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FPSC - COMMISSION CLERK

May 6, 2025

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

Re: Docket No. 20250000-OT
GRU's Response to TYSP Data Request #1

Dear Sir/Madam,

Gainesville Regional Utilities hereby submits its electronic version of the Public Service Commission's Ten-Year Site Plan Data Request #1. The Excel tables and other documents requested were emailed to Segundo Sanchez and Phillip Ellis.

Please let me know if you have any questions regarding this document.

Sincerely,

/s/ Jamie Verschage, P.E.
Power Planning and Contracts Manager

P.O. Box 147117, Station A130, Gainesville, FL 32614-7117 Telephone: (352) 393-1294

Ten-Year Site Plan Data Request #1

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.

Ten-Year Site Plan Filing

1. Please provide an electronic copy of the Company's Ten-Year Site Plan (TYSP) for the current planning period (2026-2035) in PDF format.

   This was provided via email.

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

   This was provided via email.

Financial

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)**

   This data is provided in the provided Microsoft 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 9, 2025, to November 2, 2025).

   GRU is not an Investor-Owned Utility.

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.

This data was provided as part of the provided Excel file.

6. Regarding the Utility's customer and energy consumption data in the Utility's 2026 TYSP, please explain any historic trends, identify the major factors that contribute to the growth/decline of the trends, and provide other information as requested below in each of the following:
   a. Growth of customers, by customer type (residential, commercial, industrial) as well as Total Customers.

      Over the past 10 years, number of residential customers has increased by 1.1% per year. Number of residential customers is projected to increase by 0.6% per year over the forecast horizon. Number of non-residential customers increased by 0.7% per year from 2016-2025, and they are projected to increase by 0.5% per year. Customer growth generally moves in step with regional population growth, and the Gainesville/Alachua County community is expected to attract new residents and businesses into the foreseeable future.

   b. Average KWh consumption per customer, by customer type (residential, commercial, industrial).

      Residential usage per customer declined by an average of 0.2% per year over the past 10 years. It is expected to increase by 0.1% per year over the next 10 years, driven by continued adoption of electric vehicles that charge at customer residences. Non-residential usage per customer declined by an average of 0.6% per year over the past 10 years. It is forecast to decline more slowly at an average annual rate of 0.1% per year over the next 10 years.

   c. Total Sales (GWh) to Ultimate Customers.

      Total retail energy sales increased at an average annual rate of 0.5% over the past 10 years, and they are forecast to increase by nearly 0.6% per year over the next 10 years.

7. Please explain any historic trends, identify the major factors that contribute to the observed historic trends, and provide other information as requested below in each of the following components of Summer/Winter Peak Demand in the Utility's 2026 TYSP:
   a. Demand Reduction due to the Company's energy efficiency and/or conservation program(s) and Self Service, by customer type (residential, commercial, industrial) as well as by Total Customers.

The only active conservation measures currently operated by GRU include a Low-Income Energy Efficiency Program, for making energy efficiency upgrades to qualifying low-income customers' homes; and natural gas rebates. Both programs are specific to the residential sector and have overall small reductions to system demands.

b. Demand Reduction due to Demand Response programs, Demand Side Renewable Systems and/or Self Service, by customer type (residential, commercial, industrial).

GRU does not operate and demand response programs.

c. Total Demand.

Please see the next response to part d.

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.

Incremental impacts to total demand are very small, and they are tabulated in Schedules 3.1 and 3.2.

Forecasted Load

8. Please identify the weather station(s) used for calculation of the system-wide temperature used for preparing the Utility's load forecasts. If more than one weather station is utilized, please describe how a system-wide average is calculated.

GRU utilizes climatological data from the weather station located at the Flight Service Station at the Gainesville Regional Airport. The National Weather Service call ID is GNV, and the WBAN number is 12816.

9. Please explain, to the extent not addressed in the Utility's 2026 TYSP, how the reported forecasts of the number of customers, demand, and total retail energy sales were developed. In the Utility's 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 Utility's most recent prior TYSP.

The methodology, assumptions and data sources used in the development of GRU's customer, sales, and demand forecasts are described in detail on pages

10-11 of the TYSP. The forecast was done in-house without the use of any outside consultants. GRU assesses historical forecast accuracy but does not make prospective claims around its forecast accuracy. GRU has used the same forecast methodology for more than 20 years.

10. The following requests pertain to the Utility's load forecasts in the Utility's 2026 TYSP.
    a. Please explain how the forecasts of annual demand and energy are used by the Utility in the resource planning process undertaken to identify optimal resource additions for the period included in the TYSP.

GRU's demand and energy forecasts, as well as GRU's existing units' estimated remaining serviceable lives, are used to project when additional energy and capacity resources may be required. Available supply options are considered, as well as the utility's financial metrics.

Ultimately, GRU may pursue a power purchase agreement within the planning period but currently does not have any firm plans to add generation resources.

    b. Does the Utility prepare low case and high case demand and energy forecasts? Why or why not?

GRU has not developed banded forecasts around this year's projections for demand and energy. GRU currently projects adequate reserves through 2035. As the need for new capacity moves nearer, banded forecasts will be developed and utilized in our resource planning.

    c. If so, what conditional changes generate low case and high case forecasts for the Utility, and how are probabilities assigned to such forecasts?

Not applicable

    d. If low and high case forecasts are prepared, explain whether and how such forecasts may impact resource planning and additions appearing in the TYSP. Give specific examples.

Not applicable

11. For those utilities which use an all-hours loss of load probability (LOLP) methodology for system planning, please answer the following questions comparing the Utility's 50 percent probability (P50) load forecast and any forecasts developed for its LOLP analysis.

GRU does not use an all-hours loss of load probability methodology for system planning.

a. What conditions are reflected in each of the Utility's load forecast models and forecast inputs that allow it to produce its P50 load forecasts?
b. Are comparisons of the Utility's P50 load forecasts to actual results or other methods used for purposes of forecast bias testing? If so, how is such testing used?
c. Explain how the Utility's use of an all-hours LOLP analysis has resulted in changes to the Utility's load forecast methodologies, data, assumptions, etc.
d. Explain how the Utility's use of an all-hours LOLP analysis has modified the ways the Utility's load forecast is used by the Utility for resource planning.
e. Explain, if applicable, how the Utility's use of an all-hours LOLP analysis incorporates different weather scenarios that impact the Utility's demand throughout the year.
f. Explain, if applicable, how the Utility's use of an all-hours LOLP analysis incorporates variations of its base demand forecast (i.e., P50) for purposes of resource planning.
g. Explain how the Utility's hourly load forecasts of demand and energy used in its all-hours LOLP analysis, as opposed to the annual forecasts based on its P50 load forecast, are used to select the resource additions included in its TYSP.

12. Please explain how the Utility's hourly load forecasts of demand and energy are used to select the resource additions included in its TYSP. Give specific examples.

While GRU has not included any resource additions in this 2026 TYSP, we do utilize an hourly load forecast to develop the detailed fuel requirements and energy sources reported in Schedules 5 and 6.

13. Beyond traditional econometric and end-use models, does the Utility employ any alternative load forecasting methodologies to address forecast uncertainty? If so, please describe those methods.

GRU's forecast was developed using econometric models. We do not employ any alternative forecasting methodologies.

14. Does the Utility incorporate weather variability or extreme weather scenarios into its load forecasting process? If so, how are these scenarios reflected in resource planning decisions?

GRU does not incorporate weather variability or extreme weather scenarios into its load forecasting process.

15. Regarding the Utility's base case forecasts in the Utility's 2026 TYSP, please explain the forecasted trends, identify the major factors (currently and in the forecasted period) that

contribute to the growth/decline of the trends, and provide other information as requested below in each of the following:

a. Growth of customers, by customer type (residential, commercial, industrial) as well as Total Customers.

Number of residential customers are projected to increase at an average annual rate of 0.64% per year from 2026-2035. Number of non-residential customers are projected to increase at an average annual rate of 0.50% over the same period. These projections are a function of projected population growth for Alachua County of approximately 0.9% annually.

b. Average KWh consumption per customer, by customer type (residential, commercial, industrial).

Usage per customer is projected to remain relatively flat. Reductions in average usage are driven by improved building envelopes, appliance codes and standards, and increasing real price for electricity. Offsetting these downward forces is the continued adoption of electric vehicles. Residential average use is forecast to increase at a rate of 0.14% per year, and non-residential average use is projected to decline at a similar rate of –0.12% annually.

c. Total Sales (GWh) to Ultimate Customers.

Total energy sales are projected to increase approximately 0.57% per year. GRU serves no firm wholesale load at this time, so retail sales equal total sales.

16. 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 Utility's current planning period TYSP.

There are no matters before the FPSC that reference this forecast.

17. Please reference the Utility's customer and base case energy sales forecasts in the Utility's 2026 TYSP. Please explain whether the Utility evaluates the accuracy of its forecasts of customer growth and annual retail energy sales presented in its past TYSPs. If so, please provide the actual/forecast comparisons (in Excel format) with a narrative explaining the Company's methodology. If not, please explain why the Utility elects not to perform such an analysis.

GRU utilizes a forecast error fan methodology to assess historical forecast error of total number of customers, total retail net energy, and summer peak demand. Average forecast error for number of total customers was 1.0% for GRU's forecasts from 2016-2025. Average forecast error for total retail net energy was –1.8% for our past 10 forecasts. Positive forecast error means that actual data was higher than

forecast, while negative forecast error means that actual data was lower than forecast, as averaged over the historical (10-year) term.

18. Please reference the Utility's base case demand forecasts in the Utility's 2026 TYSP. Please explain whether the Utility evaluates the accuracy of its forecasts of Summer/Winter Peak Demand presented in its past TYSPs. If so, please provide the actual/forecast comparisons (in Excel format) with a narrative explaining the Company's methodology. If not, please explain why the Utility elects not to perform such an analysis.

GRU is a summer peaking utility, due in large part to the penetration of natural gas in our service area. We did not evaluate winter peak demand forecast accuracy. The average forecast error of summer peak demand from forecasts produced from 2016 to 2025 was –0.3%. This means that actual summer peak demand was less than forecast by an average of 0.3% over the past ten years. Forecast error fan worksheets were inserted into the Excel portion of the Supplemental Data Request.

19. Please explain any current and forecasted trends, identify the major factors that contribute to the observed current and forecasted trends, and provide other information as requested below in each of the following components of the Utility's base case Summer/Winter Peak Demand the Utility's 2026 TYSP:
    a. Demand Reduction due to the Company's energy efficiency and/or conservation program(s) and Self Service, by customer type (residential, commercial, industrial) as well as by Total Customers.

       GRU's Low-Income Energy Efficiency Program and natural gas rebates, both in the residential sector, contribute modest demand reductions in both summer and winter that are accounted for in forecasts of seasonal demand reported in the 2026 TYSP.

    b. Demand Reduction due to Demand Response programs, Demand Side Renewable Systems and/or Self Service, by customer type (residential, commercial, industrial).

       GRU does not operate any demand response programs.

    c. Total Demand.

       Please see the next response to part d.

    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.

       Incremental impacts to total demand are very small, and they are tabulated in Schedules 3.1 and 3.2.

20. 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:
    a. Summer Peak Demand.
    b. Winter Peak Demand.
    c. Annual Retail Energy Sales.

There was a pandemic reset that was most notable in lower energy sales, primarily in the non-residential sectors. This event elevated online shopping and likely had a permanent, negative effect on brick-and-mortar retail. The impact on seasonal demands was much smaller than the impact on energy sales.

21. Please provide responses to the following questions regarding the weather factors considered in the Utility'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.

Each of the rate category specific average use equations were developed via testing of heating degree days and cooling degree days. When these variables tested to make a statistically significant contribution to the equation, they were included. In addition, the seasonal demand models included minimum daily temperature (winter) and maximum daily temperature (summer). Full explanation is provided in Chapter 2 of GRU's TYSP.

    b. Please specify the source(s) of the weather data used in the aforementioned forecasting models.

All of the weather data was sourced from National Weather Service reports with data reported from the Flight Service Station at the Gainesville Regional Airport as described in Question 8.

    c. Please explain in detail the process/procedure/method, if any, the Utility utilized to convert the raw weather data into the values of the model input variables.

All data was utilized as reported. For example, degree days use the stock base temperature of 65 degrees Fahrenheit.

    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.

Each average usage equation utilized its own unique historical time series as described in Chapter 2 of GRU's TYSP.

(2) How many years' historical weather data was used in the process of these models' calibration and/or validation.

Expanding on the response from part (1) above, GRU maintains a reliable history of climate data from the weather station at the Gainesville Regional Airport dating back to 1984.

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 2026–2035) were derived/obtained for the respective retail energy sales and peak demand models.

Projections for average usage equations utilized the median of heating degree days and cooling degree days from the past 10 years as values used to represent "normal" or "average" temperatures. The winter and summer peak demand models utilized median temperatures from 1990-2025.

22. **[Investor-Owned Utilities Only]** If not included in the Utility's 2026 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.

GRU is not an investor-owned utility.

<u>Demand-Side Resources</u>

23. Please address the following questions regarding the impact of all customer-owned/leased renewable generation (solar and otherwise) on the Utility forecasts.
    a. Please explain in detail how the Utility's load forecast for the 2026-2035 period accounts for the impact of all forms of customer's renewable generation.

GRU's forecast explicitly accounts for the impact of grid-connected, behind the meter solar systems. These systems are specifically coded within the billing

system. The forecasts for each customer segment include the projected impacts from these systems, net of cumulative impacts through 2025.

b. Please provide the annual impact, if any, of all forms of customer's renewable generation on the Utility's retail demand and energy forecasts, by class, by year, and in total, for the 2026 through 2035 period.

The table below shows the energy impacts included in GRU's forecast.

	Residential MWh	GS Non-Demand MWh	GS Demand MWh	GS Large Demand MWh	Total Retail MWh
2026	(13,979)	(1,651)	(8,099)	(1,863)	(25,592)
2027	(15,438)	(1,772)	(8,694)	(1,863)	(27,767)
2028	(16,898)	(1,889)	(9,265)	(1,863)	(29,914)
2029	(18,368)	(2,001)	(9,817)	(1,863)	(32,049)
2030	(19,851)	(2,111)	(10,355)	(1,863)	(34,180)
2031	(21,351)	(2,217)	(10,878)	(1,863)	(36,310)
2032	(22,867)	(2,322)	(11,389)	(1,863)	(38,440)
2033	(24,399)	(2,423)	(11,887)	(1,863)	(40,573)
2034	(25,946)	(2,522)	(12,374)	(1,863)	(42,705)
2035	(27,507)	(2,619)	(12,849)	(1,863)	(44,838)

If the Utility maintains a forecast for the planning horizon (2026-2035) of the number of customers with renewable generation, by customer class, please provide.

The table below gives the number of customers forecast to participate in GRU's net metering and net billing for grid-connected, behind the meter solar.

	Residential	GSN	GSD	GSLD	Total
2026	1,755	99	48	2	1,904
2027	1,939	106	51	2	2,098
2028	2,122	113	55	2	2,292
2029	2,307	120	58	2	2,487
2030	2,493	126	61	2	2,682
2031	2,681	133	64	2	2,880
2032	2,872	139	67	2	3,080
2033	3,064	145	70	2	3,281
2034	3,258	151	73	2	3,484
2035	3,454	157	76	2	3,689

Please provide the source of all data for responses to parts (b) and (c) above.

Number of connected systems (participating customers) was sourced from GRU's billing records. Average system installed capacity and assumed capacity factors (10% residential, 10% GSN, 12% GSD, and 15% GSLD) multiplied by number of systems yielded the resultant energy impacts. Penetration rates were sourced from EIA's Energy Outlook 2025, Tables 21 and 22.

24. Please address the following questions regarding the impact of all customer-owned/leased energy storage devices on the Utility forecasts.
    a. Please explain in detail how the Utility's load forecast for the 2026-2035 period accounts for the impact of all forms of customer's energy storage.

       GRU's forecast does not include impacts of customer owned energy storage.

    b. Please provide the annual impact, if any, of all forms of customer's energy storage on the Utility's retail demand and energy forecasts, by class, by year, and in total, for the 2026 through 2035 period.

       Not applicable.

    c. If the Utility maintains a forecast for the planning horizon (2026-2035) of the number of customers with energy storage, by customer class, please provide.

       GRU does not maintain a forecast for the number of customers with energy storage.

    d. Please provide the source of all data for responses to parts (b) and (c) above.

       Not applicable

25. Please explain how the anticipated growth of customer-owned renewable generation resources is reflected in the Utility's load forecast for the 2026-2035 period. In the Utility's response, address whether, and what type of, modeling adjustments are used for this purpose.

    GRU includes projections of customer owned, behind the meter solar energy in its forecast. The penetration of growth, or new additions of these systems was based on projections taken from EIA's Annual Energy Outlook 2025, Tables 21 and 22. These tables include projected PV capacity for residential and commercial applications. The year-over-year additions in PV capacity were applied to the known starting values on GRU's system at year end 2025. Energy associated with net, new growth in solar energy was subtracted from GRU's forecast of energy sales to each billing segment.

26. Does the Utility's load forecast for the 2026-2035 period recognize all forms of renewable generation resources in terms of a measurable demand reduction (in megawatts), a measurable energy reduction (in megawatt hours), or both? Please explain the Utility's response.

GRU's forecast explicitly recognizes energy reductions from grid-connected solar systems discussed above. Demand is derived from energy sales, and therefore demand reductions are implicit within the forecast. Any estimates of demand reductions associated with renewable energy are for discussion purposes rather than being specific adjustments to forecast demand.

27. Please refer to the **Excel Tables File (Customer-Owned Resources).** Complete the table by providing the forecasted data on customer-owned resources for the current planning period, including the number, capacity, and impact on forecasts of customer-owned renewable and energy storage resources.

Data for customer-owned renewable resources was included on the separate Excel file. GRU did not explicitly include impacts from energy storage resources in its forecast.

FEECA

28. **[FEECA Utilities Only]** Please refer to the **Excel Tables File (DR Participation)**. Complete the table by providing for each source of demand response annual customer participation information for three years prior to the current planning period. Please also provide a summary of all sources of demand response using the table.

GRU is not a FEECA utility.

29. **[FEECA Utilities Only]** Please refer to the **Excel Tables File (DR Annual Activations)**. Complete the table by providing for each source of demand response annual usage information for three years prior to the current planning period. Please also provide a summary of all demand response using the table.

GRU is not a FEECA utility.

30. **[FEECA Utilities Only]** Please refer to the Utility's 2026 TYSP.
    a. 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?
    b. If applicable, discuss what adjustments to the Load Forecast are made to the schedules when demand and energy savings achievements fall short of the Company's goals that were approved by the Commission?
    c. If the Company's demand and energy savings from the 2024 FEECA Goalsetting dockets are not reflected in the above-noted schedules, please explain what savings

assumptions from the 2024 FEECA Goalsetting dockets are incorporated within the ten-year site plan schedules, and why.

GRU is not a FEECA utility.

Plug-in Electric Vehicles (PEVs)

31. Please refer to the **Excel Tables File (PEV Charging).** Complete the table by providing estimates of the requested information within the Utility'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.

The requested information was provided in the provided Excel file.

32. Please identify and describe all methods and programs 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), and customer education. As part of the Utility's response, provide the estimated impact of each method or program on seasonal peak demand.

GRU has not yet undertaken any measures to mitigate the impact of electric vehicle charging on seasonal peak demands.

33. Please explain any historic trends related to the following:
    a. PEV counts

GRU estimates that there were approximately 2,900 electric vehicles located within its service area at year end 2024 and 3,600 electric vehicles at year-end 2025.

    b. PEV charging installation counts

Unknown.

    c. Annual energy consumption

GRU estimates that electric vehicle charging utilized approximately 10 GWh in 2024 and 13 GWh in 2025.

    d. Seasonal Peak Demand (Summer and Winter)

GRU estimates that electric vehicle charging will contribute approximately 11 MW to summer peak demand and approximately 17 MW to winter peak demand in 2026 (up from 7 and 11 MW in 2025).

34. Please explain any current or forecasted trends related to the following:
    a. PEV counts

       GRU anticipates the number of electric vehicles charging within its service area to increase from about 4,600 in 2026 to approximately 18,000 in 2035.

    b. PEV charging installation counts

       While the number of home charging installations is unknown, there are an estimated 82 level 2 and 63 level 3 public charging ports. These figures are expected to increase proportionately with the rise in PEVs

    c. Annual energy consumption

       GRU projects that electric vehicles will utilize 16 GWh in 2026, increasing to 67 GWh in 2035.

    d. Seasonal Peak Demand (Summer and Winter)

       GRU projects that electric vehicle charging loads will contribute 11 MW to summer peak demand in 2026, increasing to 46 MW in 2035. EV contribution to winter peak demand is projected to range from 17 MW in 2026, increasing to 70 MW in 2035.

35. Please describe any utility 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.

    GRU does not currently offer any programs or tariffs specifically tailored for PEVs. It is possible that future rate structures will be offered to encourage charging during off-peak hours.

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

       Not applicable.

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

       GRU does not have any such programs.

36. Has the Utility 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.

GRU has not conducted or contracted any such research.

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

GRU does not currently have any PEV pilot programs.

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

Not applicable.

Emerging Technologies

39. With respect to the energy consumption resulting from the emerging technologies-related electrical equipment (specifically PEVs and Data Centers):
    a. Please explain how PEVs and Data Centers are recognized in the Utility's sales forecasting models.

GRU's electrical vehicle forecast is added separately to its electric system forecast. GRU does not forecast data centers in its electric system forecast.

    b. Please explain whether PEVs and Data Centers have notable impacts on the forecasting accuracy of the Utility's annual retail energy sales models.

No, PEVs and data centers have not had notable impacts on forecasting accuracy.

    c. Please identify any other emerging technologies-related electrical equipment the Utility has specifically recognized in its sales forecasting models, and explain whether any such equipment has notable impacts on the forecasting accuracy of the Utility's annual retail energy sales model.

GRU has not identified any emerging technologies-related electrical equipment impacting its sales forecasting.

40. Please refer to the **Excel Tables File (Data Centers).** Complete the table by providing information on the data centers in the Utility's service area for the time period specified.
    a. Existing Data Centers, including data centers being served as of December 31, 2025.

GRU does not have any data centers in its service territory.

b. Planned Data Centers, including data centers that are planned to be in-service in 2026.

GRU does not have any data centers planned in its service territory.

c. Planned Data Centers, including data centers that are planned after 2026.

GRU does not have any data centers that are currently planned to be constructed in its service territory.

41. Does the load forecast in the Utility's 2026 TYSP include projections of annual energy consumption and demand associated with data centers within the Utility's service area during the forecasting time horizon (2026-2035)?

GRU does not have any projections of data centers in its forecast.

a. If such projections have been made, please provide details of the projections, including the type of data centers expected to contribute to energy/demand, and the factors that are driving this energy consumption and demand.

Not applicable.

b. If no specific projections have been made, please explain the Utility's assumption(s) or belief(s) regarding the likely pattern of load growth associated with this industry within its service territory.

While GRU has been contacted by data center site developers, these contacts have not resulted in developed projects. GRU is a relatively small system, and the scale of the power requirements for these data centers (100+ MW) is beyond GRU's current capabilities.

42. Please identify all issues and/or concerns, if any, the Utility expects to arise from the growth in data centers in the Utility's service territory, and explain how the Utility anticipates responding to such issues or concerns.

GRU is a relatively small system, and the scale of the power requirements for these data centers (100+ MW) is beyond GRU's current capabilities. Thus, GRU does not anticipate issues arising out of data centers within its service territory.

43. **[FEECA Utilities Only]** Please identify and discuss the Utility'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 Utility's system portfolio, and the timing of such implementation. In addition, discuss how any anticipated benefits will affect the Utility's customers.

GRU is not a FEECA utility.

44. Please explain whether and how the Utility has employed, or considered using, any type of artificial intelligence or other new technologies and tools in its sales and demand forecasting, operation, customer service, and cybersecurity management.

GRU has not employed, nor is considering at this time, using any type of artificial intelligence related tools in its sales and demand forecasting.

Generation & Transmission

Utility-Owned Resources

45. 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 (<1 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 Generation)**, including each utility-owned generation resource in service as of December 31 of the year prior to the current planning period.
    b. **Excel Tables File (Planned Utility Generation)**, including each utility-owned generation resource that is planned to enter service during the current planning period.

This information was provided in the Excel tables.

46. 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.

This information was provided in the Excel tables.

47. Please refer to the **Excel Tables File (Unit Dispatch).** Complete the table by providing the actual and projected capacity factors for each utility-owned generation resource in service during the current planning period for the 11-year period beginning one year prior to the current planning period.

This information was provided in the Excel tables.

48. **[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.

GRU is not an investor-owned utility.

49. 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.

Not applicable.

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

GRU does not have current firm plans to add any generation resources.

50. Please list and discuss any planned utility-owned 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?

Not applicable.

51. 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.

Not applicable.

52. Please identify and discuss emerging power generation and transmission 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.

GRU is not considering any emerging power generation and transmission technologies.

<u>Energy Storage</u>

53. Please refer to the **Excel Tables File** tabs listed below. 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 during the current planning period.
    a. **Excel Tables File (Existing Storage).**
    b. **Excel Tables File (Planned Storage)**.

    GRU has neither current nor planned energy storage projects.

54. 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 local, state, or federal legislation or regulation has changed how the Company plans to dispatch its energy storage facilities.

    Not applicable.

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

    Over the past few years, GRU has been in communication with several non-lithium battery storage manufacturers. These companies appear to be making progress in the development and commercialization of their respective product offerings (technologies), and public announcements have been made by several domestic utilities that are moving forward with some non-lithium-ion-based battery systems.

    For the time being, non-lithium-ion based battery storage systems continue to be more costly than lithium-ion systems.

56. 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).

    GRU's substations have been evaluated for available real estate to house an energy storage system. The majority of GRU's substations do not have adequate space, but there are a few substations that could be a candidate. Locating these storage systems near the source of load would reduce line losses. However, any potential energy storage site would require further analysis.

    If the energy storage system were larger than ~10 MW AC, the system would likely be located at the Deerhaven Generation Station where there is adequate real estate available and is adjacent to the Deerhaven substation.

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

Interest in energy storage among both residential and commercial customers has grown significantly, particularly as a means of providing backup power during outages. An increasing number of customers are also investing in energy storage systems alongside photovoltaic installations. In 2024, GRU revised its reimbursement policy for energy exported to the distribution system. Prior to this change, customers received full retail credit for all energy exported to the grid. However, for customers enrolling in the net metering program after April 2024, GRU now compensates exported energy at the utility's current fuel adjustment cost. This policy shift has incentivized customers to store excess generated energy for later use rather than exporting it to the grid.

58. 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.

GRU is not currently participating in or developing energy storage pilot programs due to the systems' costs.

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.
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.

59. 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.

GRU had a PPA with a solar provider for a utility-scale solar project that was to include energy storage for ramp rate mitigation. However, this project and the PPA were cancelled due to cost escalations.

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.

Not applicable.

60. 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.

GRU does not have any firm plans to add additional generation resources.

61. Please refer to the **Excel Tables File (Planned TLSA)**. 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.

GRU does not have any firm plans to add additional transmission resources.

Power Purchase and/or Sale Agreements

62. 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 (<1 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.

GRU has neither planned nor existing PPAs.

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

Not applicable.

64. 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?

GRU had a PPA for a 74.9 MW solar facility, but this PPA was cancelled due to economic reasons.

65. 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 (<1 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.

GRU has no planned or existing power sale agreements.

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

GRU has no planned power sale agreements.

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

Not applicable.

Reliability

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

This information is included in the tables supplied.

69. Please refer to **Excel Tables File (Hourly Reliability).** 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.

This information is included in the tables supplied.

70. 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.

GRU does not have solar facilities. However, assumed coincidence factors for solar have been evaluated for planning purposes using PVWatts for utility-scale solar facilities and GRU's historical load.

71. 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.

GRU had a PPA with a solar provider for a utility-scale solar project that was to include energy storage for ramp rate mitigation. However, this project and the PPA were cancelled due to cost escalations.

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.

Not applicable.

Fuel Supply & Transportation

72. 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 Utility uses multiple areas for as-available energy rates, please provide a system-average rate as well.

GRU does not have any such contractual purchases, sales, or as-available energy rates.

73. 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 Utility 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 Utility in the current planning period.

This data was provided in the accompanying tables.

74. Does the Utility compare its fuel price forecasts to recognized, authoritative independent forecasts? If so, please identify all such forecasts and discuss how Utility conducts its comparison. If not, please explain.

The utility uses NYMEX trading settlement price and EIA short-term energy outlook for its short-term price forecast and uses forecasts from S&P Global Platts for its longer term (more than three years) as a basis for its long term forecast.

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

Even though GRU no longer operates coal as a baseload fuel, broader industry trends remain relevant for market context and potential impacts on power purchases. National coal consumption is expected to continue declining due to emissions regulations, aging infrastructure, and ongoing retirements of coal units. Coal supply chains are also contracting, with reduced mining output and consolidation among producers. These trends may affect regional generation availability and wholesale power prices as well as cost and availability of future coal supply.

    b. Natural Gas.

Natural gas is expected to remain the dominant marginal fuel in Florida and the Southeast for the foreseeable future. Key factors affecting GRU include:

- **Price volatility is driven by LNG export growth, winter weather variability, and production changes in key basins.**
- **Pipeline constraints in Florida remain manageable but can contribute to price spikes during periods of high demand.**
- **Regulatory pressure on methane emissions may increase compliance or reporting requirements for gas-fired generation.**
- **Market competition with renewables may gradually shift dispatch patterns, but gas will remain essential for reliability and load-following capability during the planning horizon.**

    c. Nuclear.

Florida's existing nuclear fleet is expected to remain in service, but no new nuclear development is anticipated during the planning period. Industry trends relevant to GRU include:

- **Stable, zero-carbon baseload generation from regional nuclear units, which continues to influence wholesale market prices.**
- **Increasing national focus on small modular reactors (SMRs), though commercial deployment remains uncertain and outside GRU's current planning assumptions.**

- **Potential cost recovery and regulatory changes at the state or federal level related to plant life-extension or advanced nuclear development.**
- **Overall, nuclear trends mainly affect market conditions rather than GRU's direct fuel planning.**

d. Fuel Oil.

Fuel oil use across the U.S. continues its long-term decline and remains primarily a backup or emergency fuel. Key factors for GRU include:

- **Price variability, often tied to global distillate markets and geopolitical events.**
- **Supply chain tightness, as fewer suppliers and terminals maintain significant inventories.**
- **Environmental compliance requirements for oil-fired peaking or emergency operations.**
- **GRU will continue to rely on fuel oil primarily for reliability, outage coverage, or dual-fuel capability rather than routine generation.**

e. Other (**Renewables, Biomass, and Emerging Technologies**).

- **Renewables (Solar): Continued decline in the cost of utility-scale solar and its increased penetration across Florida may reduce regional daytime wholesale prices and influence GRU's economic dispatch.**
- **Biomass: Availability of feedstock and pricing are expected to remain relatively stable. Carbon-neutral regulatory treatment continues to support biomass as part of the generation mix.**
- **Battery Energy Storage: Rapid cost reductions and improving performance may increase adoption regionally and across the country. Battery deployments can affect peak pricing, system flexibility, and GRU's long-term planning considerations.**

76. Please provide a comparison of the Utility's 2025 fuel price forecast used to prepare its 2025 TYSP and its actual 2025 delivered fuel prices.

The Utility's 2025 TYSP used forecasted annual delivered fuel prices of $4.68/MMBtu for natural gas, $6.54/MMBtu for coal, and $3.33/MMBtu for biomass. Actual 2025 delivered prices were $4.55/MMBtu for natural gas, $7.65/MMBtu for coal, and $3.67/MMBtu for biomass. Compared to the forecast, natural gas prices were slightly lower than projected, coal prices were higher than forecast, and biomass prices were moderately higher than expected.

77. Please explain any notable changes in the Utility's forecast of fuel prices used to prepare the Utility's current TYSP compared to the forecast process used to prepare the Utility's prior TYSP.

The process was the same for biomass and natural gas. However, for coal, GRU used the price of current inventory on the ground, as we do not expect to take any new deliveries in the near future, instead of using a forward market forecast.

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

GRU ensures natural gas supply and transportation reliability through firm pipeline capacity, diversified procurement, operational coordination, and backup fuel capability. Key steps include:

- **GRU holds Firm Transportation (FT) capacity on the Florida Gas Transmission (FGT) system for delivery to the Deerhaven and J.R. Kelly generating stations. These contracts provide priority delivery rights on FGT and reduce exposure to curtailments during peak-demand or constrained operating conditions.**

- **GRU procures gas from multiple qualified suppliers to reduce dependence on any single counterparty. This approach supports supply continuity during market disruptions and provides competitive pricing.**

- **The utility manages daily and intra-day nominations on FGT to match real-time operational needs. GRU maintains regular communication with FGT regarding planned maintenance, operational flow orders (OFOs), and system alerts to ensure timely adjustments and maintain reliable deliveries.**

- **GRU utilizes financial hedges to mitigate exposure to short-term market volatility and secure predictable delivered-gas costs through the planning horizon.**

- **Deerhaven Unit 2 and certain peaking units maintain dual-fuel capability, allowing operation on coal or fuel oil when natural gas is limited. This serves as a reliability backstop during pipeline constraints or extreme weather events.**

GRU routinely evaluates natural gas supply conditions, regional FGT capacity developments, market fundamentals, and reliability considerations as part of its long-term planning and annual fuel procurement processes.

Environmental

79. 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. If the response is affirmative, answer the following questions:

    GRU does not assume any forthcoming carbon dioxide compliance costs.

    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.

        GRU is not an investor-owned utility.

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

        GRU is not an investor-owned utility.

80. 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.

    Existing environmental regulations are not forecasted to impact unit dispatch, curtailments, or retirements during the current planning period.

81. 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?

        GRU will not be materially affected by this rule.

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

        GRU will not be materially affected by this rule.

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

        GRU will not be materially affected by this rule.

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

GRU will not be materially affected by this rule.

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.

GRU will not be materially affected by this rule.

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

N/A.

82. 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.

None expected.

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

N/A.

c. Cooling Water Intake Structures (CWIS) Rule.

N/A.

d. Coal Combustion Residuals (CCR) Rule.

N/A.

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

N/A.

f. Affordable Clean Energy Rule or its replacement.

Unknown.

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

N/A.

83. 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.

GRU's units are not expected to be affected by these rules.

84. 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.

GRU's units are not expected to be affected by these rules.

85. 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.

GRU's units are not expected to be affected by these rules.

86. 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.

No costs are identified.

TYSP Year 2026

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TYSP Year 2026
Question No. 3(a)

Financial Assumptions			
Base Case			
AFUDC Rate		(%)	4.50
Capitalization Ratios	Debt	(%)	80
	Preferred	(%)	
	Equity	(%)	20
Rate of Return	Debt	(%)	10
	Preferred	(%)	
	Equity	(%)	10
Income Tax rate	State	(%)	
	Federal	(%)	
	Effective	(%)	
Other Tax Rate:		(%)	
Discount Rate:		(%)	4.5
Tax - Depreciation Rate:		(%)	

TYSP Year 2026
Question No. 3(b)

Financial Escalation Assumptions				
Year	General Inflation (%)	Plant Construction Cost (%)	Fixed O&M Cost (%)	Variable O&M Cost (%)
2026	3	3	3	3
2027	3	3	3	3
2028	3	3	3	3
2029	3	3	3	3
2030	3	3	3	3
2031	3	3	3	3
2032	3	3	3	3
2033	3	3	3	3
2034	3	3	3	3
2035	3	3	3	3

TYSP Year 2026
Question No. 4

Date	Hourly System Load (MW)																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1/1/2025	144	139	132	127	124	125	129	133	139	144	147	150	152	153	156	159	164	172	180	178	175	171	164	157
1/2/2025	152	149	149	150	156	166	185	202	212	208	197	187	178	172	170	171	177	189	203	206	207	202	195	188
1/3/2025	182	180	179	183	190	204	225	242	246	229	209	192	181	174	170	170	176	186	199	200	198	195	188	181
1/4/2025	174	169	167	170	175	183	195	207	217	212	202	191	182	173	169	169	176	188	202	206	208	207	203	198
1/5/2025	193	191	187	181	183	192	206	216	223	212	198	185	174	169	167	169	173	183	196	196	193	186	176	166
1/6/2025	158	154	153	154	158	168	185	190	186	179	175	176	181	179	181	175	175	183	198	197	193	189	181	175
1/7/2025	173	173	176	181	191	211	243	264	270	259	246	232	220	208	202	202	211	231	253	259	262	258	251	242
1/8/2025	238	238	238	241	272	289	319	334	330	303	274	251	231	216	208	208	217	237	262	270	271	264	251	237
1/9/2025	216	212	212	219	229	248	279	296	299	286	269	250	233	220	212	211	220	240	264	272	274	270	261	253
1/10/2025	246	241	241	244	250	261	285	293	284	261	235	212	197	191	180	181	184	195	203	199	192	183	172	161
1/11/2025	151	143	138	135	136	139	147	156	168	180	190	195	203	210	211	216	221	231	243	242	239	238	233	228
1/12/2025	224	225	229	236	244	253	268	287	298	283	259	241	227	214	206	203	214	226	241	243	238	228	213	197
1/13/2025	184	174	169	168	171	183	206	221	226	229	232	233	232	231	230	232	240	251	263	263	256	243	225	209
1/14/2025	196	187	182	183	190	206	233	252	252	239	225	211	199	190	184	186	194	211	232	237	235	227	213	203
1/15/2025	199	195	194	194	198	209	233	245	248	244	238	233	221	211	203	203	210	225	243	247	246	239	226	214
1/16/2025	205	196	190	187	191	204	226	238	239	233	225	215	211	197	183	182	189	203	223	228	227	223	216	208
1/17/2025	203	200	200	203	212	229	256	274	278	255	226	206	192	183	178	178	184	195	210	211	207	200	191	180
1/18/2025	168	159	153	149	148	151	160	167	173	175	172	173	169	178	176	177	180	184	193	191	185	177	167	157
1/19/2025	146	138	133	129	128	131	134	140	150	161	172	181	184	182	182	180	182	188	197	196	193	186	180	173
1/20/2025	167	165	165	168	178	194	217	239	257	270	272	257	243	230	221	220	228	247	269	275	272	265	250	236
1/21/2025	224	215	211	211	216	230	255	271	275	276	274	273	274	271	268	271	278	294	307	311	310	304	296	288
1/22/2025	282	278	277	277	282	291	307	323	340	349	347	337	325	310	304	303	309	324	344	346	346	338	323	307
1/23/2025	293	283	280	278	280	292	317	330	330	320	303	282	259	241	237	234	238	255	273	275	275	271	263	256
1/24/2025	252	253	257	264	274	294	324	343	340	315	288	263	242	226	221	230	239	249	269	279	286	288	287	284
1/25/2025	284	286	290	296	304	317	333	349	350	317	279	251	230	213	201	195	198	210	229	237	240	239	234	229
1/26/2025	225	222	223	225	226	228	232	241	248	234	214	197	187	180	178	178	183	193	207	210	208	201	192	180
1/27/2025	171	166	165	168	175	190	216	233	233	214	197	185	180	174	171	172	178	189	204	207	201	193	180	166
1/28/2025	153	144	140	139	142	151	172	182	186	180	171	168	166	166	167	171	177	186	202	203	200	192	180	168
1/29/2025	160	153	152	154	161	174	197	212	213	199	186	175	169	166	168	173	181	190	201	202	197	188	175	163
1/30/2025	152	145	142	141	146	158	182	198	200	189	178	172	169	168	171	176	181	188	199	200	195	185	173	159
1/31/2025	147	138	132	129	132	141	160	172	176	173	173	174	177	180	185	190	196	199	205	203	195	187	177	166
2/1/2025	154	144	136	129	126	127	132	139	150	155	159	163	167	171	177	181	186	190	192	190	182	172	163	152
2/2/2025	143	137	132	131	132	137	145	154	164	163	165	166	171	177	182	187	194	200	210	210	202	189	174	158
2/3/2025	144	133	126	123	125	133	152	165	171	173	176	179	179	182	183	191	199	207	216	216	207	194	178	162
2/4/2025	147	136	128	125	126	135	153	164	169	168	168	172	177	184	193	202	210	213	218	215	204	191	175	158
2/5/2025	143	133	126	124	126	135	156	180	184	173	178	182	188	193	204	217	221	225	236	236	225	211	191	171
2/6/2025	155	143	133	131	133	142	162	172	179	181	185	193	203	211	218	226	231	234	237	235	225	211	191	174
2/7/2025	157	146	138	134	134	142	160	172	181	185	187	187	194	201	207	214	223	225	226	220	209	197	183	168
2/8/2025	154	143	136	131	130	133	141	148	160	170	176	177	181	190	199	209	217	219	221	217	206	194	181	167
2/9/2025	153	142	136	131	130	132	139	146	159	167	172	179	189	201	210	221	232	237	234	223	208	197	185	171
2/10/2025	153	141	134	130	132	141	160	172	178	182	184	182	178	187	198	209	219	226	231	230	219	205	188	169
2/11/2025	154	143	137	133	133	141	160	173	180	184	187	191	192	200	206	214	223	230	235	233	223	209	192	174
2/12/2025	158	147	140	136	138	147	167	178	186	188	192	197	208	220	233	243	253	256	257	254	242	228	209	189
2/13/2025	171	156	147	141	140	149	169	181	188	197	208	221	236	251	260	255	240	237	240	238	230	217	198	179
2/14/2025	162	148	139	134	133	140	157	167	173	175	177	182	189	193	195	196	198	201	208	206	198	187	176	165
2/15/2025	153	143	136	131	130	133	140	148	160	173	186	196	204	214	219	226	233	237	236	231	217	202	187	174
2/16/2025	161	150	143	138	137	138	144	150	166	182	195	211	203	197	193	188	189	194	203	206	199	190	178	164
2/17/2025	152	143	137	135	139	149	170	187	197	196	192	186	180	175	174	178	185	198	213	221	217	208	196	183
2/18/2025	173	166	164	165	172	186	216	231	226	210	194	183	177	174	176	178	185	196	209	213	206	197	182	167
2/19/2025	154	144	139	137	139	150	171	185	190	192	196	197	196	196	183	186	190	196	205	206	200	190	176	163
2/20/2025	152	143	139	138	142	152	174	189	197	195	182	179	172	166	165	167	175	188	205	215	216	214	207	199
2/21/2025	194	191	192	196	207	225	256	275	273	256	236	220	204	192	184	184	191	205	223	235	236	233	226	220
2/22/2025	213	206	202	199	201	207	216	222	228	226	209	189	181	176	172	172	174	178	186	193	190	183	175	164
2/23/2025	156	150	148	148	152	159	171	181	184	177	170	164	164	163	166	172	178	185	194	198	192	183	169	154
2/24/2025	142	133	127	126	129	140	160	173	181	184	187	192	192	192	190	191	195	205	214	215	209	198	183	169
2/25/2025	156	146	141	138	140	150	171	181	185	185	178	167	165	170	171	173	182	189	197	202	196	186	172	157
2/26/2025	145	136	131	130	134	147	171	185	184	174	167	165	166	170	175	184	194	201	206	206	198	186	170	155
2/27/2025	142	132	127	126	129	140	163	174	173	168	165	166	169	177	184	190	198	202	205	207	199	187	172	157
2/28/2025	144	134	128	124	125	133	152	163	166	163	161	161	163	167	174	182	190	193	193	192	185	175	165	153
Leave Row																								
3/1/2025	143	135	132	130	132	137	147	157	163	162	158	157	158	161	166	172	181	186	188	188	181	172	163	153
3/2/2025	143	134	128	124	123	126	131	138	147	152	152	154	157	161	166	172	179	188	194	197	191	182	169	156
3/3/2025	145	138	135	136	143	157	182	198	194	182	174	168	162	164	167	171	177	185	196	201	195	185	170	156
3/4/2025	142	134	129	127	129	139	159	168	168	165	166	171	176	181	187	192	197	203	210	213	206	193	178	163
3/5/2025	150	139	133	130	131	138	157	169	176	186	187	179	174	180	182	189	193	197	200	203	196	186	171	155
3/6/2025	143	132	126	125	129	140	163	177	177	173	167	162	160	159	160	164	171	179	190	198	193	184	172	162
3/7/2025	153	148	145	146	152	167	192	207	200	186	174	165	161	160	164	170	177	183	186	188	182	173	165	156
3/8/2025	148	141	138	135	136	141	149	157	167	176	179	182	178	178	179	178	177	182	189	190	185	177	167	155
3/9/2025	144	140	136	131	128	128	132	137	144	153	165	171	176	179	181	185	190	198	201	209	210	198	181	165
3/10/2025	150	137	130	127	128	138	157	171	175	179	180	180	180	176	179	182	181	185	192	194	197	188	175	160
3/11/2025	146	136	130	130	133	144	168	186	190	182	172	163	160	159	162	170	179	190	198	200	201	191	175	158
3/12/2025	145	134	128	127	130	141	164	182	186	179	169	164	163	164	168	177	187	198	204	203	203	191	176	159
3/13/2025	145	134	126	125	126	135	156	171	176	172	168	166	165	170	175	183	193	203	207	208	208	196	180	162
3/14/2025	146	134	126	122	123	130	149	162	167	166	167	169	173	180	187	198	208	215	214	207	203	192	179	164
3/15/2025	149	138	130	125	123	125	132	138	146	156	165	174	183	192	203	214	223	227	225	220	215	202	187	173
3/16/2025	160	149	141	136	135	136	140	147	157	170	180	187	192	192	189	182	182	187	187	190	190	181	167	151
3/17/2025	139	129	123	120	121	127	139	151	157	158	156	154	151	150	149	151	157	166	172	174	178	171	159	147
3/18/2025	138	132	130	130	134	144	165	181	188	180	168	159	153	152	153	157	165	175	181	180	180	171	158	145
3/19/2025	134	127	124	124	129	140	158	171	178	170	161	156	155	156	162	171	182	191	196	192	188	177	162	146
3/20/2025	135	126	121	119	121	127	141	152	157	159	160	164	167	172	179	175	167	170	174	174	177	170	159	147
3/21/2025	136	129	126	127	131	141	159	175	184	180	174	165	158	152	150	150	153	161	166	169	172	168	160	152
3/22/2025	145	140	139	139	142	149	161	174	183	178	167	158	151	147	145	149	155	164	170	171	173	167	158	147
3/23/2025	137	130	127	127	129	134	141	153	161	161	157	154	153	153	158	167	179	191	197	199	201	191	175	157

3/24/2025	141	129	122	120	122	130	148	161	165	168	172	176	181	185	181	180	187	195	201	207	210	200	184	166
3/25/2025	150	138	131	127	126	134	151	162	166	168	171	178	182	189	201	213	225	236	241	235	233	217	196	173
3/26/2025	155	141	132	127	126	132	148	159	166	169	174	180	189	200	212	225	238	248	249	239	229	212	190	168
3/27/2025	150	136	128	123	123	130	147	159	164	166	166	169	175	182	194	206	218	226	226	219	213	199	184	165
3/28/2025	150	138	129	124	125	132	148	159	164	167	173	178	187	196	203	213	219	225	225	219	214	202	187	171
3/29/2025	157	145	136	130	127	129	134	141	151	160	167	177	187	198	205	215	226	235	236	227	222	213	199	182
3/30/2025	166	153	144	138	134	134	139	144	156	169	180	188	193	196	195	192	191	195	199	200	205	199	186	169
3/31/2025	154	143	135	131	132	139	152	163	171	179	188	199	206	214	225	236	246	248	246	244	244	231	210	190
4/1/2025	174	161	152	148	147	155	171	182	188	194	204	216	228	238	250	263	267	276	277	270	264	248	225	202
4/2/2025	181	164	153	145	144	150	165	175	184	193	204	218	237	258	276	294	307	315	312	297	287	270	245	221
4/3/2025	199	182	168	160	157	163	179	190	197	205	218	231	247	263	279	294	307	315	314	298	286	273	252	227
4/4/2025	205	187	173	164	159	162	175	183	193	205	218	232	249	268	284	299	307	311	307	293	281	263	242	219
4/5/2025	197	180	166	155	149	147	151	156	169	184	201	218	235	254	276	295	307	313	304	285	271	259	236	214
4/6/2025	196	180	168	159	153	150	152	155	169	186	202	219	238	258	274	287	297	303	299	285	276	258	235	210
4/7/2025	189	171	159	152	153	160	175	187	194	203	218	237	256	274	287	292	293	288	282	278	267	241	208	186
4/8/2025	173	159	148	139	136	140	152	158	163	163	164	166	170	176	183	192	205	216	221	214	212	201	185	168
4/9/2025	150	140	137	129	124	124	131	147	156	161	162	163	166	169	174	182	193	205	217	220	216	213	202	184
4/10/2025	165	150	137	128	124	125	132	148	157	163	169	176	184	190	195	202	214	228	239	243	239	233	217	195
4/11/2025	173	155	142	134	128	127	131	145	154	160	163	167	173	180	192	206	219	226	228	219	207	200	188	174
4/12/2025	160	147	137	129	124	122	124	131	138	147	152	153	153	153	154	159	168	178	187	190	187	186	179	167
4/13/2025	155	143	133	127	123	122	124	129	135	144	148	152	155	158	163	170	181	192	205	210	206	205	193	177
4/14/2025	159	144	131	124	121	123	131	147	157	162	162	164	167	173	181	192	207	223	235	238	231	225	211	190
4/15/2025	169	152	139	130	126	126	131	147	156	163	167	173	179	189	200	212	227	238	249	248	241	237	225	206
4/16/2025	185	166	151	140	134	131	135	148	154	161	162	164	168	172	180	190	202	216	227	231	223	215	201	182
4/17/2025	161	145	134	126	123	124	131	147	158	162	163	166	169	174	183	194	210	226	239	242	234	227	215	196
4/18/2025	176	158	144	135	130	128	133	145	154	163	171	179	188	200	215	233	251	269	279	276	263	253	236	215
4/19/2025	194	174	159	147	139	135	135	139	142	155	170	182	194	208	227	244	263	279	289	284	269	256	240	218
4/20/2025	196	177	160	147	139	134	133	134	138	150	162	174	185	201	219	237	254	270	279	276	266	261	246	225
4/21/2025	202	182	166	154	146	146	151	162	169	180	191	203	219	232	251	266	277	282	292	289	279	272	255	229
4/22/2025	204	183	167	154	146	143	148	161	170	179	189	201	215	230	245	256	268	281	290	285	277	271	258	233
4/23/2025	208	186	169	157	148	145	149	162	170	181	190	203	220	240	257	274	287	300	311	311	296	282	264	238
4/24/2025	213	192	175	162	153	149	154	166	173	184	196	207	218	235	250	265	279	291	297	294	279	267	251	226
4/25/2025	203	182	167	155	146	142	146	158	167	175	187	201	217	232	249	267	287	301	308	303	289	276	258	234
4/26/2025	212	191	174	162	153	148	146	149	152	165	180	197	211	234	258	278	294	306	313	307	293	278	264	241
4/27/2025	218	197	179	165	155	148	146	147	150	164	183	204	229	259	280	298	313	326	332	329	315	301	283	254
4/28/2025	224	200	183	170	161	157	161	172	180	191	204	220	240	263	288	311	320	329	314	299	276	250	233	212
4/29/2025	191	174	161	152	146	145	151	165	174	182	192	206	219	233	243	259	273	283	285	280	270	259	242	216
4/30/2025	193	173	158	148	140	138	143	156	164	172	180	191	203	217	234	254	274	292	301	298	283	269	250	224
5/1/2025	177	161	149	141	138	143	156	162	172	184	197	211	227	245	264	279	286	283	276	267	261	249	227	202
5/2/2025	181	165	153	145	142	146	158	166	178	190	204	219	238	256	274	289	300	301	294	278	267	253	232	210
5/3/2025	192	176	166	157	151	150	152	156	170	188	204	216	238	248	259	268	277	275	265	253	248	237	221	202
5/4/2025	186	172	163	157	149	144	144	147	159	171	188	208	224	242	253	263	273	281	277	266	255	241	220	196
5/5/2025	176	160	149	142	141	145	157	164	171	181	192	207	227	246	255	265	277	285	283	270	255	237	212	187
5/6/2025	166	150	141	135	134	139	152	159	168	178	192	210	229	249	264	276	292	302	303	289	275	256	230	206
5/7/2025	189	176	165	159	157	163	175	183	194	203	219	241	267	290	287	272	283	298	297	290	281	265	242	217
5/8/2025	196	180	169	164	161	164	177	186	195	204	215	234	262	274	280	276	276	285	280	270	264	250	229	207
5/9/2025	187	173	161	153	152	157	169	178	190	205	223	239	260	279	294	311	320	315	298	280	268	255	235	215
5/10/2025	196	178	166	157	154	153	155	160	171	185	188	197	207	219	230	239	251	251	224	207	202	199	188	175
5/11/2025	163	152	145	140	140	142	145	152	167	182	193	202	205	208	204	204	209	218	222	223	226	216	200	181
5/12/2025	168	157	151	146	147	153	168	179	186	191	198	206	216	232	241	255	253	250	253	252	242	227	206	184
5/13/2025	166	153	144	138	137	142	154	164	175	186	199	210	225	234	223	245	260	266	265	256	246	233	211	188
5/14/2025	169	154	145	139	138	142	154	163	173	183	198	212	228	248	264	279	294	302	302	290	274	257	229	202
5/15/2025	179	163	153	146	145	151	164	172	183	197	213	234	257	279	301	317	328	334	327	308	288	269	242	215
5/16/2025	193	175	162	153	150	154	167	177	188	202	219	239	265	292	317	332	342	344	335	315	293	272	245	219
5/17/2025	197	179	165	155	150	149	153	159	174	194	214	237	265	293	319	336	348	348	338	317	298	277	250	225
5/18/2025	203	185	174	165	161	159	158	162	179	197	218	242	271	298	320	338	350	353	340	319	302	285	260	235
5/19/2025	213	193	177	167	163	167	177	184	198	214	232	255	281	307	331	349	358	357	351	336	322	303	274	245
5/20/2025	221	201	186	177	172	175	186	195	209	226	248	276	303	323	343	356	364	367	361	344	325	303	272	245
5/21/2025	223	204	191	183	180	183	193	201	216	237	259	285	309	330	343	348	358	364	353	335	323	307	278	252
5/22/2025	229	208	193	183	179	181	191	195	201	209	222	238	258	274	279	280	282	281	277	270	259	246	223	199
5/23/2025	179	161	150	143	141	146	157	165	179	193	212	234	260	286	311	332	347	354	346	331	312	292	263	237
5/24/2025	214	194	179	167	161	158	157	163	180	201	222	247	276	305	330	347	359	365	360	340	318	296	270	242
5/25/2025	218	199	185	176	170	168	166	169	185	205	231	262	289	311	327	342	355	345	302	288	274	262	240	218
5/26/2025	200	184	172	164	161	160	161	165	181	203	227	254	287	310	333	350	360	366	360	344	323	300	271	242
5/27/2025	216	196	182	171	167	169	178	189	206	228	246	272	306	333	349	368	380	385	374	355	335	315	284	257
5/28/2025	233	213	198	187	183	186	194	201	215	237	257	280	302	323	337	327	310	323	331	326	312	293	267	242
5/29/2025	219	201	188	178	176	179	190	200	217	237	257	279	307	332	351	359	355	346	326	292	278	267	245	224
5/30/2025	204	187	175	167	165	168	178	187	201	218	237	260	284	307	324	336	340	340	328	314	302	290	267	246
5/31/2025	229	207	188	178	172	171	174	176	184	190	198	208	220	243	262	277	289	297	294	281	263	246	223	202
6/1/2025	182	167	156	148	143	142	142	147	161	177	193	213	234	257	275	290	302	308	303	289	271	256	230	205
6/2/2025	184	166	154	148	147	152	161	169	180	194	211	232	255	277	295	306	306	304	297	288	281	276	252	228
6/3/2025	206	191	179	170	168	171	180	189	204	219	241	262	283	294	284	263	248	244	241	233	230	224	211	196
6/4/2025	183	170	162	157	158	164	174	183	193	206	223	238	254	275	288	304	298	289	288	279	269	258	238	220
6/5/2025	202	189	178	170	169	173	181	192	205	220	240	263	293	299	309	300	289	271	268	272	271	264	246	225
6/6/2025	206	189	178	169	166	170	179	190	208	230	252	274	295	301	321	334	333	331	318	307	295	282	261	240
6/7/2025	220	204	192	183	178	176	176	182	201	225	249	274	293	317	333	344	351	347	339	322	306	294	273	253
6/8/2025	234	218	205	195	189	188	186	190	210	233	257	285	310	333	340	351	332	335	328	315	303	292	271	247
6/9/2025	227	210	197	189	187	191	198	209	224	247	271	297	309	321	339	351	355	357	351	337	321	302	276	250
6/10/2025	228	210	198	189	185	189	198	207	225	246	254	277	306	330	351	360	366	366	363	349	337	318	277	245
6/11/2025	220	201	186	177	174	177	185	194	208	226	248	276	305	329	343	354	346	303	285	274	267	260	241	223
6/12/2025	206	191	176	170	169	175	183	195	212	230	253	277	300	322	342	359	371	370	356	323	294	275	251	228
6/13/2025	210	195	184	177	176	180	187	197	212	232	252	276	297	316	319	310	311	320	286	280	271	262	245	226
6/14/2025	210	195	183	175	172	171	173	180	199	224	248	264	267	263	286	284	267	281	292	293	282	272	252	232
6/15/2025	214	199	187	179	174	173	172	179	201	222	247	276	295	278	279	303	327	339	321	292	271	260	242	220
6/16/2025	202	187	177	170	168	173	182	194	212	231	253	279	306	297	301	307	310	314	325	324	312	298	271	244
6/17/2025	222	203	191	182	180	184	192	203	220	237	262	290	318	339	356	369	376	346	329	316	305	292	265	240
6/18/2025	218	202	192	186	185	188	196	204	220	237	262	290	315	339	354	360	333	308	296	290	284	275	256	233
6/19/2025	213	199	189	181	180	182	188	198	216	241	268	297	303	300	308	308	290	292	300	294	288	280	257	236
6/20/2025	216	201	190	182	180	182	189	198	213	230	252	278	301	327	348	362	372	376	363	334	301	283	259	236

6/21/2025	215	197	183	174	169	166	167	173	193	219	245	275	302	320	331	340	351	349	335	321	305	291	269	247
6/22/2025	226	208	194	184	179	176	174	180	201	226	249	275	302	326	344	358	369	367	359	344	327	312	287	261
6/23/2025	237	217	202	193	189	191	196	207	225	246	268	291	315	336	354	369	371	371	366	352	332	316	288	261
6/24/2025	235	215	200	189	185	185	192	200	217	237	257	281	305	330	351	369	380	383	378	363	343	324	293	264
6/25/2025	236	214	197	187	184	187	195	204	221	243	268	294	318	343	363	375	382	388	384	368	346	330	304	274
6/26/2025	249	228	211	199	194	195	200	208	225	245	267	292	315	335	350	360	338	323	302	283	273	261	241	221
6/27/2025	203	187	174	168	167	170	179	190	209	228	248	272	297	322	340	335	325	330	323	286	267	255	237	219
6/28/2025	200	185	174	167	163	163	165	170	185	204	218	228	249	277	283	281	278	276	278	270	260	251	234	215
6/29/2025	197	183	173	166	162	162	162	167	181	196	214	243	250	264	260	242	237	240	243	244	248	245	231	213
6/30/2025	196	182	173	168	165	169	177	188	201	213	231	245	248	244	254	272	277	285	280	268	259	248	230	210
7/1/2025	192	179	169	164	163	167	176	186	200	218	239	261	283	298	297	315	321	328	331	318	302	286	259	234
7/2/2025	212	199	188	180	179	182	190	199	213	227	247	268	280	281	306	310	293	287	279	266	262	255	239	221
7/3/2025	205	191	182	175	175	179	187	195	209	225	248	269	288	315	331	326	286	270	260	251	247	241	228	213
7/4/2025	198	186	176	169	166	167	171	176	188	206	228	254	280	302	318	332	343	317	278	268	259	249	235	222
7/5/2025	208	195	184	176	172	171	173	176	186	201	223	247	271	293	312	327	338	339	335	322	306	293	270	248
7/6/2025	228	211	198	188	182	180	180	183	197	212	234	256	276	297	285	267	260	269	284	285	280	271	251	229
7/7/2025	209	194	184	176	175	178	186	196	213	234	257	279	302	324	340	353	363	365	361	347	327	310	283	257
7/8/2025	234	215	201	190	188	191	198	207	224	245	268	292	316	337	333	330	339	336	325	312	303	293	271	250
7/9/2025	230	214	202	194	193	197	207	213	226	240	260	287	312	326	324	302	282	263	252	242	237	231	219	203
7/10/2025	189	176	166	163	163	168	179	188	201	217	240	269	297	318	319	335	349	357	356	345	325	306	280	255
7/11/2025	228	207	193	183	181	183	191	199	217	242	266	291	319	330	325	347	355	356	349	334	322	306	281	256
7/12/2025	236	218	204	193	186	184	184	188	207	235	262	288	314	332	324	277	266	267	273	275	274	268	252	233
7/13/2025	215	200	190	181	177	176	177	182	203	229	257	290	316	322	321	343	362	363	357	347	341	322	286	259
7/14/2025	236	218	205	195	190	192	198	204	219	236	250	287	325	356	373	373	321	295	282	275	269	259	238	219
7/15/2025	200	186	176	168	167	172	184	194	206	217	232	255	279	305	290	282	276	269	260	252	247	240	222	204
7/16/2025	188	174	164	158	160	167	181	193	206	222	244	278	291	313	331	347	362	361	355	306	280	266	242	221
7/17/2025	201	186	175	168	168	173	184	195	211	231	253	280	306	331	351	367	380	371	325	309	295	285	263	241
7/18/2025	222	205	192	183	182	185	194	203	218	241	268	298	325	346	365	381	393	387	368	360	340	322	295	271
7/19/2025	248	229	213	201	195	193	193	198	218	246	273	304	332	353	370	384	395	398	385	368	349	329	300	272
7/20/2025	248	227	211	198	191	187	185	187	208	236	265	295	325	350	371	387	399	404	400	384	357	335	307	278
7/21/2025	253	235	221	211	207	214	223	226	227	230	234	255	285	321	352	330	332	346	331	320	312	300	278	254
7/22/2025	234	219	209	203	203	210	222	231	240	243	249	248	248	243	239	253	290	314	322	315	306	294	271	248
7/23/2025	228	213	202	196	194	196	205	211	223	239	256	274	285	307	333	349	357	324	297	277	265	256	239	220
7/24/2025	203	188	186	187	185	190	201	210	222	239	261	284	309	330	348	362	366	366	343	324	311	299	277	253
7/25/2025	232	214	201	192	188	190	198	208	226	249	270	296	320	340	356	370	366	342	325	311	300	288	269	248
7/26/2025	229	214	202	192	188	186	187	190	208	233	261	292	321	344	359	370	359	340	338	338	325	312	290	270
7/27/2025	252	234	220	209	202	198	196	199	217	243	273	305	335	359	376	390	401	407	404	390	369	351	327	302
7/28/2025	276	256	238	226	218	217	222	228	246	270	298	330	357	381	399	412	421	426	423	407	384	365	338	312
7/29/2025	287	267	251	242	237	236	241	247	263	288	318	351	378	397	412	424	429	430	413	365	343	326	302	280
7/30/2025	258	240	226	216	211	213	220	225	240	264	293	325	351	375	397	410	412	409	401	391	374	356	330	305
7/31/2025	279	258	242	230	225	224	231	236	253	276	301	324	350	370	387	398	404	405	397	380	359	341	314	287
8/1/2025	262	241	225	214	208	209	215	221	241	267	293	318	342	365	383	398	407	408	398	382	361	343	317	292
8/2/2025	269	250	235	223	217	214	213	213	225	243	260	278	304	331	346	360	371	377	374	361	344	327	305	280
8/3/2025	257	238	225	215	208	205	204	205	221	247	276	304	303	300	286	276	281	294	294	291	287	280	262	242
8/4/2025	224	209	198	190	188	192	199	207	225	246	271	300	326	337	317	345	359	351	335	322	307	292	270	247
8/5/2025	229	215	205	197	193	194	201	207	223	242	270	300	325	343	322	338	316	313	317	311	303	287	263	242
8/6/2025	222	206	195	188	184	187	195	202	216	234	260	290	315	301	275	284	309	330	339	320	301	286	263	240
8/7/2025	219	203	192	184	180	184	194	203	219	238	256	280	305	327	342	334	337	330	321	310	302	287	266	244
8/8/2025	226	210	197	189	185	186	195	201	212	226	249	277	294	306	299	298	300	295	286	275	271	262	247	230
8/9/2025	214	200	189	182	179	178	180	185	201	221	245	270	296	317	332	331	329	327	321	304	294	282	262	243
8/10/2025	226	211	199	191	188	187	189	191	206	225	246	273	296	313	318	331	345	344	338	323	303	283	258	236
8/11/2025	218	205	196	189	187	194	209	214	223	234	254	280	304	323	340	353	365	371	366	350	337	319	289	249
8/12/2025	231	219	205	197	195	201	212	219	233	248	268	291	315	336	355	373	385	389	376	356	344	322	297	272
8/13/2025	250	232	218	209	205	207	218	222	236	254	279	308	336	358	331	313	300	299	301	307	305	294	273	249
8/14/2025	230	215	202	197	195	199	210	218	231	250	277	299	319	338	354	366	386	390	389	378	361	341	313	284
8/15/2025	261	241	226	216	212	213	223	228	244	264	289	314	336	360	378	393	406	406	377	356	321	298	277	257
8/16/2025	238	223	210	199	193	192	194	197	214	237	263	292	324	351	373	388	392	371	338	316	299	286	267	247
8/17/2025	227	211	198	190	186	188	191	195	208	221	240	254	276	298	319	338	345	347	339	324	308	294	274	250
8/18/2025	230	214	202	194	191	196	208	216	229	248	269	292	318	335	346	365	378	385	372	350	330	307	282	257
8/19/2025	235	218	206	198	196	199	212	219	231	249	273	296	321	343	362	370	358	360	353	343	331	314	288	261
8/20/2025	238	219	206	198	194	197	210	215	229	247	267	291	315	336	354	370	382	387	383	371	356	339	312	283
8/21/2025	257	235	221	209	203	204	214	220	232	249	274	301	329	344	323	325	346	365	365	346	321	302	277	252
8/22/2025	231	214	203	194	191	194	206	214	228	246	266	281	299	310	319	327	331	338	339	325	310	294	274	252
8/23/2025	234	219	206	197	193	191	194	197	209	218	228	239	260	292	309	318	320	323	303	283	276	262	246	228
8/24/2025	212	199	190	184	181	179	180	182	197	214	234	261	289	312	320	327	340	338	323	313	309	295	275	250
8/25/2025	229	211	199	190	188	194	206	214	223	238	263	282	299	318	336	352	364	368	351	322	307	291	269	246
8/26/2025	225	209	198	190	187	191	203	209	214	225	240	260	288	313	334	351	364	371	363	344	329	306	278	248
8/27/2025	222	200	184	174	169	171	184	190	201	215	233	255	282	308	330	348	362	369	364	346	335	314	289	262
8/28/2025	239	219	205	196	192	195	208	215	226	244	266	290	314	331	345	363	362	352	347	323	316	300	275	251
8/29/2025	229	212	197	187	183	187	199	206	216	232	251	274	293	310	324	318	300	297	295	290	282	267	248	229
8/30/2025	215	201	191	184	181	181	185	189	201	222	248	270	293	309	309	312	313	311	303	290	280	267	253	237
8/31/2025	217	199	185	175	170	170	173	175	186	200	222	250	268	275	286	298	304	300	295	281	273	261	245	228
9/1/2025	212	196	185	178	175	175	178	177	189	207	230	248	259	274	284	294	303	308	298	289	281	266	242	218
9/2/2025	196	180	168	161	159	165	181	190	197	205	222	246	272	295	312	328	335	333	323	313	304	283	257	231
9/3/2025	207	189	175	166	163	167	180	187	199	212	230	250	269	288	300	313	329	335	333	320	309	287	261	233
9/4/2025	209	190	176	167	164	168	183	191	204	223	243	264	289	310	328	344	356	360	355	337	324	301	276	249
9/5/2025	225	204	189	179	174	175	187	193	207	228	252	276	302	327	349	364	373	373	363	341	325	303	276	252
9/6/2025	230	213	199	187	181	180	184	187	203	231	265	296	321	343	357	350	351	342	321	303	300	287	265	243
9/7/2025	223	205	193	184	180	180	183	186	200	221	250	282	308	332	351	362	376	355	330	317	300	280	258	236
9/8/2025	218	202	190	182	181	187	200	209	221	237	257	273	294	307	318	311	301	295	287	282	277	264	244	225
9/9/2025	207	193	183	177	176	182	198	205	212	219	231	243	258	273	274	279	285	293	290	284	279	263	241	218
9/10/2025	198	181	169	160	158	163	176	182	191	205	221	239	261	283	303	321	334	332	318	304	295	277	251	224
9/11/2025	201	183	169	162	161	165	177	183	191	205	217	233	250	268	285	290	296	302	296	287	277	259	234	211
9/12/2025	190	174	164	156	155	159	173	179	187	196	210	229	245	264	286	301	308	308	297	281	269	249	229	207
9/13/2025	189	174	163	155	151	151	154	157	170	187	207	230	249	268	282	292	300	303	289	273	257	238	219	202
9/14/2025	183	167	157	150	146	145	148	150	163	180	200	224	245	266	284	296	303	305	297	282	269	249	224	198
9/15/2025	176	159	148	141	140	145	158	166	174	184	197	211	227	244	263	281	297	304	298	283	268	252	228	204
9/16/2025	184	167	155	148	146	150	163	172	181	190	207	226	245	265	285	300	317	323	316	303	293	273	247	221
9/17/2025	199	181	168	159	156	159	171	177	189	202	218	236	252	268	289	303	320	320	311	300	292	272	244	217

9/18/2025	195	177	164	155	152	156	169	176	187	203	219	239	264	290	311	327	338	340	330	315	301	280	255	229
9/19/2025	208	191	177	167	163	166	179	185	196	212	230	250	274	300	323	340	349	351	334	315	289	264	244	226
9/20/2025	209	193	180	171	165	163	167	169	182	203	225	248	274	298	316	330	338	336	324	306	290	269	246	226
9/21/2025	205	188	173	163	157	155	158	160	174	197	223	248	273	297	317	331	339	342	331	315	304	282	256	231
9/22/2025	209	192	179	170	168	174	187	195	203	215	235	257	278	302	322	337	351	356	347	337	327	306	279	253
9/23/2025	229	210	196	186	182	186	200	206	216	231	252	277	305	327	346	364	374	377	362	341	327	304	280	255
9/24/2025	233	215	200	190	186	189	202	209	218	235	255	278	305	330	350	362	376	369	348	334	322	302	276	251
9/25/2025	229	212	197	189	187	191	203	210	222	242	261	279	304	277	281	299	323	335	329	303	291	271	248	226
9/26/2025	207	192	180	173	171	176	189	197	209	227	249	269	292	284	272	265	266	266	265	262	257	245	231	217
9/27/2025	202	190	181	174	170	170	174	180	190	202	214	224	228	237	262	281	297	296	283	272	263	249	231	214
9/28/2025	197	183	172	164	160	160	164	168	183	204	228	253	278	300	316	330	332	329	317	304	294	275	252	228
9/29/2025	207	192	182	176	177	183	197	207	212	222	233	244	258	250	254	268	284	291	278	275	269	254	235	216
9/30/2025	198	185	174	168	167	171	186	196	201	207	215	224	238	248	257	268	277	282	282	280	274	257	238	216
10/1/2025	195	180	169	161	159	164	178	186	192	201	212	230	250	271	286	296	301	303	292	281	270	252	229	207
10/2/2025	189	175	164	158	157	164	179	187	193	206	219	234	246	257	264	278	284	280	265	260	253	240	223	205
10/3/2025	188	175	166	160	159	165	179	186	194	205	221	232	242	256	266	263	264	267	262	255	247	233	219	204
10/4/2025	189	176	166	158	154	156	163	169	181	199	218	226	231	251	266	265	263	263	250	251	250	239	225	209
10/5/2025	193	181	172	164	161	161	164	168	181	199	218	241	253	268	271	270	273	266	264	264	259	246	228	210
10/6/2025	193	180	170	165	165	172	188	197	208	221	230	243	258	259	268	260	257	266	268	273	268	255	234	215
10/7/2025	196	181	170	164	163	170	185	196	205	220	237	254	273	293	305	312	318	318	309	301	288	268	245	222
10/8/2025	202	186	174	165	164	168	183	191	200	212	229	248	269	288	307	315	318	317	307	298	284	265	243	221
10/9/2025	202	186	173	168	167	173	191	202	210	219	231	247	258	270	283	291	294	286	275	269	257	243	224	205
10/10/2025	188	174	164	159	156	160	174	182	186	191	196	205	210	209	213	216	220	222	217	217	210	201	191	179
10/11/2025	168	157	149	142	140	141	146	150	159	167	173	179	182	196	210	214	214	216	217	217	211	203	190	176
10/12/2025	161	149	140	133	131	131	135	138	147	158	169	181	197	211	223	234	243	248	239	233	223	208	191	173
10/13/2025	157	144	135	130	130	136	149	159	166	172	179	188	199	212	229	247	261	268	258	251	239	222	201	180
10/14/2025	163	149	139	133	132	138	153	162	169	177	189	199	211	226	239	253	264	269	261	256	244	227	207	186
10/15/2025	168	155	145	139	139	144	159	167	175	182	190	200	213	227	237	246	254	258	253	246	236	219	199	179
10/16/2025	162	149	140	134	134	139	154	163	170	177	185	195	207	219	232	247	259	261	252	247	236	221	202	183
10/17/2025	168	155	146	139	138	141	151	158	168	180	191	203	215	226	239	249	255	255	243	234	223	207	191	176
10/18/2025	160	148	138	132	129	130	135	140	148	162	175	185	194	204	215	224	231	233	226	221	217	208	192	178
10/19/2025	163	151	141	135	133	132	136	140	152	166	182	201	223	239	248	238	228	222	218	217	213	203	190	174
10/20/2025	161	150	143	139	140	146	158	169	176	179	182	188	200	213	228	242	252	257	251	249	240	222	200	179
10/21/2025	161	148	137	132	131	134	152	163	169	176	188	196	211	224	236	249	261	267	263	259	245	227	207	186
10/22/2025	168	153	143	135	134	139	153	162	168	174	181	191	202	216	231	245	255	261	255	249	237	220	199	177
10/23/2025	160	145	135	129	127	133	148	159	163	164	167	171	175	182	191	203	211	214	211	211	202	189	173	158
10/24/2025	145	135	128	123	124	130	145	156	162	166	169	173	179	186	196	208	218	220	215	211	200	187	175	162
10/25/2025	151	142	134	128	126	128	133	140	149	158	169	181	193	203	214	222	227	229	223	222	212	201	188	175
10/26/2025	161	150	141	136	132	133	137	142	152	166	180	198	218	227	222	230	234	239	241	242	234	224	209	192
10/27/2025	178	165	157	153	154	160	176	187	194	200	211	227	235	236	237	236	226	221	223	229	222	211	194	178
10/28/2025	166	157	150	146	146	152	166	176	180	182	185	186	188	189	189	188	191	195	199	204	198	187	174	160
10/29/2025	147	137	130	126	127	133	149	161	166	170	172	173	175	178	183	189	200	209	212	218	213	205	186	166
10/30/2025	150	138	130	125	124	131	148	161	166	167	166	165	165	167	169	174	181	187	190	196	191	181	168	155
10/31/2025	144	136	131	128	130	138	157	171	177	176	172	169	166	165	166	170	177	183	181	180	174	168	161	153
11/1/2025	146	141	138	137	137	140	148	158	169	172	169	165	163	163	165	168	173	179	179	184	180	172	163	153
11/2/2025	145	138	132	129	129	130	135	143	153	160	162	163	166	173	181	186	187	192	200	205	199	192	181	167
11/3/2025	152	141	132	126	124	127	136	154	166	168	167	167	169	172	175	180	186	191	196	204	199	192	181	167
11/4/2025	154	143	136	132	130	134	145	165	177	177	172	168	167	167	167	167	167	167	167	167	167	167	167	167
11/5/2025	167	167	167	167	167	167	167	167	167	167	170	176	182	188	198	206	214	218	219	222	215	206	192	175
11/6/2025	159	146	136	129	126	128	135	152	163	169	174	179	181	189	199	210	213	214	216	222	215	203	192	177
11/7/2025	162	148	138	131	127	128	134	150	161	169	176	186	196	206	215	222	229	232	229	226	214	203	192	178
11/8/2025	164	151	141	133	128	126	129	135	143	154	168	181	193	203	213	225	233	234	235	236	226	215	209	199
11/9/2025	187	175	164	156	151	148	149	153	160	174	190	206	221	234	239	247	251	252	250	251	240	228	216	201
11/10/2025	185	169	152	138	129	127	133	147	159	163	163	163	163	164	166	168	174	180	192	205	204	200	193	185
11/11/2025	177	172	168	168	172	178	192	212	231	243	237	228	217	208	200	194	196	204	219	233	235	235	231	226
11/12/2025	217	211	207	208	211	219	236	265	277	262	234	211	194	184	178	176	178	186	197	210	209	203	195	183
11/13/2025	173	165	160	156	158	162	173	194	203	197	185	176	171	170	173	176	182	188	194	200	197	191	182	170
11/14/2025	157	147	139	135	133	137	147	166	179	180	174	171	170	172	175	179	185	189	192	195	189	181	173	164
11/15/2025	155	147	140	136	133	134	139	148	157	163	164	165	168	172	178	184	189	193	192	194	187	178	170	161
11/16/2025	152	143	136	131	128	128	131	137	143	152	158	162	171	177	184	191	195	201	206	211	206	198	187	175
11/17/2025	161	148	138	131	127	129	136	152	162	168	168	170	176	183	191	200	204	207	208	212	205	197	186	172
11/18/2025	158	145	135	129	127	129	137	156	169	171	171	172	174	180	186	193	201	205	206	212	204	195	184	170
11/19/2025	157	144	135	129	127	129	139	157	167	172	171	174	179	185	195	203	209	213	214	217	211	202	191	175
11/20/2025	160	148	138	131	127	129	137	154	164	170	176	184	192	202	212	223	231	234	234	233	224	213	200	182
11/21/2025	166	152	141	133	127	127	134	150	160	168	174	183	191	201	207	215	222	225	223	220	208	197	187	175
11/22/2025	162	150	140	133	128	127	129	135	143	154	165	176	188	200	211	221	224	222	219	217	208	198	190	181
11/23/2025	173	163	153	145	141	139	141	145	150	164	176	191	208	219	226	233	236	236	235	231	220	209	199	183
11/24/2025	166	152	140	133	129	130	136	147	156	164	172	182	190	201	208	216	221	222	222	222	214	204	192	176
11/25/2025	161	148	138	131	127	128	133	145	155	164	172	182	193	205	217	226	231	230	228	228	217	206	193	177
11/26/2025	162	149	139	132	128	129	133	143	151	162	171	181	192	198	203	209	212	213	216	216	211	203	194	181
11/27/2025	169	158	148	139	132	128	129	134	139	150	158	164	163	164	162	159	155	153	155	157	155	155	153	149
11/28/2025	144	140	137	137	138	143	152	166	178	186	185	180	173	168	164	163	167	174	186	196	198	199	199	194
11/29/2025	189	181	176	173	172	173	179	187	194	199	202	191	181	173	171	170	168	168	176	181	178	177	175	166
11/30/2025	156	147	138	133	130	129	131	136	142	152	158	163	170	178	186	192	195	197	204	207	202	194	185	171
12/1/2025	145	135	128	125	128	135	153	163	169	172	174	176	181	182	185	187	190	199	209	206	200	191	177	163
12/2/2025	150	140	133	129	132	139	157	169	176	181	188	198	205	209	209	211	215	222	230	225	217	203	185	167
12/3/2025	153	142	134	128	130	137	153	164	169	169	168	168	172	175	178	182	189	196	204	201	194	187	173	159
12/4/2025	150	143	139	138	141	153	174	188	191	184	177	181	176	179	178	179	184	196	204	201	195	186	174	160
12/5/2025	149	140	135	132	134	142	159	169	172	175	182	188	193	195	200	202	206	214	218	213	206	197	185	172
12/6/2025	160	149	141	135	132	134	141	147	158	168	173	172	181	186	188	189	188	194	194	190	183	177	167	156
12/7/2025	147	139	133	129	128	130	137	144	155	166	174	181	185	189	189	192	195	203	205	201	194	183	172	160
12/8/2025	148	139	132	130	132	140	157	168	174	178	180	179	185	186	183	185	191	202	211	207	203	196	183	170
12/9/2025	161	155	152	153	157	172	197	210	212	204	194	191	183	179	179	182	191	207	221	220	218	210	197	182
12/10/2025	172	164	159	157	159	169	189	201	204	204	203	201	198	191	183	182	190	205	218	219	218	212	199	186
12/11/2025	175	167	162	162	165	175	196	208	207	198	189	183	179	176	175	178	187	199	212	215	214	210	201	191
12/12/2025	184	180	179	181	187	202	228	242	241	222	204	191	181	176	175	178	184	192	199	198	195	191	186	179
12/13/2025	173	169	167	167	170	177	188	199	206	201	185	175	171	170	172	175	180	185	188	183	179	174	165	157
12/14/2025	148	140	136	134	135	139	148	156	165	166	166	166	169	174	178	181	187	193	198	192	185	178	171	162
12/15/2025	157	156	158	163	173	192	222	241	244	233	220	208	198	189	189	197	207	225	237	237	233	224	210	198

12/16/2025	188	183	180	183	191	206	232	244	244	234	216	197	184	178	176	177	183	195	207	206	202	192	178	166
12/17/2025	157	149	145	144	148	161	183	191	192	186	177	170	170	172	176	178	179	188	198	195	189	180	167	154
12/18/2025	143	136	133	132	135	145	163	173	178	181	174	180	186	185	187	186	188	195	202	199	193	185	172	159
12/19/2025	148	141	137	134	136	142	155	164	172	176	180	181	183	186	188	190	190	189	190	184	179	173	164	155
12/20/2025	147	141	138	139	141	150	163	177	189	186	178	171	165	163	164	166	172	177	183	181	180	176	171	164
12/21/2025	158	153	150	150	153	158	168	178	185	183	173	165	162	163	165	169	174	180	186	184	180	175	167	159
12/22/2025	152	147	145	146	151	159	173	183	186	181	173	169	170	169	173	175	177	184	191	188	183	175	166	153
12/23/2025	144	138	135	134	136	145	158	168	174	172	170	169	170	173	179	184	186	190	193	187	181	173	163	153
12/24/2025	142	135	131	129	130	137	149	157	165	167	167	168	172	177	182	185	187	187	187	178	171	164	156	147
12/25/2025	139	132	127	124	124	127	133	138	146	150	153	156	164	167	169	172	172	172	173	167	163	157	150	142
12/26/2025	134	128	125	123	125	130	138	144	152	156	158	161	166	172	177	182	185	187	188	181	174	167	157	149
12/27/2025	140	133	128	126	126	128	134	139	146	154	162	169	172	176	177	178	182	185	190	185	179	172	163	154
12/28/2025	144	137	131	128	127	128	133	137	145	154	159	165	173	177	182	186	188	191	195	189	182	173	162	150
12/29/2025	139	132	127	124	125	130	140	149	155	161	166	177	187	187	186	184	185	189	195	189	180	172	162	153
12/30/2025	147	143	142	144	149	160	180	198	211	218	215	212	205	200	193	191	198	212	225	229	230	229	224	217
12/31/2025	211	208	208	212	219	232	250	264	270	260	243	227	212	201	196	195	201	213	225	227	224	222	218	216

TYSP Year 2026
Question No. 5

Year	Month	Actual Peak Demand	Demand Response Activated	Estimated Peak Demand	Day	Hour	System-Average Temperature
		(MW)	(MW)	(MW)			(Degrees F)
2025	1	350			25	9	22
	2	275			21	8	33
	3	249			26	19	87
	4	332			27	19	93
	5	385			27	18	98
	6	388			25	18	96
	7	430			29	18	100
	8	408			1	18	97
	9	377			23	18	96
	10	318			7	18	90
	11	277			12	9	29
	12	270			31	9	31
2024	1	296			21	9	30
	2	263			20	8	34
	3	254			17	17	84
	4	310			19	18	88
	5	371			28	18	93
	6	394			24	17	95
	7	387			3	17	95
	8	405			8	17	95
	9	370			2	17	93
	10	347			4	17	91
	11	284			11	17	86
	12	283			4	8	26
2023	1	292			16	9	28
	2	264			24	17	87
	3	292			27	17	87
	4	340			16	18	87
	5	331			21	17	91
	6	382			28	18	95
	7	402			21	17	96
	8	409			11	17	98
	9	379			14	18	95
	10	311			5	18	89
	11	255			29	9	35
	12	254			20	8	37

Notes

(Include Notes Here)

Retail Customers

			trc	recession	biomass										covid					
CY	actual	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2006	**88992**	89314																			
2007	**90939**	91066	90524																		
2008	**92795**	92778	92130	92449																	
2009	**93045**	94448	93700	94146	93092																
2010	**92340**	96117	95235	95765	93925	93153															
2011	**92265**	97705	96736	97330	94886	94319	92241														
2012	**92556**	99293	98202	98840	96198	95484	93026	92941													
2013	**93134**	100839	99634	100318	97613	96645	94417	93828	93290												
2014	**93855**	102385	101032	101742	98986	97805	96023	94712	94073	94136											
2015	**94628**	103849	102395	103133	100295	98963	97511	95593	94856	95119	94863										
2016	**95161**	105245	103725	104493	101542	100319	98915	96654	95639	96083	95851	95499									
2017	**97245**	106600	105020	105798	102712	101673	100276	97712	96421	97028	96820	96363	96084								
2018	**97681**	107914	106282	107070	103831	103025	101601	98767	97204	97954	97769	97219	96996	98169							
2019	**98324**	109187	107510	108311	104908	104376	102909	99821	97987	98861	98697	98066	97893	99082	98450						
2020	**99714**	110460	108705	109519	105964	105725	104215	100872	98770	99748	99606	98904	98776	99981	99212	99023					
2021	**101117**	111652	109866	110673	106994	107049	105536	101899	99554	100617	100494	99735	99647	100868	99966	99707	100449				
2022	**101051**	112843	110993	111795	108012	108372	106862	102923	100340	101466	101363	100558	100505	101742	100712	100376	101168	101727			
2023	**103865**	114035	112087	112885	109026	109694	108191	103947	101126	102296	102212	101372	101349	102603	101451	101031	101872	102322	102329		
2024	**104510**	115145	113148	113942	110060	111014	109519	104968	101913	103107	103040	102178	102180	103451	102183	101670	102560	102904	103008	104631	
2025	**104730**	116254	114175	114968	111116	112332	110843	105988	102702	103898	103849	102976	102998	104286	102907	102295	103232	103471	103670	105376	105303
2026			115169	115961	112201	113604	112152	106961	103492	104671	104638	103766	103803	105108	103623	102904	103889	104024	104316	106102	106073
2027				116923	113225	114874	113449	107932	104284	105424	105407	104548	104595	105918	104332	103499	104530	104564	104944	106807	106821
2028					114210	116143	114736	108902	105077	106158	106156	105322	105374	106714	105034	104079	105155	105089	105557	107493	107546
2029						117410	116014	109870	105872	106873	106885	106087	106139	107498	105728	104644	105764	105600	106152	108158	108248
2030							117278	110838	106668	107569	107594	106844	106891	108269	106415	105194	106358	106097	106731	108803	108927
2031								111774	107466	108246	108283	107594	107630	109027	107094	105729	106936	106580	107294	109428	109583
2032									108266	108904	108952	108335	108356	109773	107765	106249	107498	107049	107839	110033	110217
2033										109542	109601	109068	109069	110505	108429	106754	108045	107504	108369	110618	110827
2034											110230	109792	109769	111224	109086	107245	108576	107945	108881	111183	111414
2035												110509	110455	111931	109735	107720	109091	108372	109377	111727	111979
2036													111129	112625	110377	108181	109591	108785	109857	112252	112520
2037														113306	111011	108627	110075	109183	110320	112756	113039
2038															111638	109058	110543	109568	110766	113240	113535
2039																109474	110996	109938	111196	113705	114007
2040																	111432	110295	111609	114149	114457
2041																		110637	112005	114573	114884
2042																			112385	114976	115288
2043																				115360	115669
2044																					116027
2045																					
2006	-0.40%	-0.40%																			
2007	0.20%	-0.10%	0.50%																		
2008	0.40%	0.00%	0.70%	0.40%																	
2009	-0.90%	-1.50%	-0.70%	-1.20%	-0.10%																
2010	-2.60%	-3.90%	-3.00%	-3.60%	-1.70%	-0.90%															
2011	-3.40%	-5.60%	-4.60%	-5.20%	-2.80%	-2.20%	0.00%														
2012	-3.80%	-6.80%	-5.80%	-6.40%	-3.80%	-3.10%	-0.50%	-0.40%													
2013	-4.00%	-7.60%	-6.50%	-7.20%	-4.60%	-3.60%	-1.40%	-0.70%	-0.20%												
2014	-4.00%	-8.30%	-7.10%	-7.80%	-5.20%	-4.00%	-2.30%	-0.90%	-0.20%	-0.30%											
2015	-4.00%	-8.90%	-7.60%	-8.20%	-5.60%	-4.40%	-3.00%	-1.00%	-0.20%	-0.50%	-0.20%										
2016	-4.20%	-9.60%	-8.30%	-8.90%	-6.30%	-5.10%	-3.80%	-1.50%	-0.50%	-1.00%	-0.70%	-0.40%									
2017	-2.80%	-8.80%	-7.40%	-8.10%	-5.30%	-4.40%	-3.00%	-0.50%	0.90%	0.20%	0.40%	0.90%	1.20%								
2018	-3.20%	-9.50%	-8.10%	-8.80%	-5.90%	-5.20%	-3.90%	-1.10%	0.50%	-0.30%	-0.10%	0.50%	0.70%	-0.50%							
2019	-3.30%	-9.90%	-8.50%	-9.20%	-6.30%	-5.80%	-4.50%	-1.50%	0.30%	-0.50%	-0.40%	0.30%	0.40%	-0.80%	-0.10%						
2020	-2.70%	-9.70%	-8.30%	-9.00%	-5.90%	-5.70%	-4.30%	-1.10%	1.00%	0.00%	0.10%	0.80%	0.90%	-0.30%	0.50%	0.70%					
2021	-2.10%	-9.40%	-8.00%	-8.60%	-5.50%	-5.50%	-4.20%	-0.80%	1.60%	0.50%	0.60%	1.40%	1.50%	0.20%	1.20%	1.40%	0.70%				
2022	-2.90%	-10.50%	-9.00%	-9.60%	-6.40%	-6.80%	-5.40%	-1.80%	0.70%	-0.40%	-0.30%	0.50%	0.50%	-0.70%	0.30%	0.70%	-0.10%	-0.70%			
2023	-0.90%	-8.90%	-7.30%	-8.00%	-4.70%	-5.30%	-4.00%	-0.10%	2.70%	1.50%	1.60%	2.50%	2.50%	1.20%	2.40%	2.80%	2.00%	1.50%	1.50%		
2024	-1.10%	-9.20%	-7.60%	-8.30%	-5.00%	-5.90%	-4.60%	-0.40%	2.50%	1.40%	1.40%	2.30%	2.30%	1.00%	2.30%	2.80%	1.90%	1.60%	1.50%	-0.10%	
2025	-1.60%	-9.90%	-8.30%	-8.90%	-5.70%	-6.80%	-5.50%	-1.20%	2.00%	0.80%	0.80%	1.70%	1.70%	0.40%	1.80%	2.40%	1.50%	1.20%	1.00%	-0.60%	-0.50%

	20-yr	10-yr	5-yr
average	-2.50%	1.00%	0.80%
standard dev	3.80%	1.00%	1.00%

Positive forecast error means that actual number of customers was greater than forecast by an average of **1.00%** over the past 10 years

Retail NEL - MWh

		trc	recession	biomass											covid					
	actual	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2006	**1924770**	2002343																			
2007	**1937397**	2053846	1987015																		
2008	**1882734**	2105359	2025213	1992619																	
2009	**1879240**	2152429	2064160	2018164	1847407																
2010	**1921451**	2196701	2097334	2045563	1842689	1892728															
2011	**1814347**	2241249	2125552	2074347	1856023	1885250	1856289														
2012	**1757126**	2280073	2144797	2101106	1874622	1889230	1842577	1845529													
2013	**1740129**	2318118	2157589	2123341	1894863	1895212	1851774	1856019	1787064												
2014	**1754797**	2360030	2171786	2145951	1915364	1902209	1866868	1859549	1806901	1792611											
2015	**1809591**	2403473	2187228	2169460	1936592	1910194	1881418	1863316	1811769	1810946	1711061										
2016	**1833194**	2447714	2201155	2191891	1955668	1921888	1894480	1870661	1818106	1830137	1727575	1829129									
2017	**1810837**	2492274	2224143	2214800	1974193	1934534	1906285	1877650	1823655	1849046	1744554	1843043	1856826								
2018	**1856721**	2536048	2245163	2237288	1993509	1947445	1917167	1884977	1829063	1866351	1773411	1870272	1883838	1868654							
2019	**1866130**	2577619	2262708	2257449	2010234	1961168	1928078	1892588	1835037	1882662	1873910	1883586	1897920	1891236	1854873						
2020	**1843227**	2618966	2279687	2276733	2023629	1973319	1939364	1900161	1840982	1898190	1889824	1896722	1911177	1903048	1868687	1877001					
2021	**1816142**	2659592	2294590	2296227	2035044	1982875	1951003	1907195	1847004	1913112	1905094	1909547	1924051	1914569	1882499	1889646	1860678				
2022	**1863707**	2701374	2324667	2316150	2046315	1992757	1963328	1914609	1854182	1928078	1920151	1922695	1937238	1925822	1893803	1901677	1870457	1865054			
2023	**1847496**	2743212	2353423	2335811	2057656	2002571	1975087	1922074	1861769	1942711	1935044	1935935	1950185	1936829	1906229	1909959	1875996	1871264	1854904		
2024	**1902707**	2783406	2383355	2355047	2068921	2011850	1986362	1929659	1869266	1956897	1949498	1948664	1962322	1947611	1918975	1921057	1885056	1881705	1863692	1890505	
2025	**1910424**	2823956	2413740	2374425	2081122	2020880	1998009	1937357	1877330	1971046	1963872	1961161	1974172	1958191	1931458	1932383	1893697	1893427	1872690	1899106	1899408
2026			2445093	2393397	2093265	2030059	2009745	1944446	1886134	1985225	1978159	1973373	1985601	1968590	1943745	1943327	1902075	1905811	1881237	1907777	1909974
2027				2411484	2105398	2039603	2021434	1951621	1895668	1999424	1992581	1985723	1996844	1978827	1956068	1953961	1910218	1917542	1890457	1916535	1920600
2028					2117390	2047874	2032801	1958904	1905588	2013369	2006753	1997937	2007886	1988926	1968196	1964272	1918151	1929794	1900743	1925381	1931283
2029						2055866	2044195	1966400	1916059	2027221	2020797	2010344	2018581	1998907	1980210	1974294	1925756	1942432	1911915	1934296	1942016
2030							2055948	1974162	1927209	2041047	2034810	2022965	2029301	2008789	1992060	1983750	1933238	1955328	1924877	1943327	1952837
2031								1981465	1938607	2054762	2048652	2035413	2039777	2018594	2003770	1992883	1940637	1966894	1937672	1952477	1963762
2032									1950980	2069112	2063259	2048839	2050946	2028342	2015604	2001694	1947969	1979408	1952133	1961666	1974699
2033										2082838	2077414	2061810	2061376	2038049	2026891	2010008	1955262	1991464	1968098	1971043	1985821
2034											2090986	2074484	2071419	2047735	2037795	2018025	1962566	2002465	1986347	1980577	1997111
2035												2087224	2081410	2057420	2048462	2025735	1970002	2013822	2005222	1990295	2008585
2036													2091367	2067122	2058830	2033168	1977518	2024163	2020752	2000135	2020161
2037														2076860	2068603	2040310	1985082	2036369	2036996	2010236	2032030
2038															2078452	2047216	1992858	2049193	2055796	2020620	2044205
2039																2053862	2000706	2062745	2076693	2031248	2056640
2040																	2008735	2077087	2100338	2042115	2069340
2041																		2090564	2118656	2053051	2082101
2042																			2138449	2064306	2095220
2043																				2075900	2108716
2044																					2122605
2045																					
2006	-3.90%	-3.90%																			
2007	-4.10%	-5.70%	-2.50%																		
2008	-7.70%	-10.60%	-7.00%	-5.50%																	
2009	-6.70%	-12.70%	-9.00%	-6.90%	1.70%																
2010	-4.20%	-12.50%	-8.40%	-6.10%	4.30%	1.50%															
2011	-9.10%	-19.00%	-14.60%	-12.50%	-2.20%	-3.80%	-2.30%														
2012	-11.40%	-22.90%	-18.10%	-16.40%	-6.30%	-7.00%	-4.60%	-4.80%													
2013	-11.70%	-24.90%	-19.30%	-18.00%	-8.20%	-8.20%	-6.00%	-6.20%	-2.60%												
2014	-10.60%	-25.60%	-19.20%	-18.20%	-8.40%	-7.70%	-6.00%	-5.60%	-2.90%	-2.10%											
2015	-7.20%	-24.70%	-17.30%	-16.60%	-6.60%	-5.30%	-3.80%	-2.90%	-0.10%	-0.10%	5.80%										
2016	-6.10%	-25.10%	-16.70%	-16.40%	-6.30%	-4.60%	-3.20%	-2.00%	0.80%	0.20%	6.10%	0.20%									
2017	-7.50%	-27.30%	-18.60%	-18.20%	-8.30%	-6.40%	-5.00%	-3.60%	-0.70%	-2.10%	3.80%	-1.70%	-2.50%								
2018	-5.70%	-26.80%	-17.30%	-17.00%	-6.90%	-4.70%	-3.20%	-1.50%	1.50%	-0.50%	4.70%	-0.70%	-1.40%	-0.60%							
2019	-5.90%	-27.60%	-17.50%	-17.30%	-7.20%	-4.80%	-3.20%	-1.40%	1.70%	-0.90%	-0.40%	-0.90%	-1.70%	-1.30%	0.60%						
2020	-7.30%	-29.60%	-19.10%	-19.00%	-8.90%	-6.60%	-5.00%	-3.00%	0.10%	-2.90%	-2.50%	-2.80%	-3.60%	-3.10%	-1.40%	-1.80%					
2021	-8.80%	-31.70%	-20.90%	-20.90%	-10.80%	-8.40%	-6.90%	-4.80%	-1.70%	-5.10%	-4.70%	-4.90%	-5.60%	-5.10%	-3.50%	-3.90%	-2.40%				
2022	-6.70%	-31.00%	-19.80%	-19.50%	-8.90%	-6.50%	-5.10%	-2.70%	0.50%	-3.30%	-2.90%	-3.10%	-3.80%	-3.20%	-1.60%	-2.00%	-0.40%	-0.10%			
2023	-7.60%	-32.70%	-21.50%	-20.90%	-10.20%	-7.70%	-6.50%	-3.90%	-0.80%	-4.90%	-4.50%	-4.60%	-5.30%	-4.60%	-3.10%	-3.30%	-1.50%	-1.30%	-0.40%		
2024	-5.20%	-31.60%	-20.20%	-19.20%	-8.00%	-5.40%	-4.20%	-1.40%	1.80%	-2.80%	-2.40%	-2.40%	-3.00%	-2.30%	-0.80%	-1.00%	0.90%	1.10%	2.10%	0.60%	
2025	-5.10%	-32.30%	-20.90%	-19.50%	-8.20%	-5.50%	-4.40%	-1.40%	1.80%	-3.10%	-2.70%	-2.60%	-3.20%	-2.40%	-1.10%	-1.10%	0.90%	0.90%	2.00%	0.60%	0.60%

	20-yr	10-yr	5-yr
average	**-7.10%**	**-1.80%**	**0.20%**
standard dev	**8.40%**	**1.90%**	**1.30%**

Negative forecast error means that actual retail net energy for load was less than forecast by an average of **1.80%** **over the past 10 years**

Retail Summer Peak - MW

			trc		recession	biomass										covid					
CY	actual		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2006	**425**		432																			
2007	**437**		443	428																		
2008	**414**		454	433	431																	
2009	**419**		464	442	435	396																
2010	**422**		474	447	439	393	406															
2011	**399**		483	453	443	394	406	400														
2012	**372**		491	454	446	395	407	398	398													
2013	**391**		500	455	448	396	410	400	400	384												
2014	**383**		509	455	450	398	412	404	401	389	385											
2015	**384**		519	455	452	399	414	407	401	390	389	392										
2016	**390**		528	456	455	401	416	410	403	391	393	395	392									
2017	**380**		538	459	458	404	419	413	404	393	397	401	395	398								
2018	**371**		548	462	462	406	422	415	405	394	401	403	401	404	400							
2019	**401**		557	463	464	408	424	417	407	395	405	406	404	407	404	397						
2020	**397**		567	464	467	409	427	420	408	396	408	409	406	409	407	400	400					
2021	**393**		576	464	469	410	429	422	409	397	411	412	409	412	409	403	402	396				
2022	**408**		585	470	472	411	431	425	410	398	415	415	412	415	412	405	405	398	397			
2023	**409**		595	475	475	412	433	427	411	400	418	418	415	418	414	408	407	399	398	395		
2024	**405**		604	482	477	413	435	430	413	401	421	420	418	420	417	411	409	401	401	396	407	
2025	**430**		613	487	480	413	437	432	414	403	424	423	420	423	419	414	412	403	403	398	409	406
2026				494	482	414	438	435	415	404	427	425	423	425	421	416	414	405	406	400	410	408
2027					485	415	440	438	416	406	430	428	426	428	423	419	417	407	408	402	412	410
2028						416	442	440	417	408	433	431	428	430	425	421	419	408	411	404	414	412
2029							444	443	419	410	436	433	431	433	428	424	421	410	414	407	416	415
2030								446	420	412	439	436	434	435	430	427	423	412	417	410	418	417
2031									421	415	442	439	436	437	432	429	425	413	419	412	420	419
2032										417	445	442	439	440	434	432	427	415	422	415	422	422
2033											448	445	442	442	436	434	429	417	424	419	424	424
2034												447	445	444	438	437	430	418	427	423	426	426
2035													447	446	440	439	432	420	429	427	428	429
2036														448	442	441	434	421	431	430	430	431
2037															444	443	435	423	434	434	432	434
2038																445	437	425	437	438	434	436
2039																	438	426	440	442	437	439
2040																		428	443	447	439	442
2041																			446	451	441	444
2042																				455	444	447
2043																					446	450
2044																						453
2045																						
2006	-1.60%		-1.60%																			
2007	0.40%		-1.30%	2.10%																		
2008	-5.90%		-9.00%	-4.50%	-4.10%																	
2009	-3.30%		-9.80%	-5.20%	-3.80%	5.70%																
2010	-1.90%		-11.00%	-5.70%	-4.00%	7.40%	3.80%															
2011	-6.60%		-17.40%	-11.90%	-10.00%	1.40%	-1.70%	-0.20%														
2012	-12.40%		-24.30%	-18.10%	-16.70%	-5.80%	-8.70%	-6.60%	-6.50%													
2013	-7.20%		-21.70%	-14.10%	-12.80%	-1.30%	-4.60%	-2.30%	-2.30%	1.80%												
2014	-8.60%		-24.70%	-15.90%	-14.90%	-3.60%	-7.00%	-5.10%	-4.40%	-1.40%	-0.50%											
2015	-8.10%		-25.90%	-15.50%	-14.90%	-3.60%	-7.10%	-5.60%	-4.20%	-1.40%	-1.20%	-1.90%										
2016	-6.80%		-26.20%	-14.50%	-14.30%	-2.90%	-6.30%	-4.90%	-3.20%	-0.40%	-0.90%	-1.20%	-0.50%									
2017	-9.40%		-29.40%	-17.20%	-17.10%	-5.90%	-9.30%	-7.90%	-5.90%	-3.20%	-4.40%	-5.10%	-3.70%	-4.40%								
2018	-11.90%		-32.30%	-19.60%	-19.60%	-8.60%	-12.00%	-10.50%	-8.40%	-5.70%	-7.50%	-8.00%	-7.40%	-8.00%	-7.10%							
2019	-5.10%		-28.10%	-13.50%	-13.70%	-1.80%	-5.60%	-4.00%	-1.50%	1.50%	-1.00%	-1.40%	-0.70%	-1.50%	-0.90%	1.00%						
2020	-6.20%		-30.00%	-14.40%	-15.00%	-3.10%	-7.10%	-5.50%	-2.70%	0.20%	-2.80%	-3.00%	-2.40%	-3.10%	-2.50%	-0.70%	-0.70%					
2021	-7.20%		-31.80%	-15.30%	-16.30%	-4.20%	-8.40%	-6.90%	-3.90%	-1.00%	-4.50%	-4.60%	-4.00%	-4.70%	-4.00%	-2.40%	-2.30%	-0.80%				
2022	-3.80%		-30.30%	-13.10%	-13.60%	-0.70%	-5.30%	-4.00%	-0.50%	2.40%	-1.60%	-1.60%	-1.00%	-1.70%	-0.90%	0.70%	0.70%	2.50%	2.80%			
2023	-3.70%		-31.20%	-13.90%	-13.90%	-0.70%	-5.50%	-4.30%	-0.60%	2.30%	-2.10%	-2.00%	-1.40%	-2.10%	-1.30%	0.20%	0.50%	2.40%	2.70%	3.70%		
2024	-5.00%		-32.90%	-15.90%	-15.10%	-1.80%	-6.80%	-5.80%	-1.80%	0.90%	-3.80%	-3.60%	-3.00%	-3.70%	-2.80%	-1.40%	-1.10%	0.90%	1.10%	2.20%	-0.50%	
2025	0.60%		-29.80%	-11.80%	-10.40%	4.00%	-1.50%	-0.60%	3.90%	6.80%	1.40%	1.70%	2.30%	1.70%	2.70%	4.00%	4.40%	6.70%	6.60%	7.90%	5.10%	5.90%

	20-yr	10-yr	5-yr
average	**-5.80%**	**-0.30%**	**3.30%**
standard dev	**8.40%**	**3.50%**	**2.70%**

Negative forecast error means that actual summer peak demand was less than forecast by an average of **0.30%** **over the past 10 years**

TYSP Year 2026
Question No. 27

Resource Type	Customer-Owned Resources										
	Actual	Projected									
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Renewable Resources											
Number of Installations	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500	3700
Total Capacity of Installations (MW)	25	27	29	32	34	36	39	41	43	46	48
Reduction to Summer Peak Demand (MW)	7	8	9	9	10	11	12	12	13	14	14
Reduction to Winter Peak Demand (MW)	2	2	2	3	3	3	3	3	4	4	4
Reduction to Net Energy for Load (GWh)	23	26	28	30	32	34	36	38	41	43	45
Energy Storage Resources											
Number of Installations											
Total Capacity of Installations (MW)											
Total Storage Capacity of Installations (MWh)											
Reduction to Summer Peak Demand (MW)											
Reduction to Winter Peak Demand (MW)											
Reduction to Net Energy for Load (GWh)											
Notes											
(Include Notes Here)											

(1) Number of Installations represents number of customers with grid connected, behind the meter solar systems.
(2) Total Capacity of Installations estimated from average system size of historical installations by customer type, times number of installations.

No Customer Owned Energy Storage Resources were included in GRU's load forecast

TYSP Year 2026
Question No. 28

[Demand Response Source or All Demand Response Sources]									
Year	**Participating Customers**			**Available Capacity (MW)**					
				Summer			**Winter**		
	Start of Year	Lost	Added	Start of Year	Lost	Added	Start of Year	Lost	Added
2023									
2024									
2025									
Notes									
Not applicable.									

TYSP Year 2026
Question No. 29

[Demand Response Source or All Demand Response Sources]															
Year	Summer							Winter							
	Total Events	Customers Activated			Capacity Activated (MW)			Total Events	Customers Activated			Capacity Activated (MW)			
		Average Event	Max Event	Peak Day	Average Event	Max Event	Peak Day		Average Event	Max Event	Peak Day	Average Event	Max Event	Peak Day	
2023															
2024															
2025															
Notes															
Not applicable.															

TYSP Year 2026
Question No. 31

Year	Number of PEVs	Number of Public PEV Charging Stations	Number of Public DCFC PEV Charging Stations	Cumulative Impact of PEVs		
				Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)
2026	4556	82	63	11	17	16
2027	5,611	112	68	14	21	20
2028	6,781	136	70	17	25	24
2029	8,073	161	81	20	30	29
2030	9,492	190	95	24	36	34
2031	11,042	221	110	28	41	40
2032	12,725	255	127	32	48	46
2033	14,544	291	145	36	55	52
2034	16,499	330	165	41	62	59
2035	18,589	372	186	46	70	67

Notes

Number of Public, L2 chaging stalls assumed to maintain a ratio of 1 stall every ~50 vehicles
Number of Public, DCFC chaging stalls assumed to maintain a ratio of 1 stall every ~100 vehicles
Number of 2026 stations sourced from ChargeHub.com and Plugshare.com

TYSP Year 2026
Question No. 40

Data Center Type	Data Centers										
	Actual	Projected									
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Existing Data Centers											
Number of Data Centers											
Total Annual Energy Usage (GWh)											
Impact to Summer Peak Demand											
Impact to Winter Peak Demand (MW)											
Planned Data Centers (In-service in 2026)											
Number of Data Centers											
Total Annual Energy Usage (GWh)											
Impact to Summer Peak Demand											
Impact to Winter Peak Demand (MW)											
Planned Data Centers (After 2026)											
Number of Data Centers											
Total Annual Energy Usage (GWh)											
Impact to Summer Peak Demand											
Impact to Winter Peak Demand (MW)											
Notes: GRU has no data centers in its service territory and no data centers in its forecast.											

TYSP Year 2026
Question No. 45(a)

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
							Gross		Net		Firm	
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win
DEERHAVEN	FS01	ALACHUA	ST	NG	8	1972	81	81	76	76	76	76
DEERHAVEN	FS02	ALACHUA	ST	BIT	10	1981	251	251	232	232	232	232
DEERHAVEN	GT01	ALACHUA	GT	NG	7	1976	18	23	17.5	22	17.5	22
DEERHAVEN	GT02	ALACHUA	GT	NG	8	1976	18	23	17.5	22	17.5	22
DEERHAVEN	GT03	ALACHUA	GT	NG	1	1996	71.5	82	71	81	71	81
DEERHAVEN RENEWABLE	DHR	ALACHUA	ST	WDS	12	2017	114	114	105	105	105	105
J. R. KELLY	FS08	ALACHUA	CA	WH	5	2001	41.5	41.5	41	41	39	40
J. R. KELLY	GT04	ALACHUA	CT	NG	5	2001	72.5	85.9	71	84.4	71	84.4
SOUTH ENERGY CENTER	1	ALACHUA	GT	NG	5	2009	4.5	4.5	3.8	4.1	3.8	4.1
SOUTH ENERGY CENTER	2	ALACHUA	IC	NG	12	2017	7.4	7.4	7.4	7.4	7.4	7.4

Notes

FS08 and GT04 are ran together as a combined-cycle unit.

TYSP Year 2026
Question No. 45(b)

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
							Gross		Net		Firm	
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win
Notes												
GRU has no generation planned to come online within the current planning period.												

TYSP Year 2026
Question No. 46

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Performance (%)						Average Net Operating Heat Rate (ANOHR) (MMBTU/kWh)	
							Planned Outage Factor (POF) (%)		Forced Outage Factor (FOF) (%)		Equivalent Availability Factor (EAF) (%)			
					Mo	Yr	Historic	Projected	Historic	Projected	Historic	Projected	Historic	Projected
DEERHAVEN	FS01	ALACHUA	ST	NG	8	1972	2.85	2.85	0.24	0.24	96.56	96.56	12,030	12,030
DEERHAVEN	FS02	ALACHUA	ST	BIT	10	1981	10.95	10.95	0.67	0.67	83.65	83.65	10,697	10,697
DEERHAVEN	GT01	ALACHUA	GT	NG	7	1976	3.02	3.02	2.3	2.3	93.81	93.81	14,370	14,370
DEERHAVEN	GT02	ALACHUA	GT	NG	8	1976	0.92	0.92	0.35	0.35	97.8	97.8	14,370	14,370
DEERHAVEN	GT03	ALACHUA	GT	NG	1	1996	3.56	3.56	0.04	0.04	96.34	96.34	12,130	12,130
DEERHAVEN RENEWABLE	DHR	ALACHUA	ST	WDS	12	2017	17.18	17.18	2.95	2.95	76.07	76.07	11,300	11,300
J. R. KELLY	FS08	ALACHUA	CA	WH	5	2001	7.86	7.86	2.21	2.21	89.93	89.93	8,210	8,210
J. R. KELLY	GT04	ALACHUA	CT	NG	5	2001	7.42	7.42	2.14	2.14	90.22	90.22	8,210	8,210
SOUTH ENERGY CENTER	1	ALACHUA	GT	NG	5	2009	5.7	5.7	3.8	3.8	99	99	9,600	9,600
SOUTH ENERGY CENTER	2	ALACHUA	IC	NG	12	2017	0.8	0.8	0.5	0.5	92	92	8,500	8,500

Notes

FS08 and GT04 operate as a combined cycle unit

TYSP Year 2026
Question No. 47

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Capacity Factor (%)										
							Actual	Projected									
					Mo	Yr	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
DEERHAVEN	FS01	ALACHUA	ST	NG	8	1972	15%	12%	9%	15%	10%	12%	11%	9%	0%	0%	0%
DEERHAVEN	FS02	ALACHUA	ST	BIT	10	1981	29%	24%	21%	14%	29%	30%	28%	28%	28%	25%	31%
DEERHAVEN	GT01	ALACHUA	GT	NG	7	1976	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DEERHAVEN	GT02	ALACHUA	GT	NG	8	1976	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DEERHAVEN	GT03	ALACHUA	GT	NG	1	1996	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
DEERHAVEN RENEWABLE	DHR	ALACHUA	ST	WDS	12	2017	49%	71%	53%	53%	33%	29%	29%	29%	40%	45%	38%
J. R. KELLY	FS08	ALACHUA	CA	WH	5	2001	69%	50%	82%	94%	84%	83%	91%	96%	90%	90%	88%
J. R. KELLY	GT04	ALACHUA	CT	NG	5	2001	69%	50%	82%	94%	84%	83%	91%	96%	90%	90%	88%
SOUTH ENERGY CENTER	1	ALACHUA	GT	NG	5	2009	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SOUTH ENERGY CENTER	2	ALACHUA	IC	NG	12	2017	70%	74%	81%	81%	81%	81%	81%	81%	81%	81%	81%

Notes

FS08 and GT04 operate as a combined cycle unit

TYSP Year 2026
Question No. 48

Facility Name	Unit No.	County Location	Solar Type	Energy Storage Type	Facility In-Service Date		Unit Capacity (MW)				Land Use	Commission Approval		Cost Reocvery Mechanism
							Net		Firm					
			(Fixed/Tracking)		Mo	Yr	Sum	Win	Sum	Win	(Acres)	Order	Approval Date	
Notes														
GRU is not an investor-owned utility.														

TYSP Year 2026
Question No. 49

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Final Decision ('Drop Dead') Date	Site Selection		Engineering / Permitting / Procurement		Constuction		Commercial In-Service Date
						Begins	Ends	Begins	Ends	Begins	Ends	
Notes												
GRU has no generation planned to come online within the current planning period.												

TYSP Year 2026
Question No. 51

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Planned Modification (if any)	Eligible Modifications			Potential Issues
					Mo	Yr		Fuel Switching	Combined Cycle Conversion	Other (Explain)	

Notes

N/A.

TYSP Year 2026
Question No. 53(a)

Facility or Project Name	Unit No.	County Location	Energy Storage Type	Battery Chemistry (if applicable)	Land Use	Facility In-Service or Project Start Date		Unit Capacity (MW)						Storage Capacity	Conversion Efficency
								Gross		Net		Firm			
					(Acres)	Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(MWh)	(%)
Notes															
GRU does not have any existing energy storage.															

TYSP Year 2026
Question No. 53(b)

Facility or Project Name	Unit No.	County Location	Energy Storage Type	Battery Chemistry (if applicable)	Land Use	Facility In-Service or Project Start Date		Unit Capacity (MW)						Storage Capacity	Conversion Efficency
								Gross		Net		Firm			
					(Acres)	Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(MWh)	(MWh)
Notes															
GRU does not have any planned energy storage.															

TYSP Year 2026
Question No. 60

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Certification Dates (if Applicable)	
							Need (Commission)	PPSA Certified
					Mo	Yr		
Notes								
GRU does not have any firm plans to add additional generation resources.								

TYSP Year 2026
Question No. 61

Transmission Line	Line Length	Nominal Voltage	Certification Dates		In-Service Date
	(Miles)	(kV)	Need Approved	TLSA Certified	
Notes					
GRU does not have any firm plans to add additional transmission resources.					

TYSP Year 2026
Question No. 62(a)

Contract Information						Provide If Associated with Specific Unit(s)													
Seller Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
		Firm Capacity (MW)		Delivery Dates									Gross		Net		Firm	
		Sum	Win	Start	End						Mo	Yr	Sum	Win	Sum	Win	Sum	Win

Notes

GRU does not have any existing PPAs.

TYSP Year 2026
Question No. 62(b)

Contract Information						Provide If Associated with Specific Unit(s)													
Seller Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
		Firm Capacity (MW)		Delivery Dates									Gross		Net		Firm	
		Sum	Win	Start	End						Mo	Yr	Sum	Win	Sum	Win	Sum	Win

Notes

GRU does not have any planned PPAs.

TYSP Year 2026
Question No. 65(a)

Contract Information						Provide If Associated with Specific Unit(s)													
Buyer Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
		Firm Capacity (MW)		Delivery Dates									Gross		Net		Firm	
		Sum	Win	Start	End						Mo	Yr	Sum	Win	Sum	Win	Sum	Win

Notes

GRU has no existing PSAs.

TYSP Year 2026
Question No. 65(b)

Contract Information						Provide If Associated with Specific Unit(s)														
Buyer Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)						Land Use
		Firm Capacity (MW)		Delivery Dates									Gross		Net		Firm		
		Sum	Win	Start	End						Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(Acres)

Notes

GRU has no planned PSAs.

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)
2026	0	55	0	0	55	0
2027	0	54	0	0	54	0
2028	0	53	0	0	53	0
2029	0	52	0	0	52	0
2030	0	52	0	0	52	0
2031	0	50	0	0	50	0
2032	0	42	0	0	42	0
2033	0	23	0	0	23	0
2034	0	22	0	0	22	0
2035	0	22	0	0	22	0

TYSP Year 2026
Question No. 69

Peak Summer Day Hourly Dispatch (MW)												
Hour	Customer Oriented		Power Transactions		Energy Storage		Generation Resources					
	Load	Demand Response	Sales	Purchases (non-firm)	Charging	Discharging	Nuclear	Natural Gas	Coal	Oil	Other (biomass)	Solar
1	251	0	0	0	0	0	0	221	0	0	30	0
2	236	0	0	0	0	0	0	206	0	0	30	0
3	223	0	0	0	0	0	0	193	0	0	30	0
4	214	0	0	0	0	0	0	184	0	0	30	0
5	210	0	0	0	0	0	0	180	0	0	30	0
6	208	0	0	0	0	0	0	178	0	0	30	0
7	208	0	0	0	0	0	0	178	0	0	30	0
8	212	0	0	0	0	0	0	182	0	0	30	0
9	230	0	0	0	0	0	0	200	0	0	30	0
10	253	0	0	0	0	0	0	223	0	0	30	0
11	280	0	0	0	0	0	0	242	0	0	38	0
12	311	0	0	0	0	0	0	255	0	0	56	0
13	341	0	0	50	0	0	0	255	0	0	36	0
14	364	0	0	50	0	0	0	255	0	0	59	0
15	380	0	0	50	0	0	0	275	0	0	55	0
16	392	0	0	50	0	0	0	255	0	0	87	0
17	402	0	0	50	0	0	0	255	0	0	97	0
18	408	0	0	50	0	0	0	255	0	0	103	0
19	398	0	0	50	0	0	0	255	0	0	93	0
20	376	0	0	50	0	0	0	255	0	0	71	0
21	360	0	0	0	0	0	0	255	0	0	105	0
22	336	0	0	0	0	0	0	255	0	0	81	0
23	307	0	0	0	0	0	0	255	0	0	52	0
24	280	0	0	0	0	0	0	250	0	0	30	0

Peak Winter Day Hourly Dispatch (MW)												
Hour	Customer Oriented		Power Transactions		Energy Storage		Generation Resources					
	Total Load	Demand Response	Sales	Purchases	Charging	Discharging	Nuclear	Natural Gas	Coal	Oil	Other (biomass)	Solar
1	300	0	0	0	0	0	0	112	60	23	105	0
2	298	0	0	0	0	0	0	112	58	23	105	0
3	303	0	0	0	0	0	0	112	63	23	105	0
4	312	0	0	0	0	0	0	112	72	23	105	0
5	325	0	0	0	0	0	0	112	85	23	105	0
6	345	0	0	0	0	0	0	112	105	23	105	0
7	375	0	0	0	0	0	0	112	120	38	105	0
8	385	0	0	0	0	0	0	112	120	48	105	0
9	376	0	0	0	0	0	0	112	120	39	105	0
10	353	0	0	0	0	0	0	112	113	23	105	0
11	335	0	0	0	0	0	0	112	95	23	105	0
12	314	0	0	0	0	0	0	112	74	23	105	0
13	290	0	0	0	0	0	0	112	53	23	102	0
14	269	0	0	0	0	0	0	112	53	23	81	0
15	256	0	0	0	0	0	0	112	53	23	68	0
16	254	0	0	0	0	0	0	112	53	23	66	0
17	259	0	0	0	0	0	0	112	53	23	71	0
18	279	0	0	0	0	0	0	112	53	23	91	0
19	307	0	0	0	0	0	0	112	67	23	105	0
20	315	0	0	0	0	0	0	112	75	23	105	0
21	318	0	0	0	0	0	0	112	78	23	105	0
22	317	0	0	0	0	0	0	112	77	23	105	0
23	310	0	0	0	0	0	0	112	70	23	105	0
24	304	0	0	0	0	0	0	112	64	23	105	0

Note that coal and oil are typically only used during winter peaks, as natural gas tends to be in limited supply or uneconomical during these times. For the majority of the winter season, coal and oil are not utilitized.

TYSP Year 2026
Question No. 72

Year		Firm Purchase Rates		Non-Firm Purchase Rates		As-Available Energy Rates		
		Annual Average ($/MWh)	Escalation Rate (%)	Annual Average ($/MWh)	Escalation Rate (%)	Annual Average ($/MWh)	On-Peak Average ($/MWh)	Off-Peak Average ($/MWh)
Actual	2016							
	2017							
	2018							
	2019							
	2020							
	2021							
	2022							
	2023							
	2024							
	2025							
Projected	2026							
	2027							
	2028							
	2029							
	2030							
	2031							
	2032							
	2033							
	2034							
	2035							

Notes

GRU does not have any such contractual purchases, sales, or as-available energy rates.

TYSP Year 2026
Question No. 73

Year		Uranium		Biomass		Coal		Natural Gas		Residual Oil		Distillate Oil		Hydrogen		Other (Specify)	
		GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU
Actual	**2016**	0	0	0	0	413	3.20	1144	3.21	0	4.85	0	8.97	0	0	0	0
	2017	0	0	102	2.78	401	3.25	901	3.70	1	4.32	1	9.86	0	0	0	0
	2018	0	0	570	2.92	460	3.41	1002	3.67	0	6.18	1	10.70	0	0	0	0
	2019	0	0	594	2.72	449	3.47	854	3.00	1	6.18	0	10.70	0	0	0	0
	2020	0	0	375	2.85	215	3.47	1276	2.38	0	6.18	0	10.70	0	0	0	0
	2021	0	0	597	2.89	320	3.70	992	4.58	6	6.18	0	10.67	0	0	0	0
	2022	0	0	610	3.46	32	5.45	1333	8.12	2	6.21	0	10.81	0	0	0	0
	2023	0	0	287	3.67	20	7.02	1553	4.16	0	0.00	0	11.96	0	0	0	0
	2024	0	0	253	3.35	2	4.92	1562	3.61	0	14.00	0	11.43	0	0	0	0
	2025	0	0	453	3.67	13	7.65	1364	4.55	9	14.00	0	11.43	0	0	0	0
Projected	**2026**	0	0	650	3.70	87	6.76	1014	5.96	0	14.00	0	11.43	0	0	0	0
	2027	0	0	484	3.79	0	*	1356	4.96	0	*	0	*	0	0	0	0
	2028	0	0	491	3.87	0	*	1349	4.60	0	*	0	*	0	0	0	0
	2029	0	0	301	3.94	0	*	1542	4.17	0	*	0	*	0	0	0	0
	2030	0	0	266	4.02	0	*	1561	4.10	0	*	0	*	0	0	0	0
	2031	0	0	270	4.10	0	*	1587	4.23	0	*	0	*	0	0	0	0
	2032	0	0	271	4.18	0	*	1628	4.37	0	*	0	*	0	0	0	0
	2033	0	0	370	4.25	0	*	1507	4.50	0	*	0	*	0	0	0	0
	2034	0	0	410	4.33	0	*	1448	4.70	0	*	0	*	0	0	0	0
	2035	0	0	350	4.41	0	*	1550	4.80	0	*	0	*	0	0	0	0

Notes

*GRU did not create a coal, residual oil, or distallate oil price forecast, as it has no immediate plans to purchase additional quantities of these fuels at this time.

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TYSP Year 2026

Question No. 81e

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
2026				
2027				
2028				
2029				
2030				
2031				
2032				
2033				
2034				
2035				
Notes				
No such costs are identified.				

TYSP Year 2026
Question No. 83

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW) Net		Estimated EPA Rule Impacts: Operational Effects						
					Mo	Yr	Sum	Win	ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CCR Non-Hazardous Waste	CCR Special Waste
Notes															
No such impacts are identified.															

TYSP Year 2026
Question No. 84

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)		Estimated EPA Rule Impacts: Cost Effects						
							Net		ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CCR	
					Mo	Yr	Sum	Win						Non-Hazardous Waste	Special Waste
Notes															
No such impacts are identified.															

TYSP Year 2026
Question No. 85

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW) Net		Estimated EPA Rule Impacts: Unit Availability						
					Mo	Yr	Sum	Win	ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CCR Non-Hazardous Waste	CCR Special Waste
Notes															
No such impacts are identified.															