fulfill the balance of the contract under this Rider and continue the schedule of credits outlined below. This Rider is not available for renewal of service following interruptions such as equipment failure, temporary plant shutdown, strike or economic conditions. This Rider is not available for load shifted from one establishment or delivery point on the City system to another on the City system.

The load and employment requirements under this Rider must be achieved at the same delivery point. Additional metering equipment may be required to qualify for this Rider. The customer's service agreement under this Rider must include a description of the amount and nature of the load being provided, the number of full-time jobs resulting, and documentation verifying that the availability of the Economic Development Rider is a significant factor in the customer's location/expansion decision.

LIMITATIONS – The City reserves the right to limit applications for this Rider when the City's economic development expenses from this rider and other sources exceed \$200,000 per year.

DEFINITION - New Load is that which is added to the City's system by a new establishment after January 1, 2018 ~~July 1, 2011~~. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider.

DESCRIPTION – A credit based on the percentages below will be applied to the customer charge, demand charge, energy charge and purchased power adjustment of the customer's otherwise applicable rate schedule associated with the customer's New Load:

Year 1 – 20% reduction

Year 2 – 15% reduction

Year 3 – 10% reduction

Year 4 – 5% reduction

Year 5 – 5% reduction

(Continued on Sheet No. 9.6.1)

(Continued from Sheet No. 9.6)

TERM OF SERVICE – The customer agrees to a five year contract term. Service under this Rider will terminate at the end of the fifth year.

The City may terminate service under this Rider at any time if the customer fails to comply with the terms and conditions of this Rider. Failure to: (1) maintain the level of employment specified in the customer's service agreement and/or (2) purchase from the City the amount of load specified in the customer's service agreement may be considered grounds for termination.

PROVISIONS FOR EARLY TERMINATION – If the City terminates service under this Rider for the customer's failure to comply with its provisions, the Customer will be required to reimburse the City for any discounts received under this Rider plus interest.

If the customer opts to terminate service under this Rider before the term of service specified in the service agreement, the customer will be required to reimburse the City for any discounts received under this Rider plus interest.

GENERAL SERVICE NON-DEMAND

RATE SCHEDULE GS

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APPLICABILITY – For lighting and power in establishments not classed as Residential Service or General Service Demand.

CHARACTER OF SERVICE - Single or three phase, 60 hertz, and at an available standard secondary voltage of the City.

LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Standby or resale not permitted.

RATES -	Service Charge	\$8.70 per month
	Energy Charge	\$0.06320 per kWh

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

BILLING ADJUSTMENTS – See “Power Cost Adjustment” beginning on Sheet No. 9.0
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RATES -	Service Charge	\$21.10 per month
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	Energy Charge	\$0.02164 per kWh

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AVAILABILITY – Available throughout the area served.

APPLICABILITY – For service to a single family dwelling unit occupied by one family or household, and to churches on church property used for church purposes. Service provided hereunder shall not be shared with or resold to others.

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LIMITATIONS - Subject to all the rules and regulations of the City of Bartow. Standby or resale not permitted.

RATES -	Service Charge	\$8.70 per month
	Energy Charge	\$0.05070 per kWh

MINIMUM CHARGE – The minimum monthly charge shall be the service charge plus other applicable charges covered by Ordinance, State Statutes or Federal Law.

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LIMITATIONS – The City reserves the right to limit applications for this Rider when the City's economic development expenses from this rider and other sources exceed \$200,000 per year.

DEFINITION - New Load is that which is added to the City's system by a new establishment after January 1, 2018. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider.

DESCRIPTION – A credit based on the percentages below will be applied to the customer charge, demand charge, energy charge and purchased power adjustment of the customer's otherwise applicable rate schedule associated with the customer's New Load:

- Year 1 – 20% reduction
- Year 2 – 15% reduction
- Year 3 – 10% reduction
- Year 4 – 5% reduction
- Year 5 – 5% reduction

(Continued on Sheet No. 9.6.1)

(Continued from Sheet No. 9.6)

TERM OF SERVICE – The customer agrees to a five year contract term. Service under this Rider will terminate at the end of the fifth year.

The City may terminate service under this Rider at any time if the customer fails to comply with the terms and conditions of this Rider. Failure to: (1) maintain the level of employment specified in the customer's service agreement and/or (2) purchase from the City the amount of load specified in the customer's service agreement may be considered grounds for termination.

PROVISIONS FOR EARLY TERMINATION – If the City terminates service under this Rider for the customer's failure to comply with its provisions, the Customer will be required to reimburse the City for any discounts received under this Rider plus interest.

If the customer opts to terminate service under this Rider before the term of service specified in the service agreement, the customer will be required to reimburse the City for any discounts received under this Rider plus interest.

ORDINANCE NO. 2018-04

AN ORDINANCE RELATING TO ELECTRIC RATES AND THE POWER COST ADJUSTMENT CALCULATION; MAKING FACTUAL FINDINGS IN SUPPORT THEREOF; AMENDING §78-151 OF THE CODE OF ORDINANCES OF THE CITY OF BARTOW TO ADJUST ELECTRIC RATES; PROVIDING FOR SEVERABILITY, CODIFICATION, THE ADMINISTRATIVE CORRECTION OF SCRIVENER'S ERRORS AND AN EFFECTIVE DATE

WHEREAS, the City of Bartow is a Florida municipal corporation endowed with home rule "governmental, corporate and proprietary powers" sufficient to enable it "to conduct municipal government, perform municipal functions and render municipal services" by §2(b), Article VIII of the Florida Constitution of 1968 and the Municipal Home Rule Powers Act of 1973; and

WHEREAS, the City engaged the services of Leidos Engineering, LLC, to perform a study of the City's current electric rates and power cost adjustment and to provide recommendations for any adjustments to the rate design. This study is known as the "2017 Electric Rate Study". Leidos analyzed the City's current rate structure, power cost adjustment and future system costs, and ultimately recommended to the City the rates and power cost adjustment calculation as indicated on Exhibit A to this Ordinance. The analysis is detailed in the full report provided by Leidos to the City; and

WHEREAS, the City of Bartow, Florida desires to amend its electric rates and to reflect the effects of projected costs.

NOW, THEREFORE,

Be it enacted by the People of the City of Bartow:

Section 1 Incorporation of Recitals.

The foregoing recitals are found true by the City Commission, are incorporated herein and are found to form a factual basis for the adoption of this ordinance.

Section 2 Common Title.

This ordinance shall be commonly known as the “Bartow Electric Rate Ordinance of 2018” and may be so cited.

Section 3 Electric Rates and Power Cost Adjustment Calculation Adopted.

§78-151 of the Code of Ordinances of the City of Bartow shall be revised as set forth in Exhibit ‘A’ to this ordinance, a copy of which is attached hereto and incorporated herein, such copy consisting of 3 numbered pages. In accordance with §166.041(2), Florida Statutes, added language to existing code provisions will be underlined and deleted language from existing code provisions will be ~~stricken through~~.

Section 4 Severability.

If any provision or portion of this ordinance is declared by a court of competent jurisdiction to be void, unconstitutional, or unenforceable, then all remaining portions, provisions, and regulations of this ordinance shall remain in full force and effect.

Section 5 Administrative Correction of Scrivener’s Errors.

Any scrivener’s error created as a result of the passage of this ordinance may be corrected by the City Manager of the City of Bartow, without further legislative action, so long as the intent of this ordinance is preserved, by filing a revised copy thereof with the City Clerk’s office with the terms “Manager Revised” and the revision version number in the style of the ordinance.

Section 6 Codification.

It is the intent of the City Commission that the provisions of Exhibit 'A' to this ordinance shall be codified as and become and be made a part of the permanent *Code of Ordinances of the City of Bartow*. The provisions of Exhibit 'A' to this ordinance may be renumbered or relettered to accomplish such intention and the word "ordinance", or similar words, may be changed to "section," "article", or other appropriate word. Further, it is the intent of the City Commission that the implementing and instructional sections of this ordinance, Sections 1 through 7, shall not be codified. The Code codifier is granted liberal authority to codify the provisions of Exhibit 'A' to this ordinance, including the authority to modify cross-references as he or she may see fit to capture the intent of this ordinance.

Section 7 Effective Date.

This ordinance and related rate adjustments shall take effect on April 1, 2018.

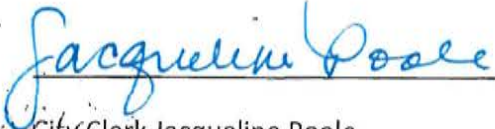
INTRODUCED AND PASSED on first reading at the Regular meeting of the City of Bartow City Commission held this 5th day of March, 2018.

PASSED AND ADOPTED on second reading at the Regular meeting of the City of Bartow City Commission held this 19th day of March, 2018.

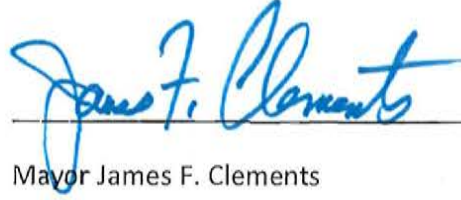
(The Remainder of this Page is intentionally left blank, with signature page to follow)

ATTEST:

CITY OF BARTOW:



City Clerk Jacqueline Poole



Mayor James F. Clements

Approved, as to correctness and form:

Approved as to substance:



City Attorney Sean R. Parker



City Manager George A. Long

Exhibit "A"

Sec. 78-151. Rates and Charges.

(a) *Monthly Service Rates.* Electric service furnished by the city shall be billed at the following monthly rates and charges; provided, however, that when two or more rates are applicable to the same service, the customer shall be billed at the higher rate. Rules and regulations governing the determination of the applicable rate may be promulgated by resolution of the city commission.

1. Residential rate:

Customer service charge.....\$ 8-008.70
Energy charge, each kWh.....0-046700.05070
Minimum charge.....8-008.70

2. General service non-demand rate:

Customer service charge.....\$ 8-008.70
Energy charge, each kWh.....0-061000.06320
Minimum charge.....8-008.70

3. General service demand rate:

a. Secondary metered:

Customer service charge.....\$ 20-0021.10
Energy charge, each kWh.....0-020800.02190
Demand charge, each kW.....8-839.30
Minimum charge.....Customer Service Charge
plus Demand Charges

b. Primary metered:

Customer service charge.....\$ 20-0021.10
Energy charge, each kWh.....0-0205000.02164
Demand charge, each kW.....8-6539.15
Minimum charge.....Customer Service Charge
plus Demand Charges

c. Large power:

Customer service charge.....\$ 20-0021.10
Energy charge, each kWh.....0-0193000.02047
Demand charge, each kW.....8-5659.10
Minimum charge.....Customer Service Charge
plus Demand Charges

4. Low load factor rate:

Customer service charge.....\$ 20-0021.10
Energy charge, each kWh.....0-083800.08855
Minimum charge.....20-0021.10

The rates and charges for electric service furnished by the city outside of its corporate limits shall be as provided in this section plus a surcharge of ten percent of that amount. The United States of America, the state, the county, cities, and their commissions and agencies, and other tax-supported bodies, authorities, boards and commissions, and any church recognized in the state if the electric service is used exclusively for church purposes, are exempt from the surcharge imposed under this section.

Exhibit "A"

(b) *Power cost adjustment.*

(1) *Applicability.* The power cost adjustment is to be added to or subtracted from the monthly rate per kWh of each filed rate schedule.

(2) *Calculation.* The power cost adjustment shall be calculated as follows:

1. Projected Power Supply Costs	\$	x,xxx,xxx
2. Other Costs to be Recovered [1]	\$	xxx,xxx
3. Total Costs to be Recovered	\$	x,xxx,xxx Line 1 + or - Line 2
4. Total Projected Energy Sales (kWh)		x,xxx,xxx
5. PCA – Total Cost per kWh	\$	x.xxxxx Line 3 / Line 4

[1] Including costs under or over recovered in the prior period(s).

(c) *Extension of electric lines.* The extension of electric lines shall be performed in accordance with the rules, regulations, and standards promulgated by the city manager or his designee, approved by motion of the city commission and filed with the city clerk; such rules shall include the rates and charges for the installation and for the service.

(d) *Economic Development Rider*

(1) *Availability.* Available throughout the area served.

(2) *Applicability.* This rider is available for load associated with initial permanent service to new establishments or the expansion of existing establishments. Service under this Rider is limited to customers who make application to the City for service under this Rider, and for whom the City approves such application after ~~July 1, 2011~~January 1, 2018. The new load applicable under this Rider, either for a new establishment or the incremental new load for an existing establishment must be a minimum of 500 kW and 200,000 kWh per month at a single delivery point.

Initial application for this Rider is not available to existing load. However, if a change in ownership occurs after the customer contracts for service under this Rider, the successor customer may be allowed to fulfill the balance of the contract under this Rider and continue the schedule of credits outlined below. This Rider is not available for renewal of service following interruptions such as equipment failure, temporary plant shutdown, strike or economic conditions. This Rider is not available for load shifted from one establishment or delivery point on the City system to another on the City system.

The load and employment requirements under this Rider must be achieved at the same delivery point. Additional metering equipment may be required to qualify for this Rider. The customer's service agreement under this Rider must include a description of the amount and nature of the load being provided, the number of full-time jobs resulting, and documentation verifying that the availability of the Economic Development Rider is a significant factor in the customer's location/expansion decision.

Exhibit "A"

- (3) *Limitations.* The City reserves the right to limit applications for this Rider when the City's economic development expenses from this rider and other sources exceed \$200,000 per year.
- (4) *Definition.* New Load is that which is added to the City's system by a new establishment after ~~July 1, 2011~~ January 1, 2018. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider.
- (5) *Description.* A credit based on the percentages below will be applied to the customer charge, demand charge, energy charge and purchased power adjustment of the customer's otherwise applicable rate schedule associated with the customer's New Load:
- Year 1 – 20% reduction
 - Year 2 – 15% reduction
 - Year 3 – 10% reduction
 - Year 4 – 5% reduction
 - Year 5 – 5% reduction
- (6) *Term of Service.* The customer agrees to a five year contract term. Service under this Rider will terminate at the end of the fifth year.

The City may terminate service under this Rider at any time if the customer fails to comply with the terms and conditions of this Rider. Failure to: (1) maintain the level of employment specified in the customer's service agreement and/or (2) purchase from the City the amount of load specified in the customer's service agreement may be considered grounds for termination.

- (7) *Provision for Early Termination.* If the City terminates service under this Rider for the customer's failure to comply with its provisions, the Customer will be required to reimburse the City for any discounts received under this Rider plus interest.

If the customer opts to terminate service under this Rider before the term of service specified in the service agreement, the customer will be required to reimburse the City for any discounts received under this Rider plus interest.

2017 Electric Rate Study

City of Bartow, Florida



February 2018



This report has been prepared for the use of the client for the specific purposes identified in the report. The conclusions, observations and recommendations contained herein attributed to Leidos constitute the opinions of Leidos. To the extent that statements, information and opinions provided by the client or others have been used in the preparation of this report, Leidos has relied upon the same to be accurate, and for which no assurances are intended and no representations or warranties are made. Leidos makes no certification and gives no assurances except as explicitly set forth in this report.

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Electric Rate Study

City of Bartow, Florida

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Section 1

INTRODUCTION, PURPOSE AND SCOPE

Introduction

The City of Bartow, Florida (the “City”) owns and operates an electric system that serves over 12,000 customers in Central Florida (the “Electric Department”). The City engaged Leidos Engineering, LLC, (“Leidos”, the “Consultant” or the “firm”) to review its current rates for electric service and to provide recommendations for any necessary adjustments to the rate design (the “2017 Electric Rate Study”). During 2017, the City provided the firm with responses to data requests and the firm performed various analyses that resulted in adjustments to certain data.

In conducting this 2017 Electric Rate Study, the firm relied upon historical and projected data for the development of operating revenues, operating expenses, and capital requirements. Historical data was obtained from various monthly reports, annual financial reports, actual billing records, analyses, and discussions with members of the management and staff of the City. Projected data was, in part, derived from historical data adjusted for current economic conditions, the Operating Budget for Fiscal Year ending September 30, 2018 (the “Budget”), the City’s electric system demand and energy forecasts (including the effects of energy conservation), the various contracts, and the direction and instructions provided by the City, and other appropriate sources.

The approach and methodology followed in performing the 2017 Electric Rate Study along with the findings and recommendations are presented in this report.

Purpose

The primary purposes of the 2017 Electric Rate Study are:

1. To determine the estimated annual revenue requirements for the Fiscal Year ending September 30, 2018, as adjusted for known changes (the “Test Year”).
2. To ensure that the rates produce sufficient revenues to maintain the Electric Department;
3. To prepare a cost of service analysis to estimate the cost of providing electric service by customer class;
4. To adjust rate levels, if necessary, in order to recover the cost of providing service, and to reflect the policies established by the City;
5. To reflect any changes introduced by the implementation of any new power purchase contracts with the power supplier; and
6. To continue to recover periodically, the cost of purchased power.

Scope

The overall scope of services of the 2017 Electric Rate Study provided for (i) the development of a revenue requirements study for the Test Year; (ii) the development of proposed rate levels and rate structures that are designed to recover the revenue requirements for the Test Year which reflect the City's policy and industry practices; and (iii) the development of comparisons of typical bills for electric service calculated using the existing and proposed rates and the rates charged by neighboring privately and publicly owned electric utilities.

The 2017 Electric Rate Study consists of two phases. Phase I activities include, among other things, (i) obtaining and reviewing historical billing data, (ii) reconciling such data, (iii) identifying the proper energy sales forecast to use for purposes of projecting rate revenues and costs (iv) projecting billing determinants in order to calculate the effect on revenues based on revised rates, (v) preparing projections of revenues by major customer class, (vi) developing projected annual revenue requirements for the Test Year, (vii) preparing a comparison of the City's existing rates and the rates of other Florida utilities, and (viii) preparing a Phase I report.

Phase II activities include (i) revising the revenue requirements, (ii) affirming the City's policies and direction, (iii) allocating costs, (iv) designing the proposed rates, and (v) preparing a final report.

Section 2

ENERGY REQUIREMENTS AND CUSTOMER STATISTICS

General

The development of accurate forecasts of future energy and demand requirements, sales, customers and customer usage characteristics, is essential in the evaluation of the adequacy of electric rates and rate structures. This section of the report summarizes the various factors considered and utilized in the development of the City's near term future energy and demand requirements.

The estimates of energy and demand requirements developed for inclusion in this study are based on historical sales, customers, and customer usage characteristics.

Energy and Demand Requirements

Projection of Electricity Sales to Ultimate Customers

The projections of electric energy sales to ultimate customers are based on an analysis of historical billing and sales information for the fiscal year ended September 30, 2017. Historical growth, usage patterns, and effects of weather were tested for reasonableness. Based on information provided by the City, it was projected that the reported number of customers and kWh sales would increase by 0.5% annually beginning in October 2017 for the projected fiscal year 2018.

Projected Demand

The historical system peak demand for the fiscal year ending September 30, 2017 was 63,000 kW, occurring in August. For purposes of this Study, it was projected that the system peak demand would increase at an annual rate of 0.5%.

Projected Energy Sales

The monthly system historical and projected energy sales are set forth in Table No. 2-1. The following tabulation is an annual summary of the historical and projected energy sales by major customer class:

Retail Energy Sales (Mwh)
Fiscal Years Ending September 30,

<u>Customer Class</u>	<u>Historical FY 2017</u>	<u>Projected FY 2018</u>
Residential	135,393	136,070
General Service Non-Demand	13,908	13,978
General Service Demand	118,152	118,743
General Service Demand		
Low Load Factor	1,515	1,523
TOTAL ENERGY SALES	<u>268,969</u>	<u>270,314</u>
Percent Change (%)		<u>0.5%</u>

Sales in Fiscal Test Year 2018 are based on 2017 amounts with a projected annual growth rate of 0.5%.

Projected Average Number of Customers

An integral part of the forecasting process is the average number of customers the City expects to serve by major customer class. The detailed historical and projected customers are set forth on Table No. 2-1, pages 1 and 2. The following is a summary of the historical and projected average number of customers used as a basis for this study:

Average Monthly Number of Customers
Fiscal Years Ending September 30,

<u>Customer Class</u>	<u>Historical FY 2017</u>	<u>Projected FY 2018</u>
Residential	10,460	10,512
General Service Non-Demand	1,241	1,247
General Service Demand	402	404
General Service Demand		
Low Load Factor	47	47
TOTAL AVG. CUSTOMERS	<u>12,150</u>	<u>12,210</u>
Percent Change (%)		<u>0.5%</u>

Purchased Power

Beginning January 1, 2018, the City began purchasing its capacity and energy requirements under new contracts with Orlando Utilities Commission (OUC) and the Florida Municipal Power Agency (FMPA).

Energy Losses

The loss factors utilized in developing the projected energy requirements for the Test Year are 6.0 percent of annual energy requirements. This factor is used to take into account transmission and distribution losses and unaccounted for energy.

Summary of Projected Demand and Energy Requirements

The following tabulation sets forth the projected annual peak demand at the generation level, energy requirements and the system load factor used in this study:

Description	2018 Test Year
Annual 60-Minute Peak Demand (MW)	<u>63</u>
Annual Energy Sales (GWh)	270
Losses and Unaccounted for Energy (GWh)	<u>18</u>
Annual Energy Requirements (GWh)	<u>288</u>
Annual System Load Factor (%)	<u>49 %</u>

Customer Statistics

Projected customer statistics by major rate classification are set forth on Table No. 2-1 and No. 2-2. Table No. 2-1 sets forth for fiscal years ending September 30, 2017 through 2018 the historical and projected number of customers and energy sales. Table No. 2-2 sets forth the projected annual billing determinants by major rate classes for fiscal year 2018. The projected average annual number of customers and annual energy sales for the fiscal year ending September 30, 2018 incorporate the following considerations:

- i. continuation of recent historical sales and/or usage characteristics;
- ii. continuation of past, present, and projected conservation and demand-side management programs; and
- iii. continuation of the existing regulatory structure.

Any departure from those assumptions (e.g., change in economic activity) could have a material adverse effect on energy sales and revenues.

As derived from Tables No. 2-1 and No. 2-2, the projected fiscal year 2018 composition of the City's ultimate customers and associated energy sales by major rate classification is tabulated below:

Customers and Energy Sales by Customer Class

Customer Class	Test Year 2018			
	Average Number of Customers	Percent of Total	Annual Megawatt- Hour Sales	Percent of Total
Residential	10,512	86.1%	136,070	50.3%
General Service Non-Demand	1,247	10.2%	13,978	5.2%
General Service Demand	404	3.3%	118,743	43.9%
General Service Demand Low Load Factor	47	0.4%	1,523	0.6%
Total Customers and MWh Sales	<u>12,210</u>	<u>100.0%</u>	<u>270,314</u>	<u>100.0%</u>

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Historical Number of Monthly Customers
Fiscal Year 2017

Ln. No.	Number of Customers	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Residential Inside	7,437	7,389	7,369	7,454	7,430	7,448	7,464	7,466	7,474	7,486	7,461	7,433	89,311	7,443
2	Residential Outside	3,016	2,998	2,992	3,006	3,019	3,015	3,021	3,027	3,033	3,042	3,024	3,019	36,212	3,018
3	Total Residential	10,453	10,387	10,361	10,460	10,449	10,463	10,485	10,493	10,507	10,528	10,485	10,452	125,523	10,460
4	General Service Non-Demand Inside	863	864	862	868	867	869	869	867	868	878	876	880	10,431	869
5	General Service Non-Demand Outside	372	371	371	371	374	374	371	374	370	371	372	370	4,461	372
6	Total General Service	1,235	1,235	1,233	1,239	1,241	1,243	1,240	1,241	1,238	1,249	1,248	1,250	14,892	1,241
	General Service Demand														
7	Secondary Metered Inside	307	310	310	308	307	308	309	309	308	310	312	310	3,708	309
8	Secondary Metered Outside	82	82	83	83	83	83	84	84	85	85	87	84	1,005	84
9	Primary Metered Inside	6	6	6	6	6	6	6	6	6	6	6	6	72	6
10	Primary Metered Outside	2	2	2	2	2	2	2	2	2	2	2	2	24	2
11	Large Power Inside	1	1	1	1	1	1	1	1	1	1	1	1	12	1
12	Large Power Outside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total General Service Demand Inside	314	317	317	315	314	315	316	316	315	317	319	317	3,792	316
14	Total General Service Demand Outside	84	84	85	85	85	85	86	86	87	87	89	86	1,029	86
15	Total General Service Demand	398	401	402	400	399	400	402	402	402	404	408	403	4,821	402
16	Gen. Service Dem. Low Load Factor Inside	19	19	19	19	19	19	19	19	18	19	18	18	225	19
17	Gen. Service Dem. Low Load Factor Outside	28	28	28	28	28	28	28	28	28	28	28	28	336	28
18	Total General Service Demand Low Load	47	47	47	47	47	47	47	47	46	47	46	46	561	47
19	TOTAL INSIDE	8,633	8,589	8,567	8,656	8,630	8,651	8,668	8,668	8,675	8,700	8,674	8,648	103,759	8,647
20	TOTAL OUTSIDE	3,500	3,481	3,476	3,490	3,506	3,502	3,506	3,515	3,518	3,528	3,513	3,503	42,038	3,503
21	TOTAL CUSTOMERS	12,133	12,070	12,043	12,146	12,136	12,153	12,174	12,183	12,193	12,228	12,187	12,151	145,797	12,150

CITY OF BARTOW, FLORIDA
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Projected Number of Monthly Customers
Fiscal Test Year 2018

Ln. No.	Number of Customers	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Residential Inside	7,474	7,426	7,406	7,491	7,467	7,485	7,501	7,503	7,511	7,523	7,498	7,470	89,755	7,480
2	Residential Outside	3,031	3,013	3,007	3,021	3,034	3,030	3,036	3,042	3,048	3,057	3,039	3,034	36,392	3,033
3	Total Residential	10,505	10,439	10,413	10,512	10,501	10,515	10,537	10,545	10,559	10,580	10,537	10,504	126,147	10,512
4	General Service Non-Demand Inside	867	868	866	872	871	873	873	871	872	882	880	884	10,479	873
5	General Service Non-Demand Outside	374	373	373	373	376	376	373	376	372	373	374	372	4,485	374
6	Total General Service	1,241	1,241	1,239	1,245	1,247	1,249	1,246	1,247	1,244	1,255	1,254	1,256	14,964	1,247
	General Service Demand														
7	Secondary Metered Inside	309	312	312	310	309	310	311	311	310	312	314	312	3,732	311
8	Secondary Metered Outside	82	82	83	83	83	83	84	84	85	85	87	84	1,005	84
9	Primary Metered Inside	6	6	6	6	6	6	6	6	6	6	6	6	72	6
10	Primary Metered Outside	2	2	2	2	2	2	2	2	2	2	2	2	24	2
11	Large Power Inside	1	1	1	1	1	1	1	1	1	1	1	1	12	1
12	Large Power Outside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total General Service Demand Inside	316	319	319	317	316	317	318	318	317	319	321	319	3,816	318
14	Total General Service Demand Outside	84	84	85	85	85	85	86	86	87	87	89	86	1,029	86
15	Total General Service Demand	400	403	404	402	401	402	404	404	404	406	410	405	4,845	404
16	Gen. Service Dem. Low Load Factor Inside	19	19	19	19	19	19	19	19	18	19	18	18	225	19
17	Gen. Service Dem. Low Load Factor Outside	28	28	28	28	28	28	28	28	28	28	28	28	336	28
18	Total General Service Demand Low Load	47	47	47	47	47	47	47	47	46	47	46	46	561	47
19	TOTAL INSIDE	8,676	8,632	8,610	8,699	8,673	8,694	8,711	8,711	8,718	8,743	8,717	8,691	104,275	8,690
20	TOTAL OUTSIDE	3,517	3,498	3,493	3,507	3,523	3,519	3,523	3,532	3,535	3,545	3,530	3,520	42,242	3,520
21	TOTAL CUSTOMERS	12,193	12,130	12,103	12,206	12,196	12,213	12,234	12,243	12,253	12,288	12,247	12,211	146,517	12,210

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Historical Energy Sales (kWh)
Fiscal Year 2017

Ln. No.	Energy Sales (kWh)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Residential Inside	8,738,159	6,203,185	6,044,517	6,828,096	5,853,742	5,689,700	6,488,211	8,195,439	9,586,041	10,099,170	10,577,596	9,772,527	94,076,383	7,839,699
2	Residential Outside	3,975,927	2,743,383	2,619,728	3,124,842	2,547,549	2,503,528	2,887,592	3,686,279	4,078,055	4,408,156	4,533,658	4,208,403	41,317,100	3,443,092
3	Total Residential	12,714,086	8,946,568	8,664,245	9,952,938	8,401,291	8,193,228	9,375,803	11,881,718	13,664,096	14,507,326	15,111,254	13,980,930	135,393,483	11,282,790
4	General Service Non-Demand Inside	985,359	826,936	750,388	790,387	707,397	715,520	785,514	936,259	1,031,381	1,038,497	1,102,411	1,055,526	10,725,575	893,798
5	General Service Non-Demand Outside	278,496	227,070	230,152	240,156	213,288	216,090	233,694	287,544	299,088	313,799	336,324	306,839	3,182,540	265,212
6	Total General Service	1,263,855	1,054,006	980,540	1,030,543	920,685	931,610	1,019,208	1,223,803	1,330,469	1,352,296	1,438,735	1,362,365	13,908,115	1,159,010
General Service Demand															
7	Secondary Metered Inside	7,342,315	6,386,401	6,253,823	6,679,003	5,769,583	5,980,406	6,437,360	7,642,150	7,658,282	7,964,827	8,243,107	7,844,544	84,201,801	7,016,817
8	Secondary Metered Outside	1,103,271	974,567	987,239	1,015,297	916,624	967,308	1,040,515	1,192,679	1,154,011	1,148,996	1,219,118	1,082,986	12,802,611	1,066,884
9	Primary Metered Inside	809,400	722,560	1,013,360	1,034,040	874,600	909,680	992,760	1,050,440	936,960	866,040	860,320	826,920	10,897,080	908,090
10	Primary Metered Outside	230,400	210,000	234,000	301,200	282,600	291,000	288,000	223,200	198,600	200,400	208,800	186,000	2,854,200	237,850
11	Large Power Inside	599,400	541,800	579,600	635,400	529,200	554,400	574,200	648,000	666,000	687,600	676,800	703,800	7,396,200	616,350
12	Large Power Outside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total General Service Demand Inside	8,751,115	7,650,761	7,846,783	8,348,443	7,173,383	7,444,486	8,004,320	9,340,590	9,261,242	9,518,467	9,780,227	9,375,264	102,495,081	8,541,257
14	Total General Service Demand Outside	1,333,671	1,184,567	1,221,239	1,316,497	1,199,224	1,258,308	1,328,515	1,415,879	1,352,611	1,349,396	1,427,918	1,268,986	15,656,811	1,304,734
15	Total General Service Demand	10,084,786	8,835,328	9,068,022	9,664,940	8,372,607	8,702,794	9,332,835	10,756,469	10,613,853	10,867,863	11,208,145	10,644,250	118,151,892	9,845,991
16	Gen. Service Dem. Low Load Factor Inside	113,860	96,380	83,420	81,560	91,260	93,820	102,900	135,180	87,620	67,980	117,540	123,200	1,194,720	99,560
17	Gen. Service Dem. Low Load Factor Outside	16,412	25,173	38,614	28,553	16,193	23,614	27,947	37,750	45,508	19,254	23,627	18,113	320,758	26,730
18	Total General Service Demand Low Load	130,272	121,553	122,034	110,113	107,453	117,434	130,847	172,930	133,128	87,234	141,167	141,313	1,515,478	126,290
19	TOTAL INSIDE	18,588,493	14,777,262	14,725,108	16,048,486	13,825,782	13,943,526	15,380,945	18,607,468	19,966,284	20,724,114	21,577,774	20,326,517	208,491,759	17,374,313
20	TOTAL OUTSIDE	5,604,506	4,180,193	4,109,733	4,710,048	3,976,254	4,001,540	4,477,748	5,427,452	5,775,262	6,090,605	6,321,527	5,802,341	60,477,209	5,039,767
21	TOTAL CONSUMPTION (kWh)	24,192,999	18,957,455	18,834,841	20,758,534	17,802,036	17,945,066	19,858,693	24,034,920	25,741,546	26,814,719	27,899,301	26,128,858	268,968,968	22,414,081

CITY OF BARTOW, FLORIDA

2017 Electric Rate Study

Projected Energy Sales (kWh)

Fiscal Test Year 2018

Ln. No.	Energy Sales (kWh)	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Residential Inside	8,781,850	6,234,201	6,074,740	6,862,236	5,883,011	5,718,149	6,520,652	8,236,416	9,633,971	10,149,666	10,630,484	9,821,390	94,546,765	7,878,897
2	Residential Outside	3,995,807	2,757,100	2,632,827	3,140,466	2,560,287	2,516,046	2,902,030	3,704,710	4,098,445	4,430,197	4,556,326	4,229,445	41,523,686	3,460,307
3	Total Residential	12,777,656	8,991,301	8,707,566	10,002,703	8,443,297	8,234,194	9,422,682	11,941,127	13,732,416	14,579,863	15,186,810	14,050,835	136,070,450	11,339,204
4	General Service Non-Demand Inside	990,286	831,071	754,140	794,339	710,934	719,098	789,442	940,940	1,036,538	1,043,689	1,107,923	1,060,804	10,779,203	898,267
5	General Service Non-Demand Outside	279,888	228,205	231,303	241,357	214,354	217,170	234,862	288,982	300,583	315,368	338,006	308,373	3,198,453	266,538
6	Total General Service	1,270,174	1,059,276	985,443	1,035,696	925,288	936,268	1,024,304	1,229,922	1,337,121	1,359,057	1,445,929	1,369,177	13,977,656	1,164,805
	General Service Demand														
7	Secondary Metered Inside	7,379,027	6,418,333	6,285,092	6,712,398	5,798,431	6,010,308	6,469,547	7,680,361	7,696,573	8,004,651	8,284,323	7,883,767	84,622,810	7,051,901
8	Secondary Metered Outside	1,108,787	979,440	992,175	1,020,373	921,207	972,145	1,045,718	1,198,642	1,159,781	1,154,741	1,225,214	1,088,401	12,866,624	1,072,219
9	Primary Metered Inside	813,447	726,173	1,018,427	1,039,210	878,973	914,228	997,724	1,055,692	941,645	870,370	864,622	831,055	10,951,565	912,630
10	Primary Metered Outside	231,552	211,050	235,170	302,706	284,013	292,455	289,440	224,316	199,593	201,402	209,844	186,930	2,868,471	239,039
11	Large Power Inside	602,397	544,509	582,498	638,577	531,846	557,172	577,071	651,240	669,330	691,038	680,184	707,319	7,433,181	619,432
12	Large Power Outside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total General Service Demand Inside	8,794,871	7,689,015	7,886,017	8,390,185	7,209,250	7,481,708	8,044,342	9,387,293	9,307,548	9,566,059	9,829,128	9,422,140	103,007,556	8,583,963
14	Total General Service Demand Outside	1,340,339	1,190,490	1,227,345	1,323,079	1,205,220	1,264,600	1,335,158	1,422,958	1,359,374	1,356,143	1,435,058	1,275,331	15,735,095	1,311,258
15	Total General Service Demand	10,135,210	8,879,505	9,113,362	9,713,265	8,414,470	8,746,308	9,379,499	10,810,251	10,666,922	10,922,202	11,264,186	10,697,471	118,742,651	9,895,221
16	Gen. Service Dem. Low Load Factor Inside	114,429	96,862	83,837	81,968	91,716	94,289	103,415	135,856	88,058	68,320	118,128	123,816	1,200,694	100,058
17	Gen. Service Dem. Low Load Factor Outside	16,494	25,299	38,807	28,696	16,274	23,732	28,087	37,939	45,736	19,350	23,745	18,204	322,362	26,863
18	Total General Service Demand Low Load	130,923	122,161	122,644	110,664	107,990	118,021	131,501	173,795	133,794	87,670	141,873	142,020	1,523,055	126,921
19	TOTAL INSIDE	18,681,435	14,851,148	14,798,734	16,128,728	13,894,911	14,013,244	15,457,850	18,700,505	20,066,115	20,827,735	21,685,663	20,428,150	209,534,218	17,461,185
20	TOTAL OUTSIDE	5,632,529	4,201,094	4,130,282	4,733,598	3,996,135	4,021,548	4,500,137	5,454,589	5,804,138	6,121,058	6,353,135	5,831,353	60,779,595	5,064,966
21	TOTAL CONSUMPTION (kWh)	24,313,964	19,052,242	18,929,015	20,862,327	17,891,046	18,034,791	19,957,986	24,155,095	25,870,254	26,948,793	28,038,798	26,259,502	270,313,813	22,526,151

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Historical Billing Demand (kW)

Fiscal Year 2017

Ln. No.	Billing Demand (kW)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
General Service Demand															
1	Secondary Metered Inside	22,040	19,965	19,554	19,725	19,500	19,656	20,696	21,666	21,849	21,274	22,838	22,606	251,369	20,947
2	Secondary Metered Outside	3,953	3,670	3,799	3,735	3,730	3,788	3,927	4,113	4,169	4,136	4,149	4,234	47,405	3,950
3	Primary Metered Inside	2,565	2,295	2,569	2,845	2,635	2,512	2,528	2,756	2,663	2,092	2,260	2,420	30,141	2,512
4	Primary Metered Outside	582	576	636	1,164	990	912	876	600	600	594	600	598	8,728	727
5	Large Power Inside	1,458	1,242	1,278	1,278	1,278	1,278	1,260	1,224	1,278	1,314	1,314	1,314	15,516	1,293
6	Large Power Outside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Total General Service Demand Inside	26,063	23,503	23,400	23,848	23,413	23,446	24,484	25,646	25,791	24,680	26,412	26,340	297,026	24,752
8	Total General Service Demand Outside	4,535	4,246	4,435	4,899	4,720	4,700	4,803	4,713	4,769	4,730	4,749	4,832	56,133	4,678
9	TOTAL BILLING DEMAND (kW)	30,597	27,749	27,836	28,746	28,134	28,146	29,288	30,360	30,559	29,410	31,162	31,173	353,159	29,430

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Projected Billing Demand (kW)

Fiscal Test Year 2018

Ln. No.	Billing Demand (kW)	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
General Service Demand															
1	Secondary Metered Inside	22,150	20,065	19,651	19,823	19,597	19,754	20,799	21,775	21,959	21,381	22,952	22,719	252,626	21,052
2	Secondary Metered Outside	3,972	3,688	3,818	3,753	3,749	3,807	3,947	4,134	4,189	4,157	4,170	4,256	47,642	3,970
3	Primary Metered Inside	2,578	2,307	2,582	2,859	2,648	2,525	2,541	2,770	2,677	2,102	2,272	2,433	30,292	2,524
4	Primary Metered Outside	585	579	639	1,170	995	917	880	603	603	597	603	601	8,772	731
5	Large Power Inside	1,465	1,248	1,284	1,284	1,284	1,284	1,266	1,230	1,284	1,321	1,321	1,321	15,594	1,299
6	Large Power Outside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Total General Service Demand Inside	26,193	23,620	23,517	23,967	23,530	23,563	24,606	25,774	25,919	24,803	26,544	26,472	298,511	24,876
8	Total General Service Demand Outside	4,557	4,267	4,458	4,923	4,744	4,724	4,828	4,737	4,792	4,754	4,773	4,857	56,413	4,701
9	TOTAL BILLING DEMAND (kW)	30,750	27,887	27,975	28,890	28,274	28,287	29,434	30,511	30,712	29,557	31,318	31,329	354,925	29,577

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Annual Billing Determinants

Fiscal Test Year 2018

Ln. No.	Customer Class Description	Number of Bills	Billing Demand (kW)	Energy Sales (kWh)
	(a)	(b)	(c)	(d)
1	Residential Inside	89,755	0	94,546,765
2	Residential Outside	36,392	0	41,523,686
3	Total Residential	126,147	0	136,070,450
4	General Service Non-Demand Inside	10,479	0	10,779,203
5	General Service Non-Demand Outside	4,485	0	3,198,453
6	Total General Service	14,964	0	13,977,656
	General Service Demand			
7	Secondary Metered Inside	3,732	252,626	84,622,810
8	Secondary Metered Outside	1,005	47,642	12,866,624
9	Total Secondary Metered	4,737	300,267	97,489,434
10	Primary Metered Inside	72	30,292	10,951,565
11	Primary Metered Outside	24	8,772	2,868,471
12	Total Primary Metered	96	39,064	13,820,036
13	Large Power Inside	12	15,594	7,433,181
14	Large Power Outside	0	0	0
15	Total Large Power	12	15,594	7,433,181
16	Low Load Factor Inside	225	0	1,200,694
17	Low Load Factor Outside	336	0	322,362
18	Total Low Load Factor	561	0	1,523,055
19	Total General Service Demand Inside	4,041	298,511	104,208,250
20	Total General Service Demand Outside	1,365	56,413	16,057,457
21	Total General Service Demand	5,406	354,925	120,265,707
22	TOTAL INSIDE	104,275	298,511	209,534,218
23	TOTAL OUTSIDE	42,242	56,413	60,779,595
24	TOTAL SYSTEM	146,517	354,925	270,313,813

Section 3

REVENUE REQUIREMENTS

General

The various components of costs associated with the operation, maintenance, funding of improvements, renewal and replacement of facilities, and assurance of the adequacy and continuity of reliable service to customers are generally referred to as the revenue requirements of a municipally owned and operated utility. The determination of the revenue requirements as they relate to the City, consistent with the methods of other publicly owned utilities, includes the various generalized cost components described below.

Operation and Maintenance Expenses: These expenses include the cost of purchased power, labor, materials, supplies, transportation, services, and other expenses, which are necessary to the operation and maintenance of the Electric Utility. These expenses do not include an allowance for depreciation or replacement of capital assets, any monies for the payment of interest on indebtedness or any monies transferred to a Reserve Fund.

Debt Service: Included in the debt service component of cost is the annual principal of and interest on bonds and related costs/transfers payable from the net revenues.

Capital Improvements: These expenditures are for the purpose of paying the cost of construction or acquisition of necessary improvements, betterments, extensions, enlargements or additions to, or the renewal and replacement of capital assets of the system and for unusual or extraordinary repairs thereto.

Revenues Available for Other Lawful Purposes: This component of cost is paid out of revenues and includes (a) any additional capital improvements to be financed from revenues; (b) additional working cash to provide for the payment of expenses incurred in providing service prior to the receipt of revenues associated with such service; (c) the establishment of operating reserves for special purposes such as providing funds for self-insuring the facilities against certain perils and for the stabilization of rates to smooth out rate increases and minimize customer rate shock, (d) transfers of certain amounts of revenues from the earnings of the Electric Utility to the City; and (e) allowances for any other lawful purpose.

Revenue Credits: In the determination of projected annual costs, adjustments should be made to reflect among other things, (a) the receipt of revenues from the investment of monies, and (b) the receipt of revenues from other operating sources such as the rental of land, the use of poles and the sale of scrap. The recognition of these revenue credits reduces the overall annual revenue requirement from electric rates to ultimate customers.

Total Annual Net Revenue Requirements: The total of the cost components described above less other income and other operating revenues is the total annual net revenue

requirements and such total represents the amount of revenues required to be recovered through rates and charges to ultimate customers.

Projected Revenue Requirements

Electric rates should be set at a level such that the revenues produced will be sufficient to meet near future revenue requirements. An important objective of a projected test year is to establish rates and rate levels that will also reflect the then current and near future costs of providing service and market conditions. Thus, it is necessary to estimate or project the various cost components over a reasonable period of time in order to determine the required rate levels. Projections must consider changes in operating practices, new facilities, increased regulatory (environmental) costs, expected changes in cost, and other factors that may affect the overall cost of operating and maintaining the utility system.

It was determined that the revenue requirements for this 2017 Electric Rate Study would be predicated on the adopted budgeted costs of the Electric Utility for the fiscal year ending September 30, 2018. The budgeted expenditures were used as a baseline in the development of the projections of the annual revenue requirements for the Test Year ending September 30, 2018. Based upon that detailed data and certain adjustments to reflect any known and anticipated changes and certain pro forma adjustments, the Consultant, together with members of the management and staff of the City, developed detailed estimates of projected expenditures for the Test Year 2018.

Assumptions and Considerations

The development of the projected revenue requirements for the Test Year required certain assumptions and considerations in order to reflect certain known or anticipated changes and certain pro forma adjustments. The analyses, estimates and projections summarized herein have been based upon an understanding of certain contracts, agreements, regulations, statutory requirements and planned operations. In the preparation of this report, certain assumptions have been made with respect to conditions, which may occur in the future. While these assumptions are reasonable for the preparation of this study, they are dependent upon future events and actual conditions may differ from those assumed. To the extent that actual future conditions differ from those assumed herein or provided to us by others, the actual results will vary from those projected.

The major assumptions and considerations included in the development of the projected annual revenue requirements have been divided into two categories and are listed below:

General

1. The general economic activity experienced in recent years will continue at current levels and annual inflation will remain at existing levels.
2. Existing federal and state environmental laws, including the Clean Air Act Amendments of 1990, the Clean Air Interstate Rule and the Clean Air Mercury

Rule, will continue to be implemented, applied and enforced, and no new laws, regulations, rules and interpretations will be imposed on FMPA or the City resulting in more stringent environmental restrictions in the near term.

3. There will be no material change in the taxation of fuel used to produce electricity.
4. There will be no material change in the taxation of municipally-owned or municipally financed electric generation or purchased power, transmission and distribution systems.
5. There will be no material change in the level of federal, state or local regulation of municipally-owned utilities.
6. The existing form of governance and policies established by the City will continue throughout the study period.
7. The City will continue to be the exclusive owner and operator of the Electric Utility, including its transmission, distribution, and customer care facilities.

Specific

1. The fiscal year ending September 30, 2018 revenues and expenses for the Electric Utility and the underlying assumptions included therein provide a reasonable basis and reflect normalized system operation.
2. As discussed in Section 2, the sales forecast was the basis for the development of the projected retail energy and demand requirements for the Test Year. It should be recognized that (a) any meaningful variances in the load characteristics of existing or new customers, and/or (b) any differences in expected initiation of service for anticipated new customers, and/or (c) differences in the expected effectiveness of the various energy conservation programs initiated and contemplated by the City and/or (d) any changes in federal or state legislation that permit customers to select their energy service provider may result in a distortion and/or an over or under recovery of revenue requirements for the Test Year.
3. Power supply costs used herein are predicated in part on the demand and energy related cost data estimated for OUC and FMPA, on the purchase of power supply from OUC and FMPA and on costs associated with solar power production.
4. Projected purchased power expenses have been estimated based on an analysis of purchased power expenses assuming an overall increase in kWh usage from 2017 of 0.5% per year.
5. No new debt service has been assumed for the near term.
6. Capital improvement expenditures have been estimated each year, based on a review of the City's Capital Improvement Plan.
7. The amount for the Transfer to the General Fund has been based on current City policies.

Section 3

8. Projected revenues from existing rates have been estimated based on the projected increases in sales from 2017 levels of 0.5% per year.

Shown on Table No. 3-1 are the various expenditures and revenues for the fiscal year ending September 30, 2018, and the adjustments discussed herein. In addition, each of the adjustments is noted in the footnotes to Table No. 3-1. The development of the projected revenue requirements required certain assumptions and considerations in order to reflect certain known or anticipated changes and certain pro forma adjustments. The analyses, estimates and projections summarized herein have been based upon an understanding of certain contracts, agreements, regulations, statutory requirements and planned operations. In the preparation of this report, certain assumptions have been made with respect to conditions, which may occur in the future. While these assumptions are reasonable for the preparation of this study, they are dependent upon future events and actual conditions may differ from those assumed. To the extent that actual future conditions differ from those assumed herein or provided to us by others, the actual results will vary from those projected.

Table No. 3-2 sets forth the detailed calculations of the projected rate revenues by rate class and Table No. 3-3 shows the calculations of the projected power costs based on data provided by the City. Table No. 3-4 sets forth the calculation of the Power Cost Adjustment (the "PCA") based on projected costs and energy purchased for the calendar year ending December 31, 2018. Table No. 3-5 summarizes the Capital Improvement Plan.

Summary

Based on the projected Test Year revenue requirements developed on Table No. 3-1, the existing rates produce revenues that are less than the cost of providing service on a system wide basis. The projected deficiency is summarized below.

Description	Projected Test Year 2018
Net Revenue Requirements	\$30,812,193
Total Existing Rate and Other Operating Revenue	29,822,169
Deficiency	(\$990,024)
Percent of Existing Revenue	-3.4%

This deficiency is associated with the base rate revenues, while the purchased power expense will be collected through the PCA. As shown on Table No. 3-1, the projected power cost savings for 2018 compared to 2017 are approximately \$4.3 million, which results in a net savings of approximately \$3.4 million, or 11.2%.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Summary of Projected Revenue Requirements and Existing Rate Revenues
Fiscal Year Ending September 30

Ln. No.	Description (a)	Adopted Budget 2018 [1] (b)	Adjustments to Adopted Budget (c)	2018 Revenue Requirements (d)
Operating Expenses [2]				
1	Purchased Power	\$15,241,885	(\$858,837)	\$14,383,048 [3]
2	Personnel	2,583,156	0	2,583,156
3	Maintenance Expense	813,200	0	813,200
4	Bad Debt Expense	100,000	0	100,000
5	Other	724,923	0	724,923
6	<i>Total Operating Expenses</i>	19,463,164	(858,837)	18,604,327
Other Revenue Requirements				
7	Debt Service [4]	101,975	0	101,975
8	Capital Improvements	1,691,500	0	1,691,500
9	Transfer to General Fund	9,316,751	0	9,316,751
10	Reserve For Equipment Replacement	124,955	0	124,955
11	Administrative Services (Interfund)	374,902	0	374,902
12	Allocated Expenses	905,283	0	905,283
13	<i>Total Other Revenue Requirements</i>	12,515,366	0	12,515,366
14	Total Expenditures	31,978,530	(858,837)	31,119,693
Less Other Miscellaneous Revenue				
15	Interest Income	27,500	0	27,500
16	Sale of Surplus Material	25,000	0	25,000
17	Non Operating Sources	255,000	0	255,000
18	Total Other Revenue	307,500	0	307,500
19	NET REVENUE REQUIREMENTS	31,671,030	(858,837)	30,812,193
Projected Revenue From Sales [5]				
20	Existing Base Rate Revenues	14,572,491	(38,699)	14,533,792 [6]
21	Power Cost Adjustment	15,241,885	(858,487)	14,383,398 [3][6]
22	Surcharge Revenues	515,310	85,919	601,229 [6]
23	Other Operating Revenue	303,750	0	303,750
24	TOTAL REVENUES FROM SALES	30,633,436	(811,267)	29,822,169
25	Revenue Surplus or (Deficiency)	(\$1,037,594)	\$47,570	(\$990,024)
26	Surplus or (Deficiency) as a Percentage of Existing Base Rate Revenues			-6.8%
27	Surplus or (Deficiency) as a Percentage of Existing Base Rate and Power Cost Adjustment Revenues			-3.4%
28	Projected Power Cost Savings [7]			\$4,343,000
29	Net Savings			\$3,352,976
30	Net Savings as a Percentage of Total Revenues			11.2%

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Summary of Projected Revenue Requirements and Existing Rate Revenues

Footnotes to Table No. 3-1

- [1] Based on 2018 Adopted Budget dated September, 2017.
- [2] Unless otherwise noted, operating expenses are based on the 2018 Adopted Budget.
- [3] Based on estimated purchase power costs for Calendar Year 2018, consistent with the PCA adjustment of \$0.05321 per kWh and total sales of 270,313,813 kWh shown on Table No. 3-4.
- [4] Based on information provided by the City. Assumes no new debt service.
- [5] Based on existing rates.
- [6] From Projected Revenue Table No. 3-2, Page 2.
- [7] Based on 2017 Power Costs of \$18,726,000 less projected 2018 Power Costs of \$14,383,000.

CITY OF BARTOW, FLORIDA
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Projected Revenues at Existing Rates
Test Year 2018

Ln. No.	Customer Class Description	Rate	Billing Determinants	Base Rate Revenue	Power Cost Adjustment	Outside Surcharge	Total Revenue
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Residential Inside							
1	Service Charge	\$ 8.00	89,755	\$ 718,040	\$ -	\$ -	\$ 718,040
2	Energy Charge	\$0.04670	94,546,765	4,415,334	-	-	4,415,334
3	Power Cost Adjustment	\$0.05321	94,546,765	-	5,030,833	-	5,030,833
4	<i>Subtotal Residential Inside</i>			\$ 5,133,374	\$ 5,030,833	\$ -	\$ 10,164,207
Residential Outside							
5	Service Charge	\$ 8.00	36,392	\$ 291,136	\$ -	\$ 29,114	\$ 320,250
6	Energy Charge	\$0.04670	41,523,686	1,939,156	-	193,916	2,133,072
7	Power Cost Adjustment	\$0.05321	41,523,686	-	2,209,475	182,663	2,392,138
8	<i>Subtotal Residential Outside</i>			\$ 2,230,292	\$ 2,209,475	\$ 405,692	\$ 4,845,459
9	Total Residential		<u>136,070,450</u>	<u>\$ 7,363,666</u>	<u>\$ 7,240,309</u>	<u>\$ 405,692</u>	<u>\$ 15,009,667</u>
General Service Non-Demand Inside							
10	Service Charge	\$ 8.00	10,479	\$ 83,832	\$ -	\$ -	\$ 83,832
11	Energy Charge	\$0.06100	10,779,203	657,531	-	-	657,531
12	Power Cost Adjustment	\$0.05321	10,779,203	-	573,561	-	573,561
13	<i>Subtotal General Service Inside</i>			\$ 741,363	\$ 573,561	\$ -	\$ 1,314,925
General Service Non-Demand Outside							
14	Service Charge	\$ 8.00	4,485	\$ 35,880	\$ -	\$ 3,588	\$ 39,468
15	Energy Charge	\$0.06100	3,198,453	195,106	-	19,511	214,616
16	Power Cost Adjustment	\$0.05321	3,198,453	-	170,190	14,070	184,260
17	<i>Subtotal General Service Outside</i>			\$ 230,986	\$ 170,190	\$ 37,169	\$ 438,344
18	Total General Service Non-Demand		<u>13,977,656</u>	<u>\$ 972,349</u>	<u>\$ 743,751</u>	<u>\$ 37,169</u>	<u>\$ 1,753,269</u>
General Service Demand							
Secondary Metered Inside							
19	Service Charge	\$ 20.00	3,732	\$ 74,640	\$ -	\$ -	\$ 74,640
20	Demand Charge	\$ 8.83	252,626	2,230,685	-	-	2,230,685
21	Energy Charge	\$0.02080	84,622,810	1,760,154	-	-	1,760,154
22	Power Cost Adjustment	\$0.05321	84,622,810	-	4,502,780	-	4,502,780
23	<i>Subtotal Secondary Metered Inside</i>			\$ 4,065,479	\$ 4,502,780	\$ -	\$ 8,568,259
Secondary Metered Outside							
24	Service Charge	\$ 20.00	1,005	\$ 20,100	\$ -	\$ 2,010	\$ 22,110
25	Demand Charge	\$ 8.83	47,642	420,677	-	42,068	462,745
26	Energy Charge	\$0.02080	12,866,624	267,626	-	26,763	294,388
27	Power Cost Adjustment	\$0.05321	12,866,624	-	684,633	56,600	741,233
28	<i>Subtotal Secondary Metered Outside</i>			\$ 708,403	\$ 684,633	\$ 127,441	\$ 1,520,476

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Projected Revenues at Existing Rates
Test Year 2018

Ln. No.	Customer Class Description	Rate	Billing Determinants	Base Rate Revenue	Power Cost Adjustment	Outside Surcharge	Total Revenue
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Primary Metered Inside							
29	Service Charge	\$ 20.00	72	\$ 1,440	\$ -	\$ -	\$ 1,440
30	Demand Charge	\$ 8.653	30,292	262,116	-	-	262,116
31	Energy Charge	\$0.02050	10,951,565	224,507	-	-	224,507
32	Power Cost Adjustment	\$0.05321	10,951,565	-	582,733	-	582,733
33	<i>Subtotal Primary Metered Inside</i>			\$ 488,063	\$ 582,733	\$ -	\$ 1,070,796
Primary Metered Outside							
34	Service Charge	\$ 20.00	24	\$ 480	\$ -	\$ 48	\$ 528
35	Demand Charge	\$ 8.653	8,772	75,901	-	7,590	83,491
36	Energy Charge	\$0.02050	2,868,471	58,804	-	5,880	64,684
37	Power Cost Adjustment	\$0.05321	2,868,471	-	152,631	12,618	165,250
38	<i>Subtotal Primary Metered Outside</i>			\$ 135,184	\$ 152,631	\$ 26,137	\$ 313,952
Large Power Inside							
39	Service Charge	\$ 20.00	12	\$ 240	\$ -	\$ -	\$ 240
40	Demand Charge	\$ 8.565	15,594	133,559	-	-	133,559
41	Energy Charge	\$0.01930	7,433,181	143,460	-	-	143,460
42	Power Cost Adjustment	\$0.05321	7,433,181	-	395,520	-	395,520
43	<i>Subtotal Large Power Inside</i>			\$ 277,259	\$ 395,520	\$ -	\$ 672,779
Low Load Factor Inside							
44	Service Charge	\$ 20.00	225	\$ 4,500	\$ -	\$ -	\$ 4,500
45	Energy Charge	\$0.08380	1,200,694	100,618	-	-	100,618
46	Power Cost Adjustment	\$0.05321	1,200,694	-	63,889	-	63,889
47	<i>Subtotal Low Load Factor Inside</i>			\$ 105,118	\$ 63,889	\$ -	\$ 169,007
Low Load Factor Outside							
48	Service Charge	\$ 20.00	336	\$ 6,720	\$ -	\$ 672	\$ 7,392
49	Energy Charge	\$0.08380	322,362	27,014	-	2,701	29,715
50	Power Cost Adjustment	\$0.05321	322,362	-	17,153	1,418	18,571
51	<i>Subtotal Low Load Factor Outside</i>			\$ 33,734	\$ 17,153	\$ 4,791	\$ 55,678
52	Total General Service Demand Inside		104,208,250	\$ 4,935,920	\$ 5,544,921	\$ -	\$ 10,480,841
53	Total General Service Demand Outside		16,057,457	\$ 877,321	\$ 854,417	\$ 158,369	\$ 1,890,107
Private Area Lighting							
54	Private Area Lighting Residential			\$ 146,338	\$ -	\$ -	\$ 146,338
55	Private Area Lighting Commercial			238,198	-	-	238,198
56	<i>Total Private Area Lighting</i>			\$ 384,536	\$ -	\$ -	\$ 384,536
57	TOTAL INSIDE		209,534,218	\$ 10,956,995	\$ 11,149,316	\$ -	\$ 22,106,311
58	TOTAL OUTSIDE		60,779,595	\$ 3,576,797	\$ 3,234,082	\$ 601,229	\$ 7,412,108
59	TOTAL SYSTEM		270,313,813	\$ 14,533,792	\$ 14,383,398	\$ 601,229	\$ 29,518,419

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Calendar Year 2018 Projected Power Costs^[1]

Ln. No.	Description (a)	Power Costs (b)
<u>Demand Related Costs</u>		
1	FMPA Capacity Costs	\$863,731
2	OUC Base Capacity Costs	866,220
3	OUC Intermediate Capacity Costs	1,237,457
4	Duke Transmission Costs	1,974,719
5	Subtotal Demand Related Costs	\$4,942,127
<u>Energy Related Costs</u>		
6	FMPA Fuel Energy Costs	690,175
7	FMPA Non-Fuel Energy Costs	53,079
8	OUC Base Fuel Energy Costs	4,307,492
9	OUC Base Non-Fuel Energy Costs	632,341
10	OUC Intermediate Fuel Energy Costs	2,709,421
11	OUC Intermediate Non-Fuel Energy Costs	386,695
12	Subtotal Energy Related Costs	\$8,779,203
13	TOTAL POWER COSTS	\$13,721,330

[1] Based on information provided by the City.

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Calculation of Power Cost Adjustment (PCA)
Calendar Year Ending December 31, 2018

Ln. No.	Description (a)		Amount (b)	Reference (c)
<u>Power Cost Adjustment Calculation</u>				
1	Projected Power Supply Costs	(\$)	\$13,721,330	Table No. 3-3
2	Other Costs to Be Recovered ^[1]	(\$)	\$661,718	
3	Total Costs to be Recovered	(\$)	<u>\$14,383,048</u>	Line 1 + Line 2
4	Total Projected Energy Sales	(kWh)	270,313,813	Table No. 2-2
5	Total Cost per kWh	(\$/kWh)	\$0.05321	Line 3 / Line 4
6	Base Cost per kWh	(\$/kWh)	<u>\$0.00000</u>	No Cost in Base Rates
7	Power Cost Adjustment - (PCA)	(\$/kWh)	<u>\$0.05321</u>	Line 5 - Line 6

[1] Including costs associated with solar production for the period March through December 2018.

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Summary of Capital Improvement Plan - Expenditures and Funding Sources

Line No.	Projects	<i>Fiscal Year Ending September 30</i>					Total
		2018	2019	2020	2021	2022	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	<u>Proposed Expenditures [1]</u>						
1	Distribution System Upgrades and Extensions	\$308,000	\$412,400	\$412,000	\$412,000	\$412,000	\$1,956,400
2	Mineral Development Extension	333,000	-	-	-	-	333,000
3	OH Line Extension Feeder Tie 98 - Hwy 17	622,000	-	-	-	-	622,000
4	Kissingen Height Subdivision	136,000	-	-	-	-	136,000
5	Replace 2003 Material Handling Truck #623	187,000	-	-	-	-	187,000
6	Municipal Street Light Conversion to LED	-	35,000	35,000	35,000	35,000	140,000
7	Odom Substation Circuit Breakers	-	550,000	-	-	-	550,000
8	OH Line Extn Feeder Tie Hwy 17-91 Mine Rd	-	-	650,000	-	-	650,000
9	Area Substation - Electric Master Plan	-	-	-	950,000	-	950,000
10	Replace 2004 Material Handling Truck #617	-	187,000	-	-	-	187,000
11	Replace 2004 Service Bucket Truck #640	-	-	-	120,500	-	120,500
12	Replace 2007 Digger Derric Truck #641	-	-	-	-	185,000	185,000
13	Replace 2003 Digger Derric Truck #622	-	-	246,000	-	-	246,000
14	Replace 2005 Utility Bed Truck #632	-	-	-	32,500	-	32,500
15	Replace 2005 Flat Bed F-350 Dump Truck #614	-	-	-	30,000	-	30,000
16	Replace 2005 Flat Bed F-350 Dump Truck #618	-	-	-	30,000	-	30,000
17	Replace 1995 E Z Hauler Backyard Mach #1641	-	-	-	50,000	-	50,000
18	Replace Trencher Backhoe	-	-	-	25,000	-	25,000
19	Trimble Mobile GPS & Software	5,500	-	-	-	-	5,500
20	Two (2) Wire Trailers	20,000	-	-	-	-	20,000
21	PowerSecure Switchgear Controls	80,000	-	-	-	-	80,000
22	Total Proposed Expenditures	<u>\$1,691,500</u>	<u>\$1,184,400</u>	<u>\$1,343,000</u>	<u>\$1,685,000</u>	<u>\$632,000</u>	<u>\$6,535,900</u>
	<u>Funding Sources</u>						
23	Cash	-	-	-	-	-	-
24	Bond Proceeds [2]	-	-	-	-	-	-
25	Operating Fund Revenues [3]	1,691,500	1,184,400	1,343,000	1,685,000	632,000	6,535,900
26	Total Funding Sources	<u>\$1,691,500</u>	<u>\$1,184,400</u>	<u>\$1,343,000</u>	<u>\$1,685,000</u>	<u>\$632,000</u>	<u>\$6,535,900</u>

[1] Amounts shown are projected by the City and reflect estimated direct construction costs and exclude the estimated costs of financing, (i.e. interest during construction and reserves, etc.)

[2] Assumes no new debt issued.

[3] Balance to be funded from Operating Revenues.

Section 4

FUNCTIONALIZATION AND CLASSIFICATION OF COSTS AND DEVELOPMENT OF ALLOCATION FACTORS

Functionalization and Classification

In allocating utility costs to the various customer classes, there are three major processes: functionalization, classification, and allocation. The functionalization and classification of the Test Year revenue requirement are discussed in the first part of this section of the report. The development of allocation factors for the Test Year revenue requirement is discussed and set forth in the second half of this section.

Functionalization of Test Year Expenditures

Although budgeting and accounting systems generally follow functional groups, i.e., production, transmission, etc., certain costs such as those associated with administrative and general expenses and bond service generally are not assigned by accounting and budgetary convention to a major function. A cost-of-service study usually requires the rearrangement of certain expenditures into functional groups (i) to be more representative of the expenditure causation, (ii) to combine costs that have been incurred for a similar purpose, and (iii) to facilitate the allocation of cost responsibility. Thus, the functionalization of certain costs is merely a ratemaking mechanism to apportion such costs to the common utility function.

The typical functions of the Test Year Revenue Requirements are developed in Table No. 4-1 and the functionalized costs are summarized below.

<u>Function and Description</u>	<u>Test Year Amount</u>
<i>Production.</i> Those costs associated with generating or purchasing power and delivering that power to the utility's bulk transmission system.....	\$15,372,762
<i>Transmission and Distribution.</i> Those costs incurred in connection with the delivery of power over the bulk transmission system through the primary and secondary distribution system to the utility's consumer.....	\$14,259,597
<i>Customer.</i> Those costs that are related to the number, type and size of customers.....	<u>\$1,487,334</u>
Total Expenditures	<u>\$31,119,693</u>

An analysis of the Test Year revenue requirements was made to estimate the functionalized Test Year revenue requirements.

Classification of Various Costs

Historically, electric utility costs or the components of the annual revenue requirement have generally been classified as (1) demand-related, (2) variable or energy-related, and

(3) customer-related. Thus, if a cost or expense is fixed or does not vary directly with the level of kWh purchased or sold, the cost was assumed to be generally related to the demands or load of the customers and was allocated to the various customer classes on the basis of demand or load relationships. Debt service is one example of an expenditure generally classified as demand-related. If a cost or expense was viewed to vary with the amount of kWh the electric utility sold, the cost or expense was usually classified as energy-related and allocated to the various customer classes on the basis of kWh relationships. Purchased energy costs are a primary example of expenses classified as variable or energy-related and allocated on the basis of kWh sales. If the cost is directly related to the number of customers which are being served, these costs would generally be classified as such and allocated to the customer classes based on the customer relationship among the customer classes. An example of customer-related costs is meter reading expenses.

Until such time that the development of more detailed data with regard to hourly usage characteristics and costs is economically justified or legally required, the classification of costs described below reflects usual regulatory practice as well as a reasonable and equitable approach.

Demand (Fixed) Costs: Are defined as those costs incurred to maintain in readiness-to-serve an electric system capable of meeting the total combined demands of all classes of customers. Demand costs are those costs that are generally fixed in the short-run, that do not materially vary directly with the number of kWh generated or sold, and that are not defined as customer costs. Demand costs will include that portion of operation and maintenance expenses; debt service; renewals, replacements and improvements; and other costs which are not designated as specifically customer or variable energy costs.

Customer Costs: Are defined as those costs directly related to the number, type and size of customers, such as customer accounting and collecting, and costs of meters and services.

Energy (Variable) Costs: Are defined as those costs that vary substantially or directly with the amount of energy sold or generated and purchased, including such items as fuel and a portion of operation and maintenance expense for production facilities.

Development of Allocation Factors

General

This section discusses the development of the factors utilized to allocate the capacity related, energy related, customer related, and other costs to the various customer classes. The aforementioned costs are allocated to the customer classes according to their respective customer class, and the particular cost allocation factor developed for each class and for each type of cost. The customer classes include Residential, General Service Non-Demand, General Service Demand Secondary, General Service Demand Primary, General Service Demand – Large Power, General Service Demand Low Load Factor, and Lighting.

Demand Allocation Factors

"Demand Allocation" refers to the basis on which capacity and other demand related costs are distributed or assigned (allocated) among the various customer classes for the purpose of determining the revenues required from each class to recover such costs. The demand allocation factors, as developed and used herein, reflect the cost responsibility for each of the various customer classes in relation to the capacity or demand related costs to be allocated. The demand allocation factors were used to apportion the following capacity or demand related costs among the various customer classes.

- Purchased power expenses (fixed capacity costs only);
- Transmission and distribution expenses;
- Debt service requirements;
- Allowances for renewal and replacements, and reserves; and
- Payments to the City.

The demand allocation factors were developed based on historical demand and energy relationships filed with the Public Service Commission investor owned utilities and based on the City's historical billing demands. The demand allocation factors are based on the estimated annual coincident and non-coincident peak demands. Table No. 4-2 summarizes the demand allocation factors.

Energy Allocation Factors

Energy allocation factors are the basis for apportioning those costs or expenses classified as variable or energy related and assumed to vary directly with the level of kWh sales or generation. The costs classified herein as variable or energy related are fuel, purchased power, and the variable portion of other production expenses.

The projected fiscal year energy sales data are discussed in Section 2. The resulting energy allocation factors are shown on Table No. 4-3.

Customer Allocation Factors

Customer costs are defined herein as those costs related to the number of customers and the size of service required. Included in the customer related costs are the costs associated with meter reading, meter maintenance, customer installations, billing, collecting, and other customer related accounting, service, and information functions. The customer allocation factors were based on the projected average number of customers in each customer classification during the Test Year.

In apportioning customer related costs and revenues to the various customer classifications, customer allocation factors were utilized that recognized weighted and unweighted customers and fixtures. The customer weighting factors were based on Duke Energy Florida customer charges. The customer allocation factors are shown on Table No. 4-4.

Other Allocation Factors

Certain elements of the annual revenue requirement are related to revenues. Miscellaneous other allocation factors including the revenue allocation factors are set forth in Table No. 5-1.

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Functionalization of Test Year 2018 Projected Revenue Requirements
Fiscal Year Ending September 30

Ln. No.	Description (a)	2018 Test Year Requirements (b)	Functionalization			
			Production Fixed (c)	Production Variable (d)	Transmission & Distribution Fixed (e)	Customer Fixed (f)
Operating Expenses						
1	Purchased Power	\$14,383,048	\$4,942,127	\$9,440,921	\$0	\$0
2	Personnel	2,583,156	0	0	1,291,578	1,291,578
3	Maintenance Expense	813,200	0	0	813,200	0
4	Bad Debt Expense	100,000	0	0	0	100,000
5	Other	724,923	0	0	724,923	0
6	Subtotal	<u>18,604,327</u>	<u>4,942,127</u>	<u>9,440,921</u>	<u>2,829,701</u>	<u>1,391,578</u>
Other Revenue Requirements						
7	Debt Service	101,975	0	0	101,975	0
8	Capital Improvements	1,691,500	0	0	1,691,500	0
9	Transfer to General Fund	9,316,751	0	0	9,316,751	0
10	Reserve For Equipment Replacement	124,955	0	0	124,955	0
11	Administrative Services (Interfund)	374,902	99,590	190,247	57,022	28,042
12	Allocated Expenses	905,283	240,483	459,393	137,693	67,714
13	Subtotal	<u>12,515,366</u>	<u>340,073</u>	<u>649,641</u>	<u>11,429,896</u>	<u>95,756</u>
14	Total Expenditures	<u>31,119,693</u>	<u>5,282,200</u>	<u>10,090,562</u>	<u>14,259,597</u>	<u>1,487,334</u>
Less Other Miscellaneous Revenue						
15	Interest Income	27,500	0	0	27,500	0
16	Sale of Surplus Material	25,000	0	0	25,000	0
17	Non Operating Sources	255,000	0	0	255,000	0
18	Total Other Revenue	<u>\$307,500</u>	<u>\$0</u>	<u>\$0</u>	<u>\$307,500</u>	<u>\$0</u>
19	NET REVENUE REQUIREMENTS	<u><u>\$30,812,193</u></u>	<u><u>\$5,282,200</u></u>	<u><u>\$10,090,562</u></u>	<u><u>\$13,952,097</u></u>	<u><u>\$1,487,334</u></u>

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Summary of Demand Allocation Factors

Ln. No.	Customer Class (a)	Average 12 CP		Average Demand			PSC 12 CP Methodology				NCP Demand	
		Demand @ Source (kW) (b)	Percent of Total (%) (c)	2018 Energy at Source (Mwh) (d)	Average Demand (kW) (e)	Percent of Total (%) (f)	Avg. 12 CP @12/13 (kW) (g)	Avg. kW @1/13 (kW) (h)	Total (kW) (%) (i) (j)		Demand @ Source (kW) (k)	Percent of Total (%) (l)
1	Residential	29,402	52.89%	144,235	16,465	50.34%	27,140	1,267	28,407	52.77%	36,589	52.64%
2	General Service Non-Demand	2,916	5.25%	14,816	1,691	5.17%	2,692	130	2,822	5.24%	3,933	5.66%
	<u>General Service Demand</u>											
3	Secondary	18,875	33.95%	103,339	11,797	36.07%	17,423	907	18,330	34.05%	23,593	33.95%
4	Primary	2,676	4.81%	14,649	1,672	5.11%	2,470	129	2,598	4.83%	3,345	4.81%
5	Large Power	1,199	2.16%	7,879	899	2.75%	1,107	69	1,176	2.18%	1,428	2.05%
6	Low Low Factor	527	0.95%	1,614	184	0.56%	486	14	500	0.93%	614	0.88%
7	TOTAL SYSTEM	55,594	100.00%	286,533	32,709	100.00%	51,318	2,516	53,834	100.00%	69,503	100.00%

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Development of Demand Allocation Factors

Ln. No.	Customer Class (a)	Total FY 2018 Energy (Mwh) (b)	Average 12 CP				Non-Coincident Peak					
			Load Factor (%) [1] (c)	Demand @ Meter (kW) (d)	Delivery Efficiency (e)	Demand @ Source (kW) (f)	Percent of Total (%) (g)	Load Factor (%) [1] (h)	Demand @ Meter (kW) (i)	Delivery Efficiency (j)	Demand @ Source (kW) (k)	Percent of Total (%) (l)
1	Residential	136,070	56.00%	27,738	0.9434	29,402	52.89%	45.00%	34,518	0.9434	36,589	52.64%
2	General Service Non-Demand	13,978	58.00%	2,751	0.9434	2,916	5.25%	43.00%	3,711	0.9434	3,933	5.66%
<u>General Service Demand</u>												
3	Secondary	97,489	62.50%	17,806	0.9434	18,875	33.95%	50.00%	22,258	0.9434	23,593	33.95%
4	Primary	13,820	62.50%	2,524	0.9434	2,676	4.81%	50.00%	3,155	0.9434	3,345	4.81%
5	Large Power	7,433	75.00%	1,131	0.9434	1,199	2.16%	63.00%	1,347	0.9434	1,428	2.05%
6	Low Load Factor	1,523	35.00%	497	0.9434	527	0.95%	30.00%	580	0.9434	614	0.88%
7	TOTAL SYSTEM	<u>270,314</u>		<u>52,447</u>		<u>55,594</u>	100.00%		<u>65,568</u>		<u>69,503</u>	100.00%

[1] Average 12 CP and NCP Load Factors are based on the Florida Public Service Commission 2017 Load Research Results and City of Bartow billing demands.

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Summary of Energy Allocation Factors

Fiscal Year 2018

Ln. No.	Customer Class (a)	Energy (Mwh) [1]		Allocation Factors (%)	
		Energy Sales (b)	Net Generation (c)	Energy Sales (d)	Net Generation (e)
1	Residential	136,070	144,235	50.34%	50.34%
2	General Service Non-Demand	13,978	14,816	5.17%	5.17%
	<u>General Service Demand</u>				
3	Secondary	97,489	103,339	36.07%	36.07%
4	Primary	13,820	14,649	5.11%	5.11%
5	Large Power	7,433	7,879	2.75%	2.75%
6	Low Load Factor	1,523	1,614	0.56%	0.56%
5	TOTAL SYSTEM	270,314	286,533	100.00%	100.00%

[1] A factor of 6.0% was assumed for System Losses based on data received from the City of Bartow.

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Summary of Customer Allocation Factors

Fiscal Year 2018

Ln. No.	Customer Class (a)	Unweighted Customers		Weighted Customers			Unweighted - No Lighting	
		Customers (b)	Factor (c)	Weighting Factor ^[1] (d)	Customers ^[2] (e)	Factor (f)	Customers (g)	Factor (h)
1	Residential	10,512	86.10%	1.00	10,512	82.65%	10,512	86.10%
2	General Service Non-Demand	1,247	10.21%	1.30	1,621	12.75%	1,247	10.21%
	<u>General Service Demand</u>							
3	Secondary	395	3.23%	1.30	513	4.03%	395	3.23%
4	Primary	8	0.07%	1.30	10	0.08%	8	0.07%
5	Large Power	1	0.01%	1.30	1	0.01%	1	0.01%
6	Low Load Factor	47	0.38%	1.30	61	0.48%	47	0.38%
7	TOTAL SYSTEM	<u>12,210</u>	<u>100.00%</u>		<u>12,718</u>	<u>100.00%</u>	<u>12,210</u>	<u>100.00%</u>

[1] Based on Duke Energy Florida customer charges.

[2] Weighted customers are equal to Column (b), Unweighted Customers multiplied times Column (d), the Weighting Factor.

Section 5 ALLOCATED COST OF SERVICE

General

As one of the factors considered in the development of the proposed rate levels and rate structures included herein, certain analyses common in ratemaking have been employed which provide a reasonable indication of the revenue levels required to recover the full cost of service or revenue requirement of each customer class. Since it is not the practice in utility accounting to maintain a subdivision of accounts that will report the cost of rendering service to each customer class, an allocation of costs must be made on the basis of parameters predicated upon the available classifications of operating expense and utility plant.

Rate Classifications

The present customer classifications are as follows:

- Residential
- General Service Non-Demand
- General Service Demand – Secondary
- General Service Demand – Primary
- General Service Demand – Large Power
- General Service Demand Low Load Factor
- Lighting

Allocation and Assignment of the Cost of Service

The allocated cost of service was developed, along with the target rate increase for each class, based on a comparison of existing rate revenues.

The projected Test Year revenues under the existing rates and charges, the revenue increase, and the percentage increase necessary to recover the projected cost of service for each of the major rate classifications, as summarized from the various detailed tables included in this section, are as follows:

Section 5

Customer Class	Test Year 2018		
	Total Existing	Target Increases	
	Rate Revenue (\$000)	(\$000)	(%)
Residential	\$15,010	\$630	4.2%
General Service Non-Demand	1,753	35	2.0%
General Service Demand - Secondary	10,089	252	2.5%
General Service Demand - Primary	1,385	35	2.5%
General Service Demand - Large Power	673	17	2.5%
General Service Demand - Low Load Factor	225	8	3.5%
Lighting	385	13	3.5%
Total System	\$29,518	\$990	3.4%

Table No. 5-1, consisting of five schedules, sets forth the detailed allocation of the various Test Year costs to each of the major customer classes.

Schedule I sets forth the various allocation factors described in Section 4 which were utilized in the cost of service study as the basis for the allocation of the majority of the Test Year revenue requirements to the various rate classifications. However, for certain of the revenue requirements the cost allocation factors were developed within the model in order to more appropriately allocate the revenue requirements to the customer classifications.

Schedule II provides a summary of the functionalization and classification of the projected Test Year operation and maintenance expenses and the allocation and assignment of the classified functional expenses to the various rate classifications. The various elements were allocated in accordance with the allocation factor identification shown in the column titled "Allocation Reference." The identification number, in general, refers to the appropriate corresponding "Alloc. #" shown in the first column on Schedule I of Table No. 5-1.

Schedule III provides a summary of the functionalization, classification and allocation or assignment to customer classes of the other revenue requirements for the Test Year, and includes Debt Service; Capital Improvements; Reserves, and payments to the City. The bases of the functionalization and classification of the various elements are discussed in Section 4.

Schedule IV sets forth the projected Test Year existing rate and other revenues by rate classification.

Schedule V summarizes the results of the allocated cost of service study including the indicated revenue increases by customer class.

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SCHEDULE I - ALLOCATION FACTORS

Alloc. #	Description	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Service Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
DEMAND RELATED									
1	Residential CP (%)	100.000%	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
	<i>Residential CP (kW)</i>	28,407	28,407	0	0	0	0	0	0
2	General Service Non-Demand CP (%)	100.000%	0.000%	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%
	<i>General Service CP (kW)</i>	2,822	0	2,822	0	0	0	0	0
3	General Service Demand Sec. CP (%)	100.000%	0.000%	0.000%	100.000%	0.000%	0.000%	0.000%	0.000%
	<i>General Service Demand Sec. CP (kW)</i>	18,330	0	0	18,330	0	0	0	0
4	General Service Demand Prim. CP (%)	100.000%	0.000%	0.000%	0.000%	100.000%	0.000%	0.000%	0.000%
	<i>General Service Demand Prim. CP (kW)</i>	2,598	0	0	0	2,598	0	0	0
5	General Service Dem. Large Power CP (%)	100.000%	0.000%	0.000%	0.000%	0.000%	100.000%	0.000%	0.000%
	<i>General Service Dem. Large Power CP (kW)</i>	1,176	0	0	0	0	1,176	0	0
6	General Service Low Load Factor CP (%)	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	100.000%	0.000%
	<i>General Service Low Load Factor CP (kW)</i>	500	0	0	0	0	0	500	0
9	Total System CP (%)	100.000%	52.768%	5.242%	34.050%	4.827%	2.185%	0.929%	0.000%
	<i>Total System CP (kW)</i>	53,834	28,407	2,822	18,330	2,598	1,176	500	0
10	Total System NCP (%)	100.000%	52.644%	5.659%	33.946%	4.812%	2.054%	0.884%	0.000%
	<i>Total System NCP (kW)</i>	69,503	36,589	3,933	23,593	3,345	1,428	614	0
11	Commercial NCP (%)	100.000%	0.000%	11.951%	71.683%	10.162%	4.338%	1.866%	0.000%
	<i>Commercial NCP (kW)</i>	32,913	0	3,933	23,593	3,345	1,428	614	0
13	Residential NCP (%)	100.000%	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
	<i>Residential NCP (kW)</i>	36,589	36,589	0	0	0	0	0	0
ENERGY RELATED									
20	Energy Sales (%)	100.000%	50.338%	5.171%	36.065%	5.113%	2.750%	0.563%	0.000%
	<i>Energy Sales (MWh)</i>	270,313	136,070	13,978	97,489	13,820	7,433	1,523	0
21	Energy Generation (%)	100.000%	50.338%	5.171%	36.065%	5.113%	2.750%	0.563%	0.000%
	<i>Energy Generation (MWh)</i>	286,532	144,235	14,816	103,339	14,649	7,879	1,614	0

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SCHEDULE I - ALLOCATION FACTORS

Alloc. #	Description	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Service Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
CUSTOMER RELATED									
30	Unweighted (%)	100.000%	86.093%	10.213%	3.235%	0.066%	0.008%	0.385%	0.000%
	<i>Unweighted (#)</i>	<i>12,210</i>	<i>10,512</i>	<i>1,247</i>	<i>395</i>	<i>8</i>	<i>1</i>	<i>47</i>	
31	Weighted (%)	100.000%	82.655%	12.746%	4.034%	0.079%	0.008%	0.480%	0.000%
	<i>Weighted (#)</i>	<i>12,718</i>	<i>10,512</i>	<i>1,621</i>	<i>513</i>	<i>10</i>	<i>1</i>	<i>61</i>	
32	Unweighted (%)	100.000%	86.093%	10.213%	3.235%	0.066%	0.008%	0.385%	0.000%
	<i>Unweighted (#) - No Lighting</i>	<i>12,210</i>	<i>10,512</i>	<i>1,247</i>	<i>395</i>	<i>8</i>	<i>1</i>	<i>47</i>	
REVENUE RELATED									
40	Demand Revenue (%)	100.000%	0.000%	0.000%	84.900%	10.824%	4.277%	0.000%	0.000%
	<i>Demand Revenue (\$)</i>	<i>3,122,937</i>	<i>0</i>	<i>0</i>	<i>2,651,362</i>	<i>338,017</i>	<i>133,559</i>	<i>0</i>	<i>0</i>
41	Energy Revenue (%)	100.000%	64.913%	8.710%	20.714%	2.894%	1.465%	1.304%	0.000%
	<i>Energy Revenue (\$)</i>	<i>9,789,310</i>	<i>6,354,490</i>	<i>852,637</i>	<i>2,027,780</i>	<i>283,311</i>	<i>143,460</i>	<i>127,632</i>	<i>0</i>
42	Customer Revenue (%)	100.000%	62.235%	7.383%	5.843%	0.118%	0.015%	0.692%	23.714%
	<i>Customer Revenue (\$)</i>	<i>1,621,544</i>	<i>1,009,176</i>	<i>119,712</i>	<i>94,740</i>	<i>1,920</i>	<i>240</i>	<i>11,220</i>	<i>384,536</i>
43	Base Rate Revenue (%)	100.000%	50.666%	6.690%	32.847%	4.288%	1.908%	0.955%	2.646%
	<i>Base Rate Revenue (\$)</i>	<i>14,533,792</i>	<i>7,363,666</i>	<i>972,349</i>	<i>4,773,882</i>	<i>623,247</i>	<i>277,259</i>	<i>138,852</i>	<i>384,536</i>
44	Outside City Surcharge Revenue (%)	100.000%	67.477%	6.182%	21.197%	4.347%	0.000%	0.797%	0.000%
	<i>Outside City Surcharge Revenue (\$)</i>	<i>601,229</i>	<i>405,692</i>	<i>37,169</i>	<i>127,441</i>	<i>26,137</i>	<i>0</i>	<i>4,791</i>	<i>0</i>
45	Power Cost Adjustment Revenue (%)	100.000%	50.338%	5.171%	36.065%	5.113%	2.750%	0.563%	0.000%
	<i>Power Adjustment Revenue (\$)</i>	<i>14,383,398</i>	<i>7,240,309</i>	<i>743,751</i>	<i>5,187,413</i>	<i>735,364</i>	<i>395,520</i>	<i>81,042</i>	<i>0</i>
DIRECT ASSIGNMENT									
50	Residential	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
51	General Srvc Non-Demand	100.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
52	General Srvc Demand - Sec.	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
53	General Srvc Demand - Prim.	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
54	General Service Demand - Large Power	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%
55	General Service Low Load Factor	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
56	Lighting	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

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SCHEDULE II - OPERATING EXPENSES

Line No.	Description	Allocation Reference	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Srvc Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
PRODUCTION O & M EXPENSES										
100	Purchased Power Fixed	9	\$ 4,942,127	2,607,845	259,062	1,682,772	238,549	107,979	45,921	0
101	Purchased Power Variable	21	9,440,921	4,752,388	488,171	3,404,909	482,669	259,605	53,180	0
102	TOTAL		\$ 14,383,048	7,360,233	747,233	5,087,680	721,217	367,584	99,101	0
<i>CLASSIFICATION:</i>										
103	DEMAND RELATED		4,942,127	2,607,845	259,062	1,682,772	238,549	107,979	45,921	0
104	ENERGY RELATED		9,440,921	4,752,388	488,171	3,404,909	482,669	259,605	53,180	0
105	CUSTOMER RELATED		0	0	0	0	0	0	0	0
106	REVENUE RELATED		0	0	0	0	0	0	0	0
107	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
108	TOTAL		\$ 14,383,048	7,360,233	747,233	5,087,680	721,217	367,584	99,101	0
TRANSMISSION & DISTRIBUTION EXPENSE										
109	Transmission Fixed O & M	10	2,829,701	1,489,680	160,143	960,571	136,170	58,127	25,010	0
110	TOTAL		\$ 2,829,701	1,489,680	160,143	960,571	136,170	58,127	25,010	0
<i>CLASSIFICATION:</i>										
111	DEMAND RELATED		2,829,701	1,489,680	160,143	960,571	136,170	58,127	25,010	0
112	ENERGY RELATED		0	0	0	0	0	0	0	0
113	CUSTOMER RELATED		0	0	0	0	0	0	0	0
114	REVENUE RELATED		0	0	0	0	0	0	0	0
115	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
116	TOTAL		\$ 2,829,701	1,489,680	160,143	960,571	136,170	58,127	25,010	0
CUSTOMER ACCOUNTING EXPENSES										
117	Customer	30	\$ 1,391,578	1,198,056	142,121	45,018	912	114	5,357	0
118	Meter Reading	32	0	0	0	0	0	0	0	0
119	TOTAL		\$ 1,391,578	1,198,056	142,121	45,018	912	114	5,357	0
<i>CLASSIFICATION:</i>										
120	DEMAND RELATED		0	0	0	0	0	0	0	0
121	ENERGY RELATED		0	0	0	0	0	0	0	0
122	CUSTOMER RELATED		1,391,578	1,198,056	142,121	45,018	912	114	5,357	0
123	REVENUE RELATED		0	0	0	0	0	0	0	0
124	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
125	TOTAL		\$ 1,391,578	1,198,056	142,121	45,018	912	114	5,357	0

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SCHEDULE II - OPERATING EXPENSES

Line No.	Description	Allocation Reference	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Srvc Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
ADMINISTRATIVE & GENERAL EXPENSES										
126	Production Fixed	9	340,073	179,449	17,826	115,793	16,415	7,430	3,160	0
127	Production Variable	21	649,641	327,017	33,592	234,296	33,213	17,864	3,659	0
128	Transmission & Distribution Fixed	10	194,715	102,507	11,020	66,098	9,370	4,000	1,721	0
129	Customer Accounts	30	95,756	82,440	9,780	3,098	63	8	369	0
130	TOTAL		\$ 1,280,185	691,412	72,217	419,285	59,061	29,301	8,909	0
<i>CLASSIFICATION:</i>										
131	DEMAND RELATED		534,788	281,955	28,846	181,891	25,785	11,430	4,881	0
132	ENERGY RELATED		649,641	327,017	33,592	234,296	33,213	17,864	3,659	0
133	CUSTOMER RELATED		95,756	82,440	9,780	3,098	63	8	369	0
134	REVENUE RELATED		0	0	0	0	0	0	0	0
135	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
136	TOTAL		\$ 1,280,185	691,412	72,217	419,285	59,061	29,301	8,909	0
137	TOTAL O & M EXPENSES		\$ 19,884,512	\$ 10,739,382	\$ 1,121,714	\$ 6,512,554	\$ 917,359	\$ 455,126	\$ 138,377	\$ -
<i>CLASSIFICATION:</i>										
138	DEMAND RELATED		8,306,616	4,379,480	448,051	2,825,234	400,503	177,536	75,813	0
139	ENERGY RELATED		10,090,562	5,079,405	521,763	3,639,205	515,882	277,468	56,839	0
140	CUSTOMER RELATED		1,487,334	1,280,496	151,901	48,116	975	122	5,725	0
141	REVENUE RELATED		0	0	0	0	0	0	0	0
142	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
143	TOTAL		19,884,512	10,739,382	1,121,714	6,512,554	917,359	455,126	138,377	0

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SCHEDULE III - OTHER REVENUE REQUIREMENTS

Line No.	Description	Allocation Reference	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Srvc Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
DEBT SERVICE										
144	Production Demand Related	9	0	0	0	0	0	0	0	0
145	Transmission & Distribution Fixed	9	101,975	53,810	5,345	34,722	4,922	2,228	948	0
146	Distribution Customer Related	31	0	0	0	0	0	0	0	0
147	Distribution Direct Residential	13	0	0	0	0	0	0	0	0
148	Distribution Direct Commercial	11	0	0	0	0	0	0	0	0
149	Distribution Direct Lighting	12	0	0	0	0	0	0	0	0
150	TOTAL		\$ 101,975	53,810	5,345	34,722	4,922	2,228	948	0
<i>CLASSIFICATION:</i>										
151	DEMAND RELATED		101,975	53,810	5,345	34,722	4,922	2,228	948	0
152	ENERGY RELATED		0	0	0	0	0	0	0	0
153	CUSTOMER RELATED		0	0	0	0	0	0	0	0
154	REVENUE RELATED		0	0	0	0	0	0	0	0
155	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
156	TOTAL		\$ 101,975	53,810	5,345	34,722	4,922	2,228	948	0
CAPITAL IMPROVEMENTS										
157	Transmission & Distribution Fixed	9	1,691,500	892,565	88,667	575,948	81,646	36,957	15,717	0
158	Other Capital improvements	9	0	0	0	0	0	0	0	0
159	TOTAL		\$ 1,691,500	892,565	88,667	575,948	81,646	36,957	15,717	0
<i>CLASSIFICATION:</i>										
160	DEMAND RELATED		1,691,500	892,565	88,667	575,948	81,646	36,957	15,717	0
161	ENERGY RELATED		0	0	0	0	0	0	0	0
162	CUSTOMER RELATED		0	0	0	0	0	0	0	0
163	REVENUE RELATED		0	0	0	0	0	0	0	0
164	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
165	TOTAL		\$ 1,691,500	892,565	88,667	575,948	81,646	36,957	15,717	0

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SCHEDULE III - OTHER REVENUE REQUIREMENTS

Line No.	Description	Allocation Reference	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Srvc Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
TRANSFER TO GENERAL FUND										
166	Transfer to Gen. Fund - Prod. Fixed	9	0	0	0	0	0	0	0	0
167	Transfer to Gen. Fund - T&D Fixed	9	9,316,751	4,916,231	488,376	3,172,311	449,705	203,559	86,570	0
168	Transfer - Distr. Customer	31	0	0	0	0	0	0	0	0
169	Transfer - Distr. Dir. Res.	13	0	0	0	0	0	0	0	0
170	Transfer - Distr. Dir. Commer.	11	0	0	0	0	0	0	0	0
171	Transfer - Distr. Dir. Lighting	12	0	0	0	0	0	0	0	0
172	TOTAL		\$ 9,316,751	4,916,231	488,376	3,172,311	449,705	203,559	86,570	0
<i>CLASSIFICATION:</i>										
173	DEMAND RELATED		9,316,751	4,916,231	488,376	3,172,311	449,705	203,559	86,570	0
174	ENERGY RELATED		0	0	0	0	0	0	0	0
175	CUSTOMER RELATED		0	0	0	0	0	0	0	0
176	REVENUE RELATED		0	0	0	0	0	0	0	0
177	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
178	TOTAL		\$ 9,316,751	4,916,231	488,376	3,172,311	449,705	203,559	86,570	0
OTHER REVENUE REQUIREMENTS										
179	Reserve For Equipment - T&D Fixed	9	124,955	65,936	6,550	42,547	6,031	2,730	1,161	0
180	Other Transfers - T&D Fixed	9	0	0	0	0	0	0	0	0
181	TOTAL		\$ 124,955	65,936	6,550	42,547	6,031	2,730	1,161	0
<i>CLASSIFICATION:</i>										
182	DEMAND RELATED		124,955	65,936	6,550	42,547	6,031	2,730	1,161	0
183	ENERGY RELATED		0	0	0	0	0	0	0	0
184	CUSTOMER RELATED		0	0	0	0	0	0	0	0
185	REVENUE RELATED		0	0	0	0	0	0	0	0
186	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
187	TOTAL		\$ 124,955	65,936	6,550	42,547	6,031	2,730	1,161	0
188	GROSS REVENUE REQUIREMENT		<u>\$ 31,119,693</u>	<u>\$ 16,667,923</u>	<u>\$ 1,710,652</u>	<u>\$ 10,338,082</u>	<u>\$ 1,459,664</u>	<u>\$ 700,600</u>	<u>\$ 242,772</u>	<u>\$ -</u>
<i>CLASSIFICATION:</i>										
189	DEMAND RELATED		19,541,797	10,308,022	1,036,988	6,650,761	942,807	423,010	180,208	0
190	ENERGY RELATED		10,090,562	5,079,405	521,763	3,639,205	515,882	277,468	56,839	0
191	CUSTOMER RELATED		1,487,334	1,280,496	151,901	48,116	975	122	5,725	0
192	REVENUE RELATED		0	0	0	0	0	0	0	0
193	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
194	TOTAL		\$ 31,119,693	16,667,923	1,710,652	10,338,082	1,459,664	700,600	242,772	0

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SCHEDULE IV - EXISTING RATE AND OTHER REVENUES

Line No.	Description	Allocation Reference	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Srvc Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
RETAIL RATE REVENUE										
195	Existing Base Rate Revenue	43	14,533,792	7,363,666	972,349	4,773,882	623,247	277,259	138,852	384,536
196	Surcharge Revenue	44	601,229	405,692	37,169	127,441	26,137	0	4,791	0
197	Bulk Power Cost Adjustment Revenue	45	14,383,398	7,240,309	743,751	5,187,413	735,364	395,520	81,042	0
198	TOTAL RETAIL RATE REVENUE		29,518,419	15,009,667	1,753,269	10,088,736	1,384,748	672,779	224,685	384,536
OTHER REVENUE										
199	Other Revenue	9	307,500	162,261	16,119	104,702	14,843	6,718	2,857	0
200	Other Operating Revenue	9	303,750	160,282	15,922	103,425	14,662	6,637	2,822	0
201	TOTAL OTHER REVENUE		611,250	322,542	32,041	208,128	29,504	13,355	5,680	0
202	TOTAL REVENUE		\$ 30,129,669	\$ 15,332,209	\$ 1,785,310	\$ 10,296,863	\$ 1,414,252	\$ 686,134	\$ 230,365	\$ 384,536
<i>CLASSIFICATION:</i>										
203	DEMAND RELATED		307,500	162,261	16,119	104,702	14,843	6,718	2,857	0
204	ENERGY RELATED		0	0	0	0	0	0	0	0
205	CUSTOMER RELATED		0	0	0	0	0	0	0	0
206	REVENUE RELATED		29,518,419	15,009,667	1,753,269	10,088,736	1,384,748	672,779	224,685	384,536
207	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
208	TOTAL		\$ 29,825,919	15,171,927	1,769,387	10,193,438	1,399,591	679,497	227,543	384,536

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Allocated Cost of Service Study

SCHEDULE V - NET REVENUE REQUIREMENTS SUMMARY

Line No.	Description	Allocation Reference	Total System	Residential	General Srvc Non-Demand	General Srvc Demand - Sec.	General Srvc Demand - Prim.	General Srvc Demand - Large Power	General Service Low Load Factor	Lighting
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
NET REVENUE REQ. FROM RETAIL RATES										
209	Gross Revenue Requirement	188	31,119,693	16,667,923	1,710,652	10,338,082	1,459,664	700,600	242,772	0
210	LESS: Other Revenues	202	(611,250)	(322,542)	(32,041)	(208,128)	(29,504)	(13,355)	(5,680)	0
211	TOTAL		\$ 30,508,443	\$ 16,345,381	\$ 1,678,611	\$ 10,129,954	\$ 1,430,160	\$ 687,245	\$ 237,093	\$ -
<i>CLASSIFICATION:</i>										
212	DEMAND RELATED		18,930,547	9,985,480	1,004,947	6,442,634	913,303	409,655	174,528	0
213	ENERGY RELATED		10,090,562	5,079,405	521,763	3,639,205	515,882	277,468	56,839	0
214	CUSTOMER RELATED		1,487,334	1,280,496	151,901	48,116	975	122	5,725	0
215	REVENUE RELATED		0	0	0	0	0	0	0	0
216	DIRECT ASSIGNMENT		0	0	0	0	0	0	0	0
217	TOTAL		\$ 30,508,443	16,345,381	1,678,611	10,129,954	1,430,160	687,245	237,093	0
REV. SURPLUS / (DEFICIENCY) SUMMARY										
218	Existing Retail Rate Revenue	198	29,518,419	15,009,667	1,753,269	10,088,736	1,384,748	672,779	224,685	384,536
219	LESS: Net Rev. Req. from Retail Rates	211	(30,508,443)	(16,345,381)	(1,678,611)	(10,129,954)	(1,430,160)	(687,245)	(237,093)	0
220	TOTAL		(\$990,024)	(\$1,335,714)	\$74,658	(\$41,219)	(\$45,411)	(\$14,466)	(\$12,407)	\$384,536
UNADJUSTED INCREASE / (DECREASE) AS A PERCENT OF EXISTING RATE REVENUE										
221			<u>3.35%</u>	<u>8.90%</u>	<u>-4.26%</u>	<u>0.41%</u>	<u>3.28%</u>	<u>2.15%</u>	<u>5.52%</u>	<u>0.00%</u>
222	TRANSITION ADJUSTMENT		<u>\$0</u>	<u>\$705,735</u>	<u>(\$109,723)</u>	<u>(\$211,000)</u>	<u>\$10,793</u>	<u>(\$2,353)</u>	<u>\$4,543</u>	<u>(\$397,995)</u>
223	TARGET RATE INCREASE		<u>\$990,024</u>	<u>\$629,979</u>	<u>\$35,065</u>	<u>\$252,218</u>	<u>\$34,619</u>	<u>\$16,819</u>	<u>\$7,864</u>	<u>\$13,459</u>
224	PROPOSED RATE REVENUE		<u>\$30,508,443</u>	<u>\$15,639,646</u>	<u>\$1,788,334</u>	<u>\$10,340,954</u>	<u>\$1,419,367</u>	<u>\$689,598</u>	<u>\$232,549</u>	<u>\$397,995</u>
ADJUSTED INCREASE / (DECREASE) AS A PERCENT OF EXISTING RATE REVENUE										
225			<u>3.35%</u>	<u>4.20%</u>	<u>2.00%</u>	<u>2.50%</u>	<u>2.50%</u>	<u>2.50%</u>	<u>3.50%</u>	<u>3.50%</u>
226	SALES - MWH		<u>270,313</u>	<u>136,070</u>	<u>13,978</u>	<u>97,489</u>	<u>13,820</u>	<u>7,433</u>	<u>1,523</u>	<u>0</u>
227	EXISTING RATE REVENUE - \$/KWH		<u>\$0.10920</u>	<u>\$0.11031</u>	<u>\$0.12543</u>	<u>\$0.10349</u>	<u>\$0.10020</u>	<u>\$0.09051</u>	<u>\$0.14753</u>	<u>\$0.00000</u>
228	EXISTING RATE REVENUE AFTER INCREASE - \$/KWH		<u>\$0.11286</u>	<u>\$0.11494</u>	<u>\$0.12794</u>	<u>\$0.10607</u>	<u>\$0.10270</u>	<u>\$0.09278</u>	<u>\$0.15269</u>	<u>\$0.00000</u>

General Rate Design Criteria

Rate design is the culmination of a rate study whereby the rates and charges for each customer classification are established in such a manner that the total revenue requirement of the system will be recovered in an equitable manner consistent with the results of the allocated cost of service study and any applicable orders and/or requirements of local, state, and federal regulatory authorities. To the extent possible, rate design should consider and reflect overall revenue stability, historical rate form, conservation considerations, competitiveness with neighboring utility systems, and the policies of those charged with the management and operation of the City.

The proposed rate levels and rate structures developed and submitted to the City for consideration and adoption should continue to meet the following electric utility rate criteria for service provided by municipally owned utilities:

- Electric rates should be based on a rate policy which calls for the lowest possible prices consistent with customer requirements, quality service efficiently rendered, and a payment to the City.
- Electric rates should be simple and understandable.
- Electric rates should be equitable among classes of customers and individuals within classes, taking into consideration the cost of service.
- Electric rates should be designed to encourage the most efficient use of the utility plant and discourage unnecessary or wasteful use of service.
- Electric rates should comply with applicable orders and requirements of local, state and federal regulatory authorities that have jurisdiction.

Proposed Rates

The existing rates and the proposed rates necessary to recover the revenue requirements are summarized on Table No. 6-1. Table No. 6-2 shows calculation of the projected revenues at the proposed rates.

Power Cost Adjustment

It is recommended that a separate rate component continue to be implemented that recovers the cost of purchased power. It is proposed that this factor continue to be calculated every month.

Summary

The following is a comparison of the projected Test Year revenues produced by applying the projected billing determinants to the existing rates and the proposed rates for each customer classification:

Existing Rate Revenue Compared to Proposed Rate Revenue

Customer Class	Test Year 2018		
	Existing	Proposed	Increase
	Rate Revenue (\$000)	Rate Revenue (\$000)	
Residential	\$15,010	\$15,661	4.3%
General Service Non-Demand	1,753	1,796	2.4%
General Service Demand - Secondary	10,089	10,346	2.6%
General Service Demand - Primary	1,385	1,421	2.6%
General Service Demand - Large Power	673	690	2.5%
General Service Demand - Low Load Factor	225	233	3.6%
Lighting	385	398	3.5%
Total System	\$29,518	\$30,544	3.5%

The above rate increases are related to increased base rate costs. However, when the new power supply costs begin in January 2018, it is projected that annual power costs will decrease by approximately \$4.3 million, or a net savings of approximately \$3.4 million or 11.4%. The following table shows the projected net savings by customer class.

Projected Net Savings by Customer Class

Customer Class	Test Year 2018		
	Existing	Net	Net
	Rate Revenue (\$000)	Savings (\$000)	Savings (%)
Residential	\$15,010	\$1,556	10.4%
General Service Non-Demand	1,753	189	10.8%
General Service Demand - Secondary	10,089	1,314	13.0%
General Service Demand - Primary	1,385	187	13.5%
General Service Demand - Large Power	673	103	15.2%
General Service Demand - Low Load Factor	225	17	7.4%
Lighting	385	(13)	-3.5%
Total System	\$29,518	\$3,353	11.4%

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Utility Rate Summary

Ln. No.	Customer Class Description (a)	Unit (b)	Existing Rates 12/1/2017 (c)	Proposed Rates (d)
RESIDENTIAL SERVICE				
1	Customer Service Charge	\$/Month	\$ 8.00	\$ 8.70
2	Energy Charge	\$/kWh	\$ 0.04670	\$ 0.05070
3	Minimum Charge	\$/Month	\$ 8.00	\$ 8.70
GENERAL SERVICE / NON-DEMAND				
4	Customer Service Charge	\$/Month	\$ 8.00	\$ 8.70
5	Energy Charge	\$/kWh	\$ 0.06100	\$ 0.06320
6	Minimum Charge	\$/Month	\$ 8.00	\$ 8.70
GENERAL SERVICE DEMAND				
Secondary Metered:				
7	Customer Service Charge	\$/Month	\$ 20.00	\$ 21.10
8	Energy Charge	\$/kWh	\$ 0.02080	\$ 0.02190
9	Demand Charge	\$/kW	\$ 8.83	\$ 9.30
10	Minimum Charge	\$/Month	Service Charge Plus Demand Charges	Service Charge Plus Demand Charges
Primary Metered:				
11	Customer Service Charge	\$/Month	\$ 20.00	\$ 21.10
12	Energy Charge	\$/kWh	\$ 0.020500	\$ 0.02164
13	Demand Charge	\$/kW	\$ 8.653	\$ 9.15
14	Minimum Charge	\$/Month	Service Charge Plus Demand Charges	Service Charge Plus Demand Charges
Large Power :				
15	Customer Service Charge	\$/Month	\$ 20.00	\$ 21.10
16	Energy Charge	\$/kWh	\$ 0.01930	\$ 0.02047
17	Demand Charge	\$/kW	\$ 8.565	\$ 9.10
18	Minimum Charge	\$/Month	Service Charge Plus Demand Charges	Service Charge Plus Demand Charges
GENERAL SERVICE LOW LOAD FACTOR				
19	Service Charge	\$/Month	\$ 20.00	\$ 21.10
20	Energy Charge	\$/kWh	\$ 0.08380	\$ 0.08855
21	Minimum Charge	\$/Month	\$ 20.00	\$ 21.10
POWER COST ADJUSTMENT (PCA)				
22	PCA Charge	\$/kWh	\$ 0.07362	\$ 0.05321

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Projected Revenues at Proposed Rates
Fiscal Test Year 2018

Ln. No.	Customer Class Description	Rate	Billing Determinants	Base Rate Revenue	Power Cost Adjustment	Outside Surcharge	Total Revenue
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Residential Inside							
1	Service Charge	\$ 8.70	89,755	\$ 780,869	\$ -	\$ -	\$ 780,869
2	Energy Charge	\$ 0.05070	94,546,765	4,793,521	-	-	4,793,521
3	Power Cost Adjustment	\$ 0.05321	94,546,765	-	5,030,833	-	5,030,833
4	Subtotal Residential Inside			\$ 5,574,389	\$ 5,030,833	\$ -	\$ 10,605,223
Residential Outside							
5	Service Charge	\$ 8.70	36,392	\$ 316,610	\$ -	\$ 31,661	\$ 348,271
6	Energy Charge	\$ 0.05070	41,523,686	2,105,251	-	210,525	2,315,776
7	Power Cost Adjustment	\$ 0.05321	41,523,686	-	2,209,475	182,663	2,392,138
8	Subtotal Residential Outside			\$ 2,421,861	\$ 2,209,475	\$ 424,849	\$ 5,056,185
9	Total Residential		<u>136,070,450</u>	<u>\$ 7,996,251</u>	<u>\$ 7,240,309</u>	<u>\$ 424,849</u>	<u>\$ 15,661,408</u>
General Service Non-Demand Inside							
10	Service Charge	\$ 8.70	10,479	\$ 91,167	\$ -	\$ -	\$ 91,167
11	Energy Charge	\$ 0.06320	10,779,203	681,246	-	-	681,246
12	Power Cost Adjustment	\$ 0.05321	10,779,203	-	573,561	-	573,561
13	Subtotal General Service Inside			\$ 772,413	\$ 573,561	\$ -	\$ 1,345,974
General Service Non-Demand Outside							
14	Service Charge	\$ 8.70	4,485	\$ 39,020	\$ -	\$ 3,902	\$ 42,921
15	Energy Charge	\$ 0.06320	3,198,453	202,142	-	20,214	222,356
16	Power Cost Adjustment	\$ 0.05321	3,198,453	-	170,190	14,070	184,260
17	Subtotal General Service Outside			\$ 241,162	\$ 170,190	\$ 38,186	\$ 449,538
18	Total General Service Non-Demand		<u>13,977,656</u>	<u>\$ 1,013,575</u>	<u>\$ 743,751</u>	<u>\$ 38,186</u>	<u>\$ 1,795,512</u>
General Service Demand							
Secondary Metered Inside							
19	Service Charge	\$ 21.10	3,732	\$ 78,745	\$ -	\$ -	\$ 78,745
20	Demand Charge	\$ 9.30	252,626	2,349,419	-	-	2,349,419
21	Energy Charge	\$ 0.02190	84,622,810	1,853,240	-	-	1,853,240
22	Power Cost Adjustment	\$ 0.05321	84,622,810	-	4,502,780	-	4,502,780
23	Subtotal Secondary Metered Inside			\$ 4,281,404	\$ 4,502,780	\$ -	\$ 8,784,183
Secondary Metered Outside							
24	Service Charge	\$ 21.10	1,005	\$ 21,206	\$ -	\$ 2,121	\$ 23,326
25	Demand Charge	\$ 9.30	47,642	443,069	-	44,307	487,376
26	Energy Charge	\$ 0.02190	12,866,624	281,779	-	28,178	309,957
27	Power Cost Adjustment	\$ 0.05321	12,866,624	-	684,633	56,600	741,233
28	Subtotal Secondary Metered Outside			\$ 746,053	\$ 684,633	\$ 131,206	\$ 1,561,892

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Projected Revenues at Proposed Rates
Fiscal Test Year 2018

Ln. No.	Customer Class Description (a)	Rate (b)	Billing Determinants (c)	Base Rate Revenue (d)	Power Cost Adjustment (e)	Outside Surcharge (f)	Total Revenue (g)
Primary Metered Inside							
29	Service Charge	\$ 21.10	72	\$ 1,519	\$ -	\$ -	\$ 1,519
30	Demand Charge	\$ 9.15	30,292	277,171	-	-	277,171
31	Energy Charge	\$ 0.02164	10,951,565	236,992	-	-	236,992
32	Power Cost Adjustment	\$ 0.05321	10,951,565	-	582,733	-	582,733
33	<i>Subtotal Primary Metered Inside</i>			\$ 515,682	\$ 582,733	\$ -	\$ 1,098,415
Primary Metered Outside							
34	Service Charge	\$ 21.10	24	\$ 506	\$ -	\$ 51	\$ 557
35	Demand Charge	\$ 9.15	8,772	80,260	-	8,026	88,286
36	Energy Charge	\$ 0.02164	2,868,471	62,074	-	6,207	68,281
37	Power Cost Adjustment	\$ 0.05321	2,868,471	-	152,631	12,618	165,250
38	<i>Subtotal Primary Metered Outside</i>			\$ 142,840	\$ 152,631	\$ 26,902	\$ 322,374
Large Power Inside							
39	Service Charge	\$ 21.10	12	\$ 253	\$ -	\$ -	\$ 253
40	Demand Charge	\$ 9.10	15,594	141,902	-	-	141,902
41	Energy Charge	\$ 0.02047	7,433,181	152,157	-	-	152,157
42	Power Cost Adjustment	\$ 0.05321	7,433,181	-	395,520	-	395,520
43	<i>Subtotal Large Power Inside</i>			\$ 294,312	\$ 395,520	\$ -	\$ 689,832
Low Load Factor Inside							
44	Service Charge	\$ 21.10	225	\$ 4,748	\$ -	\$ -	\$ 4,748
45	Energy Charge	\$ 0.08855	1,200,694	106,321	-	-	106,321
46	Power Cost Adjustment	\$ 0.05321	1,200,694	-	63,889	-	63,889
47	<i>Subtotal Low Load Factor Inside</i>			\$ 111,069	\$ 63,889	\$ -	\$ 174,958
Low Load Factor Outside							
48	Service Charge	\$ 21.10	336	\$ 7,090	\$ -	\$ 709	\$ 7,799
49	Energy Charge	\$ 0.08855	322,362	28,545	-	2,855	31,400
50	Power Cost Adjustment	\$ 0.05321	322,362	-	17,153	1,418	18,571
51	<i>Subtotal Low Load Factor Outside</i>			\$ 35,635	\$ 17,153	\$ 4,982	\$ 57,769
52	Total General Service Demand Inside			104,208,250	\$ 5,202,467	\$ 5,544,921	\$ 10,747,388
53	Total General Service Demand Outside			16,057,457	\$ 924,528	\$ 854,417	\$ 1,942,035
Private Area Lighting							
54	Private Area Lighting Inside		0	\$ 151,460	\$ -	\$ -	\$ 151,460
55	Private Area Lighting Outside		0	246,535	-	-	246,535
56	<i>Total Private Area Lighting</i>			0	\$ 397,995	\$ -	\$ 397,995
57	TOTAL INSIDE			209,534,218	\$ 11,700,729	\$ 11,149,316	\$ 22,850,045
58	TOTAL OUTSIDE			60,779,595	\$ 3,834,086	\$ 3,234,082	\$ 7,694,293
59	TOTAL SYSTEM			270,313,813	15,534,815	\$ 14,383,398	\$ 30,544,338

Section 7 RATE COMPARISONS

General

This section provides a summary of the billing effects of the proposed rates for major rate classifications. Specifically, the tables in this section provide for two types of billing comparisons for each major rate classification at various levels of usage which include (i) monthly bills calculated under the City's proposed rates compared with bills calculated under its existing rates, and (ii) monthly bills calculated under the City's existing and proposed rates compared with those calculated under the rates of selected utilities for the billing month of December 2017.

Existing and Proposed Rates

Table Nos. 7-1 through 7-6 provide a comparison of monthly bills calculated under the proposed rates and the existing rates over a wide range of usage levels.

Comparisons with Other Utilities

Table No. 7-7 sets forth the City's typical monthly electric bills applying existing and proposed rates compared to monthly bills of other Florida electric utilities. As can be seen from these tables, the City's proposed monthly bills fair favorably as compared to other Florida utilities.

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Comparison of Existing and Proposed Residential Service Rates [1]

				Residential Service			
				Existing	Proposed		
	Customer Charge		(\$)	\$8.00	\$8.70		
	Energy Charge All kWh		(\$/kWh)	\$0.04670	\$0.05070		
	Minimum Charge		(\$)	\$8.00	\$8.70		
	Power Cost Adjustment [2]		(\$/kWh)	\$0.07362	\$0.05321		

Usage (kWh)	Existing		Proposed		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
300	44.10	14.699	39.87	13.291	(4.22)	(1.408)	-9.58%
400	56.13	14.032	50.26	12.566	(5.86)	(1.466)	-10.45%
500	68.16	13.632	60.66	12.131	(7.51)	(1.501)	-11.01%
600	80.19	13.365	71.05	11.841	(9.15)	(1.524)	-11.41%
700	92.22	13.175	81.44	11.634	(10.79)	(1.541)	-11.70%
800	104.26	13.032	91.83	11.479	(12.43)	(1.554)	-11.92%
900	116.29	12.921	102.22	11.358	(14.07)	(1.563)	-12.10%
1,000	128.32	12.832	112.61	11.261	(15.71)	(1.571)	-12.24%
1,100	140.35	12.759	123.00	11.182	(17.35)	(1.577)	-12.36%
1,200	152.38	12.699	133.39	11.116	(18.99)	(1.583)	-12.46%
1,300	164.42	12.647	143.78	11.060	(20.63)	(1.587)	-12.55%
1,400	176.45	12.603	154.17	11.012	(22.27)	(1.591)	-12.62%
1,500	188.48	12.565	164.57	10.971	(23.92)	(1.594)	-12.69%
2,000	248.64	12.432	216.52	10.826	(32.12)	(1.606)	-12.92%
2,500	308.80	12.352	268.48	10.739	(40.33)	(1.613)	-13.06%
3,000	368.96	12.299	320.43	10.681	(48.53)	(1.618)	-13.15%
4,000	489.28	12.232	424.34	10.609	(64.94)	(1.624)	-13.27%
5,000	609.60	12.192	528.25	10.565	(81.35)	(1.627)	-13.34%

[1] Amounts shown reflect single phase, inside the City service.

[2] Existing Power Cost Adjustment as of December 2017; proposed Power Cost Adjustment for Test Year 2018.

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Comparison of Existing and Proposed General Service Non-Demand Rates [1]

				General Service Non-Demand					
				Existing	Proposed				
Customer Charge			(\$)	\$8.00	\$8.70				
Energy Charge	All kWh		(\$/kWh)	\$0.06100	\$0.06320				
Minimum Charge			(\$)	\$8.00	\$8.70				
Power Cost Adjustment [2]			(\$/kWh)	\$0.07362	\$0.05321				

Usage (kWh)	Existing		Proposed		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
300	48.39	16.129	43.62	14.541	(4.76)	(1.588)	-9.84%
400	61.85	15.462	55.26	13.816	(6.58)	(1.646)	-10.65%
500	75.31	15.062	66.91	13.381	(8.41)	(1.681)	-11.16%
750	108.97	14.529	96.01	12.801	(12.96)	(1.728)	-11.89%
1,000	142.62	14.262	125.11	12.511	(17.51)	(1.751)	-12.28%
1,250	176.28	14.102	154.21	12.337	(22.06)	(1.765)	-12.52%
1,500	209.93	13.995	183.32	12.221	(26.62)	(1.774)	-12.68%
1,750	243.59	13.919	212.42	12.138	(31.17)	(1.781)	-12.80%
1,900	263.78	13.883	229.88	12.099	(33.90)	(1.784)	-12.85%
2,000	277.24	13.862	241.52	12.076	(35.72)	(1.786)	-12.88%
3,000	411.86	13.729	357.93	11.931	(53.93)	(1.798)	-13.09%
4,000	546.48	13.662	474.34	11.859	(72.14)	(1.804)	-13.20%
5,000	681.10	13.622	590.75	11.815	(90.35)	(1.807)	-13.27%
7,500	1,017.65	13.569	881.78	11.757	(135.88)	(1.812)	-13.35%
10,000	1,354.20	13.542	1,172.80	11.728	(181.40)	(1.814)	-13.40%
11,000	1,488.82	13.535	1,289.21	11.720	(199.61)	(1.815)	-13.41%
12,000	1,623.44	13.529	1,405.62	11.714	(217.82)	(1.815)	-13.42%
13,000	1,758.06	13.524	1,522.03	11.708	(236.03)	(1.816)	-13.43%
14,000	1,892.68	13.519	1,638.44	11.703	(254.24)	(1.816)	-13.43%
15,000	2,027.30	13.515	1,754.85	11.699	(272.45)	(1.816)	-13.44%
17,250	2,330.20	13.508	2,016.77	11.691	(313.42)	(1.817)	-13.45%
20,000	2,700.40	13.502	2,336.90	11.685	(363.50)	(1.818)	-13.46%

[1] Amounts shown reflect single phase, inside the City service.

[2] Existing Power Cost Adjustment as of December 2017; proposed Power Cost Adjustment for Test Year 2018.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Comparison of Existing and Proposed Rates for General Service Demand - Secondary Metered[1]

				General Service Demand Secondary Metered	
				Existing	Proposed
Customer Charge			(\$)	\$20.00	\$21.10
Demand Charge			(\$/kW)	\$8.83	\$9.30
Energy Charge	All kWh		(\$/kWh)	\$0.02080	\$0.02190
Power Cost Adjustment [2]			(\$/kWh)	\$0.07362	\$0.05321

Demand (kw)	Hours	Usage (kWh)	Existing		Proposed		Difference		
			Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
50	200	10,000	1,405.70	14.057	1,237.20	12.372	(168.50)	(1.685)	-11.99%
	300	15,000	1,877.80	12.519	1,612.75	10.752	(265.05)	(1.767)	-14.11%
	400	20,000	2,349.90	11.750	1,988.30	9.942	(361.60)	(1.808)	-15.39%
	500	25,000	2,822.00	11.288	2,363.85	9.455	(458.15)	(1.833)	-16.23%
	600	30,000	3,294.10	10.980	2,739.40	9.131	(554.70)	(1.849)	-16.84%
100	200	20,000	2,791.40	13.957	2,453.30	12.267	(338.10)	(1.691)	-12.11%
	300	30,000	3,735.60	12.452	3,204.40	10.681	(531.20)	(1.771)	-14.22%
	400	40,000	4,679.80	11.700	3,955.50	9.889	(724.30)	(1.811)	-15.48%
	500	50,000	5,624.00	11.248	4,706.60	9.413	(917.40)	(1.835)	-16.31%
	600	60,000	6,568.20	10.947	5,457.70	9.096	(1,110.50)	(1.851)	-16.91%
200	200	40,000	5,562.80	13.907	4,885.50	12.214	(677.30)	(1.693)	-12.18%
	300	60,000	7,451.20	12.419	6,387.70	10.646	(1,063.50)	(1.773)	-14.27%
	400	80,000	9,339.60	11.675	7,889.90	9.862	(1,449.70)	(1.812)	-15.52%
	500	100,000	11,228.00	11.228	9,392.10	9.392	(1,835.90)	(1.836)	-16.35%
	600	120,000	13,116.40	10.930	10,894.30	9.079	(2,222.10)	(1.852)	-16.94%

[1] Amounts shown reflect inside the City service, and exclude any applicable primary service discount or power factor correction.

[2] Existing Power Cost Adjustment as of December 2017; proposed Power Cost Adjustment for Test Year 2018.

**CITY OF BARTOW, FLORIDA
2017 Electric Rate Study**

Comparison of Existing and Proposed Rates for General Service Demand - Primary Metered [1]

		General Service Demand Primary Metered	
		Existing	Proposed
Customer Charge	(\$)	\$20.00	\$21.10
Demand Charge	(\$/kW)	\$8.653	\$9.15
Energy Charge	All kWh (\$/kWh)	\$0.02050	\$0.02164
Power Cost Adjustment [2]	(\$/kWh)	\$0.07362	\$0.05321

Demand (kVa)	Hours	Usage (kWh)	Existing		Proposed		Difference		
			Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
100	200	20,000	2,767.70	13.839	2,433.10	12.166	(334.60)	(1.673)	-12.09%
	300	30,000	3,708.90	12.363	3,181.60	10.605	(527.30)	(1.758)	-14.22%
	400	40,000	4,650.10	11.625	3,930.10	9.825	(720.00)	(1.800)	-15.48%
	500	50,000	5,591.30	11.183	4,678.60	9.357	(912.70)	(1.825)	-16.32%
	600	60,000	6,532.50	10.888	5,427.10	9.045	(1,105.40)	(1.842)	-16.92%
200	200	40,000	5,515.40	13.789	4,845.10	12.113	(670.30)	(1.676)	-12.15%
	300	60,000	7,397.80	12.330	6,342.10	10.570	(1,055.70)	(1.760)	-14.27%
	400	80,000	9,280.20	11.600	7,839.10	9.799	(1,441.10)	(1.801)	-15.53%
	500	100,000	11,162.60	11.163	9,336.10	9.336	(1,826.50)	(1.827)	-16.36%
	600	120,000	13,045.00	10.871	10,833.10	9.028	(2,211.90)	(1.843)	-16.96%
300	200	60,000	8,263.10	13.772	7,257.10	12.095	(1,006.00)	(1.677)	-12.17%
	300	90,000	11,086.70	12.319	9,502.60	10.558	(1,584.10)	(1.760)	-14.29%
	400	120,000	13,910.30	11.592	11,748.10	9.790	(2,162.20)	(1.802)	-15.54%
	500	150,000	16,733.90	11.156	13,993.60	9.329	(2,740.30)	(1.827)	-16.38%
	600	180,000	19,557.50	10.865	16,239.10	9.022	(3,318.40)	(1.844)	-16.97%

[1] Amounts shown reflect inside the City service, and exclude any applicable primary service discount or power factor correction.

[2] Existing Power Cost Adjustment as of December 2017; proposed Power Cost Adjustment for Test Year 2018.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Comparison of Existing and Proposed Rates for General Service Demand - Large Power [1]

		General Service Demand Large Power	
		Existing	Proposed
Customer Charge	(\$)	\$20.00	\$21.10
Demand Charge	(\$/kW)	\$8.565	\$9.10
Energy Charge All kWh	(\$/kWh)	\$0.01930	\$0.02047
Power Cost Adjustment [2]	(\$/kWh)	\$0.07362	\$0.05321

Demand (kVa)	Hours	Usage (kWh)	Existing		Proposed		Difference		
			Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
100	200	20,000	2,734.90	13.675	2,404.70	12.024	(330.20)	(1.651)	-12.07%
	300	30,000	3,664.10	12.214	3,141.50	10.472	(522.60)	(1.742)	-14.26%
	400	40,000	4,593.30	11.483	3,878.30	9.696	(715.00)	(1.788)	-15.57%
	500	50,000	5,522.50	11.045	4,615.10	9.230	(907.40)	(1.815)	-16.43%
	600	60,000	6,451.70	10.753	5,351.90	8.920	(1,099.80)	(1.833)	-17.05%
200	200	40,000	5,449.80	13.625	4,788.30	11.971	(661.50)	(1.654)	-12.14%
	300	60,000	7,308.20	12.180	6,261.90	10.437	(1,046.30)	(1.744)	-14.32%
	400	80,000	9,166.60	11.458	7,735.50	9.669	(1,431.10)	(1.789)	-15.61%
	500	100,000	11,025.00	11.025	9,209.10	9.209	(1,815.90)	(1.816)	-16.47%
	600	120,000	12,883.40	10.736	10,682.70	8.902	(2,200.70)	(1.834)	-17.08%
500	200	100,000	13,594.50	13.595	11,939.10	11.939	(1,655.40)	(1.655)	-12.18%
	300	150,000	18,240.50	12.160	15,623.10	10.415	(2,617.40)	(1.745)	-14.35%
	400	200,000	22,886.50	11.443	19,307.10	9.654	(3,579.40)	(1.790)	-15.64%
	500	250,000	27,532.50	11.013	22,991.10	9.196	(4,541.40)	(1.817)	-16.49%
	600	300,000	32,178.50	10.726	26,675.10	8.892	(5,503.40)	(1.834)	-17.10%

[1] Amounts shown reflect inside the City service, and exclude any applicable primary service discount or power factor correction.

[2] Existing Power Cost Adjustment as of December 2017; proposed Power Cost Adjustment for Test Year 2018.

**CITY OF BARTOW, FLORIDA
2017 Electric Rate Study**

Comparison of Existing and Proposed Rates for General Service Low Load Factor[1]

				General Service Low Load Factor			
				Existing	Proposed		
Customer Charge			(\$)	\$20.00	\$21.10		
Energy Charge	All kWh		(\$/kWh)	\$0.0838	\$0.0886		
Minimum Charge			(\$)	\$20.00	\$21.10		
Power Cost Adjustment [2]			(\$/kWh)	\$0.07362	\$0.05321		

Usage (kWh)	Existing		Proposed		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
1,000	177.42	17.742	162.86	16.286	(14.56)	(1.456)	-8.21%
1,250	216.78	17.342	198.30	15.864	(18.48)	(1.478)	-8.52%
1,500	256.13	17.075	233.74	15.583	(22.39)	(1.493)	-8.74%
1,750	295.49	16.885	269.18	15.382	(26.31)	(1.503)	-8.90%
1,900	319.10	16.795	290.44	15.287	(28.65)	(1.508)	-8.98%
2,000	334.84	16.742	304.62	15.231	(30.22)	(1.511)	-9.03%
3,000	492.26	16.409	446.38	14.879	(45.88)	(1.529)	-9.32%
4,000	649.68	16.242	588.14	14.704	(61.54)	(1.539)	-9.47%
5,000	807.10	16.142	729.90	14.598	(77.20)	(1.544)	-9.57%
7,500	1,200.65	16.009	1,084.30	14.457	(116.35)	(1.551)	-9.69%
10,000	1,594.20	15.942	1,438.70	14.387	(155.50)	(1.555)	-9.75%
11,000	1,751.62	15.924	1,580.46	14.368	(171.16)	(1.556)	-9.77%
12,000	1,909.04	15.909	1,722.22	14.352	(186.82)	(1.557)	-9.79%
13,000	2,066.46	15.896	1,863.98	14.338	(202.48)	(1.558)	-9.80%
14,000	2,223.88	15.885	2,005.74	14.327	(218.14)	(1.558)	-9.81%
15,000	2,381.30	15.875	2,147.50	14.317	(233.80)	(1.559)	-9.82%
17,250	2,735.50	15.858	2,466.46	14.298	(269.04)	(1.560)	-9.83%
20,000	3,168.40	15.842	2,856.30	14.282	(312.10)	(1.561)	-9.85%

[1] Amounts shown reflect single phase, inside the City service.

[2] Existing Power Cost Adjustment as of December 2017; proposed Power Cost Adjustment for Test Year 2018.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Inter-Utility Comparison of Typical Monthly Electric Bills ^[1]

Ln. No.	Utility	Fuel Adj. \$/1000 kWh	Residential Class							
			250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh	2,000 kWh	2,500 kWh	3,000 kWh
1	City of Bartow - Existing Rates	73.62	38.08	68.16	98.24	128.32	188.48	248.64	308.80	368.96
2	City of Bartow - Proposed Rates	53.21 [2]	34.68	60.66	86.63	112.61	164.57	216.52	268.48	320.43
<u>Other Florida Municipalities:</u>										
3	City of Alachua	11.00	35.24	61.34	87.44	113.54	170.84	228.14	285.44	342.74
4	City of Bushnell	32.00	38.06	68.73	99.39	130.05	191.38	252.70	314.03	375.35
5	Fort Pierce Utilities Authority	2.00	33.57	61.12	88.68	118.84	179.16	239.48	299.80	360.12
6	City of Gainesville	70.00	42.75	71.25	99.75	131.55	199.55	267.55	335.55	403.55
7	Jacksonville Electric Authority	32.50	31.25	57.00	82.75	108.50	160.00	211.50	263.00	317.00
8	Kissimmee Utilities Authority	(36.15)	31.91	53.65	75.38	97.12	146.92	196.72	246.52	296.32
9	City of Lakeland	38.75	32.46	55.42	78.39	101.35	150.08	201.61	253.15	304.68
10	City of Leesburg	17.50	39.58	66.96	94.34	121.72	187.38	253.04	318.71	384.37
11	City of New Smyrna Beach	22.68	30.43	55.22	80.00	104.78	154.35	203.91	253.48	303.04
12	City of Newberry	7.50	34.38	61.25	88.13	115.00	170.58	224.33	278.08	331.83
13	Orlando Utilities Commission	33.82	32.50	57.00	81.50	106.00	165.00	224.00	283.00	342.00
14	City of Ocala	24.00	36.41	63.49	90.56	117.64	171.80	225.95	280.11	334.26
15	City of Tallahassee	35.00	33.90	60.20	86.51	112.81	165.42	218.03	270.64	323.25
16	City of Williston	19.60	33.36	58.72	84.08	109.44	160.16	210.88	261.60	312.32
<u>Florida Cooperatives</u>										
17	Sumter Electric Cooperative	(15.70)	43.73	67.45	91.18	114.90	172.35	229.80	287.25	344.70
18	Central Florida Cooperative ^[3]	(5.50)	52.58	75.70	98.83	121.95	168.20	214.45	260.70	306.95
19	Clay Electric Cooperative	17.40	42.48	64.95	87.43	109.90	164.25	218.60	272.95	327.30
<u>Investor-Owned Utilities: ^[4]</u>										
20	Florida Power and Light	24.91	30.90	53.93	76.96	99.99	156.05	212.11	268.17	324.23
21	Gulf Power Company	31.63	48.17	76.85	105.52	134.19	191.54	248.88	306.23	363.57
22	Duke Energy	33.77	35.10	61.44	87.78	114.12	178.88	243.64	308.40	373.16
23	Tampa Electric Company	26.42	37.98	59.34	80.70	102.06	155.32	208.58	261.84	315.10

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include December 2017 fuel adjustments except where noted but do not include taxes or franchise fees.

[2] Test Year 2018 Power Cost Adjustment.

[3] Rates including the Power Cost Adjustments are for January 2018.

[4] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the Florida Public Service Commission (FPSC). Franchise fees are not included but range up to 6 percent for each of the IOU's listed.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

Inter-Utility Comparison of Typical Monthly Electric Bills ^[1]

Ln. No.	Utility	Fuel Adj. \$/1000 kWh	General Service Non-Demand Class							
			250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh	2,000 kWh	2,500 kWh	3,000 kWh
1	City of Bartow - Existing Rates	73.62	41.66	75.31	108.97	142.62	209.93	277.24	344.55	411.86
2	City of Bartow - Proposed Rates	53.21 [2]	37.80	66.91	96.01	125.11	183.32	241.52	299.73	357.93
<u>Other Florida Municipalities:</u>										
3	City of Alachua	11.00	39.06	66.43	93.81	121.18	175.93	230.68	285.43	340.18
4	City of Bushnell	32.00	41.37	75.33	109.30	143.26	211.19	279.12	347.05	414.98
5	Fort Pierce Utilities Authority	2.00	36.11	66.37	96.64	126.90	187.43	247.96	308.49	369.02
6	City of Gainesville	70.00	64.50	99.50	134.50	169.50	239.50	326.00	412.50	499.00
7	Jacksonville Electric Authority	32.50	33.65	58.05	82.44	106.84	155.64	204.43	253.23	302.02
8	Kissimmee	(36.15)	35.62	60.15	84.69	109.22	158.29	207.36	256.43	305.50
9	City of Lakeland	38.75	34.68	57.37	80.05	102.74	148.11	193.48	238.85	284.22
10	City of Leesburg	17.50	41.85	71.40	100.94	130.49	189.59	248.68	307.78	366.87
11	City of Newberry	7.50	36.93	66.35	95.78	125.20	184.05	242.90	301.75	360.60
12	City of New Smyrna Beach	22.68	30.35	54.64	78.94	103.23	151.82	200.41	249.00	297.59
13	City of Ocala	24.00	39.25	66.29	93.32	120.35	174.42	228.48	282.55	336.61
14	Orlando Utilities Commission	36.35	36.08	61.91	87.73	113.56	165.22	216.87	268.53	320.18
15	City of Tallahassee	35.00	32.96	55.60	78.24	100.88	146.16	191.44	236.72	282.00
16	City of Williston	19.60	41.24	67.49	93.73	119.97	172.46	224.95	277.43	329.92
<u>Florida Cooperatives</u>										
17	Sumter Electric Cooperative	(15.70)	46.88	71.75	96.63	121.50	171.25	221.00	270.75	320.50
18	Clay Electric Cooperative	17.40	47.68	72.35	97.03	121.70	171.05	220.40	269.75	319.10
<u>Investor-Owned Utilities: ^[3]</u>										
19	Florida Power and Light	28.20	33.31	56.61	79.92	103.22	149.83	196.44	243.05	289.66
20	Gulf Power Company	31.63	55.25	83.50	111.75	140.00	196.50	253.00	309.50	366.00
21	Duke Energy	36.67	38.80	66.01	93.21	120.42	174.84	229.25	283.67	338.08
22	Tampa Electric Company	29.56	42.87	65.80	88.73	111.66	157.52	203.38	249.24	295.10

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include December 2017 fuel adjustments except where noted but do not include taxes or franchise fees.

[2] Test Year 2018 Power Cost Adjustment.

[3] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the Florida Public Service Commission (FPSC). Franchise fees are not included but range up to 6 percent for each of the IOU's listed.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

[Inter-Utility Comparison of Typical Monthly Electric Bills \[1\]](#)

		General Service Demand Class								
		50 kW			75 kW			150 kW		
Ln. No.	Utility	10,000 kWh	20,000 kWh	30,000 kWh	15,000 kWh	30,000 kWh	45,000 kWh	30,000 kWh	40,000 kWh	60,000 kWh
1	City of Bartow - Existing Rates	1,406	2,350	3,294	2,099	3,515	4,931	4,177	5,121	7,010
2	City of Bartow - Proposed Rates [2]	1,237	1,988	2,739	1,845	2,972	4,099	3,669	4,421	5,923
		<u>Other Florida Municipalities:</u>								
3	Fort Pierce Utilities Authority	1,272	2,167	3,062	1,889	3,231	4,573	3,739	4,633	6,422
4	City of Gainesville	1,637	2,749	3,861	2,406	4,074	5,742	4,711	5,823	8,047
5	Jacksonville Electric Authority	1,172	1,838	2,505	1,715	2,715	3,715	3,345	4,012	5,345
6	Kissimmee	1,153	1,806	2,459	1,702	2,681	3,661	3,348	4,001	5,307
7	City of Lakeland	1,040	1,646	2,251	1,543	2,451	3,359	3,051	3,656	4,867
8	City of Leesburg	1,353	1,980	2,607	2,016	2,956	3,897	4,006	4,633	5,887
9	City of New Smyrna Beach	1,248	2,125	3,001	1,855	3,170	4,485	3,676	4,553	6,307
10	City of Ocala	1,157	1,957	2,757	1,723	2,924	4,124	3,490	4,280	5,860
11	Orlando Utilities Commission	1,078	1,726	2,375	1,602	2,575	3,547	3,175	3,823	5,119
12	City of Tallahassee	1,302	1,877	2,355	1,918	2,779	3,496	3,765	4,339	5,488
		<u>Florida Cooperatives</u>								
13	Sumter Electric Cooperative	1,075	1,807	2,539	1,584	2,682	3,780	3,114	3,846	5,310
		<u>Investor-Owned Utilities [3] :</u>								
14	Florida Power and Light	1,093	1,630	2,168	1,627	2,433	3,240	3,228	3,766	4,841
15	Gulf Power Company	1,178	1,940	2,701	1,744	2,886	4,027	3,439	4,200	5,723
16	Duke Energy	1,140	1,772	2,405	1,704	2,653	3,602	3,396	4,028	5,294
17	Tampa Electric Company	1,107	1,617	2,127	1,644	2,409	3,173	3,256	3,765	4,784

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include December 2017 fuel adjustments except where noted but do not include taxes or franchise fees.

[2] Test Year 2018 Power Cost Adjustment.

[3] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the Florida Public Service Commission (FPSC). Franchise fees are not included but range up to 6 percent for each of the IOU's listed.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

[Inter-Utility Comparison of Typical Monthly Electric Bills \[1\]](#)

		General Service Demand Class								
		150 kW			300 kW			400 kW		
Ln. No.	Utility	40,000 kWh	60,000 kWh	120,000 kWh	60,000 kWh	120,000 kWh	180,000 kWh	80,000 kWh	160,000 kWh	240,000 kWh
1	City of Bartow - Existing Rates	5,121	7,010	12,675	8,334	13,999	19,665	11,106	18,659	26,213
2	City of Bartow - Proposed Rates [2]	4,421	5,923	10,429	7,318	11,824	16,331	9,750	15,759	21,768
	<u>Other Florida Municipalities:</u>									
3	Fort Pierce Utilities Authority	4,633	6,422	11,790	7,438	12,806	18,173	9,904	17,061	24,218
4	City of Gainesville	5,823	8,047	14,719	9,322	15,994	22,666	12,396	21,292	30,188
5	Jacksonville Electric Authority	4,012	5,345	9,345	6,605	10,605	14,606	8,779	14,112	19,446
6	Kissimmee	4,001	5,307	9,225	6,641	10,559	14,477	8,836	14,060	19,284
7	City of Lakeland	3,656	4,867	8,499	6,067	9,699	13,331	8,078	12,920	17,763
8	City of Leesburg	4,633	5,887	9,649	7,985	11,747	15,509	10,638	15,654	20,670
9	City of New Smyrna Beach	4,553	6,307	11,568	6,944	11,905	16,866	9,248	15,862	22,477
10	City of Ocala	4,645	7,805	10,966	6,955	11,696	16,436	9,085	15,486	21,887
11	Orlando Utilities Commission	3,823	5,119	9,008	6,319	10,208	14,098	8,416	13,601	18,787
12	City of Tallahassee	4,339	5,488	8,067	7,459	10,905	13,772	9,921	14,516	18,339
	<u>Florida Cooperatives</u>									
13	Sumter Electric Cooperative	3,846	5,310	9,702	6,172	10,564	14,956	8,211	14,067	19,923
	<u>Investor-Owned Utilities [3] :</u>									
14	Florida Power and Light	3,766	4,841	8,067	6,431	9,657	12,884	8,567	12,868	17,170
15	Gulf Power Company	4,200	5,723	10,291	6,830	11,398	15,966	9,091	15,181	21,271
16	Duke Energy	4,028	5,294	9,089	6,780	10,576	14,371	9,036	14,097	19,158
17	Tampa Electric Company	3,765	4,784	7,842	6,478	9,535	12,593	8,626	12,703	16,780

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include December 2017 fuel adjustments except where noted but do not include taxes or franchise fees.

[2] Test Year 2018 Power Cost Adjustment.

[3] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the Florida Public Service Commission (FPSC). Franchise fees are not included but range up to 6 percent for each of the IOU's listed.

CITY OF BARTOW, FLORIDA
2017 Electric Rate Study

[Inter-Utility Comparison of Typical Monthly Electric Bills \[1\]](#)

		General Service Large Demand Class								
		500 kW			1,000 kW			1,500 kW		
Ln. No.	Utility	100,000 kWh	200,000 kWh	300,000 kWh	200,000 kWh	400,000 kWh	600,000 kWh	300,000 kWh	600,000 kWh	900,000 kWh
1	City of Bartow - Existing Rates	13,877	23,319	32,761	27,257	45,841	64,425	40,876	68,752	96,628
2	City of Bartow - Proposed Rates [2]	12,182	19,693	27,204	23,857	38,593	53,329	35,775	57,879	79,983
		<u>Other Florida Municipalities:</u>								
3	Fort Pierce Utilities Authority	12,370	21,316	30,262	29,475	45,781	62,087	44,193	68,652	93,111
4	City of Gainesville	15,470	26,590	37,710	30,840	53,080	75,320	45,200	77,300	109,400
5	Jacksonville Electric Authority	10,952	17,619	24,286	21,819	35,153	48,487	36,290	54,005	71,720
6	Kissimmee	11,831	17,525	23,219	23,605	34,993	46,381	35,379	52,461	69,543
7	City of Lakeland	10,684	16,319	21,953	20,989	32,257	43,526	31,293	48,196	65,099
8	City of Leesburg	13,917	19,772	25,628	27,787	39,498	51,209	41,658	59,224	76,790
9	City of New Smyrna Beach	11,552	19,820	28,088	23,070	39,606	56,142	34,588	59,392	84,196
10	City of Ocala	11,950	19,751	27,552	23,876	39,478	55,080	35,802	59,205	82,608
11	Orlando Utilities Commission	10,512	16,994	23,476	20,994	33,958	46,922	31,476	50,922	70,368
12	City of Tallahassee	12,326	18,011	22,762	24,581	35,951	45,452	36,836	53,891	68,143
		<u>Florida Cooperatives</u>								
13	Sumter Electric Cooperative	10,250	17,570	24,890	20,445	35,085	49,725	30,640	52,600	74,560
		<u>Investor-Owned Utilities [3] :</u>								
14	Florida Power and Light	11,292	16,229	21,166	22,509	32,383	42,257	33,726	48,537	63,348
15	Gulf Power Company	13,800	19,552	25,304	27,337	38,841	50,345	40,874	58,130	75,386
16	Duke Energy	11,293	17,619	23,945	22,574	35,226	47,878	33,855	52,833	71,811
17	Tampa Electric Company	10,774	15,870	20,966	21,515	31,707	41,899	32,256	47,544	62,832

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include December 2017 fuel adjustments except where noted but do not include taxes or franchise fees.

[2] Test Year 2018 Power Cost Adjustment.

[3] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the Florida Public Service Commission (FPSC). Franchise fees are not included but range up to 6 percent for each of the IOU's listed.

Residential Bill Comparison for 1,000 kWhs (December 2017)
City of Bartow Proposed 2018 Rates

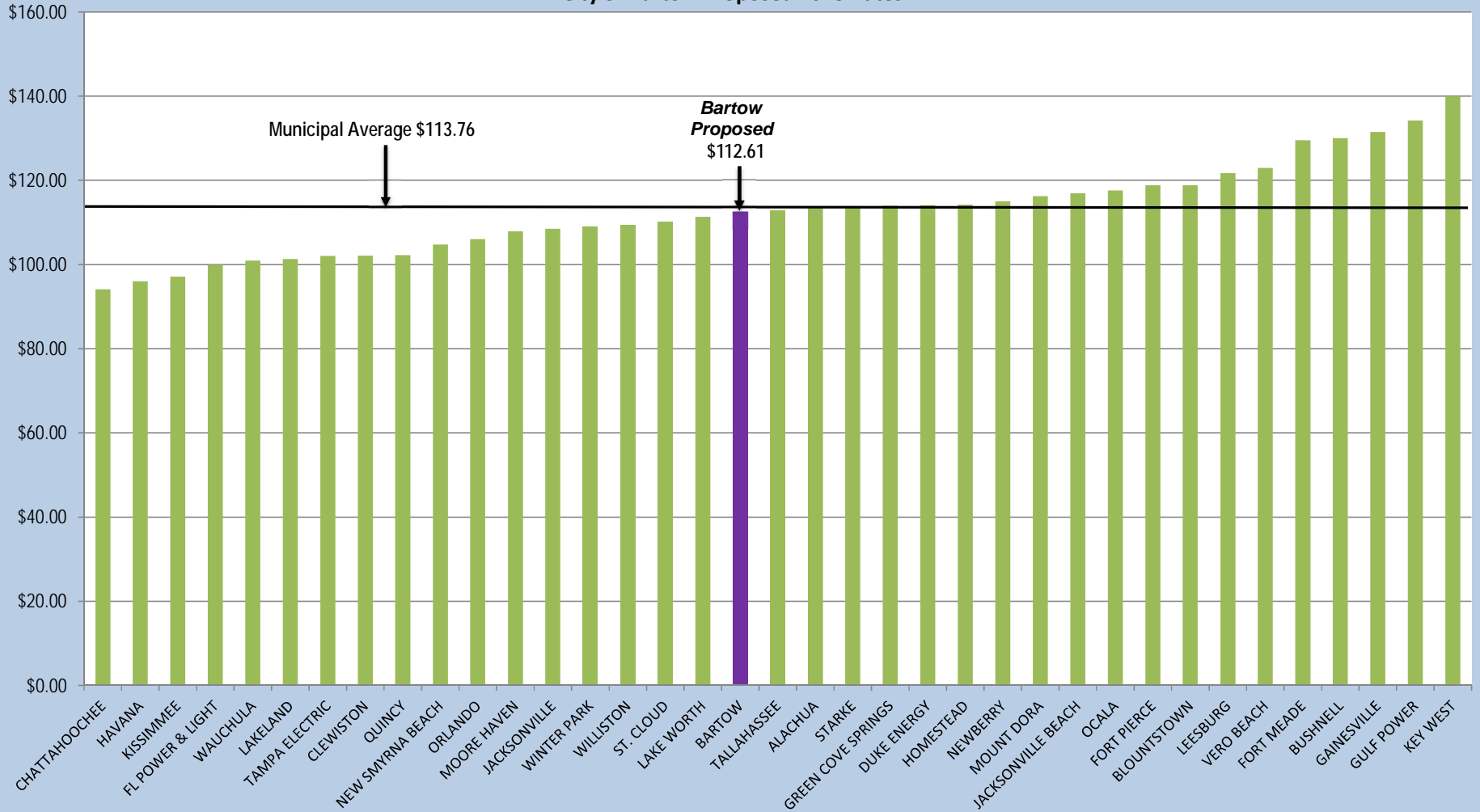


Figure No. 7-1