

May 1, 2023

Office of Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850 Attn: Adam Teitzman

Re: 2023 Ten Year Site Plan – Staff's Data Request #1

Dear Mr. Teitzman,

Pursuant to Section 186.801, Florida Statutes and Rules 25-22.070-072 of Florida Administrative Code, Lakeland Electric submits its responses to Staff's Data Request #1, in relation to Lakeland Electric's 2023 Ten Year Site Plan via the Commissions electronic platform.

If you have questions please contact me at 863-834-6595.

Sincerely,

/s/Cynthia Clemmons

Cynthia Clemmons City of Lakeland Manager of Legislative and Regulatory Relations Lakeland Electric 863-834-6595 Work <u>Cindy.Clemmons@LakelandElectric.com</u> 501 E Lemon St. Lakeland, Florida 33801

Enclosure

Instructions: Accompanying this data request is a Microsoft Excel (Excel) document titled "Data Request #1.Excel Tables," (Excel Tables File). For each question below that references the Excel Tables File, please complete the table and provide, in Excel Format, all data requested for those sheet(s)/tab(s) identified in parenthesis.

General Items

1. Please provide an electronic copy of the Company's Ten-Year Site Plan (TYSP) for the current planning period (2023-2032) in PDF format.

Submitted on April 1, 2023.

2. Please provide an electronic copy of all schedules and tables in the Company's current planning period TYSP in Excel format.

Submitted on April 1, 2023.

3. Please refer to the Excel Tables File (Financial Assumptions, Financial Escalation). Complete the tables by providing information on the financial assumptions and financial escalation assumptions used in developing the Company's TYSP. If any of the requested data is already included in the Company's current planning period TYSP, state so on the appropriate form.

Attached in Excel File. Also, the data are presented in Chapter 5 "Forecasting Methods and Procedures" of the recently submitted TYSP 2023 to FL PSC.

Load & Demand Forecasting

Historic Load & Demand

- 4. [Investor-Owned Utilities Only] Please refer to the Excel Tables File (Hourly System Load). Complete the table by providing, on a system-wide basis, the hourly system load in megawatts (MW) for the period January 1 through December 31 of the year prior to the current planning period. For leap years, please include load values for February 29. Otherwise, leave that row blank.
 - a. Please also describe how loads are calculated for those hours just prior to and following Daylight Savings Time (March 13, 2022, and November 6, 2022).

Not applicable to LE.

5. Please refer to the Excel Tables File (Historic Peak Demand). Complete the table by providing information on the monthly peak demand experienced during the three-year period prior to the current planning period, including the actual peak demand experienced, the amount of demand response activated during the peak, and the estimated total peak if demand response had not been activated. Please also provide the day, hour, and system-average temperature at the time of each monthly peak.

Excel File attached.

Forecasted Load & Demand

6. Please identify the weather station(s) used for calculation of the system-wide temperature for the Company's service territory. If more than one weather station is utilized, please describe how a system-wide average is calculated.

We use nine (9) Davis Instrument WeatherLink stations located at substations throughout the Lakeland Electric service area. On a monthly basis, the hourly data from the weather stations are loaded into an Excel workbook for validation using descriptive statistics and line graphs. If there are any errors or outliers, these are eliminated. The average of the validated temperatures is stored in a data bank and used for various reports including the monthly Peak Report.

- 7. Please explain, to the extent not addressed in the Company's current planning period TYSP, how the reported forecasts of the number of customers, demand, and total retail energy sales were developed. In your response, please include the following information:
 - Methodology.
 - Assumptions.
 - Data sources.
 - Third-party consultant(s) involved.
 - Anticipated forecast accuracy.
 - Any difference/improvement(s) made compared with those forecasts used in the Company's most recent prior TYSP.

Methodology and assumptions

• Lakeland explains the methodology and assumptions used to develop the load and demand forecast in Section 3.0 "Forecast of Electrical Power Demand and Energy Consumption" of the 2023 TYSP.

Data Sources

- Lakeland's own weather stations
- Customer Billing System Data
- SCADA Hourly Load Data/Solar
- Census Data

Third Party Consultants

- Moody's Analytics for demographic/economic projections
- Woods and Poole for demographic/economic projections
- Bureau of Business and Economic Research for demographic projections
- Itron's Energy Forecasting Group for appliance indices
- Itron's expertise for forecast review

8. Please identify all closed and open Florida Public Service Commission (FPSC) dockets and all non-docketed FPSC matters which were/are based on the same load forecast used in the Company's current planning period TYSP.

There are none currently.

- 9. Please explain if your Company evaluates the accuracy of its forecasts of customer growth and annual retail energy sales presented in its past TYSPs by comparing the actual data for a given year to the data forecasted one, two, three, four, five, or six years prior.
 - a. If your response is affirmative, please explain the method used in your evaluation, and provide the corresponding results, including work papers, in Excel format for the analysis of each forecast presented in the TYSPs filed with the Commission during the 20-year period prior to the current planning period. If your Company limits its analysis to a period shorter than 20 years prior to the current planning period, please provide what analysis you have and a narrative explaining why your Company limits its analysis period.

Lakeland generates a new load forecast every year. As part of the forecasting process, the forecast accuracy of the previous forecast is evaluated. Sales and peak values are weather normalized and forecast variance is assessed relative to actual values as well as relative to weather normalized values in order to determine underlying trends.

Previously Lakeland maintained annual forecast error fans aggregated by fiscal year (Fiscal Year = Oct 1^{st} through Sept 30^{th}). Error fans were created for population (vs customers), sales, summer peak and winter peak and are available for the late 1990s fiscal year through to 2009 fiscal year. This file was already submitted to PSC in 2020 as part of that year's data request.

Most recently, Lakeland has updated its forecast error fans to match the Calendar Year Ten Year Site Plan data back to 2008. Spreadsheet titled LAK2023TYSP_SUP_ErrorFans.xlsx contains both actual and weather normalized values where applicable. Data goes back to 2008 and has been updated with 2022 actuals.

- b. If your response is negative, please explain.
- 10. Please explain if your Company evaluates the accuracy of its forecasts of Summer/Winter Peak Energy Demand presented in its past TYSPs by comparing the actual data for a given year to the data forecasted one, two, three, four, five, or six years prior.
 - a. If your response is affirmative, please explain the method used in your evaluation, and provide the corresponding results, including work papers, in Excel format for the analysis of each forecast presented in the TYSPs filed with the Commission during the 20-year period prior to the current planning period. If your Company limits its analysis to a period shorter than 20 years prior to the current planning period, please provide what analysis you have and a narrative explaining why your Company limits its analysis period.

Please see response to question 9 a.

- b. If your response is negative, please explain why.
- 11. Please explain any historic and forecasted trends in each of the following:
 - a. Growth of customers, by customer type (residential, commercial, industrial) as well as Total Customers, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.

In recent years, the Lakeland Winter Haven MSA (Polk County) has seen a boom in ecommerce warehouse development thanks to its central location. Notably, Amazon moved its airhub from Tampa to Lakeland in the summer of 2020 and is continuing to expand. Florida in general benefited from the work from home trend accelerated by COVID and Lakeland was no exception. As a result Lakeland Electric experienced 2.2% total customer growth in 2022.

Industrial customer grew 4.8% in 2022. Commercial rate class grew in 2022 at 1.1%.

	Residential	Commercial	Industrial	Total
2013-2022 AAGR	1.4%	1.2%	-1.0%	1.3%
2023-2032 AAGR	1.2%	1.2%	1.2%	1.2%

Our customer forecast uses Moody's analytics and also cross references locally produced forecasts from the Bureau of Economic and Business Research associated with the University of Florida.

b. Average KWh consumption per customer, by customer type (residential, commercial, industrial), and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.

Lakeland uses Itron Energy Forecasting Group data on Appliance Indices and Building characteristics which is derived from U.S. Energy Information Administration (EIA) research published in its 2021 Annual Energy Outlook (AEO). Lakeland uses the Southeast Census division data and contracts with Itron to adjust the indices based on Lakeland's mix of residential and commercial building types. The EIA projections incorporate expected changes in appliance energy efficiency due to codes and standards as well as general advances in technology.

Residential Average use has been declining in the Lakeland Service area and is expected to continue to decline. The main factors in the decline are increased appliance energy efficiency, improved building shell insulation, changes in residential building type mix.

Commercial Average use has also been declining it is expected to continue to do so according to EIA projections used in our models. Main contributors to the historical decline are lighting upgrades, appliance energy efficiency as well as the use of energy management systems.

Lakeland is forecasting a flattening of Industrial average use mainly because a small number of customers are projected to get added to that rate class and those that do get added are expected to be mostly in the small Industrial category (billing demand between 500 KW and 1,000 KW).

	Residential	Commercial	Industrial
2013-2022 AAGR	2.1%	1.6%	1.9%
2023-2032 AAGR	0.8%	0.7%	0.4%

c. Total Sales (GWh) to Ultimate Customers, identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.

As discussed in previous section, average use is declining or flat for all three main rate classes. At this time, Net Energy for Load is expected to grow in the 10 year forecast horizon by 0.6 % a year. This is because positive customer growth rates are expected to compensate for average use declines. Lakeland assumes impact of conservation programs are already in the energy sales history and does not make any additional assumptions regarding their impact.

d. By customer type (residential, commercial, industrial) provide a detailed discussion of how the Company's demand-side management program(s) and conservation/energy-efficiency program(s) impact the observed trends in gigawatt hour sales (Schedule 3.3).

LE's energy conservation demand savings is very low i.e., less than 2 MW. Hence the effect is very minimal at this moment.

- 12. Please explain any historic and forecasted trends in each of the following components of Summer/Winter Peak Demand:
 - a. Demand Reduction due to the Company's demand-side management program(s) and Self Service, by customer type (residential, commercial, industrial) as well as Total Customers, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline in the trends.

<u>Self Service – Cogeneration non solar</u>

Since Lakeland Electric rates are among the lowest in the state, it is not expected that it would be cost effective for a customer to self serve. No non solar cogeneration is assumed in the models.

Self Service – Solar photovoltaic

Lakeland tracks solar photovoltaic installations and generates a net metered forecast. Due to our low electric rates and rate structure, growth of self service solar has been minimal and is expected to continue to be minimal and have limited impact on demand.

b. Demand Reduction due to Demand Response, by customer type (residential, commercial, industrial), and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.

Lakeland does not currently have a demand response program in place and no assumptions are made in the forecast regarding demand response.

c. Total Demand, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline in the trends.

Lakeland used to be winter peaking in the past. Lakeland's all-time annual peak was 804 MW in winter 2010. In recent years, Lakeland has experienced several mild winter seasons. Nonetheless, when Lakeland experiences a cold winter, the peak typically surpasses the summer peak. It is expected that Lakeland will remain summer peaking in the 10 year forecast horizon. But there will be few years winter peak will surpass summer peaks when extreme winter conditions prevail.

Summer peaks in Lakeland are less volatile than winter peaks and have been growing at a slightly faster pace, on a weather normalized basis. Factors contributing to the total demand growth rate are same factors discussed in response to question 11 c.

d. Net Firm Demand, by the sources of peak demand appearing in Schedule 3.1 and Schedule 3.2 of the current planning period TYSP, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline in the trends.

Since no reductions are made for Load Management and Conservation, Net Firm Demand is the same as Total Demand. Please see response to question 12 C.

13. **[FEECA Utilities Only]** In the 2019 goal-setting proceeding, the Commission chose to continue the goals established by its 2014 goal-setting decision for the period 2020-2024. Beyond 2024 through the end of the forecasted period, how did the Company project what demand savings amounts are reflected on the DSM and Conservation-related portions of Schedules 3.1, 3.2, and 3.3? Please explain what assumptions are incorporated in those amounts, and why.

Not applicable.

- 14. On August 16, 2022, the Inflation Reduction Act of 2022 ("IRA") became law. Regarding the provisions of the IRA and related funding, please explain the following
 - a. Whether the conservation related provisions are reflected on the DSM and Conservationrelated portions of Schedules 3.1, 3.2, and 3.3 through the forecast (planning) period, and if so, how. If the provisions of the Act are not reflected in such forecasts, please explain why.
 - b. Whether the electrification related provisions are reflected on the demand and energy loadrelated portions of Schedules 3.1, 3.2, and 3.3 through the forecast (planning) period, and if so, how. If the provisions of the IRA are not reflected in such forecasts, please explain why.

IRA provisions are not reflected in utility's load forecast because LE has not been able to come up with any strategy/program for the DSM and Conservation plan and initiate the conservation effort within a short period of time after IRA became law in 2022.

- 15. Please explain any anomalies caused by non-weather events with regard to annual historical data points for the period 10 years prior to the current planning period that have contributed to the following, respectively:
 - a. Summer Peak Demand.
 - b. Winter Peak Demand.
 - c. Annual Retail Energy Sales.

A review of Lakeland's summer and winter peak demand for the ten years prior to the current planning period do not reveal any anomalies caused by non-weather events.

While pandemic did cause a shift in Residential and Commercial consumption, overall total demand was minimally impacted.

- 16. Please provide responses to the following questions regarding the weather factors considered in the Company's retail energy sales and peak demand forecasts:
 - a. Please identify, with corresponding explanations, all the weather-related input variables that were used in the respective Retail Energy Sales, Winter Peak Demand, and Summer Peak Demand models.
 - b. Please specify the source(s) of the weather data used in the aforementioned forecasting models.
 - c. Please explain in detail the process/procedure/method, if any, the Company utilized to convert the raw weather data into the values of the model input variables.
 - d. Please specify with corresponding explanations:
 - i. How many years' historical weather data was used in developing each retail energy sales and peak demand model.
 - ii. How many years' historical weather data was used in the process of these models' calibration and/or validation.
 - e. Please explain how the projected values of the input weather variables (that were used to forecast the future sales or demand outputs for each planning years 2023 2032) were derived/obtained for the respective retail sales and peak demand models.

Please refer to section 3 of the Lakeland Ten Year Site Plan, under Weather Variables header, for response to questions below.

- 17. **[Investor-Owned Utilities Only]** If not included in the Company's current planning period TYSP, please provide load forecast sensitivities (high band, low band) to account for the uncertainty inherent in the base case forecasts in the following TYSP schedules, as well as the methodology used to prepare each forecast:
 - a. Schedule 2.1 History and Forecast of Energy Consumption and Number of Customers by Customer Class.
 - b. Schedule 2.2 History and Forecast of Energy Consumption and Number of Customers by Customer Class.
 - c. Schedule 2.3 History and Forecast of Energy Consumption and Number of Customers by Customer Class.
 - d. Schedule 3.1 History and Forecast of Summer Peak Demand.
 - e. Schedule 3.2 History and Forecast of Winter Peak Demand.
 - f. Schedule 3.3 History and Forecast of Annual Net Energy for Load.

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g. Schedule 4 - Previous Year and 2-Year Forecast of Peak Demand and Net Energy for Load by Month.

Not applicable to LE.

- 18. Please provide responses to the following questions regarding the possible impacts of COVID-19 Pandemic (Pandemic) on the utility load forecast:
 - a. Please briefly summarize the impacts due to the Pandemic, if any, to the accuracy of the Company's respective forecast of annual retail energy sales and peak demands for 2021 and 2022.

COVID had a minimal impact on total energy sales as increased Residential sales compensated from decreased Commercial and Industrial Sales

b. Have any of your 2023 TYSP retail energy sales and peak demand forecasts incorporated the potential impacts of the Pandemic? Please explain your response.

Our models incorporated a COVID variable into the forecast with the assumption that COVID would have an impact on Residential and Commercial models that would diminish over time.

We do not currently break down this model by class. The total net metered generation that is subtracted out is as follows:

Year	Net Metered Solar Forecast
	(MWh)
2022	3,064
2023	3,519
2024	4,033
2025	4,414
2026	4,814
2027	5,208
2028	5,620
2029	6,002
2030	6,397
2031	6,796
2032	7,213

- 19. Please address the following questions regarding the impact of all customer-owned/leased renewable generation (solar and otherwise) and/or energy storage devices on the Utility's forecasts.
 - a. Please explain in detail how the Utility's load forecast accounts for the impact of customer's renewables and/or storage.

With the 2023 TYSP, we adjusted our forecast to subtract out projected customer owned solar generation from total sales.

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b. Please provide the annual impact, if any, of customer's renewables and/or storage on the Utility's retail demand and energy forecasts, by class and in total, for 2023 through 2032.

We do not currently break down this model by class. The total net metered generation that is subtracted out is as follows:

Year	Net Metered Solar Forecast
	(MWh)
2022	3,064
2023	3,519
2024	4,033
2025	4,414
2026	4,814
2027	5,208
2028	5,620
2029	6,002
2030	6,397
2031	6,796
2032	7,213

c. If the Utility maintains a forecast for the planning horizon (2023-2032) of the number of customers with renewables and/or storage, by customer class, please provide.

Our forecast currently does not separate between residential and commercial solar. Combined projections are below.

Year	Total Customer Solar
2023	940
2024	1073
2025	1179
2026	1285
2027	1391
2028	1497
2029	1603
2030	1709
2031	1815
2032	1921

Plug-in Electric Vehicles (PEVs)

20. Please discuss whether the Company included plug-in electric vehicle (PEV) loads in its demand and energy forecasts for its current planning period TYSP. If so, how were these impacts accounted for in the modeling and forecasting process?

Lakeland Electric included PEV loads in the demand and energy forecast for the current planning period TYSP. We used a load profile provided by Itron consultants (and verified with our known EV customer hourly loads) that assumed no incentives for charging. We estimated the number of electric vehicles in our service area based on DMV data for Polk County and made projections based on historical trends and expected saturation rates for Electric Vehicles. The EV forecast was added to the total sales forecast. We scaled the hourly EV load profile to estimate the projected impact at time of peak demand.

a. Has the Company also included the impact of demand response and time of use rates for the PEV loads? If so, please provide the impact of these measures. If not, please explain why not.

We have not included the impact of demand response or time of uses rates for PEV loads.

- 21. Please discuss with detail any changes or modifications from the Company's previous TYSP report regarding the following PEV related topics:
 - a. The major drivers of the Company's PEV growth.

There are no changes to Lakeland Electric's PEV growth drivers since 2022.

b. The methodology and the assumptions (or, if applicable, the source(s) of the data) used to estimate the number of PEVs operating in the Company's service territory and the methodology used to estimate the cumulative impact on system demand and energy consumption.

Methods and assumptions are the same compared to the 2022 survey.

c. The Company's process for monitoring the installation of PEV public charging stations in its service area.

Lakeland Electric's PEV public charging installation monitoring remains the same compared to 2022.

d. The processes or technologies, if any, that are in place to allow the Company to be notified when a customer has installed a PEV charging station in their home.

These processes remain the same compared to 2022.

e. Any instances since January 1 of the year prior to the current planning period in which upgrades to the distribution system were made where PEVs were a contributing factor.

No distribution upgrades have been required.

22. Please refer to the Excel Tables File (Electric Vehicle Charging). Complete the table by providing estimates of the requested information within the Company's service territory for

the current planning period. Direct current fast charger (DCFC) PEV charging stations are those that require a service drop greater than 240 volts and/or use three-phase power.

a. Please describe all significant technological, market, regulatory, or other events or announcements since the filing of the Company's 2022 TYSP which have impacted the metrics reported

There have been no significant events or announcements.

b. Please explain if and how the tax incentives and grants for transportation electrification associated with the IRA, adopted in August 2022, has impacted the Company's PEV and PEV charging station adoption/installation, as well as the PEV energy/demand forecast(s). If the provisions of the IRA are not reflected in such forecasts, please explain why.

The IRA has not impacted the PEV and PEV charging adoption and therefore has also not become a factor in the PEV energy or demand forecasts.

23. Please describe any Company programs or tariffs currently offered to customers relating to PEVs, and describe whether any new or additional programs or tariffs relating to PEVs will be offered to customers within the current planning period.

Customer facing website has incentives and rebates available for both new and used vehicle purchases. Customer incentives and rebates are also available for charging infrastructure.

a. Of these programs or tariffs, are any designed for or do they include educating customers on electricity as a transportation fuel?

Not at this time, ideation around customer engagement and education is being explored

b. Does the Company have any programs where customers can express their interest or expectations for electric vehicle infrastructure as provided for by the Utility, and if so, please describe in detail.

No, but always open to customer input. Customer facing website has incentives and rebates available, our energy advisor team can go on-site to answer customer questions.

24. Has the Company conducted or contracted any research to determine demographic and regional factors that influence the adoption of PEVs applicable to its service territory? If so, please describe in detail the methodology and findings.

No research around demographics or regional factors has occurred.

25. Please describe if and how Section 339.287, Florida Statutes, (Electric Vehicle Charging Stations; Infrastructure Plan Development) has impacted the Company's projection of PEV growth and related demand and energy growth.

Without the states Infrastructure Plan Development, growth would be slower than 3% share of sales growth rate noticed by SACE and Atlas public policy's recent report.

26. What has the Company learned about the impact of PEV ownership on the Company's actual and forecasted peak demand?

The actual and forecasted demand has not seen a significant impact. estimate less than .1%

27. If applicable, please describe any key findings and metrics of the Company's PEV pilot program(s) which reveal the PEV impact to the demand and energy requirements of the Company.

N/A

Demand Response

- 28. **[FEECA Utilities Only]** Please refer to the Excel Tables File (DR Participation). Complete the table by providing for each source of demand response annual customer participation information for 10 years prior to the current planning period. Please also provide a summary of all sources of demand response using the table.
- 29. **[FEECA Utilities Only]** Please refer to the Excel Tables File (DR Annual Use). Complete the table by providing for each source of demand response annual usage information for 10 years prior to the current planning period. Please also provide a summary of all demand response using the table.
- 30. **[FEECA Utilities Only]** Please refer to the Excel Tables File (DR Peak Activation). Complete the table by providing for each source of demand response annual seasonal peak activation information for 10 years prior to the current planning period. Please also provide a summary of all demand response using the table.
- 31. Please refer to the Excel Tables File (LOLP). Complete the table by providing the loss of load probability, reserve margin, and expected unserved energy for each year of the planning period.

Excel Table on LOLP is attached.

Generation & Transmission

Utility-Owned Generation

32. Please refer to the Excel Tables File (Unit Performance). Complete the table by providing information on each utility-owned generating resources' outage factors, availability factors, and average net operating heat rate (if applicable). For historical averages, use the past three years and for projected factors, use an average of the next ten-year period.

Attached in Excel Spreadsheet.

33. Please refer to the Excel Tables File (Utility Existing Traditional). Complete the table by providing information on each utility-owned traditional generation resource in service as of December 31 of the year prior to the current planning period. For multiple small (<250 kW per installation) distributed resources of the same type and fuel source, please include a single combined entry. For capacity factor, use the net capacity as a basis.

Attached in Excel Spreadsheet.

34. Please refer to the Excel Tables File (Utility Planned Traditional). Complete the table by providing information on each utility-owned traditional generation resource planned for inservice within the current planning period. For multiple small (<250 kW per installation) distributed resources of the same type and fuel source, please include a single combined entry. For projected capacity factor, use the net capacity as a basis.

Attached in Excel Spreadsheet.

a. For each planned utility-owned traditional generation resource in the table, provide a narrative response discussing the current status of the project.

The underground cabling work has been complete and building structures will start in summer 2023. Construction materials have been received and LE is expecting to receive a Generation Step Up (GSU) transformer in this summer.

35. Please refer to the Excel Tables File (Utility Existing Renewable). Complete the table by providing information on each utility-owned renewable generation resource in service as of December 31 of the year prior to the current planning period. For multiple small (<250 kW per installation) distributed resources of the same type and fuel source, please include a single combined entry. For capacity factor, use the net capacity as a basis.

LE does not own existing Renewable (solar projects). However, LE has a long term PPA with four different solar companies of total 14 MWac.

- 36. Please refer to the Excel Tables File (Utility Planned Renewable). Complete the table by providing information on each utility-owned renewable generation resource planned for inservice within the current planning period. For multiple small (<250 kW per installation) distributed resources of the same type and fuel source, please include a single combined entry. For projected capacity factor, use the net capacity as a basis.
 - a. For each planned utility-owned renewable resource in the table, provide a narrative response discussing the current status of the project.

LE is looking at various solar projects from PPA to own investment. But no project has been finalized yet to provide any narrative information at this time.

37. Please list and discuss any planned utility-owned renewable resources that have, within the past year, been cancelled, delayed, or reduced in scope. What was the primary reason for the changes? What, if any, were the secondary reasons?

LE's 16 MW Solar PPA project planned for 2024 in McIntosh is on hold because of increased cost of the project due to supply-chain issues after the Pandemic.

38. **[Investor-Owned Utilities Only]** Please refer to the Excel Tables File (As-Available Energy Rate). Complete the table by providing, on a system-wide basis, the historical annual average as-available energy rate in the Company's service territory for the 10-year period prior to the current planning period. Also, provide the projected annual average as-available energy rate in the Company's service territory for the Company uses multiple areas for as-available energy rates, please provide a system-average rate as well.

Not Applicable to LE.

39. Please refer to the Excel Tables File (Planned PPSA Units). Complete the table by providing information on all planned traditional units with an in-service date within the current planning period. For each planned unit, provide the date of the Commission's Determination of Need and Power Plant Siting Act certification, if applicable.

There is no planned PPSA in this planning period.

40. For each of the planned generating units, both traditional and renewable, contained in the Company's current planning period TYSP, please discuss the "drop dead" date for a decision on whether or not to construct each unit. Provide a timeline for the construction of each unit, including regulatory approval, and final decision point.

The planned RICE units have already been decided to be built and the construction is in progress. The construction is expected to be complete in the third quarter of 2024.

41. Please refer to the Excel Tables File (Capacity Factors). Complete the table by providing the actual and projected capacity factors for each existing and planned unit on the Company's system for the 11-year period beginning one year prior to the current planning period.

The Table is attached in Excel Spreadsheet.

42. **[Investor-Owned Utilities Only]** For each existing unit on the Company's system, please provide the planned retirement date. If the Company does not have a planned retirement date for a unit, please provide an estimated lifespan for units of that type and a non-binding estimate of the retirement date for the unit.

Not applicable.

43. Please refer to the Excel Tables File (Steam Unit CC Conversion). Complete the table by providing information on all of the Company's steam units that are potential candidates for repowering to operation as Combined Cycle units.

There is no unit planned to convert into CC from Steam Unit during this planning period. There is no existing Steam Unit in LE's portfolio.

44. Please refer to the Excel Tables File (Steam Unit Fuel Switching). Complete the table by providing information on all of the Company's steam units that are potential candidates for fuel-switching.

This is not applicable to LE.

45. Please refer to the Excel Tables File (Transmission Lines). Complete the table by providing a list of all proposed transmission lines for the current planning period that require certification under the Transmission Line Siting Act. Please also include in the table transmission lines that have already been approved but are not yet in-service.

The information is provided in attached Spreadsheet. But this transmission line project does not require certification under the Transmission Siting Act. This approved project is planned to be completed in August 2024.

Purchases and Sales

46. Please refer to the Excel Tables File (Firm Purchases). Complete the table by providing information on the Utility's firm capacity and energy purchases.

The excel Table is attached.

47. Please refer to the Excel Tables File (PPA Existing Traditional). Complete the table by providing information on each purchased power agreement with a traditional generator still in effect by December 31 of the year prior to the current planning period pursuant to which energy was delivered to the Company during said year.

The excel Table is attached.

- 48. Please refer to the Excel Tables File (PPA Planned Traditional). Complete the table by providing information on each purchased power agreement with a traditional generator pursuant to which energy will begin to be delivered to the Company during the current planning period.
 - a. For each purchased power agreement in the table, provide a narrative response discussing the current status of the project.

There is no planned PPA planned at this time to be delivered.

49. Please refer to the Excel Tables File (PPA Existing Renewable). Complete the table by providing information on each purchased power agreement with a renewable generator still in effect by December 31 of the year prior to the current planning period pursuant to which energy was delivered to the Company during said year.

The excel Table is attached in Tab 49.

- 50. Please refer to the Excel Tables File (PPA Planned Renewable). Complete the table by providing information on each purchased power agreement with a renewable generator pursuant to which energy will begin to be delivered to the Company during the current planning period.
 - a. For each purchased power agreement in the table, provide a narrative response discussing the current status of the project.

The Summary Table is provided in the Spreadsheet (Tab 55). All the existing projects are in operation.

51. Please list and discuss any purchased power agreements with a renewable generator that have, within the past year, been cancelled, delayed, or reduced in scope. What was the primary reason for the change? What, if any, were the secondary reasons?

LE's 16 MW Solar PPA project planned for 2024 in McIntosh Site is on hold because of increased cost of the project due to supply-chain issues after the Pandemic.

52. Please refer to the Excel Tables File (PSA Existing). Complete the table by providing information on each power sale agreement still in effect by December 31 of the year prior to the current planning period pursuant to which energy was delivered from the Company to a third-party during said year.

Not applicable.

- 53. Please refer to the Excel Tables File (PSA Planned). Complete the table by providing information on each power sale agreement pursuant to which energy will begin to be delivered from the Company to a third-party during the current planning period.
 - a. For each power sale agreement in the table, provide a narrative response discussing the current status of the agreement.

Not applicable.

54. Please list and discuss any long-term power sale agreements within the past year that were cancelled, expired, or modified. What was the primary reason for the change? What, if any, were the secondary reasons?

Not applicable to LE.

Renewable Generation

55. Please refer to the Excel Tables File (Annual Renewable Generation). Complete the table by providing the actual and projected annual energy output of all renewable resources on the Company's system, by source, for the 11-year period beginning one year prior to the current planning period.

Attached in Excel Spreadsheet.

56. Please describe any actions the Company engages in to encourage production of renewable energy within its service territory.

Net- metering: LE allows LE customers who want to connect their renewable generation system such as roof top solar panels to the LE's electric grid in a net-meter fashion. LE has expanded the solar interconnection agreement to track the battery installed from its customers to provide battery rebates in its service territory.

Solar Water Heating program: This program under the name "Solar for Lakeland" allows residential customers to install solar water heaters. All solar heating customers are metered for verifications and are tracked for green credits for the utility.

57. **[Investor-Owned Utilities Only]** Please discuss whether the Company has been approached by renewable energy generators during the year prior to the current planning period regarding constructing new renewable energy resources. If so, please provide the number and a description of the type of renewable generation represented.

Not applicable to LE.

58. Does the Company consider solar PV to contribute to one or both seasonal peaks for reliability purposes? If so, please provide the percentage contribution and explain how the Company developed the value.

LE considers solar photovoltaic (PV) system as distributed generators irrespective of their connection to the grid. Solar being available mostly during the daytime, it contributes to reduce system peak demand/energy enhancing reliability in the Electric grid. LE considers the firm capacity value of solar as 50% of the nameplate capacity for LE's summer peak and 0% for winter peak. These are based on the minimum capacity factor of the historical solar output contributing to LE's system peaks in winter and summer.

- 59. Please identify and describe any programs the Company offers that allows its customers to contribute towards the funding of specific renewable projects, such as community solar programs.
 - a. Please describe any such programs in development with an anticipated launch date within the current planning period.

Many of our recent residential solar customers have included battery installations with their rooftop installation in hopes of truly leveraging the capital investment. We have added a section to solar interconnection agreement to track battery installs in our service territory (battery rebates).

Energy Storage

60. Briefly discuss any progress in the development and commercialization of non-lithium-ion based battery storage technology the Company has observed in recent years.

None, staying abreast of non-lithium battery storage technology development.

61. If applicable, please describe the strategy of how the Company charges and discharges its energy storage facilities. As part of the response discuss if any recent legislation, including the IRA has changed how the Company dispatches its energy storage facilities.

N/A. Lakeland Electric does not have utility scale energy storage facilities.

62. Briefly discuss any considerations reviewed in determining the optimal positioning of energy storage technology in the Company's system (e.g., Closer to/further from sources of load, generation, or transmission/distribution capabilities).

Still determining actual business and use cases for batteries, among that development the determination of location of batteries will be considered.

63. Please explain whether customers have expressed interest in energy storage technologies. If so, describe the type of customer (residential, commercial industrial) and how have their interests been addressed.

Many of our recent residential solar customers have included battery installations with their rooftop installation in hopes of truly leveraging the capital investment. We have added a section to solar interconnection agreement to track battery installs in our service territory. (battery rebates)

64. Please refer to the Excel Tables File (Existing Energy Storage). Complete the table by providing information on all energy storage technologies that are currently either part of the Company's system portfolio or are part of a pilot program sponsored by the Company.

Excel Table is attached.

65. Please refer to the Excel Tables File (Planned Energy Storage). Complete the table by providing information on all energy storage technologies planned for in-service during the current planning period either as part of the Company's system portfolio or as part of a pilot program sponsored by the Company.

Excel Spreadsheet attached.

- 66. Please identify and describe the objectives and methodologies of all energy storage pilot programs currently running or in development with an anticipated launch date within the current planning period. If the Company is not currently participating in or developing energy storage pilot programs, has it considered doing so? If not, please explain.
 - a. Please discuss any pilot program results, addressing all anticipated benefits, risks, and operational limitations when such energy storage technology is applied on a utility scale (> 2 MW) to provide for either firm or non-firm capacity and energy.

None

b. Please provide a brief assessment of how these benefits, risks, and operational limitations may change over the current planning period.

We have not assessed any potential changes on the existing pilot program.

c. Please identify and describe any plans to periodically update the Commission on the status of your energy storage pilot programs.

We do not have any anticipated new plans for the energy storage program.

67. If the Company utilizes non-firm generation sources in its system portfolio, please detail whether it currently utilizes or has considered utilizing energy storage technologies to provide firm capacity from such generation sources. If not, please explain.

LE utilizes 50% of solar installed capacity as firm resources in its portfolio during summer. But we have no storage technologies in the Portfolio yet.

a. Based on the Company's operational experience, please discuss to what extent energy storage technologies can be used to provide firm capacity from non-firm generation sources. As part of your response, please discuss any operational challenges faced and potential solutions to these challenges.

LE does not have much experience on storage technologies. But based upon the discharge duration of storage technologies, they can firm up the solar capacity during the peak hours when LE needed the capacity and energy most, esp. during peak load hours. Since peak loads for Lakeland Electric remains high (>90% of peak load) about 4 hours, probably storage hours of at least 4 hours will contribute to run the system reliably.

Other

68. Please identify and discuss the Company's role in the research and development of utility power technologies, including, but not limited to research programs that are funded through the Energy Conservation Cost Recovery Clause. As part of this response, please describe any plans to implement the results of research and development into the Company's system portfolio and discuss how any anticipated benefits will affect your customers.

Lakeland Electric stays abreast of research and development for utility power technologies by connecting with industry professionals and other utilities initiatives.

Environmental

- 69. Please explain if the Company assumes carbon dioxide (CO₂) compliance costs in the resource planning process used to generate the resource plan presented in the Company's current planning period TYSP. If the response is affirmative, answer the following questions:
 - a. Please identify the year during the current planning period in which CO2 compliance costs are first assumed to have a non-zero value.

LE assumes no carbon dioxide compliance costs in its resource planning process to generate 10 years resource plan in its TYSP.

- b. **[Investor-Owned Utilities Only]** Please explain if the exclusion of CO2 compliance costs would result in a different resource plan than that presented in the Company's current planning period TYSP.
- c. **[Investor-Owned Utilities Only]** Please provide a revised resource plan assuming no CO2 compliance costs.
- 70. Provide a narrative explaining the impact of any existing environmental regulations relating to air emissions and water quality or waste issues on the Company's system during the previous year. As part of your narrative, please discuss the potential for existing environmental regulations to impact unit dispatch, curtailments, or retirements during the current planning period.

The Cooling Water Intake Structures Rule (CWIS) affects units that use surface water for cooling purposes. One of our units is affected by this rule – Unit 8. Due to Unit 8 exceeding a capacity factor of 8%, Lakeland is required to endeavor an intensive ecological study. At the end of the study, it is quite likely the intake structures will need to be reconfigured to meet the stricter standards as determined by the Florida Department of Environmental Protection. The reconfigured intake structures are estimated to be about a million dollars. One alternative to reconfiguring the intake structures is to operate the unit in a simple cycle which would eliminate the need for the cooling water intake but reduce the electrical output of the unit.

The Coal Combustion Residuals (CCR) rule took effect in 2015 by regulating the storage of coal combustion byproducts. Lakeland Electric stores only dry byproducts onsite. The regulations required additional monitoring of the groundwater around the byproduct storage site. Small, localized groundwater impacts have been determined and delineated. However, there are no off-site impacts. With the retirement of Unit 3 Coal unit, the landfill is being prepared for permanent closure with an impermeable cap. The cap will eliminate rainwater from entering the landfill, which will help control the source material.

- 71. For the U.S. EPA's Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units Rule:
 - a. Will your Company be materially affected by the rule?

No. Lakeland Electric does not have any generating units subject to the NSPS GHG rule. We are currently in the process of adding new generation in the form of six natural gaspowered Reciprocating Internal Combustion Engines (RICE), each rated at ~20 MW, but these units will be exempt from the NSPS GHG rule due to their size, unit type, and construction date.

b. What compliance strategy does the Company anticipate employing for the rule?

N/A

c. If the strategy has not been completed, what is the Company's timeline for completing the compliance strategy?

N/A

d. Will there be any regulatory approvals needed for implementing this compliance strategy? How will this affect the timeline?

N/A

e. Does the Company anticipate asking for cost recovery for any expenses related to this rule? Refer to the Excel Tables File (Emissions Cost). Complete the table by providing information on the costs for the current planning period.

See attached Excel file, tab "Emissions Cost."

f. If the answer to any of the above questions is not available, please explain why.

N/A

- 72. Explain any expected reliability impacts resulting from each of the EPA rules listed below. As part of your explanation, please discuss the impacts of transmission constraints and changes to units not modified by the rule that may be required to maintain reliability.
 - a. Mercury and Air Toxics Standards (MATS) Rule.

No reliability impact expected. Our only unit subject to MATS was the coal-fired Unit 3. This unit was permanently shut down and officially retired on April 4, 2021.

b. Cross-State Air Pollution Rule (CSAPR).

No reliability impact expected – Florida is not subject to CSAPR.

c. Cooling Water Intake Structures (CWIS) Rule.

Larsen Unit 8 CC may be impacted. Additional environmental studies will need to be completed. If state regulators review the studies and determine we must comply with each provision of the rule, a decision would be needed whether to invest in significant capital expenses or to limit the Unit to simple cycle operation. It is possible that the results of the studies and negotiations with regulators bring about very little changes to Unit 8.

d. Coal Combustion Residuals (CCR) Rule.

No reliability impact is expected.

e. Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units.

No reliability impact is expected.

f. Affordable Clean Energy Rule or its replacement.

No reliability impact expected from the ACE rule. Too early to know whether there will be any impacts from the ACE rule replacement.

g. Effluent Limitations Guidelines and Standards (ELGS) from the Steam Electric Power Generating Point Source Category.

No reliability impact is expected as we are no longer subject to the rule due to the retirement of Unit 3.

73. Please refer to the Excel Tables File (EPA Operational Effects). Complete the table by identifying, for each unit affected by one or more of EPA's rules, what the impact is for each rule, including; unit retirement, curtailment, installation of additional emissions controls, fuel switching, or other impacts identified by the Company.

See attached Excel file, tab "EPA Operational Effects."

74. Please refer to the Excel Tables File (EPA Cost Effects). Complete the table by identifying, for each unit impacted by one or more of the EPA's rules, what the estimated cost is for implementing each rule over the course of the planning period.

See attached Excel file, tab "EPA Cost Effects."

75. Please refer to the Excel Tables File (EPA Unit Availability). Complete the table by identifying, for each unit impacted by one or more of EPA's rules, when and for what duration units would be required to be offline due to retirements, curtailments, installation of additional controls, or additional maintenance related to emission controls. Include important dates relating to each rule.

See attached Excel file, tab "EPA Unit Availability."

76. If applicable, identify any currently approved costs for environmental compliance investments made by your Company, including but not limited to renewable energy or energy efficiency measures, which would mitigate the need for future investments to comply with recently finalized or proposed EPA regulations. Briefly describe the nature of these investments and identify which rule(s) they are intended to address.

Not aware of any such approved costs for environmental compliance investments.

Fuel Supply & Transportation

77. Please refer to the Excel Tables File (Fuel Usage & Price). Complete the table by providing, on a system-wide basis, the actual annual fuel usage (in GWh) and average fuel price (in nominal \$/MMBTU) for each fuel type utilized by the Company in the 10-year period prior to the current planning period. Also, provide the forecasted annual fuel usage (in GWh) and forecasted annual average fuel price (in nominal \$/MMBTU) for each fuel type forecasted to be used by the Company in the current planning period.

Excel Table Attached.

78. Please discuss how the Company compares its fuel price forecasts to recognized, authoritative independent forecasts.

Lakeland Electric uses a hybrid method to determine fuel price forecasts for analysis purposes and reports. Various independent forecasts from respected energy sector trade publications are used to develop a weighted price. Our analysis incorporates the U.S. Energy Information Administration (EIA) outlook. We examine the basis differential for the Florida market zone 3 and use the NYMEX Henry Hub futures market as a benchmark. These are industry standard practices followed in the preparation of long-range forecasts.

79. Please identify and discuss expected industry trends and factors for each fuel type listed below that may affect the Company during the current planning period.a. Coal

Lakeland Electric ceased production from its coal plant on April 4th, 2021. The plant was decommissioned and subsequently razed. While coal prices are beneath the levels they reached in 2022, prices are still above the previous 5-year average. Prices are likely to remain strong due to demand in Europe and China.

b. Natural Gas

Natural gas prices are considerably lower than their 2022 levels. The main driver has been the weather, as this winter season has been extremely mild, with fewer heating degree days. The Freeport LNG terminal being closed left more domestic supply available. The withdrawal season inventory has remained greater than the five-year average and the previous year. The fuel price has dropped as the market has abundant supply compared to the current demand.

c. Nuclear

Not applicable to Lakeland Electric portfolio.

d. Fuel Oil

The U.S. Energy Information Administration (EIA) Short-Term Energy Outlook is projecting prices to fall in 2023 and 2024 mainly because of expecting global oil production to outpace consumption. The Saudis/OPEC recent supply cut could change events, driving prices upwards in 2024.

e. Other (please specify each, if any)

Not applicable.

- 80. Please provide a comparison of the Utility's 2022 fuel price forecast and the actual 2022 delivered fuel prices.
 - a. Natural Gas Lakeland Electric predicted a 2022 average natural gas price of \$4.15 per MMBtu. Due to unusually high natural gas prices for much of the year, the average calendar year was \$7.39 per MMBtu.
 - b. Coal Not applicable.
 - c. Distallate Oil Lakeland Electric predicted a 2022 average distillate oil price of \$13.57 per MMBtu. The true price was an average of \$18.39. This reflects the higher oil prices that were experienced nationally during 2022.
- 81. Please explain any notable changes in the Utility's forecast of fuel prices used to prepare the Utility's 2023 TYSP compared to the fuel process used to prepare the Utility's 2022 TYSP.

Lakeland Electric continues using best utility practices to develop rates using third-party subscriptions. We have included forecasting basis differential for Florida Gas Zone 3 into our prices due to the high volatility experienced in the calendar year 2022. We model various low, medium, and high scenarios to determine what we believe to be the best projection possible.

82. Please identify and discuss steps that the Company has taken to ensure natural gas supply availability and transportation over the current planning period.

Lakeland Electric has long-term transportation contracts in place with three (3) separate pipeline companies, Florida Gas Transmission Company (FGT), Transco, and Gulfstream Pipeline. Owning pipeline transportation contracts provides the shipper firm rights on nominations made on the pipeline, which is the most secure means for delivering natural to our plants. Additional capacity on FGT was purchased to secure more firm transportation rights to meet our peaks and load growth.

Lakeland Electric maintains agreements with multiple suppliers to allow for diversity of daily, and monthly baseload supply. LE also has long-term prepaid agreements that offer larger discounts from the indexes and secured supply availability.

83. Please identify and discuss any existing or planned natural gas pipeline expansion project(s), including new pipelines and those occurring or planned to occur outside of Florida that would affect the Company during the current planning period.

Lakeland Electric is unaware of any pipeline expansion projects impacting our ratepayers during 2023.

84. Please identify and discuss expected liquefied natural gas (LNG) industry factors and trends that will impact the Company, including the potential impact on the price and availability of natural gas, during the current planning period.

The LNG industry has expanded its export capacity, creating a significant basis premium to the Florida Gas Zone 3 index over the Henry hub price not experienced before 2022. The Florida market competes with LNG export prices to ensure domestic supply availability.

85. Please identify and discuss the Company's plans for the use of firm natural gas storage during the current planning period.

Lakeland Electric does not have plans to utilize natural gas storage at this time. We are able to use the imbalance on our two pipelines as temporary storage.

86. Please identify and discuss expected coal transportation industry trends and factors, for transportation by both rail and water that will impact the Company during the current planning period. Please include a discussion of actions taken by the Company to promote competition among coal transportation modes, as well as expected changes to terminals and port facilities that could affect coal transportation.

Coal transportation is no longer necessary for our utility due to our coal plant's closure. Any impacts on the utility will be indirect.

87. Please identify and discuss any expected changes in coal handling, blending, unloading, and storage at coal generating units during the current planning period. Please discuss any planned construction projects that may be related to these changes.

Coal matters no longer directly impact our utility due to our coal plant's closure.

88. Please identify and discuss the Company's plans for the storage and disposal of spent nuclear fuel during the current planning period. As part of this discussion, please include the Company's expectation regarding short-term and long-term storage, dry cask storage, litigation involving spent nuclear fuel, and any relevant legislation.

This is not applicable to Lakeland Electric.

89. Please identify and discuss expected uranium production industry trends and factors that will affect the Company during the current planning period.

This is not applicable to Lakeland Electric.

- 90. [FPL Only] The following questions are with regard to hydrogen fuel creation and use at the Cavendish NextGen Hydrogen Hub:
 - a. Please explain how FPL plans to account for the produced hydrogen fuel that is integrated into the natural gas system for use at FPL's Okeechobee Clean Energy Center.
 - b. Please explain how FPL plans to price the produced hydrogen fuel that is integrated into FPL's natural gas system over the Ten-Year Site Plan time horizon

Not applicable to Lakeland Electric.

Extreme Weather

91. Please identify and discuss steps, if any, that the Company has taken to ensure continued energy generation in case of a severe cold weather event.

Heat Trace System check outs before winter/cold weather season. We have Pre-Extreme Winter Checklist to be completed by Operations & Crafts by December 1. Also, each Plant has its own Extreme Winter Weather Equipment Checklist that also should be completed by December 1st. When colder weather is forecasted, we also perform walkdowns of major systems (gas, cycle make-up, condensate, feedwater, and ammonia, etc.) to insure their protection. This year we also purchased additional 120V and 480V portable heaters.

92. Please identify any future winterization plans, if any, the Company intends to implement over the current planning period.

Repairing heat trace circuits during the Summer.

93. Please explain the Company's planning process for flood mitigation for current and proposed power plant sites and transmission/distribution substations.

The Power Plants maintain zero discharge pond levels to ensure adequate free board exists for storms. Being inland, Lakeland does not have the coastal flooding concern.

All Lakeland Electric power plant sites and substations are located outside of FEMA flood zones. Therefore, no flood mitigation planning is performed.

- 94. Please address the following questions regarding the impact of all major storm events, such as Hurricane Ian, with associated flooding, destruction of utility facilities and customer buildings, and forced customer permanent migration.
 - a. Based on actual data, please briefly summarize the impact that major storms have had on your utility's customer number, retail sales and peak load.

Lakeland Electric lost about 64,000 customers from Hurricane Ian. About 60% of the customers were restored on the first day of restoration work. All LE's main line feeders and substations were restored to full capacity by the evening of Sep 29, 2002. By October 4, all customers were restored, and Energy Production and Transmission and Distribution operations

remained normal. LE started dropping its load from Sep 27 onwards, and LE's system load dropped by about 50% on 29th after the hurricane passed by Lakeland.

Data Request #1

b. Please explain whether the above discussed impact is including in your company's customer/retail energy sales/demand forecasts.

The impact was modeled based on the weather only i.e., temperature, humidity and expected precipitation.

c. If your response to subpart (b) is affirmative, please explain how this impact is modeled.

Lakeland Electric's day ahead load forecast was based on the low temperature and high level of precipitation during the storm because of expected torrential rain. But the impact of outage on customers were not modeled. The Day Ahead (Sep 29th) load forecast was 350 MW, but actual load was 300 MW due to the combined effect of forced outage on line feeders and weather.

95. Has the Company had to make any upgrades to any generating units or changes to operations practices as a result of any FERC Orders addressing extreme weather planning within the last two years? If so, please describe.

Production now reviews our Winter Readiness Plan for all sites annually. We bought a new HMI for the Heat Trace System. This year we also purchased additional 120V and 480V portable heaters.

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Financia	S		
Ba	ase Case		
AFUDC RATE		4.5	%
CAPITALIZATION RATIOS:			
	DEBT	52.5	%
	PREFERRED		%
	NET POSITION*	47.5	%
RATE OF RETURN			
	DEBT	5	%
	PREFERRED	N/A	%
	EQUITY	N/A	%
INCOME TAX RATE:			
	STATE	0	%
	FEDERAL	0	%
	EFFECTIVE	0	%
OTHER TAX RATE:		0	%
DISCOUNT RATE:		5	%
ТАХ			
DEPRECIATION RATE:		2.8	%

Financial Escalation	Assump	otions		
	General	Plant Construction	Fixed O&M	Variable O&M
	Inflation	Cost	Cost	Cost
Year	%	%	%	%
2023	3.3	3.3	3.3	3.3
2024	2.3	2.3	2.3	2.3
2025	2.1	2.1	2.1	2.1
2026	2.1	2.1	2.1	2.1
2027	2.1	2.1	2.1	2.1
2028	2.1	2.1	2.1	2.1
2029	2.2	2.2	2.2	2.2
2030	2.3	2.3	2.3	2.3
2031	2.4	2.4	2.4	2.4
2032	2.4	2.4	2.4	2.4

| Data | | |
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 | | | | Hourly Syste | m Load (MW)
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Date	1	2	3	
 | 4 | 5 | 6 | 7 | 8
 | 9 | 10 | 11 | 12 | 13
 | 14 | 15 | 16 | 17 | 18 | 19
 | 20 | 21 | 21 | 22
 | 23 | 24 |
| 1/1/2022 | 360 | 357 | 356
 | 358 | 365 | 375 | 386 | 393
 | 390 | 371 | 349 | 329 | 317
 | 307 | 300 | 296 | 294 | 299 | 316
 | 311 | 301 | 301 | 287
 | 272 | 258 |
| 1/3/2022 | 245 | 234 | 229
 | 228 | 234 | 256 | 289 | 303
 | 304 | 307 | 310 | 313 | 317
 | 321 | 324 | 326 | 329 | 332 | 346
 | 340 | 325 | 325 | 305
 | 281 | 258 |
| 1/4/2022 | 246 | 235 | 230
 | 229 | 235 | 257 | 290 | 304
 | 305 | 308 | 312 | 317 | 321
 | 325 | 328 | 330 | 332 | 335 | 349
 | 342 | 327 | 327 | 307
 | 283 | 259 |
| 1/5/2022 | 321 | 313 | 309
 | 312 | 324 | 355 | 402 | 442
 | 467 | 491 | 507 | 510 | 508
 | 503 | 493 | 489 | 498 | 528 | 579
 | 589 | 588 | 588 | 571
 | 536 | 504 |
| 1/0/2022 | 424 | 430 | 438
 | 446 | 499
471 | 524 | 593 | 610
 | 579 | 523 | 466 | 414 | 383
 | 439 | 352 | 348 | 353 | 371 | 407
 | 415 | 409 | 409 | 393
 | 373 | 356 |
| 1/8/2022 | 323 | 318 | 317
 | 318 | 325 | 339 | 359 | 370
 | 371 | 358 | 339 | 323 | 312
 | 305 | 299 | 298 | 301 | 311 | 333
 | 332 | 323 | 323 | 309
 | 294 | 278 |
| 1/9/2022 | 322 | 319 | 319
 | 325 | 336 | 357 | 388 | 426
 | 464 | 474 | 463 | 438 | 410
 | 387 | 371 | 366 | 376 | 413 | 483
 | 508 | 521 | 521 | 520
 | 501 | 485 |
| 1/11/2022 | 400 | 368 | 370
 | 377 | 322 | 439 | 506 | 527
 | 506 | 466 | 424 | 388 | 369
 | 355 | 344 | 340 | 367 | 362 | 393
 | 430
398 | 394 | 394 | 381
 | 362 | 344 |
| 1/12/2022 | 309 | 303 | 302
 | 304 | 315 | 342 | 380 | 392
 | 382 | 368 | 354 | 342 | 335
 | 331 | 328 | 328 | 331 | 339 | 359
 | 356 | 345 | 345 | 327
 | 306 | 285 |
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 | 242 | 247 | 270 | 302 | 315
 | 315 | 318 | 321 | 326 | 331
 | 337 | 340 | 343 | 345 | 347 | 360
 | 351 | 336 | 336 | 315
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 | 234 | 239 | 261 | 293 | 307
 | 309
294 | 316 | 324 | 332 | 341
 | 348 | 352 | 335 | 356 | 357 | 369
 | 360 | 345 | 345 | 323
 | 304 | 272 |
| 1/16/2022 | 259 | 251 | 248
 | 248 | 253 | 267 | 287 | 307
 | 322 | 328 | 326 | 320 | 315
 | 310 | 305 | 304 | 310 | 323 | 348
 | 351 | 345 | 345 | 335
 | 321 | 306 |
| 1/17/2022 | 289 | 284 | 282
 | 286 | 297 | 322 | 358 | 376
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 | 340 | 329 | 329 | 311
 | 290 | 269 |
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 | 397 | 398 | 393 | 383 | 372
 | 362 | 353 | 352 | 360 | 381 | 426
 | 439 | 439 | 439 | 425
 | 397 | 380 |
| 1/21/2022 | 327 | 322 | 320
 | 323 | 333 | 359 | 394 | 403
 | 385 | 361 | 340 | 325 | 316
 | 312 | 310 | 311 | 313 | 318 | 335
 | 328 | 314 | 314 | 294
 | 271 | 249 |
| 1/22/2022 | 261 | 253 | 250
 | 250 | 256 | 270 | 291 | 311
 | 327 | 333 | 330 | 325 | 320
 | 315 | 309 | 308 | 313 | 327 | 353
 | 357 | 353 | 353 | 343
 | 329 | 314 |
| 1/23/2022 | 291 279 | 284 | 282
 | 282 | 288 | 301 287 | 321 319 | 331
 | 346 | 344 | 335 | 326 | 320
 | 315 | 311 | 310 | 313 | 324 | 346
 | 374 | 338 | 358 | 326
 | 310 | 294 281 |
| 1/25/2022 | 279 | 268 | 262
 | 262 | 270 | 295 | 333 | 352
 | 359 | 369 | 378 | 385 | 391
 | 396 | 397 | 397 | 401 | 410 | 438
 | 433 | 416 | 416 | 392
 | 368 | 344 |
| 1/26/2022 | 308 | 303 | 303
 | 308 | 322 | 353 | 400 | 435
 | 442 | 437 | 424 | 404 | 388
 | 376 | 366 | 364 | 372 | 394 | 447
 | 460 | 461 | 461 | 447
 | 418 | 394 |
| 1/28/2022 | 291 | 284 | 281
 | 282 | 290 | 425 | 489 | 309
 | 465 | 334 | 322 | 380 | 303
 | 349 | 340 | 338 | 342 | 337 | 380
 | 326 | 384 | 312 | 292
 | 268 | 246 |
| 1/29/2022 | 240 | 229 | 224
 | 221 | 223 | 231 | 245 | 259
 | 272 | 279 | 280 | 282 | 284
 | 287 | 289 | 290 | 292 | 297 | 312
 | 306 | 294 | 294 | 278
 | 260 | 241 |
| 1/30/2022 | 247 | 238 | 233
 | 232 | 236 | 247 | 265 | 282
 | 295 | 302 | 302 | 299 | 297
 | 294 | 292 | 293 | 297 | 305 | 325
 | 324 | 315 | 315 | 302
 | 287 | 270 |
| 1/31/2022 | 246 | 236 | 232
 | 231 | 238 | 261 | 295 | 308
 | 307 | 306 | 305 | 305 | 305
 | 307 | 309 | 311 | 314 | 318 | 334
 | 328 | 315 | 315 | 296
 | 272 | 250 |
| 2/2/2022 | 253 | 247 | 246
 | 246 | 250 | 264 | 285 | 294
 | 293 | 292 | 291 | 290 | 291
 | 292 | 294 | 297 | 300 | 303 | 309
 | 311 | 304 | 304 | 292
 | 279 | 265 |
| 2/3/2022 | 252 | 246 | 244
 | 244 | 248 | 261 | 282 | 289
 | 289 | 288 | 287 | 288 | 289
 | 291 | 293 | 296 | 300 | 301 | 307
 | 307 | 300 | 300 | 288
 | 273 | 259 |
| 2/4/2022 | 255 | 248 | 246
 | 245 | 249 | 262 | 282 | 289
 | 289 | 290 | 292 | 294 | 297
 | 300 | 304 | 307 | 309 | 310 | 314
 | 314 | 306 | 306 | 293
 | 278 | 263 |
| 2/6/2022 | 253 | 247 | 244
 | 243 | 243 | 250 | 260 | 268
 | 276 | 279 | 279 | 280 | 281
 | 282 | 283 | 285 | 288 | 290 | 296
 | 297 | 290 | 290 | 280
 | 269 | 258 |
| 2/7/2022 | 264 | 260 | 259
 | 260 | 267 | 284 | 309 | 330
 | 330 | 324 | 314 | 310 | 307
 | 304 | 302 | 302 | 305 | 311 | 344
 | 368 | 358 | 358 | 331
 | 310 | 298 |
| 2/8/2022 | 278 | 274 | 272
 | 273 | 279 | 294 | 316 | 339
 | 325 | 311 | 305 | 301 | 299
 | 299 | 300 | 302 | 305 | 308 | 314
 | 316 | 309 | 309 | 297
 | 284 | 270 |
| 2/10/2022 | 237 | 232 | 230
 | 230 | 233 | 302 | 362 | 410
 | 409 | 398 | 380 | 355 | 333
 | 313 | 308 | 307 | 301 310 | 303 | 312
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 | 425 | 426 | 426 | 411
 | 379 | 344 |
| 2/11/2022 | 298 | 294 | 294
 | 295 | 301 | 316 | 389 | 403
 | 372 | 328 | 307 | 300 | 296
 | 295 | 296 | 297 | 300 | 301 | 306
 | 305 | 298 | 298 | 285
 | 271 | 257 |
| 2/12/2022 | 251 | 245 | 242
 | 241 | 242 | 247 | 256 | 263
 | 271 | 274 | 275 | 277 | 278
 | 280 | 282 | 285 | 288 | 289 | 294
 | 294 | 287 | 287 | 277
 | 265 | 253 |
| 2/13/2022 | 260 | 235
281 | 233
 | 253 | 255 | 306 | 370 | 411
 | 412 | 411 | 406 | 295
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| 2/15/2022 | 318 | 316 | 317
 | 332 | 363 | 440 | 543 | 584
 | 566 | 529 | 488 | 444 | 410
 | 380 | 354 | 343 | 347 | 376 | 447
 | 486 | 490 | 490 | 477
 | 447 | 412 |
| 2/16/2022 | 352 | 351 | 356
 | 369 | 399 | 470 | 563 | 587
 | 547 | 482 | 419 | 365 | 329
 | 310 | 306 | 305 | 307 | 313 | 352
 | 374 | 363 | 363 | 335
 | 311 | 300 |
| 2/17/2022
2/18/2022 | 280 | 2/6 | 2/4 244
 | 2/5 | 280 | 294 | 283 | 328
 | 314 290 | 305 | 299 | 295 | 293
 | 294 292 | 295 | 297 | 300 | 301 | 306
 | 305 | 301 | 301 | 285
 | 270 | 256 |
| 2/19/2022 | 257 | 251 | 249
 | 249 | 251 | 258 | 269 | 278
 | 286 | 288 | 288 | 286 | 286
 | 286 | 286 | 288 | 290 | 294 | 302
 | 305 | 300 | 300 | 292
 | 282 | 271 |
| 2/20/2022 | 267 | 263 | 261
 | 261 | 264 | 273 | 286 | 296
 | 303 | 305 | 303 | 299 | 296
 | 294 | 292 | 292 | 295 | 300 | 311
 | 318 | 314 | 314 | 307
 | 299 | 289 |
| 2/21/2022 | 2/0 | 266 | 254
 | 260 | 2/0 | 282 | 300 | 307
 | 306 | 303 | 301 | 299 | 312
 | 296 | 296 | 353 | 358 | 353 | 302
 | 304 | 298 | 322 | 28/
 | 2/5 | 263 |
| 2/23/2022 | 264 | 257 | 253
 | 251 | 254 | 266 | 286 | 293
 | 295 | 301 | 307 | 321 | 349
 | 375 | 392 | 400 | 403 | 395 | 400
 | 390 | 354 | 354 | 313
 | 296 | 279 |
| 2/24/2022 | 268 | 260 | 255
 | 253 | 256 | 268 | 287 | 294
 | 297 | 305 | 313 | 348 | 382
 | 413 | 433 | 442 | 444 | 433 | 434
 | 421 | 382 | 382 | 329
 | 302 | 285 |
| 2/25/2022 | 269 | 261 | 256
 | 254 | 257 | 269 | 288 | 294
 | 298 | 307 | 324 | 362 | 399
 | 432 | 453 | 463 | 465 | 453 | 453
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| 2/27/2022 | 263 | 255 | 251
 | 248 | 249 | 253 | 261 | 267
 | 200 | 287 | 294 | 301 | 309
 | 323 | 338 | 346 | 348 | 342 | 346
 | 337 | 313 | 313 | 300
 | 287 | 273 |
| 2/28/2022 | 262 | 255 | 251
 | 250 | 253 | 265 | 285 | 292
 | 294 | 299 | 304 | 311 | 332
 | 355 | 371 | 380 | 384 | 378 | 384
 | 376 | 341 | 341 | 309
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| 3/4/2022 | 217 | 196 | 186
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| 3/10/2022 | 245 | 227 | 220
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| 3/11/2022 | 230 | 211 | 202
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| 3/12/2022 | 222 | 202 | 192
 | 187 | 191 | 207 | 237 | 266
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| 3/16/2022 | 245 | 219 | 205
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| 3/19/2022 | 279 | 249 | 230
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5/15/2022 5/16/2022	351 329	315 296	291 275	273 261	265 262	264 285	270 324	287 342	339 368	393 405	442 443	479 475	504 495	524 512	536 521	542 524	543 522	537 515	521 502	500 485	489 477	471 451	421 399	369 345
5/17/2022 5/18/2022	298	269	250 250	239 239	241 242	266	307 308	326	350	385	422 437	459 475	483 497	500	513	520 548	523	519	507	489 518	481	456	401 433	345
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5/22/2022 5/23/2022	321 312	289 282	266 262	251 250	244 252	245 276	253 317	270 336	319 365	369 407	412 452	453 485	481 511	499 534	510 552	516 566	518 574	513 572	499 558	480 535	471 521	443 498	395 454	346 392
5/24/2022 5/25/2022	338 345	304 311	283 289	269 275	269 275	292 297	331 335	349 355	380 387	425 433	471 477	499 506	525 533	546 557	563 575	575 587	580 595	576 590	560 574	537 549	523 534	500 509	458 471	397 409
5/26/2022 5/27/2022 5/28/2022	358 371 374	323 334 336	299 310 309	285 294 290	284 293 281	305 314 278	343 350 283	362 369 300	396 404 354	444 453 413	485 492 465	515 523 494	544 551 521	568 575 542	587 594 557	600 606 564	608 613 565	603 608	587 591 539	561 565 515	544 548 502	519 522 483	480 483 440	423 428 386
5/29/2022 5/30/2022	350 337	315 304	290 281	273 268	265 267	263 284	269 312	287 331	339 371	395 424	444 475	481 506	507 535	528 557	542 575	550 588	552 594	547	531 571	508 546	495 530	477 507	430 471	376 410
5/31/2022 6/1/2022	366 354	330 327	306 309	291 297	290 296	311 311	348 335	367 353	402 383	452 423	490 464	522 497	552 524	577 543	598 552	612 552	620 547	616 535	599 517	572 494	554 478	528 459	488 418	434 375
6/2/2022 6/3/2022 6/4/2022	342 368	316 339	299 320	289 308	289 306	305 320 281	330 343 290	349 362 296	382 395	424 438 291	469 481 417	508 518	540 548	567 572	585 584	596 588 451	601 586	595 575 407	577 555 299	548 527	525 508 367	500 485 259	458 444 226	410 399 207
6/5/2022 6/6/2022	290 316	270 293	255 277	246	243 270	243 287	246	265	308	352 393	390 429	425	455 486	475	488 510	496	497 506	493 497	478 481	456 462	439 448	421 428	386	349 350
6/7/2022 6/8/2022	312 320	290 297	275 281	266 272	268 273	285 289	312 315	331 334	358 359	394 393	432 429	467 462	492 485	511 501	522 506	526 503	525 497	517 486	502 471	481 452	466 439	445 421	404 383	362 344
6/9/2022 6/10/2022	302 285	280 265	266 252	258 246	260 249	278 268 248	305 296	323 315	345 339	373 371	402 405 784	429 437	448 462	461 480	462 491	457 496	446 497	432 491	418 478	403 459	395 444 704	381 424	349 385	313 344
6/12/2022 6/13/2022	293 324	272 300	257 284	249 275	245 276	245	248	267	311 366	355 402	395 442	432 476	462	483	497	506	509	505	490	468 486	451 471	432 450	395 409	357
6/14/2022 6/15/2022	328 333	304 309	287 292	278 283	279 283	295 299	321 324	339 343	368 373	405 412	445 454	480 489	506 517	526 539	537 552	541 558	540 559	532 551	516 534	493 510	477 492	457 470	415 428	372 384
6/16/2022 6/17/2022 6/18/2022	344 346 350	318 320 323	301 302 304	290 292 291	290 292 284	305 307 281	330 331 280	349 350 298	379 381 348	419 421 399	461 463 447	495 498 486	523 527 518	545 550 542	557 562 556	562 567 563	561 566 564	552 557 556	534 539 537	509 514 509	491 496 489	470 474 470	428 432 431	384 388 390
6/19/2022 6/20/2022	361 367	333 339	313 320	299 308	292 307	288 321	287 344	305 363	355 398	408 443	457 488	495 528	527 563	551 590	565 607	571 617	570 620	561 611	540 591	512 560	492 537	473 511	435 468	394 421
6/21/2022 6/22/2022	377 331	348 307	327 290	314 281	312 281	325 297	347 323	365 341	394 371	433 409	472 450	504 484	527 512	544 533	546 545	537 550	525 550	508 541	490 525	470 501	457 484	438 464	401 421	362 378
6/24/2022 6/25/2022	359 358 393	314 331 362	291 313 339	28/ 302 323	267 301 314	315 316 309	328 339 305	34/ 359 323	3/8 395 377	419 442 434	402 488 484	498 530 526	328 568 561	352 598 588		375 637 608	645 607	596	573	320 586 542	305 559 518	483 531 496	485 460	325 437 417
6/26/2022 6/27/2022 6/28/2022	388 369 277	357 341 249	335 322 279	319 310 216	310 308 214	304 322 237	301 345 250	319 364 269	370 398	424 443 451	472 487 496	510 526 529	541 559 572	564 585	573 600	574 609 676	568 610 629	555 600 620	533 580	506 550 567	487 528 612	469 503	433 462 472	393 415 (27
6/29/2022 6/30/2022	386	355 337	335 318	321 306	319 305	331 319	353 342	371 361	405	449 439	491 483	528 522	557 554	580 580	589 595	590 602	583 604	570	550 574	523 546	504 524	483	443 458	398 411
7/1/2022 7/2/2022	364 349	338 325	321 307	310 295	309 289	322 285	343 284	357 298	387 341	428 387 277	470 427	508 463	539 490	561 509	569 514	569 508	562 497	546 481	525 461	499 439	482 426	461 411	423 384 20-4	385 353
7/4/2022 7/5/2022	329 315	307 307 294	290 280	279 272	273 274	2/4 266 289	258 314	200 272 328	318 350	366 381	418 409 412	433 444 441	468 462	482	484 476	476	462	443 441	482 422 425	402 409	393 401	423 383 387	360 358	333 326
7/6/2022 7/7/2022	295 322	277 300	265 286	259 278	262 279	279 294	305 318	320 333	344 357	378 390	414 426	449 459	477 483	498 499	513 505	521 502	522 493	514 479	497 461	474 442	459 430	438 413	400 381	362 346
7/8/2022 7/9/2022 7/10/2022	314 349 357	294 324 332	281 307 313	274 295 300	275 289 294	292 286 290	316 285 289	332 299 302	359 346 346	398 395 193	439 441 436	478 482 472	512 516 501	536 539 519	554 553 574	564 559 518	568 557 507	561 546 490	542 524 469	515 496 446	495 477 433	471 457 417	429 422 389	389 387 358
7/11/2022 7/12/2022	338 355	315 331	300 314	291 304	291 303	306 317	329 338	344 353	373 382	413 422	456 465	496 503	528 533	552 555	570 567	577 568	576 563	566 549	546 528	518 502	498 484	474 463	434 425	393 386
7/13/2022 7/14/2022	355 394	331 365	315 345	305 331	304 329	319 340	340 359	356 372	391 402	437 442	487 484	533 521	574 545	607 562	633 563	651 551	660 534	653 512	629 489	593 467	564 454	533 436	486 404	440 369
7/16/2022 7/16/2022 7/17/2022	341 330 345	318 308 322	302 292 305	292 281 293	293 276 287	274 285	330 274 284	289 299	370 333 347	407 380 398	446 422 446	480 460 489	491 526	514 553	533 526 572	532 531 584	525 529 588	510 519 579	490 499 556	468 474 525	453 457 502	434 438 479	405	363 371 403
7/18/2022 7/19/2022	373 360	347 335	329 317	317 306	315 306	328 319	349 340	363 354	394 382	436 420	481 460	521 495	552 522	575 541	587 546	587 539	581 529	565 512	543 492	515 469	496 455	473 437	435 402	395 367
7/20/2022 7/21/2022 7/22/2022	338 363 334	315 337 312	300 320 297	291 308 288	292 308 789	306 320 304	329 342 327	345 356 342	375 383 370	417 421 409	461 461 450	502 496 488	536 522 519	563 539 543	583 543 556	593 536 561	596 524 560	587 506 548	567 486 528	537 464 502	515 451 484	489 433 461	447 399 422	405 364 383
7/23/2022 7/24/2022	345 340	321 317	304 300	292 289	286 283	283 281	282 280	296 295	340 341	387 390	429 435	468 475	498 509	518 533	526 548	525 554	518 555	504 545	483 523	459 495	443 476	427 455	396 421	364 385
7/25/2022 7/26/2022 7/27/2022	355 325 305	330 303 286	313 288 274	302 280 268	302 281 269	315 296 286	337 320 311	351 334 327	377 357 355	415 389 394	453 423 435	487 454 475	511 475 509	528 489 536	531 491 559	524 483 575	512 473 582	495 456 577	476 439 558	455 421 579	442 412 507	425 397 481	392 367 438	357 334 396
7/28/2022 7/29/2022	355 368	330 342	314 325	304 314	303 312	317 325	339 346	354 361	385 393	427 437	472 482	513 524	547 557	573 582	590 596	598 601	598 599	586 586	564 564	534 534	512 512	487 488	446 447	404 406
7/30/2022 7/31/2022	372 388	345 360	326 339	313 324	306 316	301 311	299 307	313 321	363 371	418 426	469 475	514 519	553 555	582	600 592	609 595	611 590	600 574	575 550	542 519	517 497	493 476	456	416
8/2/2022 8/2/2022 8/3/2022	382	3.53 3.52	333 332	322 321 318	319 317	336 333	367 364	380 375	414 413 401	465 442	510 483	550 512	582 532	608 544	621 541	627 526	625 508	614 488	592 468	565 448	548 443	518 419	407 477 382	418 426 344
8/4/2022 8/5/2022	317 330	295 306	280 289	272 280	274 282	295 302	329 335	342 348	368 372	409 411	452 453	489 487	515 510	535 527	545 533	548 529	547 520	537 508	521 492	501 474	491 464	462 436	416 395	371 353
8/6/2022 8/7/2022 8/8/2022	316 331 372	293 307 343	277 290 374	267 279 313	262 274 312	264 274 330	272 282 361	285 295 374	328 344 405	378 400 454	423 453 499	464 496 537	493 530 568	511 554 591	521 571 604	525 584 608	521 588 606	512 582 595	494 562 575	473 535 549	461 518 533	434 491 504	396 449 462	357 404 413
8/9/2022 8/10/2022	377 397	349 365	329 344	317 330	316 328	334 344	364 374	378 386	413 417	465 465	511 507	552 543	588 571	615 590	632 597	643 593	646 583	636 567	614 547	584 523	564 511	532 486	489 442	440 397
8/11/2022 8/12/2022	363 351	336 325	317 307	306 296	305 297	323 315	355 348	368 360	397 387	442 430	487 475	521 507	549 532	569 549	577 556	578 554	573 546	560 533	540 516	517 495	505 486	480 458 601	434 414 463	389 371
8/14/2022 8/15/2022	383 391	354	332 340	317 327	310	307 341	311 371	323 384	376 417	437	490	531 548	566 579	590 601	605 614	611 615	608 608	598	576 572	547 547	530	503 504	464 462	419
8/16/2022 8/17/2022	378 367	349 338	329 320	317 308	316 307	333 325	363 356	376 368	407 396	456 439	500 483	537 515	568 541	590 560	601 564	601 559	596 548	583 532	563 514	538 494	523 485	496 457	453 414	405 371
8/19/2022 8/19/2022 8/20/2022	359 352 364	314 326 336	297 308 316	288 298 303	289 298 296	309 317 295	342 349 300	355 363 313	383 393 364	427 440 424	4/5 487 479	510 523 519	553 555	560 575 580	5/4 588 597	578 593 604	576 590 605	580 597	547 561 576	524 537 547	511 522 529	484 495 502	437 450 462	391 402 417
8/21/2022 8/22/2022	383 348	352 322	331 305	315 295	308 295	305 314	309 347	320 360	368 390	424 436	474 484	508 519	534 549	551 570	555 583	549 588	537 587	521 576	500 558	479 533	467 519	441 492	406 446	368 399
8/23/2022 8/24/2022 8/25/2022	361 377 342	334 348 317	316 328 300	305 316 290	305 315 291	323 332 310	355 362 343	369 374 356	401 403 384	450 447 427	497 490 474	535 523 508	568 548 535	592 565 554	608 568 565	616 562 567	617 551 564	609 535 554	589 516 536	561 496 514	544 487 502	514 459 476	471 417 429	421 374 383
8/26/2022 8/27/2022	346 354	320 326	303 307	293 293	294 287	313 286	346 292	359 303	388 348	434 399	481 444	516 482	545 506	567 521	579 524	584 517	583 506	573 493	554 473	531 449	517 441	490 417	444	397 347
8/29/2022 8/29/2022 8/30/2022	325 338 320	301 313 297	284 296 282	273 287 273	269 288 275	2 /0 307 295	2/7 340 330	290 353 342	335 378 365	387 418 403	435 461 441	477 494 478	518 500	524 534 512	536 538 515	539 536 512	528 503	529 515 490	511 498 472	489 480 452	478 470 445	449 441 419	409 399 379	369 357 339
8/31/2022 9/1/2022 9/2/2022	307 342 246	286 319 221	272 303	265 293	268 293 294	289 312	324 343 242	339 354 251	367 373 263	410 410 202	458 454 422	498 499	529 540	552 572	571 594	583 607 476	588 611 459	583 598 424	565 570 412	541 544 402	525 522 209	496 479 272	449 429 241	399 386 209
9/3/2022 9/4/2022	284 306	266 286	253 272	246 263	243 259	248 264	260	271 286	299 321	336 366	370	403 454	435	461	477 568	487 592	490	481 603	459 576	441 547	429	399 479	363 430	329 388
9/5/2022 9/6/2022	352	327 327	308 311	295 300	289 300	285 318	285 349	295 360	336 380	386 419	435 466	482	522 557	549 591	564 614	568 629	564 635	545 623	515 594	489	472	437 496	401 443	367 398
9/8/2022 9/9/2022	352 328	327 306	310 291	299 282	299 283	317 302	347 334	357 345	374 361	409 394	448 430	489 470	524 505	550 532	561 548	563 555	557	540 539	513 513	492 492	476 476	439 438	398 396	359 357
9/10/2022 9/11/2022	323 322	300 300	285 284	274	270 269	272 272	282 282	292 292	323 324	365	403 404	441 443	477 481	503 508	519 524	526 532	526 534	512 521	486 495	465	450 456	417 423	381 386	346 350
9/13/2022 9/13/2022 9/14/2022	327 335 338	312 315	290 297 299	281 287 290	282 288 290	302 307 309	3.54 338 340	345 349 351	362 367 370	397 402 406	435 443 448	477 485 492	515 524 533	545 554 564	504 571 585	575 580 596	579 581 599	568 587	540 541 560	518 534	497 499 513	457 458 471	411 412 422	369 371 380
9/15/2022 9/16/2022	343 321	319 299	303 285	293 277	293 278	311 298	342 330	352 341	369 357	402 390	439 427	478 466	512 502	536 530	546 547	546 557	541 559	523 546	497 521	478 499	464 482	428 444	388 400	350 360
9/17/2022 9/18/2022 9/19/2022	325 332 341	303 309 317	287 292 302	276 281 292	272 276 292	274 279 311	283 287 342	294 298 353	326 332 372	369 376 408	409 417 451	449 460 495	488 500 535	517 530 566	534 549 587	543 559 598	546 561 601	533 549 588	506 522 561	483 498 535	466 479 514	431 442 473	393 402 424	357 365 381
9/20/2022 9/21/2022	347 343	323 319	306 303	296 293	296 293	314 311	345 342	356 353	375 370	411 404	454 443	497 484	536 520	567 547	584 561	593 565	593 563	578 547	550 520	526 499	506 482	465 444	418 401	377 362
9/22/2022 9/23/2022 9/24/2022	329 317 212	306 296 201	291 281 276	282 273	283 275 263	302 295 266	334 328 276	345 338 296	360 353 217	392 384 157	428 418 20.4	466 454 421	500 487 466	525 513 407	537 527 509	541 532 516	538 531 517	522 517 505	498 493 490	478 475	464 461	428 425 412	388 384 277	349 346 242
9/25/2022	316	295	2/0	±00 269	265	268	278	288	319	359	395	431	466	491	205	510	508	495	470	451	437	407	377	338

9/26/2022	314	293	279	271	273	293	326	337	351	381	415	451	484	509	523	528	526	512	488	470	457	422	381	343
9/27/2022	310	289	276	268	270	290	324	334	348	378	411	446	478	503	517	521	522	508	485	467	453	419	379	341
9/28/2022	306	286	272	265	267	287	321	331	344	372	404	434	463	486	496	498	493	478	456	441	431	400	362	326
9/30/2022	303	283	270	263	265	286	320	330	343	371	404	436	466	489	502	506	504	491	468	452	400	408	369	332
10/1/2022	296	276	262	252	249	251	261	272	295	327	356	385	417	443	459	467	467	455	428	420	397	369	338	308
10/2/2022	286	267	254	245	242	245	255	267	288	319	346	373	400	425	441	449	449	437	411	405	386	359	329	300
10/3/2022	277	259	248	242	245	265	297	309	314	334	358	383	408	431	446	454	455	444	421	417	396	367	332	300
10/5/2022	316	200	280	271	270	289	319	331	340	368	400	423	400	499	517	524	524	509	481	471	4/0	406	366	330
10/6/2022	301	281	268	260	261	280	310	322	330	356	384	418	450	478	496	505	506	493	467	458	433	395	357	322
10/7/2022	292	273	260	253	255	274	305	317	325	349	378	410	442	469	487	498	501	489	464	456	431	393	355	320
10/8/2022	289	270	257	248	245	248	257	269	292	325	356	387	421	450	471	484	490	481	454	443	418	384	351	319
10/10/2022	326	303	287	278	277	290	312	324	341	375	420	464	503	533	553	563	563	546	514	499	400	429	384	348
10/11/2022	325	303	288	279	279	296	325	338	351	383	425	470	513	550	578	597	606	595	565	546	511	464	410	367
10/12/2022	333	310	294	284	284	300	329	341	352	381	419	460	496	526	544	553	552	536	506	493	465	424	380	343
10/13/2022	314	293	279	270	271	288	318	330	341	369	402	441	478	509	530	542	545	532	504	492	463	422	377	340
10/15/2022	306	285	273	267	256	258	267	279	303	383	397	435	4/2	471	491	502	505	493	465	453	401	391	373	338
10/16/2022	303	282	268	258	254	256	265	277	300	335	366	398	433	462	481	491	493	482	454	443	418	384	352	320
10/17/2022	298	278	265	258	259	278	309	321	328	352	379	410	441	467	484	491	491	478	453	445	422	386	350	316
10/18/2022	286	268	256	249	251	270	302	314	320	343	370	398	428	454	472	482	483	471	447	440	417	383	346	312
10/20/2022	262	246	236	231	235	256	299	302	304	321	341	361	380	399	413	440	426	417	397	396	380	352	318	287
10/21/2022	263	247	237	232	236	256	290	302	305	323	344	366	386	406	421	430	434	425	404	402	385	356	322	290
10/22/2022	267	250	238	231	229	233	245	256	276	304	329	355	379	400	417	426	429	420	396	392	376	350	320	292
10/23/2022	271	253	241	234	232	236	247	259	279	309	336	363	389	415	434	445	449	441	416	409	389	361	330	301
10/25/2022	273	256	248	239	243	269	297	307	314 312	333	358	384	411 412	433	455	466	402 470	451	420	423	402	376	340	305
10/26/2022	271	254	244	238	241	261	294	306	310	329	351	373	394	416	431	438	439	429	408	405	387	359	325	293
10/27/2022	248	234	226	222	227	249	284	297	296	305	317	330	342	354	364	371	376	373	360	362	349	324	293	264
10/28/2022	244	231	223	220	226	248	283	296	295	303	312	323	334	344	353	361	366	364	352	356	343	318	288	260
10/29/2022	250	239	226	220	220	225	258	250	268	285	301	318 326	355 343	358	306	303	367 379	303	349	350	337	314 322	288 295	263
10/31/2022	261	245	236	232	237	258	293	306	309	324	342	360	378	394	409	418	422	415	397	397	382	355	322	292
11/1/2022	227	216	212	211	219	243	279	294	300	306	312	317	320	323	323	323	323	330	346	339	323	304	280	257
11/2/2022	235	225	221	221	229	253	288	302	305	307	309	311	313	315	317	317	317	324	338	329	314	294	270	246
11/3/2022	229	217	211	209	216	237	269	281	28/	294	302	401	435	325 463	330	332 496	331 497	496	344 495	350	432	290	203	238
11/5/2022	267	249	237	229	227	229	237	248	277	308	338	369	397	416	424	421	410	403	401	379	353	325	299	273
11/6/2022	247	231	221	215	214	217	226	238	264	292	315	339	363	380	388	387	380	376	378	357	333	310	285	261
11/7/2022	250	234	225	220	224	243	273	286	301	325	360	393	425	450	469	477	476	474	473	446	415	377	332	298
11/8/2022	263	246	235	230	233	251	280	292	306	332	365	397	425	447	458	458	450	443	442	419	390	356	318	287
11/10/2022	248	233	223	219	223	240	272	284	297	318	344	372	397	416	426	433	420	417	419	397	371	338	305	275
11/11/2022	236	222	213	210	214	230	253	266	282	304	327	352	371	384	390	388	379	372	375	357	334	310	283	257
11/12/2022	236	222	213	207	207	211	221	233	259	283	303	321	341	355	364	364	359	359	362	343	322	301	276	252
11/13/2022	232	218	210	205	205	210	220	232	256	280	297	313	328	341	349	350	346	346	351	333	314	294	270	247
11/14/2022	234	225	213	209	213	233	268	219	289 292	304	320	339	338	395	405	407	402	400	404	387	343	313	286	258
11/16/2022	232	219	212	208	214	234	266	278	288	301	316	332	349	362	370	372	368	369	375	358	335	310	281	253
11/17/2022	230	217	210	207	212	233	265	277	286	299	312	326	342	354	362	364	361	362	369	353	330	306	277	250
11/18/2022	226	213	207	204	210	231	263	276	283	294	305	317	328	338	345	347	345	347	355	341	320	298	270	244
11/20/2022	215	204	198	194	203	209	215	233	238	2/4	267	273	278	281	283	283	283	288	298	289	275	258	239	238
11/21/2022	217	207	203	202	210	233	268	283	288	293	297	300	303	304	306	306	306	312	325	319	305	285	261	239
11/22/2022	227	219	216	217	227	254	293	312	317	319	318	316	313	311	309	307	308	319	340	339	327	311	290	270
11/23/2022	245	237	234	235	246	272	310	325	326	324	319	316	313	311	310	309	310	319	337	332	320	302	280	259
11/25/2022	214	204	198	196	203	208	246	259	247	280	208	273	304	306	308	307	304	304	312	304	239	244	247	210
11/26/2022	233	221	215	211	214	222	236	252	275	293	304	314	322	327	330	329	327	334	346	336	321	304	284	264
11/27/2022	226	214	207	203	205	211	222	234	254	269	278	286	294	300	303	304	302	305	313	302	286	268	247	226
11/28/2022	222	210	204	202	208	230	262	275	282	291	300	310	319	326	332	334	332	335	345	331	313	291	264	238
11/30/2022	219	209	205	203	212	236	207	287	292	296	299	301	304	304	305	306	306	313	326	320	307	288	264	241
12/1/2022	255	243	240	244	261	301	362	391	393	391	387	376	362	351	343	339	348	377	400	402	401	396	382	355
12/2/2022	343	335	333	338	356	392	412	419	414	406	397	389	374	361	353	348	353	378	398	398	394	383	355	326
12/3/2022	280	265	257	254	258	268	282	297	313	315	309	305	304	303	303	305	307	321	341	328	310	290	262 328	232
12/5/2022	261	241	229	225	232	261	305	325	340	361	382	393	397	402	405	406	407	410	416	410	403	393	358	318
12/6/2022	237	219	210	208	216	245	289	308	316	325	332	341	347	352	357	360	363	375	392	382	363	337	301	264
12/7/2022	226	209	200	198	207	236	280	300	307	313	318	323	326	330	333	335	339	353	375	362	345	320	284	249
12/8/2022	252	232	220	215	221	249	290	309	322	341	361	380	390	395	399	401	401	404	409	403	395	374	333	292
12/10/2022	240	209	199	195	196	204	297	238	265	281	287	293	297	299	387	390	391	390	343	338	391	295	267	238
12/11/2022	254	235	224	218	220	229	246	267	300	326	343	357	368	376	380	381	382	392	398	394	384	363	334	303
12/12/2022	275	253	240	235	240	267	308	325	340	364	389	398	405	411	414	416	416	418	422	414	406	395	359	315
12/13/2022	263	241	228	222	228	254	295	313	328	353	378	393	400	405	410	411	411	413	417	410	402	391	350	307
12/14/2022	241 283	272	269	223	236	326	320	3.54	396	393	385	330	348	343	339	341	343	367	394	396	393	372	344	313
12/16/2022	291	277	270	270	281	314	361	379	379	375	372	370	370	372	373	374	375	390	398	394	383	358	323	287
12/17/2022	273	250	236	227	226	231	243	261	298	336	366	390	399	405	410	412	412	415	418	410	401	392	357	318
12/18/2022	260	241	231	226	229	240	260	283	314	338	349	358	363	366	366	364	365	380	395	392	382	364	339	310
12/19/2022 12/20/2022	242	225	218	216	225	255	299 283	317	321 310	322	323	325	327	329	333 354	336 357	339 360	353	375	362 378	344	319 333	283	247
12/21/2022	238	223	217	218	230	265	317	342	349	351	350	347	342	339	337	337	343	364	392	391	381	361	331	300
12/22/2022	266	254	251	254	270	309	366	391	392	390	381	369	357	348	341	339	346	372	397	398	395	388	361	333
12/23/2022	302	292	289	292	307	345	393	400	398	392	382	367	354	345	340	338	343	365	393	392	384	364	334	304
12/24/2022	275	265	262	264	275	290	314	345	372	380	373	358	340	322	307	297	301	327	368	376	377	372	361	345
12/26/2022	320	305	298	297	307	338	381	391	389	381	375	374	377	381	384	386	387	392	398	392	374	345	306	268
12/27/2022	255	234	222	217	223	250	291	310	324	344	365	387	393	398	402	404	404	407	412	405	397	380	338	297
12/28/2022	229	212	204	203	212	243	288	309	316	321	324	328	330	332	335	338	342	357	381	370	353	330	295	260
12/29/2022	259	249	247	252	271	315	380	399	401	399 476	394 419	389	373	358	347	341	350	384	404	408	408	405	398 402	387
12/31/2022	404	402	402	403	407	415	424	429	428	430	405	395	387	373	360	353	355	378	397	396	392	380	359	334

TYSP Year	2023
Staff's Data Request #	1
Question No.	5

		Actual	Demand	Estimated			System- Average
Year	Month	Peak	Response	Peak	Dav	Hour	Temperature
		Demand	Activated	Demand			
		(MW)	(MW)	(MW)			(Degrees F)
	1	663	n/a	n/a	1/24/2022	8:00	33.2
22	2	531	n/a	n/a	2/1/2022	8:00	40.6
	3	525	n/a	n/a	3/18/2022	18:00	88.4
	4	588	n/a	n/a	4/6/2022	17:00	88.5
	5	649	n/a	n/a	5/18/2022	17:00	93.3
	6	704	n/a	n/a	6/15/2022	17:00	96.7
50	7	690	n/a	n/a	7/13/2022	17:00	95.7
	8	694	n/a	n/a	8/23/2022	15:00	94.4
	9	676	n/a	n/a	9/6/2022	17:00	94.8
	10	576	n/a	n/a	10/10/2022	15:00	95.9
	11	597	n/a	n/a	11/6/2022	13:00	86.8
	12	620	n/a	n/a	12/25/2022	9:00	44.3
	1	509	n/a	n/a	1/19/2021	8:00	39.40
	2	605	n/a	n/a	2/4/2021	8:00	35.10
	3	576	n/a	n/a	3/31/2021	17:00	89.22
	4	591	n/a	n/a	4/29/2021	18:00	89.26
	5	645	n/a	n/a	5/5/2021	18:00	91.71
21	6	647	n/a	n/a	6/10/2021	17:00	93.27
50	7	677	n/a	n/a	7/26/2021	16:00	94.61
	8	692	n/a	n/a	8/18/2021	17:00	95.17
	9	636	n/a	n/a	9/13/2021	15:00	90.33
	10	638	n/a	n/a	10/7/2021	17:00	93.59
	11	472	n/a	n/a	11/3/2021	17:00	82.54
	12	457	n/a	n/a	12/10/2021	15:00	83.73
	1	600	n/a	n/a	1/22/2020	8:00	32.93
	2	468	n/a	n/a	2/13/2020	16:00	85.45
	3	579	n/a	n/a	3/30/2020	18:00	90.41
	4	585	n/a	n/a	4/13/2020	16:00	89.40
	5	633	n/a	n/a	5/21/2020	17:00	94.38
50	6	678	n/a	n/a	6/25/2020	16:00	96.69
50	7	659	n/a	n/a	7/13/2020	16:00	93.60
	8	657	n/a	n/a	8/27/2020	17:00	93.90
	9	666	n/a	n/a	9/4/2020	17:00	95.10
	10	608	n/a	n/a	10/8/2020	17:00	91.49
	11	510	n/a	n/a	11/1/2020	16:00	87.89
	12	519	n/a	n/a	12/9/2020	8:00	38.25
Notes							
(Include Notes Here)							

TYSP Year	2023
Staff's Data Request #	1
Question No.	22

	Number of	Number of Public	Number of Public	Cumulative Impact of PEVs			
Year	PEVs	PEV Charging	DCFC PEV Charging	Summer	Winter	Annual	
		Stations	Stations.	Demand	Demand	Energy	
				(MW)	(MW)	(GWh)	
2023	603	19	8	0.4221	0.4221	1.6683	
2024	652	19	8	0.4564	0.4564	1.8039	
2025	707	22	8	0.4949	0.4949	1.9561	
2026	757	24	8	0.5299	0.5299	2.0944	
2027	795	25	8	0.5565	0.5565	2.1995	
2028	833	28	8	0.5831	0.5831	2.3047	
2029	881	28	8	0.6167	0.6167	2.4375	
2030	949	30	8	0.6643	0.6643	2.6256	
2031	1021	31	8	0.7147	0.7147	2.8248	
2032	1087	33	8	0.7609	0.7609	3.0074	
Notes							
(Include Notes Here)							

TYSP Year	2023
Staff's Data Request #	1
Question No.	28

[Demand Response Source or All Demand Response Sources]									
Year	Beginning Year: Number of	Available C	apacity (MW)	New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
	Customers	Sum	Win		Sum	Win	1	Sum	Win
2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes									
(Include Notes Here)									

TYSP Year	2023
Staff's Data Request #	1
Question No.	29

[Demand Response Source or All Demand Response Sources]											
	Summer						Winter				
Year Number o Events	Number of	Average Event Size		Maxim	Maximum Event Size		Average Event Size		Maximum Event Size		
	Events	MW	Number of Customers	MW	Number of Customers	Events	MW	Number of Customers	MW	Number of Customers	
2013	0	0	0	0	0	0	0	0	0	0	
2014	0	0	0	0	0	0	0	0	0	0	
2015	0	0	0	0	0	0	0	0	0	0	
2016	0	0	0	0	0	0	0	0	0	0	
2017	0	0	0	0	0	0	0	0	0	0	
2018	0	0	0	0	0	0	0	0	0	0	
2019	0	0	0	0	0	0	0	0	0	0	
2020	0	0	0	0	0	0	0	0	0	0	
2021	0	0	0	0	0	0	0	0	0	0	
2022	0	0	0	0	0	0	0	0	0	0	
Notes											
(Include Notes Here)											

TYSP Year	2023
Staff's Data Request #	1
Question No.	30

[Demand Response Source or All Demand Response Sources]								
			Summer Peak			Winter Peak	Winter Peak	
	Average	Activated	Number of	Capacity	Activated	Number of	Capacity	
Year	Number of	During	Customers	Activated	During	Customers	Activated	
	Customers	Peak?	Activated		Peak?	Activated		
		(Y/N)		(MW)	(Y/N)		(MW)	
2013	0	Ν	0	0	N	0	0	
2014	0	Ν	0	0	N	0	0	
2015	0	Ν	0	0	Ν	0	0	
2016	0	Ν	0	0	N	0	0	
2017	0	Ν	0	0	Ν	0	0	
2018	0	Ν	0	0	Ν	0	0	
2019	0	Ν	0	0	Ν	0	0	
2020	0	Ν	0	0	Ν	0	0	
2021	0	Ν	0	0	Ν	0	0	
2022	0	Ν	0	0	Ν	0	0	
Notes								
(Include Notes Here)								

Loss of Load Probability, Reserve Margin, and Expected Unserved Energy									
Base Case Load Forecast									
		Annual Isolated			Annual Assisted				
	Loss of Load	Reserve Margin (%)	Expected	Loss of Load	Reserve Margin (%)	Expected			
	Probability	(Including Firm	Unserved Energy	Probability	(Including Firm	Unserved Energy			
Year	(Days/Yr)	Purchases)	(MWh)	(Days/Yr)	Purchases)	(MWh)			
2023		15	0		15	0			
2024		15	0		15	0			
2025		17	0		17	0			
2026		16	0		16	0			
2027	0.1*	15	0	0.1*	15	0			
2028	0.1	16	0	0.1	16	0			
2029		16	0		16	0			
2030		16	0		16	0			
2031		16	0		16	0			
2032		15	0		15	0			

Existing Generating Unit Operating Performance									
		Planned Ou	utage Factor	Forced Outage Factor		Equivalent Availability Factor		Average Net Operating	
		(PC	OF)	(FOF)		(E/	AF)	Heat Rate (ANOHR)	
Plant Name	Unit No.	Historical	Projected	Historical	Projected	Historical	Projected	Historical	Projected
Charles Larsen Memorial	GT2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Charles Larsen Memorial	GT3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Charles Larsen Memorial	8 CT	11.5	11	1.9	1.5	82.9	90	9.5	905
Charles Larsen Memorial	8	12.23	12	4.14	4	73.97	90	9	9
Winston Peaking Station	1-20	0	0	0.1	0	99.3	99	10	10
C.D. McIntosh, Jr.	D1	4.4	3	1.5	0.5	93.8	99	22	20
C.D. McIntosh, Jr.	D2	4.4	3	8.8	5	86.8	99	32	30
C.D. McIntosh, Jr.	GT1	0.1	0	0.5	0	99.4	99	15	15
C.D. McIntosh, Jr.	GT2	3.6	3	0.3	0	92.6	99	10	10
C.D. McIntosh, Jr.	3	N/A							
C.D. McIntosh, Jr.	5 CT	11.9	5	2.9	2	84.1	90	7.963	8
C.D. McIntosh, Jr.	5	12.12	5	2.99	2	83.75	90	7.3	7
NOTE: Historical - average of past three years									
	Projected	- average of ne	xt ten years						

TYSP Year	2023
Staff's Data Request #	1
Question No.	33

Question No.	33												
Facility Name	Unit No.	County Location	Unit Type ²	Primary Fuel ³	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Capacity Factor ⁴
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
Charles Larsen Memorial	GT2*	Polk	GT	NG	11	1962	10	14	10	14	10	14	0
Charles Larsen Memorial	GT3*	Polk	GT	NG	12	1962	9	13	9	13	9	13	0
Charles Larsen Memorial	8	Polk	CC	NG/DFO	4	1956	110	126	114	124	114.4	124.4	19
Winston Peaking Station	1-20	Polk	IC	DFO	12	2001	50	50	50	50	50	50	0
C.D. McIntosh, Jr.	D1	Polk	IC	DFO	1	1970	2.5	2.5	2.5	2.5	2.5	2.5	0
C.D. McIntosh, Jr.	D2	Polk	IC	DFO	1	1970	2.5	2.5	2.5	2.5	2.5	2.5	0.4
C.D. McIntosh, Jr.	GT1	Polk	GT	NG	5	1973	17	19	17	19	17	19	0.4
C.D. McIntosh, Jr.	GT2	Polk	ST	NG/DFO	6	2020	120	125	120	125	119.5	124.5	4
C.D. McIntosh, Jr.	5	Polk	CC	NG	5	2001	359	405	352	398	352	398	63
Notes													
² Unit Type ³ Primary Fuel CC Combined Cycle DFO Distillate Fuel Oil CT Combined Cycle Combustion BIT Bitumminous Coal GT Combustion Gas Turbine NG Natural Gas				⁴ 2022 Actu * in long terr	al Capacity Fa m maintenanc	actor e and are not	in operation	at this time.					

TYSP Year	2023
Staff's Data Request #	1
Question No.	34

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capa	Projected Capacity Factor	
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
C.D. McIntosh, Jr.	ME01-06	Lakeland, Polk County	IC	Gas	8	2024	120	120	120	120	120	120	20
Notes													
This project consists of ins	This project consists of installation of 6 units of 20 MW each RICE Engines.												

TYSP Year	2023
Staff's Data Request #	1
Question No.	35

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes													
There are no utility-owned	existing renew	able resources in	n Lakeland as o	f now.									

TYSP Year	2023
Staff's Data Request #	1
Question No.	36

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Projected Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes													

Nominal, Firm Purchases

		Firm Purchase
Year	Capacity *	\$/MWh
HISTORY:		
2020	N/A	N/A
2021	125	52
2022	125	91
FORECAST:		
2023	125	50
2024	135	60
2025		
2026		
2027		
2028		
2029		
2030		
2031		
2032		

TYSP Year	2023
Staff's Data Request #	1
Question No.	47

Seller Name Facilit	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Cap	acity (MW)	Net Capa	city (MW)	Contracted H (M	`irm Capacity W)	Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Orlando Utilities Commission	System	N/A	Orange	N/A	N/A	N/A	N/A	N/A	N/A	125*	125	4/1/2021	12/31/2024
Notes													
The contract MW will be	135 MW for summe	r 2024.											

TYSP Year	2023
Staff's Data Request #	1
Question No.	48

Seller Name Facility Name Unit	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
					Sum	Win	Sum	Win	Sum	Win	Start	End	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes													
(Include Notes Here)													

TYSP Year	2023
Staff's Data Request #	1
Question No.	49

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Cap	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End	
Longroad Energy Holding LLC	RP Funding Center	n/a	Lakeland, Polk County, Fl	PV	Sunlight	0.25	0.25	0.25	0.25	0.25	0.25	4/1/2010	3/30/2030	
Longroad Energy Holding LLC	Airport I	n/a	Lakeland, Polk County, Fl	PV	Sunlight	2.25	2.25	2.25	2.25	2.25	2.25	12/22/2011	11/1/2036	
Toroise Clean Energy Partners, LLC	Airport II	n/a	Lakeland, Polk County, Fl	PV	Sunlight	2.75	2.75	2.75	2.75	2.75	2.75	9/16/2012	8/31/2037	
TerraForm Power, LLC	Sutton	n/a	Lakeland, Polk County, Fl	PV	Sunlight	6	6	6	6	6	6	7/6/2015	7/1/2040	
Clearway Energy Group, LLC	Airport III	n/a	Lakeland, Polk County, Fl	PV	Sunlight	3.15	3.15	3.15	3.15	3.15	3.15	12/21/2016	11/30/2041	
Notes														
(Include Notes Here)														

TYSP Year	2023
Staff's Data Request #	1
Question No.	50

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes													
(Include Notes Here)													

TYSP Year	2023
Staff's Data Request #	1
Question No.	52

Buyer Name	Facility Name	ility Name Unit No. Coun		Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes	Notes												
(Include Notes Here)													

TYSP Year	2023
Staff's Data Request #	1
Question No.	53

Buyer Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes													
(Include Notes Here)													

TYSP Year	2023
Staff's Data Request #	1
Question No.	55

		Annual Renewable Generation (GWh)													
Renewable Source	Actual					Proj	ected								
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032				
Utility - Firm	0	0	0	0	0	0	0	0	0	0	0				
Utility - Non-Firm	0	0	0	0	0	0	0	0	0	0	0				
Utility - Co-Firing	0	0	0	0	0	0	0	0	0	0	0				
Purchase - Firm	0	0	0	0	0	0	0	0	0	0	0				
Purchase - Non-Firm	17	18	18	180	180	180	180	180	180	180	180				
Purchase - Co-Firing	0	0	0	0	0	0	0	0	0	0	0				
Customer - Owned	7	8	9	9	10	11	12	13	14	15	16				
Total	24	26	27	189	190	191	192	193	194	195	196				
Notes	Notes														
(Include Notes Here)															

TYSP Year	2023
Staff's Data Request #	1
Question No.	64

Project	Pilot	In-Service/	Max Capacity	Max Energy	Conversion
Name	Program	Pilot Start Date	Output (MW)	Stored (MHh)	Efficiency (%)
	(Y/N)	(MM/YY)			
Beirmann Tennis	Y	2018	0.4	0.8	70
Nodow					

(Include Notes Here)

TYSP Year	2023
Staff's Data Request #	1
Question No.	65

Project	Pilot	In-Service/	Projected	Projected	Projected
Name	Program	Pilot Start Date	Max Capacity	Max Energy	Conversion
	(Y/N)	(MM/YY)	Output (MW)	Stored (MHh)	Efficiency (%)
N/A	Ν	N/A	N/A	N/A	N/A
Notes					

(Include Notes Here)

TYSP Year	2023
Staff's Data Request #	1
Question No.	38

Year		As-Available Energy (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)
	2013	N/A	N/A	N/A
	2014	N/A	N/A	N/A
	2015	N/A	N/A	N/A
	2016	N/A	N/A	N/A
nal	2017	N/A	N/A	N/A
Act	2018	N/A	N/A	N/A
	2019	N/A	N/A	N/A
	2020	N/A	N/A	N/A
	2021	N/A	N/A	N/A
	2022	N/A	N/A	N/A
	2023	N/A	N/A	N/A
	2024	N/A	N/A	N/A
	2025	N/A	N/A	N/A
-	2026	N/A	N/A	N/A
scte	2027	N/A	N/A	N/A
roje	2028	N/A	N/A	N/A
đ	2029	N/A	N/A	N/A
	2030	N/A	N/A	N/A
	2031	N/A	N/A	N/A
	2032	N/A	N/A	N/A

TYSP Year	2023
Staff's Data Request #	1
Question No.	39

Concepting Unit Name	Summer Capacity	Certification Dates (i	if Applicable)	In-Service Date
Generating Unit Name	(MW)	Need Approved (Commission)	PPSA Certified	(MM/YY)
		Nuclear Unit Additions		
N/A	N/A	N/A	N/A	N/A
	Co	mbustion Turbine Unit Additi	ons	
N/A	N/A	N/A	N/A	N/A
		Combined Cycle Unit Addition	IS	
N/A	N/A	N/A	N/A	N/A
		Steam Turbine Unit Additions	5	
N/A	N/A	N/A	N/A	N/A
Notes				
(Include Notes Here)				

TYSP Year	2023
Staff's Data Request #	1
Question No.	41

	Unit	Unit	Fuel		Capacity Factor (%)									
Plant	No.	Туре	Туре	Actual	Actual Projected									
				2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Charles Larsen Memorial	GT2	GT	NG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Charles Larsen Memorial	GT3	GT	NG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Charles Larsen Memorial	8	СС	NG	19.00	22.00	47.00	29.00	45.00	37.00	38.00	30.00	38.00	50.00	50.00
Winston Peaking Station	1-20	IC	DFO	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C.D. McIntosh, Jr.	D1	IC	DFO	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C.D. McIntosh, Jr.	D2	IC	DFO	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C.D. McIntosh, Jr.	GT1	GT	NG	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C.D. McIntosh, Jr.1	3	ST	BIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C.D. McIntosh, Jr.	5	CC	NG	63.00	~ 73	~ 56	~70	~ 71	~66	~65	~66	~65	~65	~65
C.D. McIntosh, Jr.	GT2	GT	NG	4.00	4	<5	4	<5	4	<5	4	<5	<5	<5
Reciprocating Engines	ME01-06	RICE	NG	N/A	N/A	N/A	~20	~20	~20	~20	~20	~20	~20	~20
Notes														
*N . C	20. 6. 1	1 1	1 A 1		1 6 4	1 . 11	1	1 1 1 1	5 - C					

* Net Capacity Fcators; These capacity factors are based on assumption that no economy energy purchase from the market. Hence those numbers may be lower in reality.

TYSP Year	2023
Staff's Data Request #	1
Question No.	43

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYY)	Potential Conversion	Potential Issues
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
lotes					
Include Notes Here)					

TYSP Year	2023
Staff's Data Request #	1
Question No.	44

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYY)	Potential Conversion	Potential Issues
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Notes					
(Include Notes Here)					

TYSP Year	2023
Staff's Data Request #	1
Question No.	45

	Line Nominal		Date	Date	In-Service
Transmission Line	Length	Voltage	Need	TLSA	Date
	(Miles)	(kV)	Approved	Certified	
Hamilton-Dranefield 69 KV	5.5	69	N/A	N/A	Aug-24
Notes					
(Include Notes Here)					

TYSP Year	2	2023
Staff's Data Request #		1
Question No.	71	

Year	Estimated Cost of Standards of Performance for Greenhouse Gas Emissions Rule for New Sources Impacts (Present-Year \$ millions)								
	Capital Costs	O&M Costs	Fuel Costs	Total Costs					
2021	0	0	0	0					
2022	0	0	0	0					
2023	0	0	0	0					
2024	0	0	0	0					
2025	0	0	0	0					
2026	0	0	0	0					
2027	0	0	0	0					
2028	0	0	0	0					
2029	0	0	0	0					
2030	0	0	0	0					
Notes									
Not impacted by this rule.									

TYSP Year	2023
Staff's Data Request #	1
Question No.	73

	Unit	Fuel	Net Summer	Net Summer Estimated EPA Rule Impacts: Operational Effects							
T T 14	Туре	Туре	Capacity		ACE		CSAPR/ CAIR	CWIS	CCR		
Onic			(MW)	ELGS	ACE or replacement	MATS			Non-Hazardous	Special	
					*				Waste	Waste	
MGT2	CT	gas/oil	119.5		Х						
3	steam	coal/gas	342						Х		
5	CC	gas	352		Х						
8	CC	gas/oil	114.5		Х			Х			
Notes											
ACE or replacement: Unit 3 scheduled to be released arou	was our only uni ind April 2023).	t subject to ACE	. It was retired in	a April 2021. It i	s too early to kno	w whether there	will be any impa	cts to Units 5, 8, and MG	Γ2 from the ACE rule replace	ement (proposal	
MATS: Unit 3 was our only	unit subject to M	ATS. It was reti	red in April 2021								
CWIS: Unit 8's operation ma	y be limited to si	imple cycle only,	dependent on the	costs of CWIS	compliance strate	gies.					
CCR Non-Hazardous Waste:	CCR Material f	rom former Unit	3 continues to be	regulated even	though the Unit h	as been retired.					

TYSP Year	2023
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	Unit	Fuel	Net Summer								
Unit	Туре	Туре	Capacity (MW)	ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CO Non- Hazardous Waste	CR Special Waste	
MGT2	CT	gas/oil	119.5		***						
3	steam	coal/gas	342						15.6**		
5	CC	gas	352		***						
8	CC	gas/oil	114.5		***			1.0*			
Notes											
*Unit 8 - CWIS amount is de	ependent on the o	outcome of next j	permitting cycle a	and the engineeri	ng review of com	pliance strategies	3.				
**Unit 3 - CCR non-hazardous waste amount is an estimate for closure of the on-site landfill and elimination of the process ponds. EPA has indicated additional regulation of landfills closed prior to the CCR rule taking effect. This could lead to additional monitoring and closure costs. Until the rule is finalized, total economic effects cannot be quantified.											

***ACE: Unit 3 was our only unit subject to ACE. It was retired in April 2021. It is too early to know whether there will be any impacts to Units 5, 8, and MGT2 from the ACE rule replacement (proposal scheduled to be released around April 2023).

TYSP Year	2023
Staff's Data Request #	1
Question No.	75

	Unit Fuel Net Summer Estimated EPA Rule Impacts: U (Month/Year - Dura									nit Availability ion)			
Unit	Туре	Туре	Capacity				CSAPR/		CCR				
			(MW)	ELGS	ACE or replacement	MATS	CAIR	CWIS	Non- Hazardous	Special			
									Waste	Waste			
MGT2	CT	gas/oil	119.5		**								
5	CC	gas	352		**								
8	CC	gas/oil	114.5		**			*					
Notes													
*Unit 8 CWIS - If physical changes are needed to comply with the rule, they will be combined with planned outages for implementation.													
**ACE: Unit 3 was our only unit subject to ACE. It was retired in April 2021. It is too early to know whether there will be any impacts to Units 5, 8, and MGT2 from the ACE rule replacement (proposal scheduled to be released around April 2023).													

TYSP Year	2023
Staff's Data Request #	1
Ouestion No.	77

Year		Urai	nium	С	oal	Natur	al Gas	Resid	ual Oil	Distill	ate Oil	Hydrogen	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
	2013	0	N/A	786	3.99	2018	3.89	0.00	19.19	0.00	24.48	0	N/A
	2014	0	N/A	278	3.59	1714	4.53	0.00	20.22	0.00	26.18	0	N/A
	2015	0	N/A	788	3.32	2204	2.72	0.00	12.32	0.00	17.04	0	N/A
	2016	0	N/A	805	3.16	1857	2.54	0.00	10.75	0.00	15.72	0	N/A
nal	2017	0	N/A	846	2.78	1589	3.05	0.00	9.34	0.00	12.92	0	N/A
Act	2018	0	N/A	969	2.76	2270	3.20	0.00	N/A	0.00	16.49	0	N/A
	2019	0	N/A	548	2.64	2382	2.75	0.00	N/A	0.00	16.60	0	N/A
	2020	0	N/A	385	2.45	2063	2.72	0.00	N/A	1.00	13.79	0	N/A
	2021	0	N/A	500	2.45	2259	3.89	0.00	N/A	2.41	15.15	0	N/A
	2022	0	N/A	0	N/A	2477	7.39	0.00	N/A	0.00	18.39	0	N/A
	2023	0	N/A	0	N/A	2752	3.45	0.00	N/A	1.00	22.73	0	N/A
	2024	0	N/A	0	N/A	2719	4.07	0.00	N/A	5.00	18.87	0	N/A
	2025	0	N/A	0	N/A	2955	3.95	0.00	N/A	1.00	22.39	0	N/A
-	2026	0	N/A	0	N/A	3197	4.06	0.00	N/A	1.00	23.39	0	N/A
ecte	2027	0	N/A	0	N/A	2965	4.08	0.00	N/A	0.00	24.66	0	N/A
roj	2028	0	N/A	0	N/A	2917	4.19	0.00	N/A	2.00	25.79	0	N/A
-	2029	0	N/A	0	N/A	2844	4.30	0.00	N/A	2.00	26.81	0	N/A
	2030	0	N/A	0	N/A	2516	4.37	0.00	N/A	2.00	27.85	0	N/A
	2031	0	N/A	0	N/A	3234	4.46	0.00	N/A	4.00	29.09	0	N/A
	2032	0	N/A	0	N/A	3234	4.56	0.00	N/A	9.00	30.22	0	N/A
Notes													
(Include Notes Here)													