May 1, 2025

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

Re: 2025 Ten Year Site Plan – Staff's Data Request #2

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 #2, 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
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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 (2025-2034) in PDF format.

   Submitted on April 1, 2025.

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, 2024.

3. Please refer to the Excel Tables File tabs listed below. 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.

   a. Excel Tables File (Financial Assumptions)
   b. Excel Tables File (Financial Escalation)

   Attached in Excel File.

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 10, 2024, to November 3, 2024).

   Not Applicable (N/A)

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 Weather-Link 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 averages of the validated temperatures are 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:

   a. Methodology.
   b. Assumptions.
   c. Data sources.
   d. Third-party consultant(s) involved.
   e. Anticipated forecast accuracy.
   f. 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 2025 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.

DN 20250000-OT (Undocketed)	2025 Ten-Year Site Plan Review - Staff's Data Request #1 Question No. 2-82 -Supplemental
DN 20250000-OT (Undocketed)	Review of the 2025 Ten Year Site Plans for Florida's Electric Utilities Page 1 of 1 Staff's Data Request #2

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.
    b. If your response is negative, please explain.

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 1st through Sept 30th). 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 2009. Spreadsheet titled LAK2025TYSP_SUP_ErrorFans.xlsx contains both actual and weather normalized values where applicable. Data goes back to 2009 and has been updated with 2024 actuals

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.
    b. If your response is negative, please explain why.

Please see response to question 9 a.

11. Please explain any historic trends or other information as requested below 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 that contribute to the growth/decline in the trends.

Self Service – cogeneration non solar

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 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 that contribute to the growth/decline in the trends.

Lakeland used to be winter peaking. 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 become summer peaking in the 10-year forecast horizon.
Summer peaks in Lakeland are less volatile than winter peaks and have been growing at a slightly faster pace, on a weather normalized basis.

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 0.9 % a year. This is because positive customer growth rates are expected to compensate for average use declines.

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 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.

12. Please explain any current and forecasted trends or other information as requested below 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 that contribute to the growth/decline in the trends.

Please see response to question 11a.

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

Please see response to question 11c.

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 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.

13. **[FEECA Utilities Only]** Do the Company's energy and demand savings amounts reflected on the DSM and Conservation-related portions of all energy and demand savings schedules (Schedules 2.1, 2.2, and 2.3 for energy savings and Schedules 3.1, 3.2, and 3.3 for demand savings) reflect the Company's goals that were approved by the Commission in the 2024 FEECA Goalsetting dockets? If not, please explain what assumptions are incorporated within those amounts, and why.

N/A

14. 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.

15. 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:
        (1) How many years' historical weather data was used in developing each retail energy sales and peak demand model.
        (2) 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 retail energy sales or demand outputs for each planning years 2025–2034) were derived/obtained for the respective retail energy 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.

16. **[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.
g. Schedule 4 - Previous Year and 2-Year Forecast of Peak Demand and Net Energy for Load by Month.

Not Applicable.

17. 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 2025 TYSP, we adjusted our forecast to subtract out projected customer owned solar generation from total sales.

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 2025 through 2034.

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)
2025	20,515
2026	23,086
2027	25,657
2028	28,227
2029	30,798
2030	33,369
2031	35,940
2032	38,511
2033	41,082
2033	43,653
2034	46,224

c. If the Utility maintains a forecast for the planning horizon (2025-2034) 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
2025	2,537
2026	2,885
2027	3,232
2028	3,580
2029	3,927
2030	4,275
2031	4,622
2032	4,969
2033	5,317
2034	5,664

Plug-in Electric Vehicles (PEVs)

18. Please refer to the Excel Tables File (PEV 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.

    Excel File Attached.

19. Please describe what method(s) the Utility has used, if any, to address the impact of PEVs charging on seasonal peak demand, including any special rates or tariffs, demand-side management programs (including PEV-centric demand response), customer education, or other means. As part of your response, identify each and provide the estimated impact on seasonal peak demand.

    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.

20. Please explain any historic trends related to the following:
    a. PEV counts
    b. PEV charging installation counts
    c. Annual energy consumption
    d. Seasonal Peak Demand (Summer and Winter)

Polk County Florida has historically lagged both National and Florida averages for PEV growth. As such, the effects on annual energy consumption and peak demand have not been noticeable at a macro level at this time. We do not offer programs or tariffs to customers related to PEVs.

21. Please explain any current or forecasted trends related to the following:
    a. PEV counts
    b. PEV charging installation counts
    c. Annual energy consumption
    d. Seasonal Peak Demand (Summer and Winter)

There are no expected variations to the historical trends in Polk County and the Lakeland Electric service territory at this time. We anticipate that PEV growth will continue at a slow, but steady, rate and that present efforts to deal with general load growth will be sufficient to encompass PEV growth.

22. 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.

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

Lakeland Electric does not offer any PEV dedicated Rates or Programs. However, the shift-to-save rate structure allows all customers, including PEV drivers, to manage their energy usage by choosing to utilize off-peak rates. PEV drivers who utilize a shift-to-save plan can schedule their charging activities away from peak hours, thereby removing the peak demand strain due to PEV charging.

23. 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.

Yes. Lakeland Electric partnered with The Energy Authority to conduct a full investigation into PEV growth in multiple scenarios, and its impact to energy requirements and peak demand. The study utilized data from NREL, EIA, and actual PEV registrations via the Florida DMV which was entered into a Plexos model to project PEV growth in Lakeland Electric's service territory under expected conditions, high oil price conditions, and incentivized conditions. The models give Lakeland Electric multiple growth curves that can be tracked against actual growth over

time to provide predictive analysis of when PEV growth will rise to the level of concern beyond expected load growth writ large. At present the findings indicate that even at the most aggressive levels, the effects of PEV growth in Lakeland Electric's service territory will not rise to a concerning impact on our system until 2033 at the earliest.

24. Please describe if and how the 2024 presidential election and the new administration has impacted the Company's projection of PEV growth and related demand and energy growth.

We do not anticipate any major changes to PEV growth from expected levels in our service territory due to the administration changes. As Polk County is not an aggressive growth area, any reduction due to removal of incentives will be minimized

25. If applicable, please list and briefly describe all PEV pilot programs the Company is currently implementing and the status of each program.

    N/A

26. 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

27. **[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.

    N/A

28. **[FEECA Utilities Only]** Please refer to the Excel Tables File (DR Annual Activation). 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.

    N/A

Generation & Transmission

Utility-Owned Resources

29. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on the utility-owned generation resources for the time period listed. When

completing the tables, please consider the following factors: (i) for multiple small (<0.25 MW) distributed resources of the same type and fuel source, provide a single entry; (ii) for solar facilities, if available, provide the nameplate DC capacity as the gross capacity, the nameplate AC capacity as the net capacity, and the firm contribution during time of system peak as the firm capacity. If a solar facility is combined with an energy storage system, identify the capacity of the energy storage system in a separate line.

a. Excel Tables File (Existing Utility), including each utility-owned generation resource in service as of December 31 of the year prior to the current planning period.

   Excel file attached.

b. Excel Tables File (Planned Utility), including each utility-owned generation resource that is planned to enter service during the current planning period.

   Excel file attached.

30. For each planned utility-owned generation resource or group of resources, provide a narrative response discussing the current status of the project.

    There is no current utility-owned generation resource this time. Lakeland Electric just installed 120 MW RICE Engines.

31. 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?

    There is no utility-owned renewable resource that has been cancelled, delayed ot reduced in scope in the past year.

32. Discuss the impact of any recent federal actions on permitting for renewable generation. As part of your discussion, identify what projects, if any, were impacted and what those impacts were.

    None.

33. Please refer to the Excel Tables File (Planned PPSA). Complete the table by providing information on each planned generation resource that requires siting under the Power Plant Siting Act. For each planned unit, provide the date of the Commission's Determination of Need and Power Plant Siting Act certification, if applicable.

    N/A

34. Please refer to the Excel Tables File (Planned Construction). Complete the table by providing information on all planned generating units with an in-service date within the current planning period. For each planned unit, provide the final decision ("drop dead") date for a decision on

whether or not to construct each unit, and the estimated dates for site selection, engineering, permitting, procurement, and construction.

N/A

35. Please refer to the Excel Tables File (Unit Performance). Complete the table by providing information on each utility-owned generation resource in service during the current planning period. For historic performance, use the past three years for a historical average. For projected performance, use an average of the next 10-year period for projected factors.

    Excel file attached.

36. Please refer to the Excel Tables File (Unit Dispatch). 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.

    Excel file attached.

37. **[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.

    N/A

38. **[Investor-Owned Utilities Only]** Please refer to the Excel Tables File (Solar and Storage Sites). Complete the table by providing information on each of the Company's existing and planned solar and/or energy storage facilities, including the Order and date of Commission approval (or pending if not yet approved). Identify the associated cost recovery mechanism (such as in a base rate case, the environmental cost recovery clause, solar base rate adjustment, or special tariffs such as SolarTogether, SolarTogether Extension, and Clean Energy Connection) for each facility as well.

    N/A

39. In its planning process, did the Company consider constructing any solar or energy storage facilities that are co-located with other uses such as parking areas, waterways, existing buildings (including rooftops), or substations? If not, explain why not. If so, explain whether the analysis selected any facilities of this type and identify them.

    Lakeland Electric did not consider as there are still studies being planned before they are implemented.

40. Please refer to the Excel Tables File (Unit Modifications). Complete the table by providing information on all of the Company's units that are either will or are potential candidates to change fuel types or be repower, such as conversion to a Combined Cycle unit component.

N/A

41. 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.

    Excel File Attached. But the transmission line under construction does not need TLSA approval.

Power Purchase and/or Sale Agreements

42. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on each power purchase agreement (PPA) for the time period listed. If the PPA is associated with a particular generating unit(s), provide additional information about those units if available. When completing the tables, please consider the following factors: (i) for multiple small (<0.25 MW) distributed resources of the same type and fuel source, provide a single entry; (ii) for solar facilities, if available, provide the nameplate DC capacity as the gross capacity, the nameplate AC capacity as the net capacity, and the firm contribution during time of system peak as the firm capacity. If a solar facility is combined with an energy storage system, identify the capacity of the energy storage system in a separate line.

    a. Excel Tables File (Existing PPA), including each PPA 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.
    b. Excel Tables File (Planned PPA), including each PPA pursuant to which energy will begin to be delivered to the Company during the current planning period.

    Excel Files attached.

43. For each planned power purchase agreement, provide a narrative response discussing the current status of the associated generating project.

    The planned solar PPA project has obtained regulatory approval but will start construction soon.

44. Please list and discuss any long-term power purchase agreements 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?

    N/A

45. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on each power sale agreement (PSA) for the time period listed. If the PSA is associated with a particular generating unit(s), provide additional information about those units if available. When completing the tables, please consider the following factors: (i) for multiple small (<0.25 MW) distributed resources of the same type and fuel source, provide a single

entry; (ii) for solar facilities, if available, provide the nameplate DC capacity as the gross capacity, the nameplate AC capacity as the net capacity, and the firm contribution during time of system peak as the firm capacity. If a solar facility is combined with an energy storage system, identify the capacity of the energy storage system in a separate line.

a. Excel Tables File (Existing PSA), including each PSA still in effect by December 31 of the year prior to the current planning period pursuant to which energy was delivered by the Company during said year.
b. Excel Tables File (Planned PSA), including each PSA pursuant to which energy will begin to be delivered by the Company during the current planning period.

N/A

46. For each planned power sale agreement, provide a narrative response discussing the current status of the agreement.

N/A

47. 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?

N/A

Renewable Generation

48. Please refer to the Excel Tables File (Renewables). 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.

Excel File Attached.

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

Lakeland Electric has entered into a Power Purchase Agreement with Edge Solar to provide a 74.8MW solar facility to come online in March 2027. This will augment the 15MW of existing utility scale solar generation presently on the system. Lakeland Electric also offers a net metering program for residential and commercial solar generation. In order to ensure customers are able to make informed decisions regarding renewable generation behind the meter, Lakeland Electric offers free Energy Analyst services where analysts will visit with residents or commercial customers and discuss their usage history, offer recommendations on energy efficiencies, and provide insight into expected benefits of renewable generation.

50. 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.

N/A

a. Please describe any such programs in development with an anticipated launch date within the current planning period.

N/A

Energy Storage

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

Lakeland Electric has explored various technologies including progress in sodium-ion energy storage as well as long duration storage such as iron-air batteries, vanadium and non-vanadium based redox flow batteries, pumped hydro, compressed air, compressed CO2, and liquified nitrogen storage. Lakeland has not yet chosen a technology to pilot and will continue to research energy storage progress.

52. 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

53. 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).

Lakeland Electric recognizes that there are two distinct benefits to our system based on energy storage. Large capacity centralized storage can be used for solar shifting whereas distributed storage located at distribution substations can be used to ease transformer congestion at peak. At present the economics of energy storage are marginal, and we will continue to evaluate energy storage as the technology and economics continue to mature.

54. 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.

N/A

55. Please refer to the Excel Tables File (Existing 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.

    N/A

56. Please refer to the Excel Tables File (Planned 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.

    N/A

57. 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.

    Lakeland Electric has not begun any pilot programs on energy storage greater than 2 MW, but continues to evaluate all technologies for benefits to the utility and its ratepayers. Lakeland Electric is committed to providing affordable, dependable, sustainable power, and believes that energy storage will play a part in its portfolio.

    b. Please provide a brief assessment of how these benefits, risks, and operational limitations may change over the current planning period.
    c. Please identify and describe any plans to periodically update the Commission on the status of your energy storage pilot programs.

N/A

Reliability

58. Please refer to the Excel Tables File (Reliability). Complete the table by providing the loss of load probability, reserve margin, and expected unserved energy for each year of the planning period.

    Excel File Attached.

59. Describe in detail the methodology the Utility used to determine the seasonal firm capacity contribution of its solar facilities or purchases and provide the percentage contribution for each facility, if applicable. As part of this discussion, please explain whether the Company's existing and/or future solar facilities shift the hour of system peak demand for reliability planning purposes net of solar generation.

Currently, Lakeland Electric considers the firm capacity contribution from utility-scale solar to be 50% of installed capacity during the summer and none during the winter. At present, LE has 14 MW of solar capacity. However, with the planned addition of 74.8 MW in 2027, the resulting shift in net load will become more significant, and reliability options will be evaluated accordingly.

60. **[Investor Owned Utilities Only]** Please refer to Excel Tables File (Firm Solar). Provide an example hourly contribution of the Company's generating units compared to the system demand for a typical seasonal peak day for each season (Summer and Winter). As part of this response, provide the typical hourly demand and contribution of non-firm renewable resources (such as solar or wind), energy storage (charging and discharging separately), nuclear, natural gas, coal, oil, firm renewables, all other generation, purchased power, power sales, and demand response, if applicable.

    N/A

61. 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 has not yet utilized battery storage to firm up non-firm solar capacity. However, a comprehensive study is being planned to determine the optimal mix of solar and storage.

    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.

    No experience so far.

Environmental

62. Please explain if the Company assumes carbon dioxide (CO_2) compliance costs in the resource planning process used to generate the resource plan presented in the Company's current planning period TYSP.

    No, Lakeland Electric does not assume these compliance costs in its Resource Planning Process.

    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.

       N/A

    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.

    N/A

    c. **[Investor-Owned Utilities Only]** Please provide a revised resource plan assuming no CO2 compliance costs.

       N/A

63. 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) Rule 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 15%, Lakeland is required to endeavor an intensive thermal study. Additionally, Larsen intake structures will need to be reconfigured to meet the stricter standards as determined by the Florida Department of Environmental Protection prior to the NPDES (National Pollutant Discharge Elimination System) permit renewal in 2028. LAK is planning to install the upgraded CWIS during FY 2026. During FY 2026/27 the system will be optimized.

    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 identified and delineated. However, there are no off-site impacts. With the retirement of Unit 3 coal fired plant in 2021, the landfill has undergone permanent closure with an impermeable cap. The cap eliminates rainwater from

entering the landfill, which will help control the source material and its resulting groundwater impacts.

64. 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 added six new generation sources in the form of six natural gas-powered Reciprocating Internal Combustion Engines (RICE), each rated at ~20 MW, but RICE units are exempt from the NSPS GHG rule.

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

65. 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, a coal fired power unit. 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.

No reliability impacts are expected. Upgraded cooling water intake structures will be installed in FY 2026.

d. Coal Combustion Residuals (CCR) Rule.

While the coal burning unit has been retired, costs for compliance directed toward complying with the CCR rule and upcoming Legacy CCR rule divert money that could be used for reliability upgrades.

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

No reliability impact expected.

f. Affordable Clean Energy Rule or its replacement.

No reliability impact expected from the ACE rule or its replacement; Units 5, 8, and MGT2 are not impacted by the ACE rule replacement that was finalized in April 2024.

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 which eliminated wastewater associated with coal burning.

66. 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."

67. 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."

68. 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".

69. 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.

    Lakeland recently executed a 25-year power purchase agreement with a private entity, Edge Solar LLC to purchase 74.8 MWs of solar energy. This will potentially offset the need to build other generating options that may require environmental compliance investments.

Fuel Supply & Transportation

70. Please refer to the Excel Tables File (Energy Rates). Complete the table by providing information on the Utility's firm capacity and energy purchases, non-firm energy purchases, and the utility's as-available energy rate. If the Company uses multiple areas for as-available energy rates, please provide a system-average rate as well.

    Please see Excel File attached.

71. 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.

    Please see Excel File attached.

72. 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 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.

73. 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.

Not applicable to Lakeland Electric portfolio.

b. Natural Gas.

Natural gas prices strengthened in 2024 and will continue to move upward in 2025. LNG exports are expected to increase due to growing global demand, with markets in Asia growing particularly strongly. The EIA forecasts a 19% increase in LNG exports from the United States this year. Storage levels are projected to end this injection season at 3,660 Bcf, below the 5-year average. The reduction in storage will continue according to their predictions and will support higher pricing in 2026. The EIA forecasts that the Henry Hub spot price will average around $4.20 per million British thermal units (MMBtu) in 2025 and near $4.50/MMBtu in 2026.

c. Nuclear.

Not applicable to Lakeland Electric portfolio.

d. Fuel Oil.

The U.S. Energy Information Administration (EIA) projects prices to slightly decline following a small reduction in demand. Production from both OPEC and non-OPEC countries is expected to increase while demand may be reduced to pre-pandemic levels. This will contribute to the growth of oil reserves.

e. Other (please specify each, if any).

74. Please provide a comparison of the Utility's 2024 fuel price forecast used to prepare its 2024 TYSP and its actual 2024 delivered fuel prices.

a. Coal – Not applicable.
b. Natural Gas - Lakeland Electric predicted a 2024 average natural gas price of $4.32 per MMBtu. The average price for natural gas was $3 per MMBtu.
c. Nuclear - Not applicable.
d. Fuel Oil – Lakeland Electric predicted a 2024 average distillate oil price of $18.87 per MMBtu. The true price was an average of $16.14.
e. Other (please specify each, if any) – Not applicable.

75. Please explain any notable changes in the Utility's forecast of fuel prices used to prepare the Utility's current TYSP compared to the fuel price used to prepare the Utility's prior 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 to ensure potential market volatility is considered.

76. 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 gas to our plants. All deliveries from the three pipelines come to Lakeland ultimately through FGT. Additional capacity on FGT was purchased to secure more firm transportation rights to meet our peak load and future load growth.

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

Emerging Technologies

77. **[FEECA Utilities Only]** Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on the data centers for the time period listed.

    a. Excel Tables File (Existing Data Centers), including for data centers being served as of December 31 of the year prior to the current planning period.
    b. Excel Tables File (Planned Data Centers), including for data centers that are planned during the current planning period.

    N/A

78. With respect to the load forecast included in the Utility's 2025 Ten-Year Site Plan to be filed in April this year, does the load forecast include projections of annual energy consumption and demand associated with data centers within your service area during the forecasting time horizon (2025-2034)?

    a. If any such projections have been made, please provide details of the projections including the type of data centers expected to contribute to such energy/demand, and what factors are driving such energy consumption and demand.
    b. If no specific projections have been made, what does the Utility believe is the likely pattern of load growth associated with this industry within its service territory?

    N/A

79. Please identify the Utility's issues and/or concerns, if any, that are expected to result from the growth in data centers in your utility's service territory. Please also specify how has, and how does, your utility anticipate responding to such issues or concerns.

    The utility has not seen any commitment from data centers load yet, but Lakeland Electric is closely monitoring on both supply and transmission and distribution facilities very closely to accommodate if needed.

80. **[FEECA Utilities Only]** 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 the timing of such implementation. In addition, discuss how any anticipated benefits will affect your customers.

    N/A

81. Has the Utility employed, or considered using, any type of the artificial intelligence and/or other new technologies/tools in its load forecasting, operation, customer service, and cybersecurity management? Please explain your response.

    Not yet determined if there is any need of Artificial Intelligence in load forecasting and utility data analytics.

82. Please identify and discuss emerging power generation and consumption technologies your Company is considering. As part of this response, please describe any formal steps the Company has or will take for possible implementation of the technology.

    Lakeland Electric has engaged a Manager of Emerging Technology whose responsibilities include the research and evaluation of all new technologies related to power generation, transmission and distribution, energy storage, artificial intelligence, and new technologies that will impact the electric utility, including electric vehicles, the electrification of industry, and the evolution of energy efficiency. Each program is measured in a cost-benefit manner with the customers of Lakeland Electric as the beneficiary of all programs so that we can further our mission to provide affordable, dependable, sustainable power. As a technology is selected for pilot, the project is developed utilizing both internal and external resources, during the pilot phase it is studied to confirm the expected benefits and costs, and then if successful, plans for wide-spread deployment are developed and implemented. Lakeland Electric believes that a modern utility must be flexible in its approaches and able to react to changes in technology as they occur but recognizes that technology will mature, and strategies need to be nimble enough to evolve with the pace of technology.

TYSP Year 2025

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Notes: N/A - Not Applicable

Financial Assumptions			
Base Case			
AFUDC Rate		(%)	N/A
Capitalization Ratios	Debt	(%)	N/A
	Preferred	(%)	N/A
	Equity	(%)	N/A
Rate of Return	Debt	(%)	N/A
	Preferred	(%)	N/A
	Equity	(%)	N/A
Income Tax rate	State	(%)	N/A
	Federal	(%)	N/A
	Effective	(%)	N/A
Other Tax Rate:		(%)	N/A
Discount Rate:		(%)	N/A
Tax - Depreciation Rate:		(%)	N/A

Financial Escalation Assumptions				
Year	General Inflation (%)	Plant Construction Cost (%)	Fixed O&M Cos (%)	Variable O&M Cost (%)
2025	3.1%	4.1%	2.4%	2.2%
2026	2.6%	-0.4%	2.3%	2.1%
2027	2.4%	2.0%	2.2%	2.0%
2028	2.4%	2.0%	2.2%	2.0%
2029	2.4%	2.0%	2.2%	2.0%
2030	2.4%	2.0%	2.2%	2.0%
2031	2.4%	2.0%	2.2%	2.0%
2032	2.4%	2.0%	2.2%	2.0%
2033	2.4%	2.0%	2.2%	2.0%
2034	2.4%	2.4%	2.2%	2.0%

TYSP Year 2025

Question No. 4

Note: The inf. is for only Investor owned utility.

Date						
	1	2	3	4	5	6
1/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
1/31/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/17/2024	N/A	N/A	N/A	N/A	N/A	N/A

2/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
2/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/11/2024	N/A	N/A	N/A	N/A	N/A	N/A

4/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
4/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
5/31/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/4/2024	N/A	N/A	N/A	N/A	N/A	N/A

6/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
6/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/28/2024	N/A	N/A	N/A	N/A	N/A	N/A

7/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
7/31/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
8/31/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/20/2024	N/A	N/A	N/A	N/A	N/A	N/A

9/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
9/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
10/31/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/13/2024	N/A	N/A	N/A	N/A	N/A	N/A

11/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
11/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/1/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/2/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/3/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/4/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/5/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/6/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/7/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/8/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/9/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/10/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/11/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/12/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/13/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/14/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/15/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/16/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/17/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/18/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/19/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/20/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/21/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/22/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/23/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/24/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/25/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/26/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/27/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/28/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/29/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/30/2024	N/A	N/A	N/A	N/A	N/A	N/A
12/31/2024	N/A	N/A	N/A	N/A	N/A	N/A

					Hourly System Load (MW)		
7	8	9	10	11	12	13	14
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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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	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	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	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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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	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
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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
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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	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	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	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
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	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	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	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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

15	16	17	18	19	20	21	22
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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
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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
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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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
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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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	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
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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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	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	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
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	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	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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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	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	N/A	N/A	N/A	N/A

23	24
N/A	N/A
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N/A	N/A
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N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

TYSP Year 2025
Question No. 5

Year	Month	Actual Peak Demand*	Demand Response Activated	Estimated Peak Demand	Day	Hour
		(MW)	(MW)	(MW)		
2024	1	533	n/a	n/a	1/21/2024	9:00
	2	472	n/a	n/a	2/20/2024	8:00
	3	537	n/a	n/a	3/15/2024	18:00
	4	601	n/a	n/a	4/19/2024	18:00
	5	706	n/a	n/a	5/29/2024	17:00
	6	722	n/a	n/a	6/6/2024	16:00
	7	717	n/a	n/a	7/3/2024	17:00
	8	707	n/a	n/a	8/14/2024	16:00
	9	689	n/a	n/a	9/5/2024	17:00
	10	643	n/a	n/a	10/2/2024	17:00
	11	553	n/a	n/a	11/12/2024	15:00
	12	502	n/a	n/a	12/4/2024	8:00
2023	1	569	n/a	n/a	1/15/2023	9:00
	2	516	n/a	n/a	2/24/2023	17:00
	3	590	n/a	n/a	3/27/2023	18:00
	4	593	n/a	n/a	4/15/2023	17:00
	5	640	n/a	n/a	5/11/2023	18:00
	6	690	n/a	n/a	6/29/2023	16:00
	7	693	n/a	n/a	7/5/2023	15:00
	8	751	n/a	n/a	8/9/2023	17:00
	9	695	n/a	n/a	9/11/2023	17:00
	10	610	n/a	n/a	10/5/2023	16:00
	11	534	n/a	n/a	11/11/2023	15:00
	12	490	n/a	n/a	12/3/2023	16:00
2022	1	663	n/a	n/a	1/24/2022	8:00
	2	531	n/a	n/a	2/1/2022	8:00
	3	525	n/a	n/a	3/18/2022	18:00
	4	588	n/a	n/a	4/6/2022	17:00
	5	649	n/a	n/a	5/18/2022	17:00
	6	704	n/a	n/a	6/15/2022	17:00
	7	690	n/a	n/a	7/13/2022	17:00
	8	694	n/a	n/a	8/23/2022	15:00
	9	676	n/a	n/a	9/6/2022	17:00
	10	576	n/a	n/a	10/10/2022	18:00
	11	597	n/a	n/a	11/6/2022	13:00
	12	620	n/a	n/a	12/25/2022	9:00

Notes

* Peak demand assumes no net metered solar from customers in 2024.

System-Average Temperature
(Degrees F)
41.40
45.40
86.30
87.10
93.80
94.60
92.90
92.70
90.90
87.40
82.50
48.60
39.50
86.50
88.30
90.40
90.90
94.70
93.80
98.00
94.53
89.40
86.30
83.37
33.17
40.63
88.41
88.50
93.30
96.70
95.70
94.40
94.80
87.70
86.80
44.30

TYSP Year 2025
Question No. 18

Year	Number of PEVs	Number of Public PEV Charging Stations	Number of Public DCFC PEV Charging Stations	Cumulative Impact of PE	
				Summer Demand	Winter Demand
				(MW)	(MW)
2025	2379	28	10	2.2	2.2
2026	2983	35	10	3.2	3.2
2027	3650	42	10	4.1	4.1
2028	4382	44	14	5.1	5.1
2029	5183	48	14	6.3	6.3
2030	6024	51	14	7.9	7.9
2031	6873	55	20	9.2	9.2
2032	7735	58	20	10.8	10.8
2033	8595	63	20	12.7	12.7
2034	9454	69	20	13.9	13.9
Notes					
Expected that over 85% of charging occurs at home, therefore public charging will lag national average.					

EVs
Annual Energy (GWh)
12
15
18
21
28
35
40
45
50
55

TYSP Year 2025
Question No. 27

[Demand Response Source or All Demand Response					
Year	**Participating Customers**			**Summer**	
	Start of Year	Lost	Added	Start of Year	Lost
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0
2024	0	0	0	0	0
Notes					
(Include Notes Here)					

Sources]			
Available Capacity (MW)			
	Winter		
Added	Start of Year	Lost	Added
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

TYSP Year 2025
Question No. 28

[Demand					
Year	Summer				
	Total Events	Customers Activated			Capa
		Average Event	Max Event	Peak Day	Average Event
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0
2024	0	0	0	0	0
Notes					
(Include Notes Here)					

Response Source or All Demand Response Sources]

		Winter				
acity Activated (MW)		Total Events	Customers Activated			Capa
Max Event	Peak Day		Average Event	Max Event	Peak Day	Average Event
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

acity Activated (MW)	
Max Event	**Peak Day**
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

TYSP Year 2025
Question No. 29(a)

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
Charles Larsen Memorial	GT2*	Polk	GT	NG	11	1962
Charles Larsen Memorial	GT3*	Polk	GT	NG	12	1962
Charles Larsen Memorial	8	Polk	CC	NG/DFO	4	1956
Winston Peaking Station	1-20	Polk	IC	DFO	12	2001
C.D. McIntosh, Jr.	D1	Polk	IC	DFO	1	1970
C.D. McIntosh, Jr.	D2	Polk	IC	DFO	1	1970
C.D. McIntosh, Jr.	GT1	Polk	GT	NG	5	1973
C.D. McIntosh, Jr.	GT2	Polk	ST	NG/DFO	6	2020
C.D. McIntosh, Jr.	5	Polk	CC	NG	5	2001
C.D. McIntosh, Jr.	MREP[4] 4-6	Polk	IC	NG	12	2024
C.D. McIntosh, Jr.	MREP 1-3	Polk	IC	NG	1	2025

Notes

[2] Unit Type
CC Combined Cycle
CT Combined Cycle Combustion Turbine
GT Combustion Gas Turbine
ST Steam Turbine

[3] Primary Fuel
DFO Distillate Fuel Oil
BIT Bitumminous Coal
NG Natural Gas

[4] MAN Reciprocating Engine
* in long term maintenance ar

Unit Capacity (MW)					
Gross		Net		Firm	
Sum	Win	Sum	Win	Sum	Win
10	14	10	14	10	14
9	13	9	13	9	13
110	126	115	125	114.5	124.5
50	50	50	50	50	50
2.5	2.5	2.5	2.5	2.5	2.5
2.5	2.5	2.5	2.5	2.5	2.5
17	19	17	19	17	19
120	125	120	125	119.5	124.5
359	405	352	398	352	398
60	60	59.5	59.5	59.5	59.5
60	60	59.5	59.5	59.5	59.5

Project

ıd are not in operation at this time.

TYSP Year 2025
Question No. 29(b)

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit	
							Gross	
					Mo	Yr	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	N/A	N/A	N/A	N/A
Notes								
(Include Notes Here)								

Capacity (MW)			
Net		Firm	
Sum	Win	Sum	Win
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

TYSP Year 2025
Question No. 33

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes						
(Include Notes Here)						

Certification Dates (if Applicable)	
Need Approved (Commission)	PPSA Certified
N/A	N/A

TYSP Year 2025
Question No. 34

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Final Decision ('Drop Dead') Date	Site Se Begins
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes						
(Include Notes Here)						

lection		Engineering / Permitting / Procurement		Constuction		Commercial In-Service Date
Ends		Begins	Ends	Begins	Ends	
N/A		N/A	N/A	N/A	N/A	N/A

TYSP Year 2025
Question No. 35

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
Charles Larsen Memorial	GT2[#]	Polk	GT	NG	11	1962
Charles Larsen Memorial	GT3[#]	Polk	GT	NG	12	1962
Charles Larsen Memorial	8	Polk	CC	NG/DFO	4	1956
Winston Peaking Station	1-20	Polk	IC	DFO	12	2001
C.D. McIntosh, Jr.	D1	Polk	IC	DFO	1	1970
C.D. McIntosh, Jr.	D2	Polk	IC	DFO	1	1970
C.D. McIntosh, Jr.	GT1	Polk	GT	NG	5	1973
C.D. McIntosh, Jr.	GT2	Polk	GT	NG/DFO	6	2020
C.D. McIntosh, Jr.	5	Polk	CC	NG	5	2001
C.D. McIntosh, Jr.	MREP 1-6*	Polk	IC	NG	1	2025

Notes: * The units were commissioned in Dec 2024 and Jan 2025. Hence, performance data is not enough to have ye

[#] long term scheduled maintenance. Historic consists of 2024 only.

Unit Performance (%)						Average Net Operating Heat Rate (ANOHR), BTU/KWh	
Planned Outage Factor (POF)		Forced Outage Factor (FOF)		Equivalent Availability Factor (EAF)			
Historic	Projected	Historic	Projected	Historic	Projected	Historic	Projected
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
18.43	10	1.42	5	80.7	90	9794	9500
0	10	0	5	96.7	90	11617	11000
17.8	10	14.3	10	67.8	80	48027	15000
17.8	10	14.7	10	67.4	80	54184	15000
0	5	2.8	5	97.2	90	16205	15000
0	5	0	5	99	90	12620	12500
9.93	10	0.64	5	87.33	90	7272	7200
N/A	5	N/A	5	N/A	95	N/A	8200

early nos.

TYSP Year 2025
Question No. 36

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
Charles Larsen Memorial	GT2#	Polk	GT	NG	11	1962
Charles Larsen Memorial	GT3#	Polk	GT	NG	12	1962
Charles Larsen Memorial	8	Polk	CC	NG/DFO	4	1956
Winston Peaking Station	1-20	Polk	IC	DFO	12	2001
C.D. McIntosh, Jr.	D1	Polk	IC	DFO	1	1970
C.D. McIntosh, Jr.	D2	Polk	IC	DFO	1	1970
C.D. McIntosh, Jr.	GT1	Polk	GT	NG	5	1973
C.D. McIntosh, Jr.	GT2	Polk	GT	NG/DFO	6	2020
C.D. McIntosh, Jr.	5	Polk	CC	NG	5	2001
C.D. McIntosh, Jr.	MREP 1-6*	Polk	IC	NG	1	2025

Notes: * The units were commissioned in Dec 2024 and Jan 2025. Hence, performance data is not enough to have yearly

In long term scheduled maintenance.

Notes

(Include Notes Here)

Capacity Factor (%)										
Actual	Projected									
2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
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	N/A	N/A	N/A	N/A
30	30	30	30	30	30	30	30	30	30	30
0	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1
1	2	2	2	2	2	2	2	2	2	2
4	5	5	5	5	5	5	5	5	5	5
71	72	72	72	72	72	72	72	72	72	72
N/A	20	20	20	20	20	20	20	20	20	20
nos.										

TYSP Year 2025
Question No. 38

Facility Name	Unit No.	County Location	Solar Type (Fixed/Tracking)	Energy Storage Type	Facility In-Service Date	
					Mo	Yr
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes

LE is not investor-owned Utilities as this information is required only for investor-owned utilities only.

Unit Capacity (MW)				Land Use	Commission Approval	
Net		Firm				
Sum	Win	Sum	Win	(Acres)	Order No.	Approval Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Cost Reocvery Mechanism
N/A

TYSP Year 2025
Question No. 40

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Mo
N/A	N/A	N/A	N/A	N/A	N/A

Notes

No units are in Unit Modifications plan at this type.

Service	Planned Modification (if any)	Eligible Modifications		
Yr		Fuel Switching	Combined Cycle Conversion	Other (Explain)
N/A	N/A	N/A	N/A	N/A

Potential Issues
N/A

TYSP Year 2025
Question No. 41

Transmission Line	Line Length (Miles)	Nominal Voltage (kV)	Certification Dates	
			Need Approved	TLSA Certified
Hamilton-Dranefield 69 KV	5.5	69	N/A	N/A

Notes

Note: Transmission line below 230 KV does not need TLSA approval. N/A - Not Applicable.

In-Service Date
05/2025

TYSP Year 2025
Question No. 42(a)

Contract Information				
Seller Name	Date Contract Approved	Contract Terms		
		Firm Capacity (MW)		Deliver
		Sum	Win	Start
EDPR	Jul-09	0.13	0	04/10
EDPR	Nov-10	1.13	0	12/11
Renewable Holdco	Dec-10	1.38	0	9/12
Brookfield Renewable	Nov-13	3.00	0	07/15
Clearway Energy Group, LLC	Mar-15	1.58	0	12/16
Orlando Utilites Commission	Jun-24	100	50	1/25
Notes				
(Include Notes Here)				

	Provide If Associated with Spe						
y Dates	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
End						Mo	Yr
03/30	RP Funding Center	--	Polk	PV	Sun	4	2010
11/36	Airport I	--	Polk	PV	Sun	12	2011
08/37	Airport II	--	Polk	PV	Sun	9	2012
07/40	Sutton	--	Polk	PV	Sun	7	2015
11/41	Airport III	--	Polk	PV	Sun	12	2016
12/26							

cific Unit(s)					
Unit Capacity (MW, AC)					
Gross		Net		Firm	
Sum	Win	Sum	Win	Sum	Win
0.25	0.25	0.25	0.25	0.13	0
2.25	2.25	2.25	2.25	1.13	0
2.75	2.75	2.75	2.75	1.38	0
6	6	6	6	3.00	0
3.15	3.15	3.15	3.15	1.58	0

TYSP Year 2025
Question No. 42(b)

Contract Information						
Seller Name	Date Contract Approved	Contract Terms				Facility Name
		Firm Capacity (MW)		Delivery Dates		
		Sum	Win	Start	End	
Edge Solar LLC	Nov-24	37.4	0	03/2027	02/52	Edge Solar
Notes						
(Include Notes Here)						

Provide If Associated with Specific Unit(s)							
Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross	
				Mo	Yr	Sum	Win
--	Polk	Solar	SUN	3	2027	74.8	74.8

Unit Capacity (MW), AC			
Net		**Firm**	
Sum	Win	Sum	Win
74.8	74.8	37.4	0

TYSP Year 2025
Question No. 45(a)

Contract Information						
Buyer Name	Date Contract Approved	Contract Terms				Facility Name
		Firm Capacity (MW)		Delivery Dates		
		Sum	Win	Start	End	
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes						
N/A - Not Applicable						

Provide If Associated with Specific Unit(s)

Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross	
				Mo	Yr	Sum	Win
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Unit Capacity (MW)			
Net		**Firm**	
Sum	Win	Sum	Win
N/A	N/A	N/A	N/A

TYSP Year 2025
Question No. 45(b)

Contract Information						
Buyer Name	Date Contract Approved	Contract Terms				Facility Name
		Firm Capacity (MW)		Delivery Dates		
		Sum	Win	Start	End	
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes						
(Include Notes Here)						

Provide If Associated with Specific Unit(s)							
Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross	
				Mo	Yr	Sum	Win
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Unit Capacity (MW)			
Net		**Firm**	
Sum	Win	Sum	Win
N/A	N/A	N/A	N/A

TYSP Year 2025
Question No. 48

Renewable Source	Annual Renewable Generation					
	Actual	Proj				
	2024	2025	2026	2027	2028	2029
Utility - Firm						
Utility - Non-Firm						
Utility - Co-Firing						
Purchase - Firm						
Purchase - Non-Firm	18	23	23	177	204	203
Purchase - Co-Firing						
Customer - Owned	10	11	12	13	14	15
Total	28	34	35	190	218	218
Notes						
(Include Notes Here)						

(GWh)				
ected				
2030	**2031**	**2032**	**2033**	**2034**
203	203	203	194	194
16	17	19	20	22
219	220	222	214	216

TYSP Year 2025
Question No. 55

Facility or Project Name*	Unit No.	County Location	Energy Storage Type	Battery Chemistry (if applicable)	Land Use (Acres)
N/A	N/A	N/A	N/A	N/A	N/A

Notes

* There is a Pilot Project which is of capacity 0.4 MW and 2 hrs of storage capacity. But is not operational at this time.

Facility In-Service or Project Start Date		Unit Capacity (MW)					
		Gross		Net		Firm	
Mo	Yr	Sum	Win	Sum	Win	Sum	Win
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Storage Capacity	Conversion Efficency
(MWh)	(MWh)
N/A	N/A

TYSP Year 2025
Question No. 56

Facility or Project Name	Unit No.	County Location	Energy Storage Type	Battery Chemistry (if applicable)	Land Use (Acres)
N/A	N/A	N/A	N/A	N/A	N/A

Notes

(Include Notes Here)

Facility In-Service or Project Start Date		Unit Capacity (MW)					
		Gross		Net		Firm	
Mo	Yr	Sum	Win	Sum	Win	Sum	Win
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Storage Capacity	Conversion Efficency
(MWh)	(MWh)
N/A	N/A

Loss of Load Probability, Reserve Margin, and Expected Unserved Energy						
Base Case Load Forecast						
Year	Loss of Load Probability (Days/Yr)	Annual Isolated Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)	Loss of Load Probability (Days/Yr)	Annual Assisted Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)
2025	N/A	N/A	N/A	< 0.1	22%	2
2026	N/A	N/A	N/A	< 0.1	21%	2
2027	N/A	N/A	N/A	< 0.1	16%	0
2028	N/A	N/A	N/A	< 0.1	15%	1
2029	N/A	N/A	N/A	< 0.1	15%	0
2030	N/A	N/A	N/A	< 0.1	15%	0
2031	N/A	N/A	N/A	< 0.1	15%	0
2032	N/A	N/A	N/A	< 0.1	15%	0
2033	N/A	N/A	N/A	< 0.1	15%	1
2034	N/A	N/A	N/A	< 0.1	15%	0

TYSP Year 2025
Question No. 60

Peak Summer Day Hourly Dispatch (MW), 2025 e							
Hour	Customer Oriented		Power Transactions		Energy Storage		
	Load	Demand Response	Sales	Purchases	Charging	Discharging	Nuclear
1	434	0	0	161	0	0	0
2	405	0	0	132	0	0	0
3	384	0	0	111	0	0	0
4	369	0	0	96	0	0	0
5	360	0	0	87	0	0	0
6	356	0	0	83	0	0	0
7	355	0	0	82	0	0	0
8	368	0	0	95	0	0	0
9	420	0	0	107	0	0	0
10	482	0	0	142	0	0	0
11	546	0	0	206	0	0	0
12	608	0	0	268	0	0	0
13	661	0	0	261	0	0	0
14	697	0	0	249	0	0	0
15	719	0	0	211	0	0	0
16	728	0	0	234	0	0	0
17	725	0	0	177	0	0	0
18	708	0	0	160	0	0	0
19	674	0	0	79	0	0	0
20	630	0	0	52	0	0	0
21	600	0	0	32	0	0	0
22	560	0	0	0	0	0	0
23	512	0	0	112	0	0	0
24	468	0	0	128	0	0	0

Peak Winter Day Hourly Dispatch (MW), 2026 E:							
Hour	Customer Oriented		Power Transactions		Energy Storage		
	Total Load	Demand Response	Sales	Purchases	Charging	Discharging	Nuclear
1	420	0	0	141	0	0	0
2	421	0	0	112	0	0	0
3	429	0	0	156	0	0	0
4	446	0	0	173	0	0	0
5	480	0	0	207	0	0	0
6	545	0	0	269	0	0	0
7	631	0	0	291	0	0	0
8	673	0	0	333	0	0	0
9	669	0	0	326	0	0	0
10	628	0	0	350	0	0	0
11	580	0	0	300	0	0	0
12	528	0	0	246	0	0	0
13	483	0	0	203	0	0	0
14	445	0	0	165	0	0	0
15	415	0	0	135	0	0	0
16	404	0	0	125	0	0	0
17	417	0	0	140	0	0	0

18	464	0	0	191	0	0	0
19	539	0	0	199	0	0	0
20	557	0	0	217	0	0	0
21	558	0	0	218	0	0	0
22	544	0	0	204	0	0	0
23	512	0	0	172	0	0	0
24	487	0	0	214	0	0	0

expected				
Generation Resources				
Natural Gas	Coal	Oil	Other	Solar
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
313	0	0	0	4
340	0	0	0	6
340	0	0	0	6
340	0	0	0	7
400	0	0	0	6
448	0	0	0	6
508	0	0	0	6
494	0	0	0	6
548	0	0	0	5
548	0	0	0	3
595	0	0	0	1
578	0	0	0	0
568	0	0	0	0
560	0	0	0	0
400	0	0	0	0
340	0	0	0	0

xpected				
Generation Resources				
Natural Gas	Coal	Oil	Other	Solar
279	0	0	0	0
309	0	0	0	0
273	0	0	0	0
273	0	0	0	0
273	0	0	0	0
276	0	0	0	0
340	0	0	0	0
340	0	0	0	0
340	0	0	0	3
273	0	0	0	5
273	0	0	0	7
273	0	0	0	9
273	0	0	0	7
273	0	0	0	7
273	0	0	0	7
273	0	0	0	6
273	0	0	0	4

273	0	0	0	0
340	0	0	0	0
340	0	0	0	0
340	0	0	0	0
340	0	0	0	0
340	0	0	0	0
273	0	0	0	0

1

TYSP Year 2025

Question No. 64 e

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
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
2031	0	0	0	0
2032	0	0	0	0
2033	0	0	0	0
2034	0	0	0	0
Notes				
Notes: Not impacted by this rule.				

TYSP Year 2025
Question No. 66

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
McIntosh	**MAC GT2**	**Polk**	**CT**	**gas**	June	2020
McIntosh	**3**	**Polk**	**steam**	**coal**	September	1982
McIntosh	5	Polk	CC	gas	May	2001
Larsen	8	Polk	CC	gas	July	1992
Notes						
ACE: Unit 3 was our only unit subject to ACE. It was retired in April 2021. Units 5, 8, and MGT2 are not impacte GHG rule under the new EPA Administration.						
MATS: Unit 3 had to have its scrubber upgraded (2015) to be able to comply with the rule. Unit 3 was retired in A						
CWIS: Unit 8's operation may be limited to simple cycle only, depending on the time to implment the upgrades.						
CCR Non-Hazardous Waste: CCR Material from former Unit 3 continues to be regulated even though the Unit has						

Unit Capacity (MW)		Estimated EPA Rule Impacts: Cost Effects					
Net		ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CC
Sum	Win						Non-Hazardous Waste
120	125						
342	342						X
352	398						
114	124					X	

:d by the ACE rule replacement that was finalized in April 2024. It is unknown at this point if there will be a new iterati

pril 2021.

been retired.

CR
Special Waste
on of the

TYSP Year 2025
Question No. 67

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
McIntosh	MAC GT2	Polk	CT	Gas	June	2020
McIntosh	3	Polk	steam	Coal	September	1982
McIntosh	5	Polk	CC	Gas	May	2001
Larsen	8	Polk	CC	Gas	July	1992

Notes: *Unit 8 CWIS - Physical changes to the cooling water intake structure are needed to comply with the r planned outages - by up to two months.

****ACE: Unit 3 was our only unit subject to ACE. It was retired in April 2021. Units 5, 8, and MGT2 are no rule under the new EPA Administration.**

(Include Notes Here)

Unit Capacity (MW)		Estimated EPA Rule Impacts: Operatio			
Net		ELGS	ACE or replacement	MATS	CSAPR/ CAIR
Sum	Win				
120	125		**		
342	342				
352	398		**		
114	124		**		

rule. The changes will be combined with planned outages for implementation. However, it is likely that the

t impacted by the ACE rule replacement that was finalized in April 2024. It is unknown at this point if the

nal Effects		
CWIS	CCR	
	Non-Hazardous Waste	Special Waste
	11.5**	
2.5*		
e construction would last beyond normal		
re will be a new iteration of the GHG		

TYSP Year 2025
Question No. 68

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
McIntosh	**MAC GT2**	**Polk**	**CT**	**Gas**	**June**	**2020**
McIntosh	**3**	**Polk**	**Steam**	**Coal**	**September**	**1982**
McIntosh	**5**	**Polk**	**CC**	**Gas**	**May**	**2001**
Larsen	**8**	**Polk**	**CC**	**Gas**	**July**	**1992**
Notes						

*Unit 8 CWIS - Physical changes to the cooling water intake structure are needed to comply with the rule. The char planned outages - by up to two months.

**ACE: Unit 3 was our only unit subject to ACE. It was retired in April 2021. Units 5, 8, and MGT2 are not impa GHG rule under the new EPA Administration.

Unit Capacity (MW)		Estimated EPA Rule Impacts: Unit Availability					
Net		ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CC
Sum	Win						Non-Hazardous Waste
120	125		**				
342	342						
352	398		**				
114	124		**			*	

ıges will be combined with planned outages for implementation. However, it is likely that the construction would last be

ıcted by the ACE rule replacement that was finalized in April 2024. It is unknown at this point if there will be a new iter

CR
Special Waste
eyond normal
ration of the

TYSP Year 2025
Question No. 70

Year		Firm Purchase Rates - Energy only		Non-Firm Purchase
		Annual Average	Escalation Rate	Annual Average
		($/MWh)	(%)	($/MWh)
Actual	2015	N/A	N/A	24.46
	2016	N/A	N/A	23.67
	2017	N/A	N/A	26.92
	2018	N/A	N/A	27.37
	2019	N/A	N/A	24.04
	2020	N/A	N/A	20.46
	2021	N/A	N/A	32.78
	2022	N/A	N/A	62.69
	2023	N/A	N/A	28.93
	2024	N/A	N/A	31.09
Projected	2025	N/A	N/A	*
	2026	N/A	N/A	*
	2027	N/A	N/A	*
	2028	N/A	N/A	*
	2029	N/A	N/A	*
	2030	N/A	N/A	*
	2031	N/A	N/A	*
	2032	N/A	N/A	*
	2033	N/A	N/A	*
	2034	N/A	N/A	*

Notes

* Energy price is based on market index and projection is not reliable.

Rates - Energy only	As-Available Energy Rates		
Escalation Rate	Annual Average	On-Peak Average	Off-Peak Average
(%)	($/MWh)	($/MWh)	($/MWh)
N/A			
-3%			
14%			
2%			
-12%			
-15%			
60%			
91%			
-54%			
7%			

TYSP Year 2025
Question No. 71

Year		Uranium		Coal		Natur
		GWh	$/MMBTU	GWh	$/MMBTU	GWh
Actual	2015	0	N/A	788	3.32	2204
	2016	0	N/A	805	3.16	1857
	2017	0	N/A	846	2.78	1589
	2018	0	N/A	969	2.76	2270
	2019	0	N/A	548	2.64	2382
	2020	0	N/A	385	2.45	2063
	2021	0	N/A	500	2.45	2259
	2022	0	N/A	0	N/A	2477
	2023	0	N/A	0	N/A	2752
	2024	0	N/A	0	N/A	2643
Projected	2025	0	N/A	0	N/A	2184
	2026	0	N/A	0	N/A	2619
	2027	0	N/A	0	N/A	2430
	2028	0	N/A	0	N/A	2038
	2029	0	N/A	0	N/A	2475
	2030	0	N/A	0	N/A	2552
	2031	0	N/A	0	N/A	2426
	2032	0	N/A	0	N/A	2338
	2033	0	N/A	0	N/A	2315
	2034	0	N/A	0	N/A	2408

Notes

N/A - Not Applicable.

al Gas	Residual Oil		Distillate Oil		Hydrogen		Other (
$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh
2.7164	0	12.32	0	17.04	0	N/A	0
2.5385	0	10.75	0	15.72	0	N/A	0
3.0504	0	9.34	0	12.92	0	N/A	0
3.204	0	N/A	0	16.49	0	N/A	0
2.75	0	N/A	0	16.6	0	N/A	0
2.72	0	N/A	1	13.79	0	N/A	0
3.89	0	N/A	2.41	15.15	0	N/A	0
7.39	0	N/A	0	27.21	0	N/A	0
3.1	0	N/A	1	21.95	0	N/A	0
3.00	0	N/A	1	16.14	0	N/A	0
4.86	0	N/A	1	18.14	0	N/A	0
5.13	0	N/A	1	18.39	0	N/A	0
4.31	0	N/A	0	22.45	0	N/A	0
4.31	0	N/A	0	22.45	0	N/A	0
4.10	0	N/A	0	22.64	0	N/A	0
3.97	0	N/A	0	22.76	0	N/A	0
3.87	0	N/A	0	22.88	0	N/A	0
3.86	0	N/A	0	23.03	0	N/A	0
3.95	0	N/A	0	23.23	0	N/A	0
4.02	0	N/A	0	23.34	0	N/A	0

Specify)
$/MMBTU
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
N/A
N/A

TYSP Year 2025
Question No. 77(a)

Total No. of Data Centers	Customer Class Served	Total Energy Usage in 2024	Impact to Summer Peak Demand
		(MWHs)	(MWs)
(1)	(2)	(3)	(4)
1	GSD	4058	#

*** Examples of the data center types: colocation, enterprise, cloud, edge, and micro data.**

** Based on military time 1 - 24.

No detailed information available.

Table I: Current Data Center Information			
Data Centers Currently Located in Utility Service Area			
Impact to Winter Peak Demand	Seasonality Observed, if any		Fc Type of Data Center*
(MWs)			
(5)	(6)	(7)	(8)
#	#	1 2 3 …	Colocation

or each of the Data Centers		
Energy Used in 2024 (MWHs) (9)	Hours of Peak Usage** (10)	Impact to Peak Demand (MWs) (11)
4058	#	#

TYSP Year 2025
Question No. 77(b)

Table II: Planned Data Center Info			
Planned Data Centers in Your Serv			
	Type of Data Center*	Customer Class Served	Expected In-Service Data
	(1)	(2)	(3)
1	N/A	N/A	N/A
2	N/A	N/A	N/A
3	N/A	N/A	N/A
…	N/A	N/A	N/A

*** Examples of the data center types: colocation, enterprise, cloud, edge, and micro data.**

N/A - Not Applicable

rmation		
ice Area		
Expected Annual Energy Usage (MWHs) (4)	Expected Impact to Summer Peak Demand (MWs) (5)	Expected Impact to Winter Peak Demand (MWs) (6)
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A