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May 6, 2022

-VIA ELECTRONIC FILING-

Adam Teitzman Commission Clerk Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850

RE: Docket No. 20220000-OT Florida Power & Light Company's 2022-2031 Ten Year Power Plant Site Plan

Dear Mr. Teitzman:

Please find attached Florida Power & Light Company's responses to Staff's First Data Request (Nos. 3-95). FPL's response to Staff's First Data Request No. 77 is confidential and is being filed separately along with a Request for Confidential Classification. FPL is providing the non-confidential version of Staff's First Data Request No. 77 with the attached responses.

If there are any questions, please contact me at (561) 304-5662.

Sincerely,

/<u>s/ William P. Cox</u> William P. Cox Senior Attorney Fla. Bar No. 00093531

WPC:ec Enclosures cc: Donald Phillips, Division of Engineering

Florida Power & Light Company

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QUESTION:

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

RESPONSE:

Please see the attached table responsive to this question. The financial assumptions used in FPL's resource planning analyses are also available in Chapter 5 of the 2022 TYSP, on page 297.

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QUESTION:

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 14, 2021, and November 7, 2021).

RESPONSE:

Please see responsive document provided for FPL and Gulf Power. Gulf Power's hourly loads have been shifted forward to represent Eastern Standard Time. In general, for Daylight Savings Time, hour two is reported as zero, and for Standard Time (*i.e.*, Winter Time), hour one is divided by 2.

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QUESTION:

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.

<u>RESPONSE</u>:

Please see responsive document provided for FPL and Gulf Power.

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QUESTION:

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

RESPONSE:

For the legacy area served by FPL as depicted on page 30 of the 2022 FPL Ten-Year Site Plan, the system-wide hourly temperature is the weighted average of regional retail energy sales and temperature data from regional weather stations in the FPL legacy area. The regional weather stations are Miami, Ft. Myers, Daytona Beach, and West Palm Beach.

For the legacy area served by Gulf as depicted on page 44 of the 2022 FPL Ten-Year Site Plan, system-wide temperatures are based on hourly temperature data from the Pensacola weather station.

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QUESTION:

Please explain, to the extent not addressed in the Company's current planning period TYSP, how the reported forecasts of the number of customers, demand, and total retail energy sales were developed. In your response, please include the following information:

- Methodology.
- Assumptions.
- Data sources.
- Third-party consultant(s) involved.
- Anticipated forecast accuracy.
- Any difference/improvement(s) made compared with those forecasts used in the Company's most recent prior TYSP.

RESPONSE:

Customer Forecast

The FPL legacy area forecasts of customers by revenue class for residential, commercial, industrial, other public authority, and railroads & railways are based on a combination of regression models and exponential smoothing models. The forecast for the number of lighting customers is based on inputs from FPL's lighting team while the forecast for the number of wholesale customers is based on known wholesale contracts. The total customer forecast is the sum of the revenue class forecasts. Economic variables, such as numbers of households and employment, are from IHS Markit. The accuracy of the current customer forecast is expected to be consistent with prior forecasts, which was 0.5% for the 2021 TYSP customer forecast. Except for routine updates to incorporate more recent information and minor changes to model specifications, the current customer forecast methodology is consistent with the prior forecast methodology.

The Gulf legacy area forecasts of customers by revenue class for residential, commercial, and industrial are based on a combination of regression models and exponential smoothing models. The forecast for the number of lighting customers is based on inputs from FPL's lighting team, while the forecast for the number of wholesale customers is based on known wholesale contracts. Economic variables, such as numbers of households and retail activity, are from IHS Markit. The accuracy of the current customer forecast is expected to be consistent with prior forecasts, which was 0.6% for the 2021 TYSP customer forecast. Except for routine updates to incorporate more recent information and minor changes to model specifications, the current customer forecast methodology is consistent with the prior forecast methodology.

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The customer forecasts for the FPL combined system are derived by summing the FPL and Gulf revenue class customer forecasts.

Peak Demand

FPL's summer peak demand forecast was developed using a regression model, and the model included variables for peak day maximum temperature, employment, an energy efficiency variable, and cooling degree hours for the prior day. The accuracy of the current summer peak demand forecast is expected to be consistent with prior forecasts, which was -1.8% for the 2021 TYSP forecast. Except for routine updates to incorporate more recent information and minor changes to model specifications, FPL's summer peak demand forecasting methodology is consistent with that used for prior summer peak demand forecasts.

Gulf's summer peak demand forecast was developed using a regression model, and the model included variables for peak day temperature, income per capita, an efficiency variable, and a moving average term. The accuracy of the current summer peak demand forecast is expected to be consistent with prior forecasts, which was -0.5% for the 2021 TYSP forecast. Except for routine updates to incorporate more recent information and minor changes to model specifications, Gulf's summer peak demand forecasting methodology is generally consistent with that used for prior summer peak demand forecasts.

In prior Site Plans, FPL used "P50" winter peak demand forecasts, which denotes a forecast that has a 50% probability that the actual peak demand will be lower than the forecast. The recommended resource plan presented in this year's Site Plan relies on a winter peak demand which reflects the severe winter conditions experienced during December 1989; therefore, the actual winter peak demands are expected to be less than the forecasted winter peak demands.

The winter peak demand forecasts were developed using a two-step approach. The first step was to develop P50 normal weather forecasts using econometric models. The second step was to estimate the increase in the winter peak demand associated with the actual 1989 winter weather conditions. The P50 winter peak forecasts were developed using methods similar to those employed in prior TYSP forecasts. The increases in winter peak demand associated with actual 1989 winter weather conditions were developed using multiple linear regression models using historical daily peak loads for those days with heating loads. The same system average hourly temperature data was used for both the P50 models and the 1989 winter weather models.

The peak demand forecast for the planned combined system is derived by summing the forecasted hourly load shapes for both FPL and Gulf.

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Total Retail Energy Sales

FPL's total retail energy sales forecast is the sum of the revenue class energy sales forecasts. The residential, commercial, and industrial class energy sales forecasts are based on projected use per customer per billing day multiplied by the projected number of customers and billing days. Additional details for the individual models are provided below. The accuracy of the current retail energy sales forecast is expected to be consistent with prior forecasts, which was 0.3% for the 2021 TYSP energy sales forecast. Except for routine updates to incorporate more recent information and minor changes to model specifications, FPL's retail energy sales methodology is consistent with that used for the prior energy sales forecast.

FPL's residential use per customer forecast is based on a regression model which includes normal weather, a price term to reflect increases in the real price of electricity, real disposable income per household, an energy efficiency variable, an autoregressive term, a binary variable for Hurricane Irma and Hurricane Wilma, and a binary variable for April 2020.

FPL's commercial use per customer forecasts are based on two regression models, one for commercial customers on demand rates 500 kW and above (large commercial) and one for commercial on energy only rates and demand rates less than 500 kW (small/medium commercial). The large commercial model includes normal weather, a price term to reflect increases in the real price of electricity, employment, an autoregressive term, binary variable for March-May 2020, and monthly binary variables. The small/medium commercial model includes normal weather, a price term to reflect increases in the real price of electricity, employment, an energy efficiency variable, a binary variable for Hurricane Irma, binary variables for April-May 2020, a monthly binary variable for November 2005, and an autoregressive term.

FPL's industrial use per customer forecasts are based on two exponential smoothing models for large (>= 500 kW) and medium (21-499 kW) industrial customers and one econometric model for small (<= 20 kW) industrial customers. The small industrial use per customer model includes normal weather, a binary variable for Hurricane Irma, and an autoregressive term.

FPL's railroads & railways energy sales forecast is based on a regression model which includes monthly binary variables and autoregressive terms.

FPL's energy sales forecast for the other public authority class is based on an exponential smoothing model.

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Gulf's total retail energy sales forecast is the sum of the revenue class energy sales forecasts. The residential and commercial class energy sales forecasts are based on projected use per customer per billing day multiplied by the projected number of customers and billing days; additional details for the individual models are provided below. The industrial sales forecast is based on projected use per customer multiplied by the number of customers. The street & highway energy sales forecast is based on inputs from FPL's lighting team. The accuracy of the current retail energy sales forecast is expected to be consistent with prior forecasts, which was -1.1% for the 2021 TYSP energy sales forecast. Except for routine updates to incorporate more recent information and minor changes to model specifications, Gulf's residential and commercial energy sales forecasting methodology is consistent with that used for prior forecasts.

Gulf's residential use per customer forecast is based on a regression model which includes normal weather, a price term to reflect increases in the real price of electricity, an energy efficiency variable, historical binary variables, monthly binary variables, and an autoregressive term.

Gulf's commercial use per customer forecasts is based on two regression models, one for small commercial customers (Gulf rate schedules GS and FLAT-1 GS) and one for large commercial customers (commercial customers on all other non-OS rate schedules). The regression model for small commercial use per customer includes normal weather, a price term to reflect the real price of electricity, an energy efficiency variable, historical binary variables, monthly binary variables, and an autoregressive term. The regression model used for large commercial use per customer includes normal weather, a price term to reflect increases in the real price of electricity, an energy efficiency variable, historical binary variables, monthly binary variables, and an autoregressive term.

Gulf's industrial use per customer forecast is based on an exponential smoothing model. Gulf's street & highway forecast is based on inputs from FPL's lighting team.

The total retail energy sales forecast for the planned combined system is derived by summing the forecasted energy sales for both FPL and Gulf.

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QUESTION:

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

RESPONSE:

The following open FPSC dockets are based on the same load forecast used in FPL's current planning period TYSP:

- 20220010-EI Storm protection plan cost recovery clause; and
- 20220072-EQ Petition for approval of renewable energy tariff and standard offer contract, by Florida Power & Light Company.

There are no closed FPSC dockets or non-docketed FPSC matters that used the same load forecast.

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QUESTION:

Please explain if your Company evaluates the accuracy of its forecasts of customer growth and annual retail energy sales presented in its past TYSPs by comparing the actual data for a given year to the data forecasted one, two, three, four, five, or six years prior.

- a. If your response is affirmative, please explain the method used in your evaluation, and provide the corresponding results, including work papers, in Excel format for the analysis of each forecast presented in the TYSPs filed with the Commission during the 20-year period prior to the current planning period. If your Company limits its analysis to a period shorter than 20 years prior to the current planning period, please provide what analysis you have and a narrative explaining why your Company limits its analysis period.
- b. If your response is negative, please explain why.

RESPONSE:

a. Yes, accuracy is evaluated for both FPL and Gulf Power. The formula used to calculate the forecast accuracy of customer and retail energy forecasts is shown below. The forecast variance is calculated as the weather normalized actual value divided by the forecast value minus 1. For customers, actuals are used as there are no weather normalized actuals. Variances are calculated over a one-to-ten-year forecast horizon for FPL and one-to-six-year forecast horizon for Gulf.

Forecast Variance (%) =
$$\left[\left(\frac{Weather Normalized Actual}{Forecast}\right) - 1\right]$$

Please see responsive document for the customer and retail energy forecast variances for FPL and Gulf Power.

b. Not applicable.

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QUESTION:

Please explain if your Company evaluates the accuracy of its forecasts of Summer/Winter Peak Energy Demand presented in its past TYSPs by comparing the actual data for a given year to the data forecasted one, two, three, four, five, or six years prior.

- a. If your response is affirmative, please explain the method used in your evaluation, and provide the corresponding results, including work papers, in Excel format for the analysis of each forecast presented in the TYSPs filed with the Commission during the 20-year period prior to the current planning period. If your Company limits its analysis to a period shorter than 20 years prior to the current planning period, please provide what analysis you have and a narrative explaining why your Company limits its analysis period.
- b. If your response is negative, please explain why.

RESPONSE:

a. Yes, accuracy is evaluated for both FPL and Gulf Power. The formula used to calculate the forecast accuracy of the respective Summer/Winter Peak Energy Demand forecasts is shown below. The forecast variance is calculated as the weather normalized actual value divided by the forecast value minus 1. Variances are calculated over a one-to-ten-year forecast horizon.

Forecast Variance (%) =
$$\left[\left(\frac{Weather Normalized Actual}{Forecast}\right) - 1\right]$$

A positive forecast variance represents an under-forecast, while a negative forecast variance represents an over-forecast.

Please see responsive document for the Summer/Winter Peak Energy Demand forecast variances for FPL and Gulf Power.

b. Not applicable.

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QUESTION:

Please explain any historic and forecasted trends in each of the following:

- a. Growth of customers, by customer type (residential, commercial, industrial) as well as Total Customers, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.
- b. Average KWh consumption per customer, by customer type (residential, commercial, industrial), and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.
- c. Total Sales (GWh) to Ultimate Customers, identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends. Please include a detailed discussion of how the Company's demand management program(s) and conservation/energy-efficiency program(s) impact the growth/decline of the trends.

RESPONSE:

a. Growth of customers

FPL's total customers grew 1.5% in 2021 and 2020. These growth rates are in line with normal growth rates. The total customer growth was driven primarily by residential customer growth, which grew 1.5% in 2021. Commercial customers grew by 1.1% in 2021 due to the growth of small and medium commercial customers; the number of large commercial customers decreased. Industrial customer grew by 4.6% in 2021 due to the growth of small industrial customers.

Gulf's total customers grew by 1.5% in 2021, compared to growth of 1.2% in 2020. The total customer growth was driven primarily by growth in residential and commercial customers. Industrial customers decreased by 3.3% in 2021; however, this decrease is not indicative of overall class-level trends because the 2.0% decline was due to a decrease of 8 customers from a total customer base of 245 down to 237.

Customers for the combined FPL and Gulf system are forecasted to grow by 1.1 to 1.4% per year over the forecast horizon, with total customer growth being driven primarily by residential customer growth.

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b. Average kWh consumption per customer

FPL's weather-normalized use per customer for residential and commercial customers reflect the impacts of the pandemic and the resulting return to more normal conditions. 2021 residential usage saw a slight decrease of -0.7% as the lifting of stay-at-home restriction led to customers remaining in their homes less; conversely commercial usage saw an increase of 1.3% due to rebounding commercial activity. FPL's industrial use per customer declined -4.7%, but this decline was attributable to strong growth in the number of small industrial customers with low average usage.

Gulf's weather-normalized use per customer for residential and commercial customers saw patterns like those for FPL. Gulf's 2021 residential usage decreased by -1.7% while commercial usage increased by 2.5%. Industrial usage remained relatively flat.

For the combined system, residential use per customer is forecasted to be flat or slightly declining through 2027 due to continued improvements in equipment efficiencies; for years 2028 and beyond, residential use per customer is forecasted to grow by 0.4% to 1% due to continued economic growth as well as increased adoptions of electric vehicles. Commercial usage is forecast to decline by 0.3% to 0.6% per year over the forecast horizon due to continued improvements to equipment efficiencies. As previously discussed, industrial use per customer is not as reliable a measure of overall class-level trends.

c. Total retail energy sales

FPL's weather-normalized retail energy sales increased 1.4% in 2021, driven by growth in residential and commercial class. Residential energy sales increased due to customer growth, partially offset by usage declines. Commercial energy sales increased due to both customer and usage growth. Industrial energy sales increased but had a negligible impact on total retail sales because industrial class sales are a small proportion of total retail sales.

Gulf's weather-normalized retail energy sales increased by 0. 6% in 2021 due to higher commercial energy sales, partially offset by residential and industrial sales. Residential energy sales decreased due to usage declines, partially offset by customer growth. Industrial energy sales decreased due to lower usage. The industrial energy sale decrease has a larger proportional impact on the former Gulf system because industrial class energy sales make up a larger proportion of total retail energy sales.

For the combined system, retail sales are forecast to grow by 0.6% to 1.2% per year over the TYSP forecast horizon. The retail sales growth is driven by growth in residential and commercial class sales, and these class-level energy sales are driven by customer growth.

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QUESTION:

Please explain any historic and forecasted trends in each of the following components of Summer/Winter Peak Demand:

- a. Demand Reduction due to Conservation and Self Service, by customer type (residential, commercial, industrial) as well as Total Customers, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline in the trends.
- b. Demand Reduction due to Demand Response, by customer type (residential, commercial, industrial), and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline of the trends.
- c. Total Demand, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline in the trends.
- d. Net Firm Demand, by the sources of peak demand appearing in Schedule 3.1 and Schedule 3.2 of the current planning period TYSP, and identify the major factors (historically, currently, and in the forecasted period) that contribute to the growth/decline in the trends.

RESPONSE:

a. Demand reduction due to Conservation and Self Service

For the combined FPL and Gulf Power system, the residential and commercial/industrial conservation at the time of the summer and winter peaks has increased over the last 10 years and is forecast to continue to increase through 2024.

b. Demand reduction due to demand response

Neither FPL nor Gulf Power has implemented any demand response in the past 4 years. No demand response is incorporated in the peak demand forecasts.

c. Total Demand

FPL's weather-normalized summer peak demand has trended upward over the past 10 years primarily due to growth in the number of customers along with the addition of new wholesale requirements sales.

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Gulf's weather-normalized summer peak demand has been generally flat over the past 10 years primarily due to efficiency improvements which offset customer growth.

For the combined system, summer peak demand is forecast to grow over the TYSP forecast horizon primarily driven by customer growth, partially offset by efficiency improvements.

d. Net Firm Demand

Net Firm Demand follows the same pattern as Total Demand and is influenced the same factors driving Total Demand. Net Firm Demand is simply Total Demand after adjusting for Demand Response and Conservation.

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QUESTION:

Please explain any anomalies caused by non-weather events with regard to annual historical data points for the period 10 years prior to the current planning period that have contributed to the following, respectively:

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

RESPONSE:

The Company is not aware of any non-weather anomalies that have contributed to the historical Summer and Winter Peak Energy Demands beyond those factors already identified as drivers of peak demand, such as customer growth, economic conditions, wholesale requirements sales, private solar, plug-in electric vehicles, Company-sponsored DSM programs, and demand response.

Additionally, the Company is not aware of any non-weather anomalies that have contributed to the historical Annual Retail Energy Sales beyond those factors already identified drivers of energy sales, such as codes and standards, economic conditions, retail price of electricity, wholesale requirements sales, private solar, plug-in electric vehicles, and Company-sponsored DSM programs.

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QUESTION:

Please provide responses to the following questions regarding the weather factors considered in the Company's retail energy sales and peak demand forecasts:

- a. Please identify, with corresponding explanations, all the weather-related input variables that were used in the respective Retail Energy Sales, Winter Peak Demand, and Summer Peak Demand models.
- b. Please specify the source(s) of the weather data used in the aforementioned forecasting models.
- c. Please explain in detail the process/procedure/method, if any, the Company utilized to convert the raw weather data into the values of the model input variables.
- d. Please specify with corresponding explanations:
- e. How many years' historical weather data was used in developing each retail energy sales and peak demand model.
- f. How many years' historical weather data was used in the process of these models' calibration and/or validation.
- g. Please explain how the projected values of the input weather variables (that were used to forecast the future sales or demand outputs for each planning years 2022 2031) were derived/obtained for the respective retail sales and peak demand models.

RESPONSE:

a. The degree hours used in all energy sales models are an average for the monthly billing cycle.

<u>FPL residential energy sales</u> HDH56: heating degree hours less than or equal to 56 degrees CDH7280: cooling degree hours greater than or equal to 72 and less than 80 degrees CDH80: cooling degree hours greater than or equal to 80 degrees Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 14 Page 2 of 4

Gulf residential energy sales

CDH67R1: cooling degree hours greater than or equal to 67 and less than 75 degrees CDH67R2: cooling degree hours greater than or equal to 75 and less than 85 degrees CDH67R3: cooling degree hours greater than or equal to 85 degrees HDH59R1: heating degree hours less than or equal to 59 and greater than 50 HDH59H2: heating degree hours less than or equal to 50

<u>FPL Small Medium Commercial energy sales</u> CDH66: cooling degree hours greater than or equal to 66 degrees

Gulf Small Commercial energy sales

CDH67C1: cooling degree hours greater than or equal to 67 and less than 75 degrees CDH67C2: cooling degree hours greater than or equal to 75 degrees HDH59C1: heating degree hours less than or equal to 59 degrees

FPL Large Commercial energy sales

CDH66: cooling degree hours greater than or equal to 66 degrees

Gulf Large Commercial energy sales

CDH60C1: cooling degree hours greater than or equal to 60 and less than 73 degrees CDH60C2: cooling degree hours greater than or equal to 73 degrees HDH50C1: heating degree hours less than or equal to 50 degrees

<u>FPL Small Industrial energy sales</u> CDH72: cooling degree hours greater than or equal to 72 degrees

FPL Winter Peak

PeakMinTemp: minimum peak day temperature PriorAMSquared: heating degree hours less than 66 degrees for the prior day of the peak through 8am of the peak day, squared

<u>Gulf Winter Peak</u> PeakMinTemp: minimum peak day temperature

<u>FPL Summer Peak</u> MxTmpDay: Max Peak Day Temperature CDHprior1: cooling degree hours greater than or equal to 72 degrees for the day prior Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 14 Page 3 of 4

<u>Gulf Summer Peak</u> CDHPkDay: cooling degree hours greater than or equal to 72 degrees

- b. WSI, an industry vendor for weather data, is the source of the weather data used in the input variables for both retail energy sales and peak demand forecasts.
- c. The weather variables for each model were developed as follows:

CDH and HDH Variables for Energy Sales Models:

First, the hourly weather data for PNS, MIA, FLL, FMY, and DAB from WSI is downloaded. Next, a system weighted temperature for FPL and Gulf is calculated (please see FPL's response to Staff's First Data Request No. 6). Lastly the cooling and heating degree hours are calculated using each of the specified thresholds using that data for each hour and summed for each day. The CDH and HDH for each day is added together to get the monthly CDH or HDH value for the specified threshold.

CDHprior1 for Peak Models:

The steps for the CDH and HDH variables in the energy sales models are used. However, after the summer peak is verified, cooling degree hours greater than 72 degrees for the day prior are calculated.

CDHPkDay for Peak Models:

The steps for the CDH and HDH variables in the energy sales models are used. However, after the summer peak is verified, cooling degree hours greater than 72 degrees for the peak day are calculated.

PriorAMSquared for Peak Models:

The steps for the CDH and HDH variables in the energy sales models are used. However, after the winter peak is verified, the heating degree hours less than 66 degrees for the prior day of the peak through 8am of the peak day, squared are calculated.

Minimum and Maximum Peak Day Temperatures for Peak Models:

First, the winter and summer peaks are validated for both FPL and Gulf. Next, using the system weighted hourly temperature (please see FPL's response to Staff's First Data Request No. 6), the maximum or minimum temperature at the time of the summer or winter peak is recorded for the variable.

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- d. See responses to subparts (e) and (f) below.
- e. Twenty years of historical data was used to develop each energy sales and peak demand model.
- f. No additional calibration or validation steps are performed for the various models because none are required beyond those used during the model development process.
- g. The projected values for the planning years of 2022 2031 for each weather variable used in the energy sales models and peak demand models were derived by taking the historical average value over the past 20 years and applying that value for each planning year.

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QUESTION:

If not included in the Company's current planning period TYSP, please provide load forecast sensitivities (high band, low band) to account for the uncertainty inherent in the base case forecasts in the following TYSP schedules, as well as the methodology used to prepare each forecast:

- a. Schedule 2.1 History and Forecast of Energy Consumption and Number of Customers by Customer Class.
- b. Schedule 2.2 History and Forecast of Energy Consumption and Number of Customers by Customer Class.
- c. Schedule 2.3 History and Forecast of Energy Consumption and Number of Customers by Customer Class.
- d. Schedule 3.1 History and Forecast of Summer Peak Demand.
- e. Schedule 3.2 History and Forecast of Winter Peak Demand.
- f. Schedule 3.3 History and Forecast of Annual Net Energy for Load.
- g. Schedule 4 Previous Year and 2-Year Forecast of Peak Demand and Net Energy for Load by Month.

RESPONSE:

The Company's recommend resource plan relies on a Winter Peak sensitivity that reflects the expected peak demand associated with the actual 1989 winter weather conditions. Both the extreme Winter Peak along with the P50 business as usual Winter Peak forecasts were shown in Schedule 3.2. Additionally, a sensitivity was developed for the Summer Peak forecast. This sensitivity relates to Schedule 3.1 column (2) and Schedule 4 columns (4) and (6) for the month of August. Please see the attached responsive document for the Summer Peak sensitivity.

Sensitivities are not developed for the other Schedules or for other columns of the Schedules listed above.

The process used to develop the Winter Peak sensitivity that is the basis for the Company's recommended resource plan was described in Chapter II of the Company's 2022 TYSP.

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The Summer Peak sensitivity was developed using Monte Carlo simulations of the weather variables which drive the Summer Peak. Separate models were developed for the FPL and Gulf legacy areas. The percentage changes from the Monte Carlo simulations were then applied to the base Summer Peak demand forecasts to arrive at the high and low forecast sensitivities for the FPL and Gulf areas. The FPL and Gulf sensitivities were combined to arrive at the integrated FPL system sensitivity.

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QUESTION:

Please provide responses to the following questions regarding the possible impacts of COVID-19 Pandemic (Pandemic)on the utility load forecast:

- a. Please briefly summarize the impacts due to the Pandemic, if any, to the accuracy of the Company's respective forecast of annual retail energy sales and peak demands for 2020 and 2021.
- b. Have any of your 2022 TYSP retail energy sales and peak demand forecasts incorporated the potential impacts of the Pandemic? Please explain your response.

RESPONSE:

Despite the unprecedented impacts the COVID-19 pandemic had on the Florida economy, the Company's forecasts of annual retail energy sales and peak demands for 2020 and 2021 exhibited forecast accuracies that were consistent with recent non-pandemic forecast periods. FPL's retail energy sales were within -1.3% and 0.3% of forecast for 2020 and 2021, respectively, and weather-normalized summer peak demands were within -1.2% and -1.8% of forecast for 2020 and 2021, respectively. Gulf's retail energy sales were within -1.2% and -1.1% for forecast for 2020 and 2021, respectively, and weather-normalized summer peak demands were within -1.2% and -1.1% for forecast for 2020 and 2021, respectively, and weather-normalized summer peak demands were within -0.4% and -0.5% of forecast for 2020 and 2021, respectively.

The Company's 2022 Ten-Year Site Plan retail energy sales and peak demand forecast account for the potential impacts of the pandemic by using actual data through the 3rd quarter of 2021 as well as utilizing economic forecasts from IHS Markit's August 2021 economic projections, which explicitly incorporate assumptions regarding the current and expected future impacts from the pandemic.

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QUESTION:

Please address the following questions regarding the impact of all customer-owned/leased renewable generation (solar and otherwise) on the Utility's forecasts.

- a. Please explain in detail how the Utility's load forecast accounts for the impact of customer owned/leased renewable generation (solar and otherwise).
- b. Please provide the annual impact, if any, of customer-owned/leased renewable generation (solar and otherwise) on the Utility's retail demand and energy forecasts, by class and in total, for 2022 through 2031.
- c. If the Utility maintains a forecast for the planning horizon (2022-2031) of the number of customers with customer-owned/leased renewable generation (solar and otherwise), by customer class, please provide.

RESPONSE:

a. To account for the impact of customer-owned/leased renewable generation, FPL develops an internal forecast of private solar growth in its service territory and reduces its baseline load forecasts for net energy for load (MWh) and summer/winter peak (MW) by the incremental amount of customer-owned/leased generation expected from this growth.

To do this, FPL relies on Wood Mackenzie's *US Solar Market Insight* reports, published both quarterly and annually, in a larger "Year in Review" report. These third-party reports include supporting excel tables that contain Wood Mackenzie's estimates for historical and projected installed nameplate capacity (MWdc) of residential and commercial distributed generation in the state of Florida. Because Wood Mackenzie typically provides five-year forecasts in its quarterly reports and ten-year forecasts in its annual report, FPL will use (at the time the load forecast is developed) the most recent quarterly report for the first five years of projections and the most recent Year in Review report for the remaining five years. FPL then estimates the cumulative installed capacity in the utility's service territory by adjusting these state-level forecasts by the recent actual in-territory percentage.

A forecast of the number of customers to adopt owned/leased solar generation is then inferred by dividing forecasted additions to capacity by the estimated average system size.

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To estimate the impact to the load forecast, FPL uses sample results from the *PVWatts Calculator*, made publicly available on-line by the National Renewable Energy Laboratory (NREL) at <u>https://pvwatts.nrel.gov/</u>. The impact of customer-owned/leased solar on monthly net energy for load is estimated by multiplying a monthly interpolation of the installed capacity forecast by the solar output (kWh/kWdc) for the corresponding month, as estimated by *PVWatts*, less an annual panel degradation rate of 0.5%. The impact on summer/winter peak is estimated by multiplying the interpolated installed capacity forecast by the average *PVWatts* hourly solar output (kWh/kWdc) at the assumed month and hour of the summer/winter peak (*e.g.*, August 4:00-5:00 PM / January 7:00-8:00 AM), less an annual panel degradation rate of 0.5%.

- b. Please see attached document provided.
- c. Please see attached document provided.

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QUESTION:

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

<u>RESPONSE</u>:

Yes, the contribution of plug-in electric vehicles to FPL and Gulf's peak demands and energy forecasts are included in the 2022 Ten-Year Site Plan. A description of the methodology used to develop the plug-in electric vehicle energy and demand forecasts can be found in the company's response to Staff's First Data Request No. 19. The impact of plug-in electric vehicles is accounted for in the forecasting process as line item adjustments to FPL's net energy for load ("NEL"), summer, and winter coincident peak demands for the 2022 through 2031 period. These contributions are incremental to totals for each line item for each year from the end of 2021.

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QUESTION:

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

<u>RESPONSE</u>:

The Company estimates penetration using historical vehicles in operation data, forecasted population data, and forecasted gross-domestic product and gross-state product data purchased from IHS Markit, a subsidiary of S&P Global. The Company performs its estimation using a two-step process.

First, the Company reviews its PEV forecast for Florida annually, and updates as necessary, using the following methodology:

- The Company starts by forecasting the number of PEVs by vehicle type expected to be in use in the United States using a number of third-party resources (*e.g.*, Bloomberg New Energy Finance, Wood Mackenzie) and discussions with knowledgeable professionals in the automotive industry.
- The Company then calculates an estimated percentage of PEVs in Florida by taking a blended average of the forecasted population in Florida as a percentage of U.S. population (6.6-7.0%) and forecasted gross-state product as a percentage of U.S. gross-domestic product for each year (5.1%-5.3%)
- This blended percentage share (5.9-6.1%) is then multiplied by the Company's national forecast to get the Florida PEV forecast by year.

Second, the Company updates its PEV forecast for its service territory annually using the following methodology:

- FPL takes the number of PEVs in operation in its service territory and divides it by the number of PEVs in use in Florida to derive FPL's current share of the Florida market.
- This percentage share (~60.9%) is then multiplied by the Florida PEV forecast (as described above) to get the annual PEV service territory forecast.

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The contribution to net energy for load from PEVs was derived from the Company's light duty vehicle (passenger car or "LDV") and truck and bus forecasts using estimates of vehicle efficiency (in miles per kWh) and the expected average annual driving distance per vehicle. Vehicle efficiency data is sourced from Fueleconomy.gov. The Company then sources average annual miles driven by vehicle type (*e.g.*, passenger, medium commercial, heavy commercial, and buses) from the U.S. Department of Energy Alternative Fuels Data Center and U.S. Department of Transportation Federal Highway Administration. For each vehicle type, annual driving distance (mi.) is divided by vehicle efficiency (mi./kWh) to determine the average annual kWh usage per vehicle. These values are then multiplied by the forecasted number of vehicles to determine aggregate energy load. Energy values are at the generator and have been adjusted for system losses.

For summer and winter peak demand, the Company uses the Electric Vehicle Infrastructure Projection Tool (EVI Pro) Lite Load Profile tool developed by National Renewable Energy Laboratory and supported by the U.S. Department of Energy's Vehicle Technologies Office. The load profile tool provides an output of expected hourly load shapes. The company then derives a peak per vehicle percentage for the summer and winter peak demand. The peak per vehicle percentage is then extrapolated by vehicle segment (*e.g.*, passenger, medium commercial, heavy commercial, buses) based on estimated number of kWh per vehicle segment per year. The estimated impact to summer and peak demand is then derived by multiplying the peak per vehicle percentage by vehicle segment by the forecasted number of vehicles in that segment.

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<u>QUESTION</u>:

Please refer to the Excel Tables File (Electric Vehicle Charging). Complete the table by providing estimates of the requested information within the Company's service territory for the current planning period. Direct current fast charger (DCFC) PEV charging stations are those that require a service drop greater than 240 volts and/or use three-phase power.

<u>RESPONSE</u>: Please see attached document. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 21 Page 1 of 3

QUESTION:

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

- a. Of these programs or tariffs, are any designed for or do they include educating customers on electricity as a transportation fuel?
- b. Does the Company have any programs where customers can express their interest or expectations for electric vehicle infrastructure as provided for by the Utility, and if so, please describe in detail.

RESPONSE:

The Company currently offers three EV public fast charging pilot tariffs that took effect in January 2021 and will last for a period of five years:

- 1) The Utility-owned public charging for electric vehicles (UEV) tariff, enables FPL to charge drivers directly at FPL-owned EVolution fast chargers at an established rate of \$0.30/kWh.
- 2) The other two tariffs, Electric Vehicle Charging Infrastructure Riders for General Service Demand (GSD-1EV) and General Service Large Demand (GSLD-1EV), apply to commercial customers on demand rates that offer publicly accessible fast charge stations on their premises. These tariffs help mitigate the impact of demand charges for charging stations that have low use.

In addition to the above referenced tariffs, the Commission approved FPL's 2021 Rate Case Settlement Agreement in Docket No. 20210015-EI which included the following EV programs and tariffs as referenced in section 22 of the Joint Motion for Approval of Settlement Agreement:

 EVolution – A pilot program that supports the growth of electric vehicles. The primary objective of this program is to gather data and learnings ahead of mass EV adoption to better plan for and design possible future EV investments. The pilot focuses on infrastructure build-out, impacts of EV adoption rates, rate structures and demand models, and grid impacts of fast charging. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 21 Page 2 of 3

- 2) Public Fast Charging Program Company-owned, operated, and maintained fast charging that expands access to the public, including access in underserved areas and evacuation routes.
- 3) Residential EV Charging Services Pilot A voluntary tariff for residential customers who desire EV charging service, for a fixed rate, through the installation of a level 2 EV charger, owned, operated, and maintained by the Company. The subscription utilizes FPL's filed Time-of-Use ("TOU") rate and includes unlimited off-peak charging and flexibility to charge during on-peak periods if needed, at on-peak TOU rate. See tariff sheet Residential Electric Vehicle Charging Services Rider Pilot (RS-1EV).
- 4) Commercial EV Charging Services Pilot A voluntary tariff for Commercial customers who desire EV charging services for fleet vehicles through the installation of Company owned, operated, and maintained EV charging facilities on a customer's premise. Under the tariff, customer will pay a fixed monthly charge, established via a formula-based rate to allow for individual customer pricing. See tariff sheet Commercial Electric Vehicle Charging Services Rider Pilot (OCEVS-1).
- 5) New Technologies and Software Limited pilot initiatives designed to evaluate emerging EV technologies and enhance service and resiliency for customers. In addition, FPL will implement software upgrades, including the FPL Evolution App and systems enhancements, to provide a streamlined customer experience in support of the EV programs.
- 6) Education and Awareness FPL will complement its EV programs by adding components that increase awareness and educate customers about the choice to go electric.
- a. Customers can find information about EVs and Company EV programs on fpl.com/EV. Further expansion of the company website is planned as part of the Education and Awareness initiatives referenced above. The Company will also provide information to customers that reach out with questions about EVs. In addition, FPL conducts education and outreach activities by participating in EV events within our service territory.

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b. As detailed in Chapter III of the Company's 2022-2031 Ten Year Power Plant Site Plan, FPL launched the FPL Evolution pilot program in 2019 to support EV growth in Florida. The pilot will install more than 1,000 charging ports at stations across Florida, increasing the availability of universal public charging stations in Florida by approximately 50%.

The primary objective of this pilot program for FPL is to gather data and learnings ahead of mass EV adoption to ensure future EV investments enhance service and reduce costs. The pilot focuses on three key areas: a) influences of infrastructure build-out on adoption; b) rate structures and demand models; and c) grid impacts of fast-charging.

Installations under the pilot encompass different EV charging technologies and market segments, including level 2 workplace and fleet charging at public and/or private workplaces; destination charging at well-attended locations; residential charging at customers' homes; and DC fast charging in high-traffic areas like bus depots and strategically located sites along highway corridors and evacuation routes. This pilot program is conducted in partnership with interested host sites. As of March 31, 2022, FPL has installed 746 ports at 180 locations.

In addition to the EVolution pilot program, customers can express their interest or expectations for electric vehicle infrastructure as provided for by FPL through the programs and offerings approved under the Settlement Agreement referenced above.

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QUESTION:

Please describe how the Company monitors the installation of PEV public charging stations in its service area.

RESPONSE:

The Company monitors the number of public charging station installations for plug-in electric vehicles ("PEVs") in their service areas using the U.S. Department of Energy's Alternative Fueling Station Locator. On a periodic basis, the Company extracts data from the Alternative Fueling Station Locator for Florida. Pertinent data fields include but are not limited to number of ports, category of port (*e.g.*, level 2 or DCFC), and location of port.

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QUESTION:

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

RESPONSE:

For the period of January 1 of the year prior to the current planning period, FPL did not track residential upgrades associated with PEVs. Through the implementation of the EV programs referenced in Staff's First Data Request No. 21, the Company has gained some insights from the EVolution pilot launched in 2019 for non-residential charging and expects to gain learnings from the public fast charging, residential, and commercial fleet EV programs. Specific to the EVolution pilot, distribution upgrades were limited but varied by site location and infrastructure set-up, consisting of installation of transformers, conduit, wiring, and other electrical installation costs.

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<u>QUESTION</u>:

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

RESPONSE:

No, the Company has not conducted or contracted research to determine demographic or regional factors that influence the adoption of electric vehicles applicable to its service territory.

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QUESTION:

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

RESPONSE:

FPL does not have any processes or technology in place to track individual EV charger installations at a customer's home. Through the implementation of the Residential EV Charging Services Pilot program referenced in Staff's First Data Request No. 21, the Company will be able to track individual EV charger installations associated with the program.

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QUESTION:

What are the major drivers of the Company's PEV growth?

<u>RESPONSE</u>:

As referenced in FPL's response to Staff's First Data Request No. 19, the Company starts by forecasting the number of PEVs by vehicle type expected in the United States using third-party resources Bloomberg New Energy Finance ("BNEF") and Wood Mackenzie ("WM"). These third-party sources cited a combination of government policy support, rising commitments from automakers, more charging infrastructure being built out, and improvements in battery density and cost as drivers to EV growth.

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QUESTION:

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

RESPONSE:

As referenced in FPL's response to Staff's First Data Request No. 19, the Company's projection of PEV growth and related demand and energy growth is based on a two-step process that starts with expected forecast of PEVs from third-party resources Bloomberg New Energy Finance ("BNEF") and Wood Mackenzie ("WM"). Section 339.287, Florida Statutes, (Electric Vehicle Charging Stations; Infrastructure Plan Development) has not directly impacted the Company's projection of PEV growth and related demand and energy growth. However, BNEF and WM site government policy support as one of the primary drivers for the U.S. projections, which included assumptions from the enacted federal Bipartisan Infrastructure Law (Public Law 117-58, Infrastructure Investment and Jobs Act) which allocates funding for infrastructure deployment to the states.

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QUESTION:

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

<u>RESPONSE</u>:

At the current level of PEV ownership, the impact on the Company's actual demand is minimal, estimated to be less than 0.005%, given the limited vehicles on the road. However, PEV ownership is estimated to increase significantly resulting in an estimated 4% of peak demand by 2031. As referenced in FPL's response to Staff's First Data Request No. 19, the Company uses the Electric Vehicle Infrastructure Projection Tool (EVI Pro) Lite Load Profile tool developed by National Renewable Energy Laboratory and supported by the U.S. Department of Energy's Vehicle Technologies Office to estimate impacts to forecasted peak demand. Additionally, through the implementation of the EV programs referenced in FPL's response to Staff's First Data Request No. 21, the Company expects to gain learnings on impacts to energy and demand from the public fast charging, home, and fleet EV programs.

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QUESTION:

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

RESPONSE:

Please refer to Document 00808-2022, 2021 Public Electric Vehicle ("EV") Optional Pilot tariffs Report and EVolution Pilot Program Summary, filed on January 28, 2022, in Docket No. 20200170-EI: *Petition for approval of optional electric vehicle pilot charging tariffs, by Florida Power & Light Company* for key findings and metrics of the Company's EV pilot programs. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 30 Page 1 of 1

QUESTION:

Please refer to the Excel Tables File (DR Participation). Complete the table by providing for each source of demand response annual customer participation information for 10 years prior to the current planning period. Please also provide a summary of all sources of demand response using the table.

RESPONSE:

Please see responsive document provided for FPL and Gulf Power.

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QUESTION:

Please refer to the Excel Tables File (DR Annual Use). Complete the table by providing for each source of demand response annual usage information for 10 years prior to the current planning period. Please also provide a summary of all demand response using the table.

<u>RESPONSE</u>:

Please see responsive document provided for FPL and Gulf Power.

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QUESTION:

Please refer to the Excel Tables File (DR Peak Activation). Complete the table by providing for each source of demand response annual seasonal peak activation information for 10 years prior to the current planning period. Please also provide a summary of all demand response using the table.

RESPONSE:

Please see responsive document provided for FPL and Gulf Power.

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QUESTION:

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

<u>RESPONSE</u>:

Please see the attached document for the requested information for FPL's Recommended Plan and FPL's Business as Usual Plan. Please note that both tables utilize FPL's business-as-usual P50 peak load forecast. The reason for this is explained below.

As discussed in Chapter 3 (page 93) of the 2022 Ten-Year Site Plan ("TYSP"), FPL's planning around Extreme Winter load adds resources to meet the extreme Winter peak load <u>exactly</u> assuming no generation outages. This planning approach was taken to provide significant additional Winter capacity while minimizing the cost of the additional capacity. As such, FPL's Recommended Plan did not consider FPL's typical reliability criteria of Winter Reserve Margin and LOLP.

Therefore, FPL has chosen to present the LOLP calculations provided for the Recommended Plan based on the P50 Winter peak load, as opposed to the Extreme Winter peak load. FPL notes that if the Extreme Winter peak load forecast had been utilized in the table for the Recommended Plan, a Winter reserve margin would be 0% (based on meeting the load exactly), and the LOLP values would be 1.00 or greater (due to the LOLP calculation accounting for the probability of unit outages). However, FPL notes that by using an Extreme Winter load in developing the Recommended Plan, it has already addressed any likely uncertainty associated with a higher load in Winter.

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QUESTION:

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

RESPONSE:

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QUESTION:

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

<u>RESPONSE</u>:

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QUESTION:

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

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

RESPONSE:

Please see responsive document attached. The only planned "traditional" generation resource planned in the current planning period is the Dania Beach Clean Energy Center combined cycle. This project is in construction with a current in-service date of June 2022.

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QUESTION:

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

<u>RESPONSE</u>:

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QUESTION:

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

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

RESPONSE:

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<u>QUESTION</u>:

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

RESPONSE:

No renewable resources were cancelled, delayed, or reduced in scope within the past year.

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QUESTION:

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

RESPONSE:

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QUESTION:

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

RESPONSE:

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QUESTION:

Please refer to the Excel Tables File (PPA Planned Traditional). Complete the table by providing information on each purchased power agreement with a traditional generator pursuant to which energy will begin to be delivered to the Company during the current planning period.

a. For each purchased power agreement in the table, provide a narrative response discussing the current status of the project.

RESPONSE:

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QUESTION:

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

RESPONSE:

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QUESTION:

Please refer to the Excel Tables File (PPA Planned Renewable). Complete the table by providing information on each purchased power agreement with a renewable generator pursuant to which energy will begin to be delivered to the Company during the current planning period.

a. For each purchased power agreement in the table, provide a narrative response discussing the current status of the project.

RESPONSE:

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<u>QUESTION</u>:

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

RESPONSE:

FPL has no purchased power agreements with a renewable generator that have been cancelled, delayed, or reduced in scope within the last year.

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<u>QUESTION</u>:

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

RESPONSE:

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<u>QUESTION</u>:

Please refer to the Excel Tables File (PSA Planned). Complete the table by providing information on each power sale agreement pursuant to which energy will begin to be delivered from the Company to a third-party during the current planning period.

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

RESPONSE:

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QUESTION:

Please list and discuss any long-term power sale agreements within the past year that were cancelled, expired, or modified.

RESPONSE:

FPL has no long-term power sale agreements that were cancelled, expired, or modified within the past year.

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<u>QUESTION</u>:

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

RESPONSE:

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<u>QUESTION</u>:

Please refer to the Excel Tables File (Potential Solar Sites). Complete the table by providing information on all of the Company's plant sites that are potential candidates for utility-scale (>2 MW) solar installations.

RESPONSE:

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QUESTION:

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

RESPONSE:

FPL's long history of evaluating and supporting the production of renewable energy is discussed comprehensively in Section III.F. of FPL's 2022-2031 Ten-Year Site Plan. A summary of FPL's recent actions to encourage use of renewable energy is provided in the paragraphs that follow.

Overview:

FPL began implementation of two distributed generation solar photovoltaic ("DG PV") pilot programs in 2015. The first DG PV program is a voluntary, community-based, solar partnership pilot, SolarNow, to install new solar powered generating facilities. The program is funded by contributions from customers who volunteer to participate in the pilot and does not rely on subsidies from non-participating customers. The second program, C&I Solar Partnership Pilot Program ("CISPP"), resulted in approximately 3.8 MW of DG PV and expired at the end of 2020. The objective of this second program was to collect grid integration data for DG PV and develop operational best practices for addressing potential problems that may be identified. The PV installed under this pilot program will continue to be evaluated for these purposes.

In addition, on March 3, 2020, the FPSC approved FPL's SolarTogether program and tariff, which will add a significant amount of new PV facilities under that new program. Lastly, Gulf has been actively involved in renewable energy resource research and development.

A brief description of these programs follows:

a. Voluntary, Community-Based Solar Partnership Pilot Program ("SolarNow"):

The Voluntary Solar Pilot Program, named FPL SolarNow, provides FPL customers with an additional and flexible opportunity to support development of solar power in Florida. The FPSC approved FPL's request for this three-year pilot program in Order No. PSC-14-0468-TRF-EI on August 29, 2014. The pilot program's tariff became effective in January 2015.

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In December 2020, FPL received approval from the FPSC in Order No. PSC-2020-0508-TRF-EI to extend the program until December 31, 2025, while ceasing construction of additional assets after 2021. As the construction of new assets ends, the program will continue to focus on the maintenance and enhancement of the solar facilities and educational and community activities.

This pilot program provides all customers the opportunity to support the use of solar energy at a community scale and is designed to be especially attractive for customers who do not wish, or are not able, to place solar equipment on their roof. Customers can participate in the program through voluntary contributions of \$9/month.

At the end of 2021, there were 48,833 participants enrolled in the Voluntary Solar Pilot Program. This program has installed 78 projects located in 36 communities within the FPL service territory. These projects represent approximately 2,530 kW-DC of PV generation.

In addition to the SolarNow program, FPL has also installed 88.3 kW-DC of distributed solar generators at 12 different locations and 7.2 kW-DC of non-grid tied solar and battery assets throughout FPL's Northwest Area.

b. C&I Solar Partnership Pilot Program:

This pilot program was conducted in partnership with interested commercial and industrial ("C&I") customers over an approximate 5-year period and expired in 2020. Limited investments were made in PV facilities located at customer sites on selected distribution circuits within FPL's service territory.

c. SolarTogether – An FPL Shared Solar Program ("FPL SolarTogether"):

On March 3, 2020, the FPSC approved the FPL SolarTogether program and tariff, which approval includes the installation of 1,490 MW of new solar generation between 2020 and 2021 (FPSC Docket No. 20190061-EI). FPL has developed FPL SolarTogether as a cost-effective opportunity for customers to directly support the expansion of solar power without the need to install solar on their rooftop. Through FPL SolarTogether, customers have the option to subscribe to kilowatts ("kW") of solar capacity from dedicated cost-effective 74.5 MW solar power plants built for this program. Participating customers' monthly bills will include the cost of their subscribed capacity and credits that reflect the system savings generated by their subscribed capacity. As of June 2021, all twenty approved sites under this program were complete and operational. The commercial,

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industrial, and government ("C&I-G") portion of the program has been sold out because of the 2018-2019 pre-registration efforts, and the waitlisted subscriptions for this segment total over 1,700 MW. The residential and small business subscriptions have also been fully subscribed with a smaller waitlist, and the low-income portion of SolarTogether, marketed as FPL SunAssist, opened for enrollment on January 14, 2021, and was fully subscribed as of February 2022.

As part of the recently approved 2021 Rate Case Settlement, FPL received approval to extend the FPL SolarTogether program through the construction of an additional 1,788 MW of cost effective solar through 2025. This incremental capacity will be allocated 40% to residential and small business customers with a carve out of 45 MW for low-income participants. The remaining 60% is allocated to CI&G customers, of which 20% is reserved for CI&G customers in the FPL Northwest Florida region.

d. Solar Power Facilities Pilot Program:

As part of the recently approved 2021 Rate Case Settlement, FPL received approval to offer a four-year voluntary pilot program to commercial and industrial customers that may elect to have FPL install and maintain a solar facility on their site for a monthly tariff charge. The program will be marketed under the name FPL SolarVantage. The output of these solar facilities would be used solely by the participating customer. The tariff is for a ten-year term, and the monthly fixed charge will recover the project capital costs and ongoing operating expenses from the program participants, such that the general body of customers will not be impacted.

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QUESTION:

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

RESPONSE:

FPL was approached multiple times in 2021 by renewable energy developers with a wide range of potential projects in various stages of research or development. While most of these projects were solar photovoltaic, developers have also suggested possible landfill gas generation and small waste to energy facilities. However, none of these proceeded beyond an initial inquiry, and to FPL's knowledge, none have proceeded to construction.

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QUESTION:

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

RESPONSE:

Yes. FPL considers universal (utility-scale) solar PV to contribute firm capacity towards both FPL's Summer peak (which typically occurs at/near the 4 to 5 p.m. hour in the Summer) and Winter peak (which typically occurs at/near the 7 to 8 a.m. hour in the Winter). In FPL's resource planning work, the firm capacity value of solar is typically discussed as a percentage of the MW nameplate-AC rating of the solar facility.

The percentage of a universal solar PV facility's nameplate rating that is assumed to be firm capacity can vary from one PV facility to the next due to various factors including, but not limited to, the following: the facility's geographic location, orientation of the PV panels, whether the PV panels are fixed tilt or tracking, the DC/AC ratio of solar equipment, the PV equipment used at the facility, and the amount of total solar installed on the system.

FPL develops the projected Summer and Winter firm capacity values for a new universal solar PV facility based, in part, on calculations that account for forecasts of the hourly solar insolation at the site and the resulting hourly output of the universal solar PV facility. These projections for similar future solar facilities may vary in the latter years of the 10-year reporting period due to previous solar additions shifting the hour of the peak load that remains after the impacts of the previous solar facilities are accounted for.

The firm capacity contribution (in MW) from each existing solar site is available in Schedule 1 while the firm capacity contribution from planned solar sites is available in Schedule 8.

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QUESTION:

Please identify whether a declining trend in costs of energy storage technologies has been observed by the Company.

RESPONSE:

A long-term declining trend in the cost of energy storage technologies has been observed by the Company. This decline has been briefly interrupted by what FPL believes is a short term increase due to lithium costs. Costs are expected to continue declining as lithium pricing normalizes or suppliers change to energy storage technologies that do not use lithium such as sodium ion.

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QUESTION:

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

<u>RESPONSE</u>:

Several alternatives to lithium batteries have emerged and are being developed and tested. Lithium battery storage technology has proven to be the most cost-effective and technically feasible solution for utility battery storage applications to date. We continue to monitor and request data for solutions such as Zinc Hybrid, Flow batteries, and others to understand technical offerings, potential for scaling to serve as a utility application, and possible impacts to project economics.

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QUESTION:

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).

RESPONSE:

FPL currently has three battery storage sites that are in-service. One is an approximate 409 MW battery storage facility that is in Manatee County near the existing Manatee Plant site. This battery and its location were selected based on a need for capacity in the Manatee area to account for potential high Winter peak loads. The 409 MW storage facility will utilize the existing transmission infrastructure at the Manatee Plant site. In addition, the battery will be located close to FPL's existing 74.5 MW solar facility at the Manatee Plant site. This helps enable the battery storage to be charged by solar resources. FPL's plan is to charge the new battery storage facility solely by solar for at least the first 5 years of the life of the battery storage, thus enabling the battery storage facility to qualify for the renewable investment tax credit ("ITC"). This helps lower the cost of the battery for the benefit of FPL's customers.

Two other 30 MW battery storage facilities went online in late 2021. One of these storage facilities is the Sunshine Gateway Energy Storage Center in Columbia County. The other storage facility is the Echo River Energy Storage Center in Suwanee County. The locations for these two storage facilities were selected for two primary reasons. First, universal solar facilities at/near the storage site will allow the storage facility to be fully charged by solar energy, thus enabling the storage facility to qualify for the renewable ITC. Second, the location of the quick start battery capacity will provide support for the FPL transmission system in regard to potential Winter peak load conditions.

For future battery storage additions, FPL's recommended resource plan adds 3,200 MW of batteries from 2027 through 2031. FPL's Business as Usual plan adds 1,800 MW of batteries from 2029 through 2031. Sites for all these batteries have not been selected yet.

In addition, FPL is evaluating battery storage in both Small Scale and Large Scale (50 MW) pilot projects to analyze a variety of potential battery applications. Please see pages 156 through 159 of the 2022 FPL Ten-Year Site Plan for a discussion of these pilot projects.

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QUESTION:

Please explain whether ratepayers have expressed interest in energy storage technologies. If so, how have their interests been addressed?

RESPONSE:

FPL continues to receive occasional inquiries about energy storage technologies. To the extent requested by customers, FPL has provided technical and interconnection support. As of March 31, 2022, FPL is aware of 2,230 net-metering accounts that have installed battery storage systems.

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QUESTION:

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

RESPONSE:

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QUESTION:

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

RESPONSE:

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QUESTION:

Please identify and describe the objectives and methodologies of all energy storage pilot programs currently running or in development with an anticipated launch date within the current planning period. If the Company is not currently participating in or developing energy storage pilot programs, has it considered doing so? If not, please explain.

- a. Please discuss any pilot program results, addressing all anticipated benefits, risks, and operational limitations when such energy storage technology is applied on a utility scale (> 2 MW) to provide for either firm or non-firm capacity and energy.
- 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.

RESPONSE:

As described in Section III.F. of FPL's 2022 Ten-Year Site Plan, FPL has deployed energy storage pilot projects under two distinct pilot programs to date: 1) Small Scale Storage Pilot Projects; and 2) Large Scale (50 MW) Storage Pilot Project. The objectives of the two pilot projects are to identify the most promising applications for batteries on FPL's system and to gain experience with battery installation and operation.

Small Scale Storage Pilot Projects:

In 2016 and early 2017, FPL installed approximately 4 MW of battery storage systems, spread across six sites, with the general objective of demonstrating the operational capabilities of batteries and learning how to integrate them into FPL's system. These small storage projects were designed with a distinct set of high-priority battery storage grid applications in mind. These applications include: peak shaving; frequency response; and backup power. In addition, these initial projects were designed to provide FPL with an opportunity to determine how to best integrate storage into FPL's operational software systems and how best to dispatch and/or control the storage systems.

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To this end, FPL installed multiple projects that have been in service for more than 3 years and have yielded valuable information regarding the applications listed above. These projects include: (i) a 1.5 MW battery in Miami-Dade County using second life automotive batteries for peak shaving and frequency response found that high in-house integration costs coupled with low remaining capacity in second life batteries do not support economic viability, (ii) a 1.5 MW battery in Monroe County for backup power and voltage support showcased the complexity of working with customer's equipment, (iii) a relocatable 0.75 MW uninterruptible power supply ("UPS") battery at Trividia Health, Inc. in Broward County provides consistent support to mitigate customer's momentary disruptions and reliability issues, but relocation is costly and requires high technical expertise, and (iv) smaller kilowatt-scale systems in several communities for distributed storage reliability applications successfully provide reliability support for residential customers during grid events, but FPL found front-of-the-meter deployment is more expensive than behind-the-meter installations. FPL plans to decommission the 1.5 MW battery in Monroe County, the 0.75 MW UPS, and the small kilo-watt scale systems in several communities by the end of 2022.

Large Scale (50 MW) Storage Pilot Project:

The small-scale battery storage pilot projects described above are complemented by up to 50 MW of additional battery projects. These pilot projects were authorized under the Settlement Agreement in FPL's 2016 base rate case. The 50 MW of batteries that have been, and will continue to be, deployed in this larger pilot project have expanded the number of storage applications and configurations that FPL will be able to test, as well as making the scale of deployment more meaningful, given the large size of FPL's system.

The first two storage projects under this pilot, placed in-service in the first Quarter of 2018, involve pairing battery storage with existing universal PV facilities. One of the projects is a 4 MW battery sited at FPL's Citrus Solar Energy Center. This project captures clipped (curtailed) solar energy from the solar panels during high solar insolation hours, then releases this energy in other hours. The second of these two projects is a 10 MW battery at FPL's Babcock Ranch Solar Energy Center. This project is designed to shift PV output from non-peak times to peak times and to provide "smoothing" of solar output and regulation services. These two projects are designed to enhance the operations of existing solar facilities that were installed in 2016. The data and lessons gathered from these two projects enable more optimized design configurations for solar-paired battery projects as well as improved operational parameters for economic dispatch. In 2021, FPL added an additional 1 MW to the existing Babcock Ranch Battery to test the design and performance of various battery augmentation solutions to mitigate degradation.

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In the fourth quarter of 2019, a 10 MW battery in Wynwood, a dense urban area close to downtown Miami, went into service. The project is designed to examine the use of batteries to support the distribution system with a focus on addressing grid, system, and customer challenges. Key learnings relate to the challenges of installing a battery in a dense urban area, including the decision to install in a building to allow for increased energy density, and integration into the distribution control system to allow for seamless integration into the Automated Feeder Switching system.

Two additional projects placed in-service in the third quarter of 2020 are designed to enhance reliability for FPL customers and the grid. One is an 11.5 MW battery that will augment the new Dania Beach Clean Energy Center Unit 7 now under construction. This battery will provide FPL an opportunity to test using battery storage to black start large generating units. The other located at Florida International University is a 3 MW battery alongside an existing solar PV system to create a microgrid. The microgrid will be used for local resiliency and to provide additional grid services, including mitigation of disruptions potentially caused by solar in the distribution system. The projects have thus far yielded valuable learnings about interconnection approach and properly sizing the battery to account for the inrush current needed to energize the load for these applications.

The last three projects explore battery storage opportunities associated with electric vehicles

("EVs") and EV infrastructure. The first explores the potential for utilizing EVs as grid resources on FPL's system for the first time ever; the 1.25 MW of Electric-Vehicle-to-Grid ("EV2G") batteries using electric school buses will be able to discharge electricity to the grid when needed. The first buses were delivered in the third quarter of 2020 and first quarter of 2021; the remaining three buses are delayed due to supply chain constraints. The second EV plus storage pilot adds 0.35 MW of battery storage to two FPL EVolution pilot sites in Columbia County and Nassau County (0.7 MW total) to provide grid benefits in the form of peak shaving and a reduction in distribution upgrades. The third and final pilot project, the "FPL EVolution Hub", has two parts: (i) 7.25 MW of storage paired with 5 MW solar PV to create a renewable microgrid, and (ii) two trailers each fitted with 0.65 MW (total 1.3 MW) of storage and 6 EV (12 total) fast chargers. The microgrid will be used to charge the trailers that will be deployed throughout FPL territory during grid events to increase resiliency for EV charging. The microgrid will also be used to provide electricity to a nearby administrative building, warehouse, and several biodiesel tanks when not being used to charge the battery trailers. These final pilot projects are in construction and expected inservice in 2022.

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In addition to the battery pilot programs above, in 2020, FPL expanded the Living Lab to include residential sites around Palm Beach County to test battery storage in a residential setting. The test addresses both potential benefits of having a 5-to-8 kW storage system for home backup power and the ability of FPL to remotely control the storage systems to provide services to the electric grid. FPL plans to continue to expand the Living Lab as new technologies come to market, including plans to test solar PV paired with battery storage in a residential setting in 2021.

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QUESTION:

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.

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.

RESPONSE:

FPL does attribute a percentage of the nameplate rating of each of its solar facilities as firm Summer and Winter capacity in its resource planning work, without the addition of energy storage technologies.

In addition, FPL is attributing firm capacity value to battery storage facilities that are planned to be in service by the end of 2031. The firm capacity attributed to battery storage facilities is dependent upon the duration of the battery as well as the amount of battery storage already on the system. As more battery storage is added to the system, the shape of the system peak after batteries are used "flattens," and therefore incremental batteries will require additional duration to receive 100% firm capacity value. If the incremental batteries' duration is not increased, those incremental batteries will have declining firm capacity value.

For FPL's planning purposes, all incremental batteries are assumed to have a 4-hour duration. Therefore, incremental batteries added later will have lower firm capacity values in the Summer, as shown in Schedule 8 and Schedule 9 of the FPL's 2022 Ten-Year Site Plan. The firm capacity assigned to each battery is accounted for in FPL's reserve margin and Loss of Load Probability ("LOLP") analyses. This firm capacity is projected to last through the duration of the life of the battery.

FPL has built several energy storage pilot projects on the system that are currently operational. The operational lessons learned from those projects have been integrated into FPL's Manatee Battery design. In addition to providing firm capacity, we continue to analyze customer benefits from the significant operational flexibility that batteries provide to the electrical grid.

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QUESTION:

Please identify and describe any programs the Company offers that allows its customers to contribute towards the funding of specific renewable projects, such as community solar programs.

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

RESPONSE:

FPL has two customer-focused solar programs – FPL SolarNow and SolarTogether. Future phases of the SolarTogether program may be evaluated for development and launch within the current planning period.

- (i) Voluntary Solar Pilot Program, named FPL SolarNow, launched in 2015;
- (ii) SolarTogether An FPL Shared Solar Program, which the FPSC approved on March 3, 2020 (Order PSC-2020-0084-S-EI). Please see Section III.F. of FPL's 2022 Ten-Year Site Plan for a detailed description of the programs.

Also, please see FPL's response to Staff's First Data Request No. 51.

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QUESTION:

Please identify and discuss the Company's role in the research and development of utility power technologies. As part of this response, please describe any plans to implement the results of research and development into the Company's system portfolio and discuss how any anticipated benefits will affect your customers.

RESPONSE:

FPL understands the term "utility power technologies" to broadly mean the hardware, software, and communication technologies that either directly form part of generation and transmission systems or are used to operate them.

FPL stays abreast of developments in those technologies in a variety of ways, including:

- Monitoring industry publications and journals, as well as news in the sector;
- Participating in industry trade groups and conferences;
- Communicating regularly with vendors on new offerings or system needs; and
- Where appropriate, testing out equipment on a limited basis to determine its capabilities and risks.

Pilot projects represent one of the ways to test out equipment under real operating conditions, while only committing limited resources to a particular technology path. As described in Section III.F. of FPL's 2022 Ten-Year Site Plan, several generation-related pilot programs have been implemented over the years to learn about various technologies and potential program structures, including the Living Lab, the Voluntary Solar Pilot Program, the Commercial & Industrial Solar Partnership Program, the Small Scale Storage Pilot Projects, and the Large Scale (50 MW) Storage Pilot.

As part of the recently approved 2021 Rate Case Settlement, FPL received approval to proceed with a green hydrogen electrolysis pilot project currently being developed at FPL's Okeechobee combined cycle unit. This pilot will allow FPL to assess how the combustion turbine units in a combined cycle operate with a hydrogen and natural gas fuel mix and will also provide insight into how a hydrogen fuel production and storage facility can be effectively used on site with combustion turbine units. If successful, the pilot project is expected to guide the way for future use of green hydrogen in a larger way as a fuel in combined cycle units thus lowering or eliminating CO₂ emissions from combined cycle unit operations in the future.

Once a technology reaches the point of being commercially viable and potentially economic for customers, FPL will consider it in its resource planning activities.

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QUESTION:

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

<u>RESPONSE</u>:

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QUESTION:

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

RESPONSE:

Please see the attached responsive document.

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QUESTION:

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

<u>RESPONSE</u>:

FPL is interpreting this question to refer to planned generation units that have not yet begun construction. New generation units presented in the FPL 2022 Ten-Year Site Plan that are not yet under construction include the 2023 through 2031 PV additions and the unsited energy storage additions in 2027 through 2031. Please see responsive document provided for the timelines for these generation additions. These timelines are applicable for the unit additions in both FPL's Recommended resource plan and FPL's Business as Usual resource plan. FPL currently has no future specific date or milestone that would constitute a "drop dead" date related to a decision to proceed with construction of these projects.

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QUESTION:

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

RESPONSE:

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QUESTION:

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

RESPONSE:

In regard to new non-nuclear units presented in the 2022 Ten-Year Site Plan, the estimated economic life is generally assumed to be 35 years for PV facilities, 20 years for battery storage, 50 years for new combined cycle, and 40 years for CT facilities. These assumptions were used in the economic analyses that were performed that led to the 2022 Ten-Year Site Plan filing. For new nuclear units, FPL assumes a minimum operating life of 40 years and a more realistic 60-year operating life.

For FPL's existing nuclear units, the current dates for the end of the operating licenses for each unit are: July 19, 2032 for Turkey Point 3; April 10, 2033 for Turkey Point 4; March 1, 2036 for St. Lucie 1; and April 6, 2043 for St. Lucie 2. As discussed in the 2022 Ten-Year Site Plan, the Nuclear Regulatory Commission (NRC) reversed a previous decision in FPL's Turkey Point subsequent license renewal (SLR), case and concluded that its generic environmental impact statement (EIS) for license renewal does not apply to SLR applications. While the NRC left Turkey Point's renewed operating licenses in effect, it directed the NRC staff to amend those licenses by removing the 20-year term of licensed operation added by the SLR, thereby restoring the previous operating license expiration dates of 2032 and 2033 for Turkey Point Units Nos. 3 & 4, respectively. FPL is evaluating the NRC's decisions to determine the next steps in the license renewal process for these units. For purposes of the 2022 Ten-Year Site Plan, FPL's resource planning analyses have assumed the continued operation of Turkey Point Units 3 & 4 through the new license termination dates of 2052 and 2053, respectively.

FPL does not have specific firm retirement dates for all its units. FPL has an estimated retirement dates for the following units:

•	Daniel 1 and 2	First quarter 2024
•	Gulf Clean Energy Center 4	Fourth quarter 2024
٠	Gulf Clean Energy Center 5	Fourth quarter 2026
•	Lansing Smith A	Fourth quarter 2027
•	Pea Ridge 1, 2 and 3	Fourth quarter 2024
•	Perdido 1 and 2	Fourth quarter 2029
•	Scherer 3	Fourth quarter 2028

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QUESTION:

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

RESPONSE:

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QUESTION:

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

RESPONSE:

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QUESTION:

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

RESPONSE:

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QUESTION:

Please explain if the Company assumes carbon dioxide (CO₂) compliance costs in the resource planning process used to generate the resource plan presented in the Company's current planning period TYSP. If the response is affirmative, answer the following questions:

- a. Please identify the year during the current planning period in which CO₂ compliance costs are first assumed to have a non-zero value.
- b. Please explain if the exclusion of CO₂ compliance costs would result in a different resource plan than that presented in the Company's current planning period TYSP.
- c. Please provide a revised resource plan assuming no CO₂ compliance costs.

RESPONSE:

Yes. Projected CO_2 compliance costs were utilized in the analyses that led to the resource plan presented in the 2022 FPL Ten-Year Site Plan. FPL believes utilizing CO_2 compliance costs is the correct method of analyzing future resource options.

- a. The first year in which there is a projected non-zero compliance cost value is 2026.
- b. If projected CO₂ compliance costs had been excluded from the analyses that led to the resource plans presented in the 2022 FPL Ten Year Site Plan, then the resource plans would be different.
- c. Please see the attached responsive document for resource plan sensitivities for both the Recommended and Business as Usual plan without CO₂ compliance costs.

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QUESTION:

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.

RESPONSE:

FPL operates its Electric Generating Units in compliance with all applicable federal, state, and local regulations that limit impacts to air and water quality. Compliance with permit requirements requires FPL to monitor, and operate, facilities within specific allowable limits at all times. Environmental restrictions relating to air or water quality and emissions from facility operations are incorporated within those permits, and operating procedures are implemented at FPL's facilities to ensure compliance. Regulatory changes, which impose environmental restrictions, are ultimately incorporated within the operating permits as changes to existing limits or new requirements. Compliance with existing permits and new requirements is continuous, on a unit and fleet-wide basis. Changes to operations of facilities to comply with existing and new requirements are included in both existing and planned operating costs and are reflected as unit generating performance impacts that are used for unit dispatch and production costing modeling. Impacts to operation of facilities include, but are not limited to, the installation of new pollution controls (which may impact unit efficiency, and generation output), purchase of emission allowances, changes to fuels that can be combusted, restrictions on water use and discharge, minimizing impacts on protected species, and use of alternative products where applicable.

FPL has evaluated the impact of all existing regulations on the operation of its generating units and has developed compliance plans to limit, or avoid, impacts to generating unit operation. During the 2021 period, impacts from air and water environmental restrictions to generating units included the following environmental requirements: 1) use of natural gas during startup of FPL's oil/gas steam units when possible; 2) compliance with Cross State Air Pollution Rule ("CSAPR") through the use of emission allowances and the operation of the Selective Catalytic Reduction ("SCR") and Flue Gas Desulphurization ("FGD") on controlled units; 3) compliance with the Mercury and Air Toxics Standards ("MATS") rule and the Georgia Multi-Pollutant Rule requirements at Plant Scherer, and Plant Daniel through operation of sorbent injection/baghouse control for mercury and operation of SCR and FGD ("Scrubber"), and 4) operation of temporary heaters at Cape Canaveral plant, Lauderdale plant, and Fort Myers plant when needed to provide warm water for manatees in compliance with an agency-approved manatee protection plan. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 73 Page 2 of 6

During the 2022 through 2031 period, FPL is aware of several regulations which could potentially affect generating unit dispatch or retirement including: 1) the EPA rulemaking for replacing the Affordable Clean Energy ("ACE") rule; 2) EPA's review of the Coal Ash Rule; 3) the EPA promulgation of the Steam Effluent Limitation Guidelines rule; and 4) EPA's removal of the effectiveness stay of the Combustion Turbine National Emission Standard for Hazardous Air Pollutants ("NESHAP") for gas-fired CTs. Some of these rules have been challenged and are currently in litigation. The D.C. Circuit vacated the ACE rule and Clean Power Plan repeal in 2021, but future rulemakings under the Clean Air Act Section 111(d) are still uncertain.

On April 29, 2014, the U.S. Supreme Court reversed the DC Circuit Court of Appeals decision on CSAPR and remanded the rule back to the lower court. In accordance with the December 23, 2008 Court decision, CAIR remained in effect until a replacement rule was finalized by the EPA. On November 21, 2014, EPA issued a ministerial rule that aligns the dates in the CSAPR rule text with the revised court-ordered schedule, including 2015 Phase 1 implementation and 2017 Phase 2 implementation. In a separate ministerial action, EPA issued a NODA, as required by CSAPR, which aligns the final CSAPR default allowance allocation years with the revised court-ordered schedule implementing revisions to CSAPR and tolling the compliance deadlines by three years. The annual allowance programs for CSAPR Phase 1 implementation began January 1, 2015, with Phase 2 beginning January 1, 2017. To comply with the previous and current Transport Rules, FPL implemented several projects as the most cost effective compliance strategy, which included: 1) the 800 MW Cycling Project at the Manatee 1 & 2 units to improve the ability of the units to be economically dispatched to meet system demand and allow the removal of "must run" status; 2) installation of SCR and Scrubber on Plant Scherer Unit 3 and Unit 4 (also required by the Georgia Multi-pollutant rule); 3) Installation of pollution controls on Gulf Clean Energy Center (formerly Plant Crist) Units 4,5,6 & 7; 4) Upgrades to transmission lines to allow for the early retirement of Plant Smith Units 1 & 2; 5) Installation of pollution controls on plant Daniel Units 1 & 2. FPL's construction of the West County Energy Center, Cape Canaveral Energy Center, Riviera Beach Energy Center, Port Everglades Energy Center, and the Okeechobee Clean Energy Center, and Dania Beach Energy Center and the upgrades of FPL's existing combined cycle fleet have reduced FPL system emissions. On November 16, 2015, EPA proposed the CSAPR - Update Rule to implement reductions that it deemed necessary to address the 2008 Ozone standard. In its evaluation of Florida's impacts on downwind ozone nonattainment and maintenance areas, EPA determined that Florida electric generating units no longer have a significant impact to air quality in those areas and has removed Florida from the CSAPR program in 2017. FPL's ownership share of Plant Scherer Unit 3 in the State of Georgia and Plant Daniel Units 1 & 2 however will remain affected under CSAPR for the annual and ozone season programs as applicable. FPL retired Scherer Unit 4 in 2021 removing it from the rule's applicability.

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FPL also has compliance obligations under the MATS rule at Plant Daniel and Plant Scherer. The rule finalizes the coal and oil-fired Maximum Achievable Control Technology ("MACT") standards that the EPA had proposed to reduce emissions of Hazardous Air Pollutants ("HAPs"). On April 15, 2014, the DC Circuit Court of Appeals upheld the final MATS rule denying petitioners challenges that EPA improperly promulgated the rule. FPL does not anticipate any adverse impacts to operation of its generating units to comply with the MATS rule at this time. Installation of ESPs on the Manatee Units 1 and 2 and Martin Units 1 and 2, along with all associated acceptance tests, were completed by February 2015. FPL's installation of controls at Plant Scherer on Units 3 & 4 for compliance with the Georgia Multi-Pollutant rule provided the necessary emission reductions that are needed for MATS compliance. Similarly, installation of controls on Gulf Clean Energy Center Units 4,5,6 & 7 and Plant Daniel Units 1 & 2 provided co-benefits removal of air toxics targeted by the rule. In addition to Continuous Mercury Emission Monitoring systems that have been installed for compliance with MATS at Plant Scherer, Gulf Clean Energy Center and Daniel, remaining affected units will require quarterly particulate matter emission tests instead of the previous annual requirement. As of April 16, 2016, Plant Scherer and Daniel coal-fired generating units were subject to the rule's emissions standards and are currently demonstrating compliance.

On August 21, 2018, the Affordable Clean Energy ("ACE") rule was proposed to replace the 2015 Clean Power Plan. The ACE rule applied only to coal fired electric generating units and does not include gas fired combustion units. FPL is currently following EPA discussions regarding changes that will be needed to comply with the DC Circuit's vacatur and remand of the ACE rule following its January 19, 2021 decision on that rule. Following its decision to regulate GHG's from new fossil-fuel fired power plants under EPAs new source performance standards, EPA is obligated to promulgate GHG standards for existing fossil-fuel fired generating units. Under the Clean Air Act EPA is required to promulgate a rule which requires sources to implement the best system of emission reduction ("BSER"). FPL anticipates that the majority of its coal units that were subject to the ACE rule will be retired prior to implementation of the replacement rule.

The final 316(b) rule for Cooling Water Intake Structures at Existing Facilities (316(b) Rule) was published August 15, 2014 and became effective October 14, 2014. The final 316(b) Rule requires each affected facility to develop comprehensive studies and compliance plans to determine the appropriate compliance measures to achieve the Best Technology Available ("BTA") to minimize adverse environmental impacts and meet entrainment and impingement mortality reduction requirements. The timeline to complete these studies and plans, along with ultimate agency review and approvals, is being completed during each facility's next 5-year permit cycle following the Rule's effective date. Thus, all studies for FPL plants will be completed and submitted by the end of 2023. Until these studies and compliance options are

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finalized and reviewed, it is not possible to determine what the exact compliance controls and costs will be for each power plant affected by the rule. Generally, the implementation of the 316(b) Rule must consider the site-specific characteristics of each generating facility, the water body types that supply the intake structure, and the types of aquatic organisms in the vicinity.

The final 316(b) Rule states that a variety of technological and operational measures, including cooling towers, may qualify as BTA to reduce the adverse environmental impacts of cooling water intake structures. Although the addition of cooling towers could be considered as BTA at some facilities, they may not be feasible at many locations, spatial limitations, and disproportionate costs versus benefits; therefore, cooling towers were not declared BTA by EPA for all facilities. FPL operates eleven (11) power plants in Florida to which the 316(b) Rule is applicable. Six (6) plants utilize once-through cooling water systems, four (4) utilize closedcycle recirculating systems (i.e., cooling towers or cooling ponds) and Gulf Clean Energy Center utilizes both. For the seven plants utilizing once through cooling water systems, the 316(b) Rule will require comprehensive studies to determine the appropriate BTA to meet the 316(b) Rule requirements. If any of the seven units is required to meet the BTA requirements by installing cooling towers, the cost would be very high, up to hundreds of millions of dollars per site. However, based on FPL's review of the 316(b) Rule and data that has been collected, we anticipate that most FPL facilities will not be required to retrofit their cooling systems with cooling towers and will be able to meet the determinations of BTA by installing alternative controls. These alternative controls would likely include modified traveling screens with fish return systems to meet the impingement mortality reduction standard.

For the plants utilizing closed-cycle cooling, FPL does not anticipate that additional technologies or operational changes to minimize impingement mortality or entrainment will be required. Some studies are required for these facilities, but they are relatively inexpensive, and any capital improvements required at these facilities would be minimal. FPL is also a co-owner of Scherer Units 3 & 4 and Plant Daniel Units 1 & 2. Both facilities use cooling towers to reduce the impacts of impingement mortality and entrainment mortality as required under the 316(b) Rule. Here, just as with the FPL operated plants that utilize closed-cycle cooling, we anticipate the impacts to be relatively small.

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EPA published the final Coal Combustion Residuals ("CCR") rule on April 17, 2015. This rule regulates the disposal of combustion byproducts. The WIIN Act that passed in 2016 provided for approval of State CCR regulatory programs. USEPA then issued revised regulations during the 2018 - 2020 timeframe which ultimately extended the deadline to initiate closure of certain CCR units to April 11, 2021. FPL's CCR units at Gulf Clean Energy Center, Daniel, and Scherer are affected by this rule and now have disposal and closure requirement(s) for bottom ash, fly ash, and gypsum, while FPL's Indiantown Cogeneration coal-fired unit was not affected by the rule. FPL and the co-owners of its coal-fired generating units affected by this rule are conducting the required engineering evaluations, inspections, and monitoring and have developed closure plans as required. FPL does not anticipate any adverse impacts to operation of its generating units to comply with the CCR rule at this time. The 2020 Steam Electric Effluent Limitation Guidelines ("ELG") reconsideration rule was promulgated and became effective on December 14, 2020. Title 40 Code of Federal Regulations Part 423, which was promulgated under the authority of the Federal Clean Water Act, limits the discharge of pollutants into navigable waters and into publicly owned treatment works by existing and new sources of steam electric power plants. The ELG rule, while it is applicable to all facilities that utilize steam for electrical generation (*i.e.*, have a steam turbine) regardless of fuel type, mainly focuses on wastewater generated by coal-fired power plants. The ELG Rule sets limits on the amount of metals and other harmful pollutants that steam electric power plants are allowed to discharge in several of their more significant sources of wastewater.

The ELG rule is applicable to FPL owned or partially owned steam generation facilities. It is not applicable to any of the combustion turbine-only powered facilities. The 2020 rule update has virtually no impact on the steam generation facilities which are fueled by natural gas/light oil or nuclear. Manatee Plant Units 1 and 2 can burn heavy (#6) oil and are subject to the rule for combustion of #6 oil. FPL's Martin Plant Units 1 and 2 were retired in late 2018 and removed from applicability of the ELG rule.

The 2020 ELG Rule updates are applicable to Plant Scherer Units 3 & 4. The 2020 ELG rule requires compliance to occur as soon as possible on or before December 31, 2025, or December 31, 2028 if the Voluntary Incentives Program is selected. Plant Scherer Units 3 & 4 will comply with the ELG rule by permanently ceasing coal combustion by December 31, 2028. FPL has permanently retired Scherer Unit 4 in January 2022 and has announced retirement of Scherer Unit 3 by the end of 2028. EPA is expected to propose a revised ELG rule in the fall of 2022 to determine whether more stringent ELGs are appropriate for FGD scrubber wastewater and bottom ash transport water. Permitting authorities are expected to continue to implement the 2020 ELG Reconsideration Rule while the EPA undertakes a new rulemaking. EPA is also expected to propose revised ELGs for legacy wastewater and combustion residual leachate by September 2022.

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On March 9, 2022 the EPA published a final rule lifting the stay of effectiveness of formaldehyde emission standards for new gas-fired combustion turbines commencing construction after January 14, 2003 at major sources of Hazardous Air Pollutants (HAPs). Currently, FPL has combustion turbines at Lauderdale, Fort Myers, Martin, Turkey Point, and West County that are subject to this rule. FPL had performed limited testing in 2019 to develop formaldehyde emission factors for each CT model operated which was successful in allowing FPL to re-permit several sites from HAP major to area source category based on revised maximum potential formaldehyde emissions. FPL's CTs at the area source category sites are not subject to the standard for formaldehyde. For CTs subject to the standard, FPL must submit a Monitoring Plan and then test each affected CT to demonstrate compliance with the standard at base load and provide assurance the CT's will meet the standard at low load as well. Until EPA approval of the monitoring plan and subsequent testing of its affected CTs demonstrate compliance with the standard, FPL does not know whether the emission standards of the rule would impact low load operation of those CTs.

The several environmental regulations which FPL anticipates becoming final in the 2022 through 2031 period include: 1) Revisions to Greenhouse Gas Performance Standards for Combustion Turbine Electric Generating Units; 2) Greenhouse Gas Performance Standards for Existing Sources in response to the DC Circuit's remand of the Affordable Clean Energy rule; 3) Regional Haze Reasonable Further Progress requirements for visibility improvement; 4) SIP revisions for Startup/Shutdown/Malfunction ("SSM") excess emissions; and 5) new and future revisions to the National Ambient Air Quality Standard ("NAAQS") for the criteria pollutants. While FPL does not yet know what requirements would be included in each final rule, it has made a preliminary determination using publicly available information that the anticipated compliance requirements for FPL would not impact any of the company's generating unit capability or reliability to meet projected system demand. However, the impact of the Greenhouse Gas Performance Standards for Existing Sources on the operation and dispatch of FPL's fossil fuel fired electric generating units is uncertain until a final rule is published.

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QUESTION:

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?
- b. What compliance strategy does the Company anticipate employing for the rule?
- c. If the strategy has not been completed, what is the Company's timeline for completing the compliance strategy?
- d. Will there be any regulatory approvals needed for implementing this compliance strategy? How will this affect the timeline?
- 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.
- f. If the answer to any of the above questions is not available, please explain why.

RESPONSE:

a. In October 2015, the EPA's final rule for New Source Performance Standards ("NSPS") governing carbon dioxide ("CO₂") emissions from new fossil fuel-fired electric generating units became effective. This rule will have no impact on FPL facilities since (i) FPL's new combined-cycle gas facilities routinely have GHG emission rates below the NSPS limits, (ii) FPL's new simple-cycle gas-fired peakers will meet the NSPS limits for non-baseload generating units by using designated clean fuels, (iii) FPL's solar generating facilities do not emit GHGs and are unaffected by the rule, and (iv) FPL has no current plans to build new coal-fired facilities. On April 5, 2021, the D.C. Circuit vacated and remanded the significant contribution finding rule issued in January 2021. FPL will follow EPA discussions for any changes for new units.

In regard to existing units, on June 19, 2019, the Affordable Clean Energy ("ACE") rule was issued to replace the 2015 Clean Power Plan. The ACE rule applied only to coal fired electric generating units and did not include gas fired combustion units. On January 19, 2021, the DC Circuit Court vacated the ACE rule and remanded it to EPA to promulgate a replacement rule that addresses the flaws outlined in the decision. The Court's decision also vacated the amendments to the implementing regulations that extended the compliance timeline, finding

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that "the ACE Rule's amendment of the regulatory framework to slow the process for reduction of emissions is arbitrary and capricious." On February 28, 2022, oral arguments were held before the Supreme Court in <u>West Virginia v. EPA</u> (Case No. 20-1530), which was initiated by questions about the scope of EPA's authority to regulate greenhouse gases from existing power plants. The Supreme Court is expected to issue a decision in summer 2022. EPA is expected to wait to publish a new proposal to regulate existing sources under 111(d) (42 U.S. Code § 7411) until after the Supreme Court issues its ruling. With the change in administration and EPA leadership, FPL expects that a replacement rule will be drafted later in 2022, with a final rule being promulgated in 2023. FPL expects that a revised rule will include more sources and provide more flexibility for achieving compliance. Until a draft rule is promulgated, FPL cannot know what compliance requirements will be, but FPL believes its existing combined cycle fleet would comply with any likely future requirements, and existing fossil steam units would likely not be affected during their remaining useful life.

b. - d. N/A

- e. Please see responsive document provided.
- f. FPL does not have sufficient information on the probability of any future proposed GHG NSPS which could cause adverse impacts to its generating fleet.

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QUESTION:

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.
- b. Cross-State Air Pollution Rule (CSAPR).
- c. Cooling Water Intake Structures (CWIS) Rule.
- d. Coal Combustion Residuals (CCR) Rule.
- e. Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units.
- f. Affordable Clean Energy Rule or its replacement.
- g. Effluent Limitations Guidelines and Standards (ELGS) from the Steam Electric Power Generating Point Source Category.

RESPONSE:

FPL does not anticipate any system reliability impacts associated with the compliance requirements of the MATS Rule, CSAPR Rule, CWIS Rule, CCR Rule, EPA's Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units, ACE Rule, or the ELGs, including generating unit reliability, transmission system constraints, and installation of controls on units not regulated by these rules, nor does FPL anticipate early retirement of units in response to these regulations. FPL evaluates the potential impacts to unit operation based on proposed and draft rule language that identifies compliance requirements for environmental regulations.

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- a. For compliance with the MATS rule, FPL installed ESPs on the Martin and Manatee oil-fired steam 800 MW units, Sorbent Injection, and baghouse on Scherer Unit 4, and used existing controls to comply with emission standards for the coal fired Indiantown Cogeneration facility. FPL retired the Cedar Bay coal fired generating unit in 2016 and has completed demolition of the unit. Additionally, SJRPP Units 1&2 and Martin Units 1&2 were retired in 2018, and Indiantown Cogeneration was retired in 2020, effectively removing them from the MATS compliance requirements at this time as these units have been decommissioned and demolished. In its 2021 Ten-Year Site Plan filing, FPL provided notice of its intent to retire Scherer Unit 4 which occurred on December 31, 2021. In its 2022 Ten-Year Site Plan filing, FPL is providing notice of its intent to retire Manatee Units 1 & 2 by early 2024 and retire Scherer Unit 3 in 2028. In 2020, FPL pursued the modernization of Gulf Clean Energy Center (formerly Crist) Units 6&7 and in 2020 retired coal combustion capability for Units 4-7. FPL has not identified any potential impacts to the reliability or capability of its units, or transmission system, as a result of the MATS compliance plan.
- b. FPL's CSAPR compliance plan has not, and will not, impact generating unit or system reliability or capability. With EPA's promulgation of the CSAPR update rule, the FPL Florida-based generating units are no longer subject to the rule requirements. FPL's ownership share of Scherer Units 3 and Daniel Units 1 and 2 will remain subject to the rule, but sufficient allowances to comply with the rule requirements are on hand or readily available. In addition, as mentioned previously FPL retired Scherer Unit 4 and announced plans to retire FPL's ownership portion of the Scherer 3 unit by 2028 and to retire FPL's ownership portion of the Daniels Units 1 & 2 in January 2024. However, should future actual conditions vary significantly from projection assumptions, unit reliability impacts could occur though no transmission system impacts are projected to occur as a result.
- c. FPL has evaluated the requirements for the CWIS Rule and developed anticipated costs associated with the various compliance requirements. Impacts for the CWIS Rule, which became final on October 14, 2014, will vary based on the level of modifications required by conclusions based on subsequent studies and negotiations with Florida Department of Environmental Protection ("FDEP"), with possible input from the U.S. Fish and Wildlife Service, National Marine Fisheries Service (Services), and EPA. Should, as is currently expected, modified Ristroph-type traveling screens and fish return systems, along with the possibility of fine mesh screens, be required for most facilities (those without cooling ponds or cooling towers), the impacts of systems installed during scheduled maintenance outages are expected to be minimal. FPL has identified no system reliability impacts that would be anticipated to occur as a result of the expected rule requirements for CWIS.

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- d. For the CCR rule, FPL has evaluated anticipated compliance requirements based on EPA and industry comments for the April 17, 2015 final rule. The rule did continue the regulation of CCRs as non-hazardous waste. However, the CCR rule established new location restrictions, disposal unit design standards, and numerous compliance plans, inspections, and certifications phased in over three years applicable to FPL's co-owned coal units. As a result of the new location and groundwater standards, Gulf Power, FPL, and their co-owners initiated preparations in 2018 for closure of the Scherer unlined Surface Impoundment (ash pond) and construction of a new landfill meeting the new design standards. FPL and its co-owners will initiate closure of the SJRPP landfill following removal of all CCR from impacted components during demolition, which began in the summer of 2019. The Indiantown Cogeneration facility, which was retired in 2020, managed CCR offsite and is therefore not subject to the rule. FPL is currently in the process of closing the ash ponds at Smith and Scholz and closure of FPL's co-owned ash pond at Daniel began in the fall of 2020. Actions for compliance with these changes in the regulatory standards for management of CCRs for FPL's co-owned coal units and Gulf Power's units are not anticipated to create impacts to the reliability of any generating unit or FPL's system.
- e. FPL's Port Everglades Energy Center ("PEEC") received an air construction permit from DEP for the PSD pollutants and EPA for GHGs. EPA established a BACT limit for the PEEC facility at 830 lb. CO₂ equivalent/MWh (net), while EPA's GHG limit performance standard for new gas fired units is 1000 lb./MWh (gross). Following the United States Supreme Court's decision on EPA's Tailoring rule, FPL submitted a request to rescind the GHG permit as not legally required since the Unit 5 netted emissions did not require a PSD permit. Subsequently, FPL submitted and received final Air Construction Permits for the construction of the Okeechobee Energy Center and Dania Beach Energy Center combined cycle units, which contain GHG limits of 850 lb. CO₂ equivalent/MWh (net) that FPL will be able to comply with during normal operation of the units in addition to the EPA 1000 lb./MWh federal limit. Accordingly, FPL does not anticipate any unit reliability impacts or system transmission impacts associated with the GHG rule. In addition, FPL also does not anticipate any additional capital or O&M expenditures will be needed to comply with the GHG performance standard for future units.

Gulf Power submitted and received final Air Construction permits for the construction of the Gulf Clean Energy Center four simple cycle combustion turbines. The permits contain GHG limits that Gulf Power will be able to comply with during normal operation of the units. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 75 Page 4 of 4

- f. On January 19, 2021, the D.C. Circuit vacated the Affordable Clean Energy ("ACE") rule and Clean Power Plan Repeal rule. The D.C. Circuit has also granted EPA's Motion to prevent the Clean Power Plan from taking effect. FPL is currently following EPA discussions regarding changes. Following its decision to regulate GHG's from new fossilfuel fired power plants under EPAs new source performance standards, EPA is obligated to promulgate GHG standards for existing fossil-fuel fired generating units. Under the Clean Air Act EPA is required to promulgate a rule which requires sources to implement the best system of emission reduction ("BSER"). FPL anticipates that the majority of its coal units that were subject to the ACE rule will be retired prior to implementation of the replacement rule.
- g. For compliance with the ELGS, Scherer Unit 3 has already installed dry ash handling systems for fly ash and bottom ash, so no further action is required. Eventually a treatment system for the discharge of FGD (scrubber) wastewater from Scherer Unit 3, which is partially owned by FPL, is expected. However, in the 2022 Ten-Year Site Plan, FPL announces its intent to retire its partial ownership of Scherer Unit 3 by 2028, so there will be no impact to FPL system reliability or capability. FPL does not anticipate the need to install additional controls for ELG compliance at Gulf Clean Energy Center due to the conversion of the units to gas prior to the ELG compliance deadline for bottom ash transport water. FPL has not projected ELG compliance costs for its ownership portion of Daniel because the Daniel bottom ash conversion projects needed for ELG compliance were installed in 2020 for compliance with the CCR rule. Neither of these modifications will impact generating unit or system reliability or capability.

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QUESTION:

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.

RESPONSE:

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QUESTION:

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.

RESPONSE:

Please see responsive confidential document provided.

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QUESTION:

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.

RESPONSE:

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QUESTION:

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.

<u>RESPONSE</u>:

- Compliance plans implemented for Clean Air Interstate Rule (CAIR) and approved for recovery are sufficient to meet Cross-State Air Pollution Rule (CSAPR) requirements. FPL believes their previous CAIR, and Clean Air Mercury Rules (CAMR) & Mercury and Air Toxics Standards (MATS) projects, and present CSAPR compliance plan, will meet the current SO₂, NO₂, fine particle, and ozone National Ambient Air Quality Standards (NAAQS) requirements.
- Installation of Sorbent Injection / Baghouse, Selective Catalytic Reduction (SCR), and Scrubber on Scherer Units 3 & 4 for compliance with the Georgia Multi-Pollutant Rule mitigated most of the potential costs for compliance with MATS and with requirements associated with both the Clean Air Interstate Rule and the Cross State Air Pollution Rule. Similarly, installation of SNCR, SCR, and Scrubber on the Gulf Clean Energy Center (formerly Crist) Units 4 7 for compliance with CAIR and CSAPR provided co-benefit removal of mercury and other air toxics for compliance with MATS requirements. In 2020, FPL eliminated coal combustion at the Gulf Clean Energy Center reducing emissions and removing those units from applicability to MATS compliance requirements while reducing its CO₂ emission rate by approximately half. Finally, installation of SCR and Scrubbers on Plant Daniel Units 1 & 2 for compliance with CAIR and CSAPR compliance also provided co-benefit removal of mercury, and with the addition of bromine and activated carbon injection compliance with MATS requirements was achieved.
- Modified traveling screens with fish return systems have been installed as part of the modernizations of Cape Canaveral Energy Center, Riviera Beach Energy Center, and Port Everglades Energy Center to avoid retrofit costs that would be required to comply with the Cooling Water Intake Structure (CWIS) Rule (Section 316(b) of the Clean Water Act) in the future.

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- The use of the approved Underground Injection Control (UIC) systems for the scrubber project at the Gulf Clean Energy Center and the reclaimed water project at Plant Smith will help reduce costs for future regulations such as Coal Combustion Residual Rule (CCR).
- The closure in-place of coal combustion residual related ash ponds will mitigate the potential for the future construction of costly ash landfill handling and disposal systems to receive the existing CCR.
- Scherer has installed dry fly ash and bottom ash handling systems that will ensure compliance with the portion of the ELG Rule that addresses the handling of fly ash and bottom ash transport water as transport water is no longer required. Additional wastewater treatment is expected to be required for the Scherer flue gas desulfurization (scrubber) in the future. FPL does not anticipate the need to install additional controls for effluent limitations guidelines (ELG) compliance at the Gulf Clean Energy Center due to ceasing coal-fired operations. FPL has not projected ELG compliance costs for its ownership portion of Daniel because the Daniel bottom ash conversion projects needed for ELG compliance were installed in 2020 for compliance with the CCR rule.
- Installation of PV solar projects and a solar thermal project at Martin Plant totaling more than 1000 MW capacity help lower FPL's fleet-wide greenhouse gas (GHG) emissions further reducing exposure to future GHG rules. FPL has initiated a robust plan to install 30 million solar panels by 2030. These projects will further reduce FPL's fleet-wide GHG emissions. In addition, FPL's current and planned expansion of the implementation of battery storage projects allows the storage of renewable generation to displace higher emitting peaking generation during system peak demand periods. Development of renewable energy and storage systems along with FPL's conversion of the Gulf Clean Energy Center to natural gas operation and the planned retirement of the majority of its coal generating units has significantly reduced FPL's exposure to existing and future environmental regulations.
- Establishing Combustion Turbine (CT) model specific emission factors for formaldehyde emissions allowed FPL to report emissions more accurately from its combustion turbines demonstrating that several of its sites are no longer major sources of Hazardous Air Pollutants (HAPs). FPL re-permitted several sites as area sources of HAPs which removed those turbines from applicability of the CT Gas-Fired HAP rule and avoiding annual emission testing for formaldehyde at those plants.

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Many of FPL's approved costs for environmental compliance investments can be found in the filings made in the FPL's annual Environmental Cost Recovery Clause docket with the Florida Public Service Commission.

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QUESTION:

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

<u>RESPONSE</u>:

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QUESTION:

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

RESPONSE:

The medium fossil fuel price forecast methodology for both FPL and Gulf utilizes projections from The PIRA Energy Group (now known as S&P Global), rates of escalation from the U.S. Energy Information Administration (EIA), forward commodity price curves for fuel oil and natural gas, and coal projections from JD Energy, Inc. S&P Global, a world-recognized consulting firm with expertise in all aspects of the fuel oil and natural gas industry, supplies FPL with an extensive database to support its short and long-term projections of future fuel oil and natural gas prices. FPL utilizes forward commodity price curves for fuel oil and natural gas to project the short-term forecast (current year, current year plus 1, and current year plus 2), creates a blend of forward curves and S&P Global curves for the medium term (current year plus 3 and current year plus 4), and finally, applies escalation rates provided by the EIA to the long-term fuel oil and natural gas projections provided by S&P Global. JD Energy, a consulting firm retained by many utilities and coal suppliers, has expertise in all aspects of the coal and petroleum coke industry. The firm supplies FPL with an extensive database to support its short and long-term projections of future coal prices. FPL's forecasts reflect these authoritative and independent sources. Consequently, FPL believes the Company's projections are reasonable, and comparisons to other forecasts are not necessary.

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QUESTION:

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

- a. Coal
- b. Natural Gas
- c. Nuclear
- d. Fuel Oil
- e. Other (please specify each, if any)

RESPONSE:

- a. With respect to rail transportation issues during the period of 2022 through 2031, the rail lines are encountering challenges adding the crews necessary to deliver coal to the plants. This causes challenges for the plants related to maintaining inventories and operating the units economically. The increase in demand for rail service results from rising natural gas prices, which have increased demand for coal-based generation, and will likely persist into 2023. The railroads appear to have more than adequate locomotive power. FPL has a sufficient number of coal cars under long-term lease to haul the projected coal requirements expected during the planning period.
- b. In the Annual Energy Outlook 2022 (AEO 2022), the Energy Information Administration (EIA) has published its outlook for natural gas trends out to 2050. FPL references some of their observations here.

EIA projects that consumption of natural gas will grow over their forecast period. The growth is driven by expectations that natural gas prices will remain low compared with historical levels. In the Reference case, the industrial sector has the largest share of natural gas consumption, starting in the early 2020s, driven by greater use of natural gas as a feedstock in the chemical industries and by increased heat-and-power consumption across multiple industries.

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Natural gas consumption for space heating, which is the largest single contributor to both U.S. commercial and residential delivered energy consumption throughout the Reference case projection period, declines through 2050. EIA projects that buildings will consume less energy for space heating as the United States experiences warmer winters and as the population increasingly migrates to warmer parts of the country, reducing the heating degree days used to project space heating requirements

The share of natural gas in the electricity generation mix remains relatively constant, at about one-third from 2021 to 2050. Although the share remains the same, projected natural gas prices stay below \$4.00 per million British thermal units (MMBtu) for most of the projection period. The natural gas share remains consistent despite significant projected coal and nuclear generating unit retirements, which cause the shares from those sources to drop by half. Generation from renewable sources increases to offset the natural gas share, largely because regulatory programs and market factors incentivize these sources.

During the projection period, natural gas production grows by almost 24%, approximately twice as fast as consumption. Much of this growth in natural gas production is exported as liquefied natural gas (LNG). By 2050, the EIA projects that approximately 25% more natural gas will be produced than consumed in the United States.

In the Reference case, U.S. natural gas production increases through 2050, and more than 35% of gross additions are exported. Projected U.S. natural gas exports rise through 2050, primarily driven by increased LNG capacity and growing global natural gas consumption. Increases in pipeline exports to Mexico and Canada also contribute to the increase in U.S. natural gas exports.

Shale gas and associated natural gas from tight oil plays are the primary contributors to the long-term growth of U.S. natural gas production through 2050. In the Reference case, more than half of the growth in natural gas production between 2020 and 2050 is associated natural gas from tight oil plays, primarily the Permian Basin. For shale gas production during this same period, the Marcellus and Utica shale gas plays in the Appalachia Basin (East region) and the Haynesville play in the Mississippi-Louisiana Salt Basins (Gulf Coast region) account for the majority of growth.

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- c. This section reviews the various steps needed to fabricate nuclear fuel for delivery to nuclear power plants, the method used to forecast the price for each step, and other comments regarding FPL's nuclear fuel cost forecast.
 - A) Steps Required for Nuclear Fuel to be delivered to FPL's Plants

Four separate steps are required before nuclear fuel can be used in a commercial nuclear power reactor. These steps are summarized below.

(1) Mining: Uranium is produced in many countries such as Canada, Australia, Kazakhstan, and the United States. During the first step, uranium is mined from the ground using techniques such as open pit mining, underground mining, in-situ leaching operations, or production as a by-product from other mining operations, such as gold, copper, or phosphate rocks. The product from this first step is the raw uranium delivered as an oxide, U3O8 (sometimes referred to as yellowcake).

(2) Conversion: During the second step, the U3O8 is chemically converted into UF6 which, when heated, changes into a gaseous state. This second step further removes any chemical impurities and serves as preparation for the third step, which requires uranium to be in a gaseous state.

(3) Enrichment: Natural uranium contains 0.711% of uranium at an atomic mass of 235 (U-235) and 99.289% of uranium at an atomic mass of 238 (U-238). FPL's nuclear reactors use uranium with a higher percentage of up to almost five percent (5%) of U-235 atoms. Because natural uranium does not contain a sufficient amount of U-235, the third step increases the percentage amount of U-235 from 0.711% to a level specified when designing the reactor core (typically in a range from approximately 2.0% to as high as 4.95%). The output of this enrichment process is enriched uranium in the form of UF6.

(4) Fabrication: During the last step, fuel fabrication, the enriched UF6 is changed to a UO2 powder, pressed into pellets, and fed into tubes, which are sealed and bundled together into fuel assemblies. These fuel assemblies are then delivered to the plant site for insertion in a reactor.

Like other utilities, FPL has purchased raw uranium and the other components of the nuclear fuel cycle separately from numerous suppliers from different countries.

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B) Price Forecasts for Each Step

(1) Mining: The impact of the earthquake and tsunami that struck the Fukushima nuclear complex in Japan in March 2011 is still being felt in the uranium market as the majority of the Japanese nuclear reactors are still not operating. As a result, current demand has remained declined and several of the production facilities have either closed or announced delays. Factors of importance are:

- Some of the uranium inventory from the U.S. Department of Energy (DOE) is finding its way into the market periodically to fund cleanup of certain Department of Energy facilities.
- Although only two new nuclear units are scheduled to start production in the U.S. during the next 5 to 10 years, other countries, more specifically China, have announced an increase in construction of new units which may cause uranium prices to trend up in the near future.

Over a 10-year horizon, FPL expects the market to be more consistent with market fundamentals. The supply picture remains stable, with laws enacted in 2020 to resolve the import of Russian-enriched uranium, by allowing continued imports of Russian enriched uranium to meet about 15-24% of needs from 2021-2040 for currently operating and new units. New and current uranium production facilities are decreasing capacity due to continued low prices and demands. Actual demand tends to grow over time because of the long lead time to build nuclear units. However, FPL cannot discount the possibility of future periodic sharp increases in prices but believes such occurrences will likely be temporary in nature. One such increase is the recent spike in prices resulting from the potential threat of sanctions against Russia due to the Ukraine invasion and associated demand to expand security of supply diversity, as well as some financial institutions purchasing large quantities of material. However, this spike is expected to return to levels more consistent with market fundamentals.

(2) Conversion: The conversion market is also in a state of flux due to the Fukushima events. Planned production after 2022 is currently forecasted to be insufficient to meet a higher demand scenario, but it is projected to be sufficient to meet most reference case scenarios. As with additional raw uranium production, supply will expand beyond the current level if more firm commitments are made. FPL expects long-term price stability for conversion services to support world demand. In addition, Converdyn, the only domestic conversion facility which was temporarily closed in 2017 due to low conversion demand, has announced it is reopening in 2023 as conversion prices have seen an up

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surge in the last couple of years. This will result in further stabilization of conversion prices. As a result of the potential of sanctions against Russia due to the Ukraine invasion and utilities seeking alternative backup supply for material, the near-term conversion pricing has spiked; however, it is expected to return to levels more consistent with market fundamentals.

(3) Enrichment: Following the Fukushima events in March 2011, the near-term price of enrichment services declined and plans for construction of several new facilities that were expected to come on-line after 2011 were delayed or did not come to fruition. Also, some of the existing high operating cost diffusion plants shut down, and further retirements of functional but older centrifuge capacity decreased supply adequacy. Ample but declining inventories combined with very low demand kept enrichment prices from rising too rapidly. As with supply for the other steps of the nuclear fuel cycle, expansion of future capacity is feasible within the lead time for constructing new nuclear units and any other projected increase in demand. Meanwhile, enrichment demand was already positioned to increase as replacement or extension of existing contracts in the industry were set to expire in the near term. However, concerns over security of supply and geopolitical risk from the potential of sanctions against Russia due to the Ukraine invasion has brought much of this demand forward given the recent spike in the market. As a result, the current supply/demand profile will likely result in the price of enrichment services to increase in the near term; however, pricing is expected to return to levels more consistent with market fundamentals.

(4) Fabrication: Because the nuclear fuel fabrication process is highly regulated by the Nuclear Regulatory Commission (NRC), not all production facilities can qualify as suppliers to nuclear reactors in the U.S. Although world supply and demand are expected to show significant excess capacity for the foreseeable future, the gap is not as wide for U.S. supply and demand. The supply for the U.S. market is expected to be sufficient to meet U.S. demand for the foreseeable future. Fabrication prices are not subject to market fluctuations since these are fixed, with escalation, for the life of the contracts.

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C) Other Comments Regarding FPL's Nuclear Fuel Cost Forecast

FPL's nuclear fuel price forecasts are the result of FPL's analysis based on inputs from various nuclear fuel market expert reports and studies. There is adequate projected supply, including planned and prospective mine expansions, to meet FPL demands, including operation of the Turkey Point Units through the recently approved second life extension through the early 2050's. The calculations for the nuclear fuel cost forecasts used in FPL's 2021 and 2022 resource planning work were performed consistent with the method then used for FPL's Fuel Clause filings, including the assumption of refueling outages every 18 months and plant operation at current (*i.e.*, power uprated) levels. The costs for each step to fabricate the nuclear fuel were added to calculate the total costs of the fresh fuel to be loaded at each refueling (acquisition costs). The acquisition cost for each group of fuel assemblies. DOE notified FPL that, effective May 2014, all high-level waste payments would be suspended until further notice. Therefore, FPL is no longer including in its nuclear fuel cost forecast a 1 mill per kilowatt hour net to reflect payment to DOE for spent fuel disposal.

d. For oil trends and factors, FPL will reference the observations made by EIA in its AEO 2022 outlook.

For 2021, EIA noted that crude oil production did not grow, even as benchmark prices increased substantially. However, as the global economy returns to pre-pandemic levels, EIA projects that both demand and prices will remain elevated, resulting in crude oil production reaching pre-pandemic levels in the medium term.

In the AEO 2022, crude oil prices primarily drive drilling activity and crude oil production. In the Reference case, crude oil production returns to pre-pandemic levels in 2023 and peaks in the late 2020s. Production then remains relatively flat through 2050. The Reference case projects that prices are high enough to maintain investment at steady crude oil production levels but not high enough to elicit increasing volumes from those levels of investment.

The majority of new U.S. crude oil production comes from tight oil resources. The Wolfcamp play in the Permian Basin and the Bakken play in the Williston Basin lead the growth in U.S. tight oil production. However, estimates of technically recoverable tight or shale crude oil resources are uncertain.

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Although U.S. crude oil production and refinery throughput were less in 2021 than in 2019, crude oil exports have mostly increased in response to growing international demand. Throughout the projection period, from 2022 through 2050, crude oil exports remain near their projected peak, and they remain stable in both gross terms and as a percentage of total domestic crude oil production, according to the Reference case. Projected crude oil imports, meanwhile, rise to pre-pandemic levels by 2023 in the Reference case, and then they remain relatively flat through 2050. EIA projects that the United States will remain a net exporter of petroleum products through 2050 as net petroleum product exports remain mostly flat through the projection period.

Despite the recent reduction in refinery capacity, EIA projects that refinery utilization and throughput (the amount of crude oil processed at refineries) will remain relatively flat over the projection period.

EIA also projects that utilization rates will return to near historical averages in 2022, but it will not be cost-effective for refineries to make up for lost capacity by increasing utilization beyond this point. As a result of lower capacity and stable utilization, EIA expects total production of refined products to remain below peak levels over the long run.

e. None.

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QUESTION:

Please provide a comparison of the Utility's 2021 fuel price forecast and the actual 2021 delivered fuel prices.

RESPONSE:

Please see responsive document provided.

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<u>QUESTION</u>:

Please explain any notable changes in the Utility's forecast of fuel prices used to prepare the Utility's 2022 TYSP compared to the fuel process used to prepare the Utility's 2021 TYSP.

<u>RESPONSE</u>:

No notable changes were made to the process FPL used to forecast fuel prices included in the 2022 Ten-Year Site Plan, when compared to the process used to forecast fuel prices included in the 2021 Ten-Year Site Plan.

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QUESTION:

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

<u>RESPONSE</u>:

FPL continues to evaluate strategies that will increase the reliability and supply diversity of its natural gas transportation portfolio to ensure adequate gas availability for future generation growth. In May of 2020, the contract quantity on the Sabal Trail Transmission, LLC and Florida Southeast Connection, LLC pipelines increased to 600,000 MMBtu/day. FPL also has the option to secure additional quantities in the future if it is determined these pipelines are the most competitive alternative. The current gas transportation portfolio provides FPL access to a diverse range of natural gas supply alternatives, which helps mitigate FPL's exposure to supply disruptions. FPL has secured natural gas transportation on several upstream pipelines with access to onshore natural gas supplies, which has significantly reduced dependence on Gulf of Mexico supplies, thereby decreasing the exposure to tropical events. In addition, FPL has contracted for natural gas storage to provide access to natural gas in the event of a loss of supply.

Although now part of FPL, the former Gulf plants ("Gulf") still operate under the provisions of the Southern Company System Intercompany Interchange Contract ("IIC") as part of an integrated electric utility system with several other operating companies (commonly referred to as the "Pool"). As part of its integrated operations in the Pool, Gulf is required to meet certain requirements for fuels, including transportation and storage, under the Pool's Fossil Fuel Policy. Gulf's current portfolio of natural gas transportation meets the requirements of the Fossil Fuel Policy and helps ensure the deliverability of gas supply to Gulf while also providing access to a diverse supply of natural gas. Gulf's current portfolio includes firm gas transportation on the Gulf South Pipeline Company, LP ("Gulf South"), Florida Gas Transmission Company, LLC ("FGT"), and Transcontinental Gas Pipe Line Company, LLC ("Transco") pipelines. In addition, as required by the Fossil Fuel Policy, Gulf has contracted for natural gas storage to provide access to natural gas in the event of a loss of supply. In preparation for Gulf's exit from the Pool this summer, we are currently evaluating strategies to help enhance the reliability and supply diversity of the combined natural gas transportation and storage portfolio while determining if opportunities exist to modify the portfolio to the benefit of all customers.

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QUESTION:

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

RESPONSE:

Pipelines are continuing to add capacity to deliver gas from the prolific Marcellus and Utica shale regions of Pennsylvania and Ohio to the Southeast. There are also several new projects that will bring gas from the Waha area in West Texas to the Texas Gulf Coast. In addition, several projects have been announced to bring gas to the Southeast from the Scoop/Stack and Haynesville production areas. FPL continues to explore opportunities to access these growing supply sources, but currently has no definitive plans regarding these or other new pipelines. On the plant specific side, FPL recently completed the conversion of Gulf Clean Energy Center ("GCEC") Units 6 and 7 to natural gas which is being delivered via a new plant lateral that connects GCEC to the Florida Gas Transmission Company ("FGT") mainline.

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QUESTION:

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

RESPONSE:

For LNG industry factors and trends, FPL references the EIA's AEO 2022.

In the Reference case, U.S. natural gas production increases through 2050, and more than 35% of gross additions are exported. Projected U.S. natural gas exports rise through 2050, primarily driven by increased LNG capacity and growing global natural gas consumption. Increases in pipeline exports to Mexico and Canada also contribute to the increase in U.S. natural gas exports.

In 2021, U.S. natural gas exports reached a record high. EIA projects continued growth in natural gas exports through 2025 because of increases in LNG capacity from facilities currently under construction. LNG export facilities at Sabine Pass, Calcasieu Pass, and Golden Pass will likely enter service much earlier than EIA had anticipated in the AEO 2021, increasing the amount of infrastructure available for converting natural gas to LNG for export.

Beyond 2025, EIA projects that natural gas production will ramp up to meet growing export demand, the majority of which will be LNG. EIA projects global demand for U.S. natural gas to exceed current and announced LNG export capacity; therefore, additional LNG export facilities will be economical to build. These LNG capacity expansions, coupled with high demand for natural gas abroad, result in EIA's projection of an increase in LNG exports to 5.86 trillion cubic feet (16.1 Bcf/d) by 2033 in the Reference case, prompting natural gas production growth in the medium and long term.

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QUESTION:

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

RESPONSE:

FPL has 4.0 billion cubic feet (Bcf) of firm natural gas storage capacity under contract in the Bay Gas storage facility located in Alabama. The Bay Gas storage facility is interconnected to the Florida Gas Transmission ("FGT") pipeline, the Transcontinental Pipeline ("Transco") 4A Lateral, and the Gulf South Pipeline Company, LP ("Gulf South") facilities. Effective April 1, 2022, FPL extended the current 1 Bcf firm gas storage contract with Southern Pines Storage (SG Resources Mississippi, LLC) for an additional three years. Southern Pines is interconnected to FGT, Transco, and Southeast Supply Header Pipeline. FPL has predominately utilized natural gas storage to help mitigate gas supply interruptions caused by severe weather and/or infrastructure problems. Over the past several years, FPL has acquired upstream transportation capacity on several pipelines to help mitigate the risk of offshore supply problems caused by severe weather in the Gulf of Mexico. While this transportation capacity has greatly reduced FPL's offshore exposure, a portion of FPL's supply portfolio remains tied to offshore natural gas sources. Therefore, natural gas storage remains an important tool to help mitigate the risk of offshore as well as onshore supply disruptions. Natural gas storage is a valuable tool to help manage the daily balancing of supply and demand. From a balancing perspective, injection and withdrawal rights associated with storage have become an increasingly important part of the evaluation of overall storage requirements. FPL continues to evaluate its future natural gas storage needs.

In accordance with the Southern Company System Pool's Fossil Fuel Policy, FPL is required to maintain firm natural gas storage for the former Gulf plants. Storage under contract for the former Gulf plants includes 0.58 Bcf of storage capacity in the Bay Gas storage facility, 0.85 Bcf in the Leaf River storage facility, and 0.50 Bcf in the Petal Gas Storage facility. In total, this is 1.93 Bcf of firm natural gas storage capacity that helps mitigate the risk of supply loss and balance daily supply and demand requirements as forecasts change.

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QUESTION:

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

RESPONSE:

With respect to rail transportation issues during the period of 2022 through 2031, the rail lines are encountering challenges adding the crews necessary to deliver coal to the plants. This causes challenges for the plants related to maintaining inventories and operating the units economically. The increase in demand for rail service results from rising natural gas prices, which have increased demand for coal-based generation, and will likely persist into 2023. The railroads appear to have more than adequate locomotive power. FPL has a sufficient number of coal cars under long-term lease to haul the projected coal requirements expected during the planning period.

Scherer No. 3 is served by a single railroad. However, the rail movement of the coal from the Powder River Basin is a two-line haul that enables competition from the mine origin to an interchange point. The Plant Scherer co-owners, including FPL, utilized that circumstance to seek the least cost transportation through bidding and negotiation that resulted in the current long-term rail contracts.

Plant Daniel is served by the Mississippi Export Railroad ("MSE"); a short line railroad with track from Pascagoula, MS to Evanston, MS. Coal supply is originated by either Union Pacific (Colorado origins) or BNSF (Wyoming origins) railroads. Trains are interchanged to the Canadian National Railway in Memphis, TN and interchanged once again to the MSE in Evanston. MSE provides transportation from Evanston to Plant Daniel.

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QUESTION:

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

<u>RESPONSE</u>:

A variety of changes to coal handling, blending, unloading, and storage are currently projected at the coal generating units during the planning period 2022-2031. There will be notable power purchase agreement ("PPA") terminations, unit conversions, and unit retirements which will impact the coal fleet. FPL retired its ownership portion of the coal-fueled Scherer Unit 4 in January 2022. FPL plans to retire its ownership portion of two coal-fueled steam units, Plant Daniel Units 1 and 2, by the beginning of 2024.

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QUESTION:

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

RESPONSE:

All FPL nuclear units have constructed dry cask storage facilities at their sites, which will allow for the safe, long-term on-site storage of spent nuclear fuel ("SNF") until a final repository is built.

On March 31, 2009, NextEra Energy Inc. ("NextEra") reached a settlement with the U.S. Department of Energy ("DOE") that reimbursed certain costs incurred by NextEra, for on-site storage of SNF due to DOE's failures to dispose of SNF. The settlement allowed NextEra to recover past SNF management costs incurred up to December 31, 2007. The settlement also permits an annual filing to recover spent fuel storage costs incurred by NextEra, payable by the Government on an annual basis.

On March 3, 2010, the DOE filed a motion with the Nuclear Regulatory Commission to withdraw the license application for a high-level nuclear waste repository at Yucca Mountain with prejudice. In light of the decision not to proceed with the Yucca Mountain nuclear waste repository, the President of the United States directed the Secretary of Energy to establish a Blue Ribbon Commission ("BRC") on America's Nuclear Future to conduct a comprehensive review of policies for managing the back end of the nuclear fuel cycle and to provide recommendations for developing a safe, long-term solution to managing SNF and nuclear waste.

In 2012, the BRC issued its report and recommendations which includes a consent-based approach to site future nuclear waste management facilities; creation of a new organization, independent of the DOE, dedicated solely to assuring the safe storage and ultimate disposal of spent nuclear fuel and high-level radioactive waste; providing access to the U.S. government's nuclear waste fund for the purpose of nuclear waste storage and disposal; and initiating prompt efforts to develop geologic disposal facilities, consolidated interim storage facilities and transportation to those facilities.

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In January 2013, the DOE issued a strategy document for implementing the BRC recommendations, outlining among other things, long-term plans for a new management organization to handle spent fuel storage and disposal activities, development of new interim storage facilities and several possible funding reforms, including accessing the nuclear waste fund for funding these activities. A DOE team began crafting strategies for reaching out to communities that might accept and store nuclear waste.

In February 2018, the President's administration requested \$120MM to restart licensing activities for the Yucca Mountain nuclear waste repository and initiate a robust interim storage program. However, the approved budget allocated no money to the project.

In May 2018, the House passed, by a 340-72 vote, the Nuclear Waste Policy Amendments Act of 2018, a bill that addresses a major condition for licensing the Yucca Mountain repository by withdrawing the repository site from use under public land laws and placing it solely under DOE control. The bill also authorizes the DOE to store spent fuel at interim NRC-licensed storage facilities, which would be owned by a non-federal entity. It also increases Yucca Mountain's capacity limit from 70,000 to 110,000 metric tons. The Senate received the bill on May 14, and it was read twice and referred to the Committee on Environment and Public Works, but no action has been taken since.

The House also passed another bill, Energy and Water Development Appropriations, 2019, which sought to provide FY2019 funding for nuclear energy programs and would give the DOE \$100 million more than the \$120 million requested for Yucca Mountain, but the Senate approved no Yucca Mountain funding. Instead, the Senate passed a bill that included authorization for a pilot program in FY2019 to develop an interim nuclear waste storage facility at a voluntary site. However, the FY2019 appropriations measure, which was enacted in September 2018, included neither the House-passed funding for Yucca Mountain nor the Senate interim storage authorization.

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QUESTION:

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

RESPONSE:

The uranium price increased during the second half of 2010 due primarily to the news of a significant increase in the future uranium demand to feed an increase in the number of new reactors that the Chinese planned to build. The earthquake and tsunami that struck Japan in March 2011 reversed that trend when all the Japanese reactors were shut down and several other countries initiated abandonment of their nuclear programs. The market has drifted down since then and returned during the summer of 2013 to the levels that existed prior to the late 2010 uranium price increase. That downward drift was aided by the decision by the Department of Energy to sell some of its excess uranium inventories to fund the decontamination and decommissioning activities of old uranium enrichment plants. The market drifted down again in 2016, reaching a historic 12-year low in November. In early 2018, the market experienced a slight increase due to announcements of production cuts by two major mining companies, but the supply continues to exceed current demand. In 2019, the market again saw a slight decrease due to the continued over supply. In 2020, there was a gradual increase in Uranium pricing driven by temporary mine closures and reduced output to proactively prevent COVID-19 transmission. This reduced production recovered, and prices had returned to near pre-COVID-19 levels. In 2021 and early 2022, there was an increase in pricing as a result of financial institutions purchasing large quantities of physical inventory and the political unrest in Kazakhstan causing supply chain issues. The uranium pricing subsequently started to trend down and stabilized until the recent Russian invasion of Ukraine with the threat of potential sanctions, which resulted in a surge in uranium prices. FPL expects uranium prices to return to more stable levels in the next few years, with price behavior to be more consistent with market fundamentals.

The events in Japan have also had a significant impact on the enrichment services market. To date, that market has declined significantly and has stabilized. The timing of the return of the nuclear reactors in Japan and the quantity will play an important role in the future enrichment price. Also, enrichment demand was already positioned to increase as replacement or extension of existing contracts in the industry were set to expire in the near term. However, concerns over security of supply and geopolitical risk from the potential of sanctions against Russia due to the Ukraine invasion has brought much of this demand forward, given the recent spike in the market resulting in a surge in enrichment services prices. FPL expects prices to return to more stable levels in the next few years, with price behavior to be more consistent with market fundamentals.

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Conversion prices have also recently seen a surge due to the threat of potential sanctions against Russia. FPL expects prices to return to more stable levels in the next few years as the US domestic conversion facility returns to operation in 2023, with price behavior to be more consistent with market fundamentals. As for the fabrication services step, prices are expected to remain rather stable.

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QUESTION:

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

RESPONSE:

FPL's Recommended Resource Plan presented in its 2022 Ten Year Site Plan includes a number of actions that FPL has already taken, and is planning to take, in order to prepare for extreme Winter events.

Regarding fossil generation, FPL has identified the following steps it intends to take in preparation for severe cold weather events if the Florida Public Service Commission finds that FPL's Recommended Resource Plan is suitable for planning:

- Adding the capability to burn backup distillate fuel oil at two Southwest Florida generating units (Manatee Unit 3 and Ft. Myers Unit 2);
- Utilizing two types of "near-term" capacity additions in the first half of the 2022-2031 period. The first of these near-term capacity additions is to delay the previously scheduled retirement dates of five generating units and, instead, repurpose them as Winter-only generating units that will be used only if extreme cold weather is forecast for FPL's service area. (These units are: Manatee Units 1 & 2, Gulf Clean Energy Center Units 4 & 5, and Lansing Smith Unit A. These five units, in total, comprise approximately 1,790 MW of Winter capacity). The second type of near-term capacity additions is to install upgrade packages to several of FPL's existing combined cycle generating units to increase their capacity during extreme cold weather events.

In addition, FPL has begun to achieve enhanced cooperation between FPL and suppliers of natural gas and backup distillate fuel oil. FPL's Recommended Resource Plan also shows the addition of 1,400 MW of additional battery storage facilities in latter half of the ten-year reporting period of the 2022 Ten Year Site Plan to enable FPL to better maintain system reliability during an extreme Winter event.

FPL also took similar winterization steps for its fossil generation like nuclear generation described below. For additional details, see FPL's response to Staff's Second Data Request No. 4.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 93 Page 2 of 2

Regarding nuclear generation, FPL has completed the following items in preparation for severe cold weather events:

- St. Lucie and Turkey Point nuclear sites performed an extensive engineering evaluation to identify any vulnerabilities based on the 2021 Texas severe cold weather event.
- Summarized below are the actions taken based on the engineering evaluation:

The St. Lucie evaluation identified the following needs:

 ~ 15,000 linear feet of heat trace and insulation on various instrument and process lines. To date, FPL is approximately 50% complete and will be 100% complete by October 1, 2022.

The Turkey Point evaluation identified the following needs:

• $\sim 10,000$ linear feet of heat trace and insulation on various instrument and process lines. To date, FPL is approximately 30% complete and will be 100% complete by October 1, 2022. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 94 Page 1 of 1

QUESTION:

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

<u>RESPONSE</u>:

Regarding fossil-fueled and nuclear generation facilities, please see FPL's response to Staff's First Data Request No. 93.

Regarding Transmission and Distribution ("T&D") facilities, FPL will be taking a multi-pronged approach for mitigating extreme weather loads. This includes T&D new construction in the FPL service area (base) and two T&D Winterization Programs (SPP clause) to upgrade the capacity of certain existing critical T&D facilities to better meet the forecasted increase in demand associated with an extreme cold weather event as described in FPL's Storm Protection Plan filed April 10, 2022 (Docket No. 20220051-EI) which is located on at: http://www.floridapsc.com/library/filings/2022/02358-2022/02358-2022.pdf.

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QUESTION:

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

RESPONSE:

FPL designs and constructs new infrastructure to comply with applicable codes, including flood protection requirements. The Company continuously monitors existing infrastructure – which was previously built to applicable codes – and makes necessary adjustments to ensure reliable generation and delivery of electricity to its customers.

Florida Power & Light Docket No. 20220000- Ten-Year Site Plan Staff's First Data Requ Request No. 3 Attachment No. 1 of 1 Tab 1 of 2	ОТ	
TYSP Year Staff's Data Request # Question No.	2022 1 3	
	Assumptic se Case	ons
AFUDC RATE		6.22 %
CAPITALIZATION RATIOS		
	DEBT	
	PREFERRED	
	EQUITY	<u>59.6</u> %
RATE OF RETURN		
	DEBT	
	PREFERRED	-
	EQUITY	10.6 %
INCOME TAX RATE:		
	STATE	5.5 %
	FEDERAL	<u>1</u> %
	EFFECTIVE	25.345 %
OTHER TAX RATE:	-	1.73 %
DISCOUNT RATE:		7.38 %
TAX		
DEPRECIATION RATE:		3.75% %
(assuming a 20-year life)		7.22%
		6.68%
		6.18% 5.71%
		5.29%
		4.89%
		4.52%
		4.46%
		4.46%
		4.46%
		4.46% 4.46%
		4.46%
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		4.46%
		4.46% 2.23%
	I	2.20/0

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 3 Attachment No. 1 of 1 Tab 2 of 2

TYSP Year	2022
Staff's Data Request #	1
Question No.	3

Financial Escalation Assumptions

			-	
	General	Plant Construction	Fixed O&M	Variable O&M
	Inflation	Cost	Cost	Cost
Year	%	%	%	%
202	22 2.5	2	2.5	2.5
202	23 2.5	2	2.5	2.5
202	24 2.5	2	2.5	2.5
202	25 2.5	2	2.5	2.5
202	26 2.5	2	2.5	2.5
202	27 2.5	2	2.5	2.5
202	28 2.5	2	2.5	2.5
202	29 2.5	2	2.5	2.5
203	30 2.5	2	2.5	2.5
203	31 2.5	2	2.5	2.5

Florida Power & Light Company Docket No. 2022000-0T Ten-Year Site Plan Staff's First Data Request Request No. 4 Attachment No. 1 of 1 Tab 1 of 2

TYSP Year2022Staff's Data Request #1Question No.4

D .												FPL Hourly Sy	stem Load (MW)										
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1/1/2021	10703	10269	9646	9198	8988	8994	9172	9505	10723	12299	13608	14572	15165	15552	15650	15621	15231	14856	15065	14312	13587	12894	12194	11247
1/2/2021	10391	9696	9226	8975	8859	8966	9302	9834	11023	12523	13642	14524	14998	15225	15379	15349	15049	14629	14797	14051	13236	12444	11631	10717
1/3/2021	9806	9102	8621	8327	8189	8258	8534	8956	10229	11774	12907	13716	14325	14506	14463	14377	14215	14196	14588	14104	13400	12556	11591	10548
1/4/2021	9630	9011	8634	8444	8521	9063	9993	10923	11713	12072	12311	12538	12673	12728	12757	12624	12527	12819	13544	13198	12541	11679	10827	9869
1/5/2021	9079	8656	8482	8477	8753	9599	11036	12258	12871	12664	12568	12390	12271	12168	12120	12119	12130	12390	13189	12900	12324	11555	10599	9743
1/6/2021	9081	8763	8692	8776	9141	10079	11544	12784	13245	13023	12755	12442	12274	12127	12063	12068	12163	12550	13354	13126	12471	11689	10781	9798
1/7/2021	9071	8676	8496	0	8748	9484	10795	11848	12367	12475	12526	12568	12557	12497	12440	12473	12440	12815	13481	13166	12563	11710	10808	9809
1/8/2021	8990	8492	8235	8133	8259	8819	9855	10846	11587	12085	12472	12712	12767	12723	12694	12675	12620	12727	13251	12825	12141	11430	10941	10009
1/9/2021	9248	8792	8534	8468	8552	8941	9677	10537	11737	12615	12949	12844	12576	12297	12080	12005	12053	12517	13373	13236	12880	12469	11948	11387
1/10/2021	10855	10516	10403	10422	10684	11188	11988	12959	14125	14459	14130	13523	13016	12480	12122	11949	12044	12630	13584	13432	12940	12228	11281	10332
1/11/2021	9620	9238	9123	9111	9360	10060	11283	12315	12776	12742	12623	12561	12605	12537	12452	12388	12413	12817	13583	13203	12456	11552	10649	9620
1/12/2021	8777	8279	8002	7923	8040	8641	9720	10704	11464	12116	12487	12732	12815	12699	12526	12435	12525	13090	13910	13586	12912	11965	10974	9950
1/13/2021	9362	8672	8445	8408	8586	9154	10613	11542	12218	12692	12826	12980	13138	13140	13086	13064	13277	13911	14375	13936	13184	12308	11232	10192
1/14/2021	9429	8977	8781	8790	9030	9925	11218	12297	12922	13062	12828	12550	12277	12016	11832	11721	11767	12300	13326	13178	12708	12040	11140	10299
1/15/2021	9629	9343	9332	9399	9749	10591	11973	13137	13567	13365	13029	12723	12621	12517	12476	12338	12189	12475	13021	12619	12005	11328	10663	9856
1/16/2021	9165	8728	8488	8409	8517	8789	9521	10463	11544	12229	12479	12382	12308	12094	11862	11723	11622	11826	12687	12488	12048	11570	11051	10436
1/17/2021	9899	9545	9464	9542	9726	10128	10803	11658	12677	13287	13305	12847	12498	12141	11939	11833	11892	12323	13001	12690	12198	11490	10764	9933
1/18/2021	9325	8982	8830	8823	9068	9842	10821	11823	12632	12829	12757	12574	12432	12242	12027	11924	11967	12389	13387	13272	12708	12022	11155	10300
1/19/2021	9784	9586	9633	9816	10325	11363	12985	14299	14574	14064	13399	12846	12545	12269	12138	12100	12102	12400	13291	13183	12602	11844	10885	9982
1/20/2021	9337	9067	8990	9125	9548	10551	12011	13230	13405	13215	12746	12450	12360	12396	12297	12251	12289	12487	13202	13003	12355	11455	10558	9651
1/21/2021	8963	8633	8541	8607	8950	9838	11387	12586	12994	12706	12496	12399	12476	12521	12595	12679	12671	12796	13489	13185	12487	11570	10605	9578
1/22/2021	8792	8339	8152	8152	8392	9258	10522	11568	12129	12248	12364	12501	12641	12770	12995	13166	13228	13177	13394	12921	12155	11321	10525	9665
1/23/2021	8870	8350	8022	7869	7877	8117	8629	9406	10649	11642	12192	12539	12815	13005	13120	13215	13178	13083	13363	12955	12231	11420	10647	9840
1/24/2021	9022	8513	8110	7897	7826	7934	8307	8901	10192	11466	12326	12923	13457	13850	14068	14050	13935	13706	14008	13716	13058	12081	11158	10039
1/25/2021	9147	8568	8249	8123	8267	8840	9880	10786	11677	12561	13296	13836	14163	14436	14557	14602	14389	14340	14840	14411	13547	12532	11380	10213
1/26/2021	9179	8567	8213	8038	8130	8708	9771	10659	11607	12537	13291	14023	14727	15319	15734	15972	15896	15517	15641	15139	14183	13081	11848	10590
1/27/2021	9541	8873	8458	8263	8317	8869	9884	10792	11721	12698	13602	14355	15081	15661	16076	16308	16236	15919	16001	15468	14482	13402	12257	11013
1/28/2021	9976	9285	8901	8695	8745	9252	10366	11213	11903	12444	12829	13026	13117	13028	12931	12829	12730	12707	13258	13099	12517	11731	10815	9899
1/29/2021	9213	8862	8763	8861	9249	10165	11472	12767	13377	13296	13056	12736	12484	12256	12122	12028	11996	12081	12712	12574	12062	11458	10784	10059
1/30/2021	9554	9196	9064	9061	9215	9652	10262	11212	12091	12537	12392	12155	12134	12012	11868	11746	11664	11727	12273	12108	11543	10987	10343	9558
1/31/2021	8926	8448	8203	8116	8135	8459	8965	9643	10762	11672	12198	12564	12819	12923	12953	12880	12832	12862	13414	13277	12673	11833	10819	9770
2/1/2021	8876	8334	8052	7922	8042	8596	9653	10593	11414	12060	12382	12671	12865	12859	12710	12624	12753	13187	13945	13790	13196	12455	11463	10601
2/2/2021	9986	9689	9702	9835	10228	11163	12511	13852	14601	14600	14344	13932	13479	13005	12609	12399	12435	13050	14479	14903	14548	13876	12901	12011
2/3/2021	11491	11290	11338	11646	12172	13172	14846	16189	16226	15784	15014	14372	13607	12923	12417	12157	12221	12848	14305	14719	14577	14131	13339	12576
2/4/2021	12234	12284	12498	12840	13317	14515	16372	17670	17706	16539	15210	14047	13174	12510	12083	11925	11964	12376	13469	13656	13243	12589	12160	11286
2/5/2021	10312	10066	10030	10154	10569	11537	13120	14166	14014	13360	12777	12492	12397	12357	12351	12446	12515	12588	12980	12796	12142	11384	10637	9793
2/6/2021	9038	8557	8268	8190	8271	8524	9045	9775	11035	12112	12941	13506	13639	13455	13171	12933	12839	12899	13278	13032	12406	11764	11122	10393
2/7/2021	9677	9141	8804	8573	8490	8586	8935	9541	10958	12427	13551	14403	14817	14953	14962	14916	14817	14615	14551	13922	13068	12449	11841	10814
2/8/2021	9707	9053	8718	8615	8761	9290	10314	11270	12097	12798	13503	14196	14843	15281	15543	15704	15584	15438	15612	15286	14489	13408	12293	10911
2/9/2021	9824	9099	8703	8488	8568	9066	10043	10984	12036	13033	13955	14905	15644	16138	16452	16690	16718	16334	16202	15779	14831	13744	12495	11207
2/10/2021	10109	9391	8950	8704	8695	9166	10207	11075	12134	13088	13978	14903	12669	16133	16547	16770	16642	16283	16125	15674	14738	13606	12337	11164
2/11/2021	10106	9410	8942	8726	8730	9232	10220	11117	12164	13243	13828	14332	15584	16091	16474	16702	16701	16313	16182	15794	14873	13768	12616	11344
2/12/2021	10206	9485	9043	8840	8855	9281	10232	11047	12131	13260	14304	15232	15915	16442	16700	16701	16618	16206	15980	15552	14653	13736	12755	11721
2/13/2021 2/14/2021	10762 10960	10088	9676 9890	9457 9623	9332 9491	9459 9494	9888 9747	10569 10364	12123 12021	13588 13616	14702 14938	15489	15921 16573	16264 16935	16517 17167	16511 17269	16421 17079	15902 16581	15659	15227 15822	14353 14921	13602 14055	12777 13093	11795 11969
2/14/2021 2/15/2021	10960	10320	9890	9623	9629	9494	10725	10364	12021	13616	14938	15880	16573	18139	1/16/	1/269	1/0/9	17852	16314	13822	14921	14033	14125	12845
2/15/2021 2/16/2021			9898	9603				11587			15813	16829			15438					1/260	16230	13128		
2/16/2021 2/17/2021	11760 10012	11069 9379			10468 8946	10908 9493	11682		13198 12450	13910 13430			15320 15539	15113		15357	15143	14960 16023	15237	1494 /			12108 12981	10986
	10012	9379 10084	9039	8875		9493	10525	11418 11710		13430	14331	15003	15539	15804 17502	16013 17917	16107 18070	16132 17990	16023	16106	15836	14988	14000 14737		11797 12381
2/18/2021 2/19/2021	10778	10084	9621 10097	9391 9851	9402 9853	9859	10819 11209	11710	12977 13337	14167	15199 15678	16170	16977 17233	17502	17917	18070	17990	17567	17292 15714	16834 15104	15839 14159	14/3/ 13191	13615	12381 11017
2/19/2021 2/20/2021	10017	9267	8810	9851 8578	9853 8511	8614	9054	9870	13337	14563	12162	16567	1/233 12526	1/262 12552	17302	1/13/ 12413	16814	16182	15/14 12493	15104	14159	13191	12161	9936
2/20/2021 2/21/2021	9233	9267 8731	8810 8422	8578	8285	8614 8455	9054 8886	9870 9596	10985	11/80	12162	12392	12526	12552	12468	12413 12451	12350	122/1 12415	12493	12468	12307	11314	10669	9936
2/21/2021 2/22/2021	9233 8892	8/31 8373	8422 8128	8288 8058	8285 8248	8455 8911	8886 9997	9596 10902	10666	11513	12005	12269	12533 14516	12610	1258/	12451 15468	12350	12415	12/74 15477	12868	12307	115/5	10698	9/01 11071
	8892 9974	8373 9349	8128 9075	8058 9024	8248 9102	9696	10691	10902	11/53	12524	13229	13892	14516	14983	1534/	15468	154/3	15395	15477	15244 14959	14395	13412	12299	1071
2/23/2021 2/24/2021	9974 9718	9349 9079	9075 8717	9024 8579	9102 8744	9696 9029	10691 10380	11576	12443	13117 12761	13827	14269 13953	14949 14450	15230	15419 14899	15609	15513	15195	15138	14959 14897	14080	13120	11959	10/24 10773
2/24/2021 2/25/2021	9718 9750	9079 9042	8/1/ 8696	8579	8/44 8568	9029 9139	10380	11434	12206	12/61	13354	13953	14450 14823	146/5	14899	15056	15050	14917	15026	1489/	14144 14251	13215	120/1 12060	10//3
	9750 9795	9042 9098	8696 8670	8485 8528		9139		11149		12/03	13388		14823		16723	15955	15943	15708			14251 14561	13246	12060	10833
2/26/2021 2/27/2021	9795		8670 9581	8528 9278	8572	9146 9269	10181 9642	11076 10518	12199	13077	13926	14775 15883	15500	16189 17034	16723		17063	16619	16052 16259	15591 15812	14561	13644 14030	12765	
	10858	10071 10318	9581 9793	9278 9468	9151		9642 9494	10518	12209 12024	13/56	14996		16579	17034 17368	17357	17447 17720	17368		16259	15812 16542	14882 15626	14030 14694	13152	12130 12235
2/28/2021 Leave Row Blank	11106	10318	9795	9408	9286	9279	9494	10224	12024	13682	15039	16021	10540	1/308	1/040	17/20	1/485	17065	10/20	10342	13626	14694	13335	12235
Leave Kow Blank					1	1					1							1	1		1			

3/1/2021	11168	10351	9807	9550	9595	10065	10939	11894	13168	14309	15494	16554	17514	18109	18640	18884	18889	18431	17834	17392	16262	15061	13861	12382
3/2/2021	11146	10249	9714	9417	9388	9827	10775	11686	12887	14042	15110	16077	16949	17571	17966	18185	18070	17630	17139	16757	15681	14503	13255	11876
3/3/2021 3/4/2021	10707 9712	9901 9211	9390 8497	9167 8289	9183 8326	9643 8877	10724 9889	11727 10748	12927 11334	13973 11828	14869 12133	15491 12405	15897 12611	16024 12809	16047 13042	16048 13274	15929 13436	15725 13442	15501 13547	15322 13584	14418 12815	13295 11938	12021 10872	10645 9770
3/5/2021	8855	8445	8221	8128	8260	8817	9936	10962	11375	11806	12261	12696	13071	13506	13838	14142	14154	13830	13631	13404	12648	11766	10978	9990
3/6/2021	9124	8630	8157	7960	7928	8096	8606	9402	10663	11749	12519	13019	13367	13485	13222	12930	12683	12459	12604	12455	11872	11256	10584	9802
3/7/2021 3/8/2021	9092 8749	8561 8315	8240 8131	8041 8120	8013 8392	8197 9158	8657 10582	9384 11661	10520 12154	11452 12283	11917 12219	12188 12336	12376 12294	12404	12402 12062	12392 12028	12456 12065	12441 12305	12649	12848 13175	12171 12553	11340 11734	10481 10805	9456 9698
3/8/2021	8749 8930	8313	8131 8274	8120	8392 8423	9138	10382	11001	12134	12283	12219	12336	12294	11076 12648	12062	12028	12065	12303	12866 13107	13175	12555	11/54 11804	10805	9698
3/10/2021	8814	8301	8022	7956	8164	8715	9957	10862	11544	12033	12557	12906	13173	13303	13332	13353	13254	13182	13553	13716	13087	12255	11253	10089
3/11/2021	9147	8583	8277	8173	8315	8880	9958	10971	11767	12432	13022	13533	13980	14269	14438	14634	14628	14430	14377	14379	13613	12742	11677	10414
3/12/2021 3/13/2021	9398 9650	8706 8962	8331 8552	8199 8273	8294 8227	8866 8367	9887 8818	10918 9663	11830 11041	12614 12254	13285 13165	13823 13863	14336 14466	14669 14956	14984 15388	15186 15485	15149 15481	14744 14950	14252 14382	14029 14006	13317 13221	12430 12387	11574 11474	10564 10491
3/14/2021	9612	8908	8525	8261	8245	8424	8802	9646	10993	12179	13088	13852	14560	15175	15705	16071	16155	16169	15070	14853	13881	12811	11380	10303
3/15/2021	10169	9257	8745	8375	8456	8848	9617	10457	11268	12349	13375	14305	15133	15906	16501	17011	17380	17337	16838	16150	15627	14551	13300	11967
3/16/2021	10694	9752	9182	8884	8839	9214	9999	10828	11631	12709	13719	14629	15304	15946	16468	16980	17320	17337	16846	16042	15680	14555	13378	11999
3/17/2021 3/18/2021	10724 11358	9860 10469	9297 9947	9028 9601	8990 9536	9345 9897	10155 10725	10944 11455	11764 12269	12971 13584	14037 14755	14963 15831	15835 16836	16580 17630	17288 17994	17838 18294	18283 18707	18372 18568	17754 17734	16757 16947	16205 16539	15150 15510	13946 14407	12533 13082
3/19/2021	11847	10937	10306	9939	9846	10114	10826	11464	12307	13389	14139	14573	15209	15775	16191	16384	16452	16264	15626	14882	14441	13336	12251	11078
3/20/2021	9986	9103	8553	8234	8093	8249	8582	9163	10102	11173	12024	12585	13014	13330	13625	13792	13883	13826	13460	13176	12967	12341	11554	10592
3/21/2021 3/22/2021	9637 9028	8954 8347	8456 7995	8163 7880	8061 8023	8189 8590	8514 9451	8969 10355	9950 11047	11143	11976 12236	12355 12548	12584 12750	12686 12880	12779 12977	12877 13185	13103 13399	13173 13527	13038 13477	12818 13394	12776 13432	12188 12553	11213 11568	10017 10329
3/23/2021	9028	8552	8170	7999	8023	8541	9431 9510	10333	11047	11/33	12236	12348	13187	13545	13942	14327	13399	13327	13477	13394	13432	12333	11368	10529
3/24/2021	9339	8614	8180	7965	8047	8527	9571	10426	11145	11868	12566	13293	14015	14751	15813	16475	16974	17084	16811	16045	15688	14696	13475	12140
3/25/2021	10904	10083	9545	9347	9403	9886	10766	11510	12522	13919	15100	16230	17229	17823	18472	19031	19397	19367	18701	17654	17124	16225	15009	13549
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3/28/2021	12352	11555	10862	10140	10088	10022	10124	10505	11987	13655	15256	16508	17417	18035	18617	19069	19358	19366	18696	17678	17173	16262	15007	12618
3/29/2021	12326	11347	10655	10271	10207	10520	11233	11917	12882	14114	15430	16603	17629	18228	18665	19064	19290	19152	18567	17690	17260	16214	14955	13618
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3/31/2021 4/1/2021	12724 12129	11780 11180	11148 10557	10808	10696 9991	11025	11791 11061	12481 11749	13501 12624	14865 13876	15128	17229	18151 16911	18933 17527	19470 17671	19848 17772	19997 17707	19828 17369	19129 16537	18144 15620	17575	16435 13983	15065 12716	13544 11316
4/2/2021	10211	9377	8848	8518	8448	8799	9496	10245	11153	11879	12357	12707	12919	13088	13207	13215	13312	13199	12825	12486	12494	11959	11198	10249
4/3/2021	9518	8915	8564	8404	8408	8621	9018	9716	10688	11642	12034	12301	12327	12281	12291	12298	12265	12230	12040	12015	12164	11624	10897	10056
4/4/2021 4/5/2021	9251 8932	8562 8306	8151 7967	7937 7805	7892 7938	8045 8505	8393 9429	8966 10347	10122 11151	11243 11901	11946 12492	12485 12983	12815 13330	13003 13684	13101 13978	13179 14300	13226 14563	13097 14680	12750 14412	12453 13888	12662 13778	12118 12896	11189 11719	9959 10388
4/6/2021	9247	8494	8070	7870	7931	8440	9486	10291	11050	11901	12472	12987	13330	13945	14396	14861	15219	15352	15020	14400	14206	13342	12046	10535
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4/8/2021 4/9/2021	9876 10336	9027 9464	8487 8871	8205 8558	8279 8522	8729 8958	9699 9880	10458 10605	11386	12360 12819	13138 13766	13872	14549 15413	15272	15928 16692	16507	16915 17285	16894 17198	16388 16653	15453 15640	15055	14089 14320	12857 13222	11439 12029
4/9/2021 4/10/2021	10336	10044	9448	9102	8934	9037	9880	9942	11681	12819	13766	15353	16129	16136 16868	17400	17104 17858	17285	17198	16951	15822	15214 15272	14320	13222	11887
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4/12/2021	9400	8807	8428	8296	8434	9023	10042	10878	11630	12602	13549	14330	14854	15389	16040	16649	17062	17212	16906	16004	15500	14468	13243	11638
4/13/2021 4/14/2021	10372	9469 10015	8914 9414	8592 9101	8555 9073	8991 9488	9923 10396	10691 11191	11592 12223	12652 13298	13529 14261	14388 15119	15236	16113 16546	16851 17201	17637 17702	18291 18112	18512 18155	18014 17606	16909 16476	16199 15931	15109 14815	13842 13715	12292 12100
4/15/2021	10632	9727	9218	8917	8833	9207	10107	10878	11914	13131	14294	15201	16005	16833	17563	18202	18484	18369	17669	16779	16358	15409	14137	12555
4/16/2021	11223	10300	9668	9312	9218	9612	10435	11196	12320	13607	14749	15899	16825	17712	18371	18752	19002	18798	18006	17058	16521	15582	14324	13030
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4/19/2021	12013	11906	11364	11125	11101	11597	12461	13128	13971	15008	16147	17075	17428	17836	17782	17870	19394	17883	18994	16785	16607	15881	14565	13067
4/20/2021	11707	10878	10327	9932	9762	10108	10961	11723	12694	13931	14700	15210	15650	15834	16063	16332	16542	16645	16610	16253	16094	15288	14085	12652
4/21/2021	11450	10710	10210	10014	10006	10517	11287	12000	12793	13858	14866	15750	16395	16722	16661	16790	16724	16963	16666	16063	15757	14819	13792	12526
4/22/2021 4/23/2021	11300 11165	10411 10254	9788 9659	9400 9347	9307 9309	9672 9740	10387 10526	11000 11311	11832 12425	12781 13546	13783 14535	14734 15326	15651 15947	16386 16606	17039 17050	17533 17421	17798 17525	17797 17386	17276 16682	16376 15979	16023 15680	15109 14892	13753 13936	12460 12838
4/24/2021	11865	11002	10441	10084	9903	10009	10262	10794	12231	13965	15387	16480	17373	17877	18316	18567	18836	18772	18227	17306	16859	16084	15066	13880
4/25/2021	12759	11896	11269	10874	10643	10579	10615	11080	12753	14712	16373	17650	18641	19210	19782	20201	20409	20392	19947	18901	18425	17378	15860	14209
4/26/2021 4/27/2021	12837 11753	11764 10842	11058 10201	10575 9864	10452 9782	10725 10216	11345 11097	11927 11812	13093 12912	14514 14183	15747 15190	16874 16052	17766 16773	18292 17364	18777 17897	19031 18333	19216 18567	19148 18530	18592 18141	17503 17165	17044 16645	15970 15708	14566 14492	12947 12987
4/28/2021	11637	10656	10201	9716	9634	9983	10760	11812	12550	13848	14997	16076	16898	17666	18411	18555	19282	19338	18141	17743	17271	16352	14492	13542
4/29/2021	12229	11285	10666	10350	10319	10756	11571	12453	13821	15366	16767	17888	18740	19601	20281	20737	21020	20953	20440	19399	18685	17568	16283	14629
4/30/2021	13156	12141	11408	10980	10801	11133	11840	12609	13869	15434	16902	18075	18970	19823	20375	20635	20797	20613	19771	18658	17989	16914	15809	14425
5/1/2021 5/2/2021	13207 13233	12099 12160	11304 11377	10716 10829	10348 10489	10276 10370	10431 10430	10995 10956	12559	14209 14748	15676 16410	16966 17857	18166 18994	19152 19798	19869 20354	20305 20667	20448 20861	20300 20798	19646 20251	18545 19168	17918 18631	16967 17627	15793 16245	14441 14590
5/3/2021	13233	12365	11728	11412	11323	11744	12456	13164	14552	16153	17735	19151	20252	21050	21459	21746	21833	21749	21162	20060	19352	18497	17005	15445
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5/6/2021 5/7/2021	14352 12991	13250	12451 11414	11957	11/84 10942	12083	12765	13463	14830	15175	1/988 16348	19371 17486	20305	20928 19298	19845	20124	19989	21549 19473	18332	18858	16196	15242	15721 14095	14265
5/8/2021	11699	10725	10103	9725	9554	9614	9843	10449	11827	13218	14336	15306	16137	16880	17447	17945	18221	18146	17660	16598	15825	15109	14066	13047
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5/10/2021	12833	11978	11405	11058	11024	11458	12142	12873	14201	15647	16280	18472	19389	20249	20777	21156	21235	21011	20695	19743	19021	17959	16458	14981
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5/11/2021 5/12/2021	13552 13892	12422 12944	11712 12261	11220 11813	11034 11688	11364 12062	12095 12726	12859 13549	14259 15033	15829 16520	17456 18085	18943 19487	20213 20675	21102 21173	21572 21341	21783 21614	21655 21701	21227 21320	20499 20633	19659 19746	19042 19239	18057 18114	16712 16423	15273 14744

5/14/2021	12270	11379	10808	10445	10353	10725	11419	11933	12667	13518	14437	15324	16127	16927	17657	18085	18490	18438	17736	16674	16095	15475	14409	13350
5/15/2021	12134	11228	10525	10075	9816	9809	9981	10691	12213	13771	15073	16153	16902	17457	17847	18110	18077	17804	17104	16009	15383	14770	13802	12758
5/16/2021 5/17/2021	11674 11429	10778	10096 9961	9632 9619	9388 9602	9315 10070	9350 10779	9885 11650	11367 12863	12870 14001	14240 15162	15354 16118	16230 17014	16791 17643	17174 18165	17501 18537	17609 18816	17465 18753	16916 18291	16030 17280	15605 16663	15041 15844	13869 14589	12651 13215
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5/20/2021 5/21/2021	12480 11804	11622 10899	11077 10330	10730 9973	10673 9896	11070 10231	11879 10945	12580 11748	13622 12951	14539 14125	15281 15177	16440 16040	16979 16690	17353 17194	17610 17691	17930 18071	17978 18197	17787 17958	17336 17263	16559 16127	16118 15516	15513 14909	14319 13936	13061 12886
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5/30/2021 5/31/2021	13673 12650	12640 11720	11845 11070	11263 10606	10885 10427	10692 10535	10661 10660	11180 11259	12743 12888	14427 14619	15961 16204	17263 17483	18282 18462	19065 19022	19506 19344	19648 19567	19469 19618	19060 19229	18269 18692	17307 17860	16703 17368	15977 16748	14901 15469	13759 14126
6/1/2021	12831	11901	11229	10837	10761	11116	11733	12500	13598	14753	15975	17141	17868	18624	19094	19215	18874	18786	18315	17203	16535	15985	14795	13432
6/2/2021	12204	11362	10778	10437	10391	10747	11424	12342	13527	14870	16158	17230	18004	18628	19219	19630	19696	19258	18709	17823	17313	16808	15679	14293
6/3/2021 6/4/2021	13089 12828	12233 11944	11636	11270 11000	11161 10937	11530	12203 11949	12969 12730	14076 13799	15371 15377	16515 16798	16555 17952	17869 18774	18265 19410	18429 19820	18384 20068	18542 20075	18323 19527	17853 18635	17261 17878	16920 17332	16523	15394 15834	14070 14665
6/5/2021	12828	12647	11336	11517	11288	11323	11949	12/30	13741	15377	16798	17952	19108	19410	20071	20068	20073	19527	18633	17878	17332	16816	15834	14065
6/6/2021	13978	13150	12558	12103	11839	11792	11808	12323	13765	15680	17249	18502	19562	20221	20476	20674	20816	20762	20184	19250	18757	18215	17032	15587
6/7/2021	14466	13492	12845	12437	12396	12733	13248	14027	15137	16571	17864	19010	19877	20693	21232	21527	21650	21379	20695	19685	19033	18360	17043	15517
6/8/2021 6/9/2021	14213 14030	13273 13035	-122 12313	-155 11842	11910 11684	12244 11903	12825 12352	13604 13256	14771 14502	16172 16027	17482 17436	18735	19753 19848	20619 20761	21130 21376	21359 21784	21393 21931	21159 21857	20622 21347	19639 20244	18833 19262	18149 18581	16744 17231	15306
6/10/2021	14030	13384	12665	12138	11034	12170	12532	13230	14732	16335	17430	19182	20304	20/01	21370	221784	22339	221837	21534	20244 20426	19202	18581	17231	16171
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6/12/2021	14869	13823	13054	12600	12203	12060	12075	12798	14388	16270	17830	19225	20300	20740	20729	20864	20854	20201	19356	18629	17850	17143	16075	14921
6/13/2021 6/14/2021	13849 13940	12981 13037	12312 12335	11843 11870	11544 11719	11440 12010	11439 12504	12121 13179	13738 14163	15662 15604	17220 17180	18687	19961 17610	20556 17725	20322	20152 17408	20623 17410	20586 17147	19875 16811	18918 16373	18222 16149	17697 15749	16531 14582	15159 13260
6/15/2021	12273	11538	11078	10775	10739	11100	11719	12436	13547	15015	16482	17929	19020	19112	18643	18193	17849	17492	17116	16435	15965	15293	14247	13025
6/16/2021	11949	11173	10680	10405	10375	10790	11461	12121	13057	14142	15314	16473	17395	17770	17833	17366	16661	16095	15653	15185	14916	14376	13469	12304
6/17/2021 6/18/2021	11253 13048	10515 12248	10020 11634	9802 11300	9827 11158	10251 11458	10996 12102	11678 12781	12804 13893	14015 15052	15157 16220	16157 17436	16906 18467	17825 19364	18416 19961	18472 20082	18284 19955	17925 19515	17517 18900	16973 18211	16766 17807	16296 17270	15336 16344	14157 15178
6/19/2021	14083	13237	12668	12295	12098	12088	12243	12683	14082	15585	17287	18539	19250	19967	20771	21335	21467	21187	20384	19416	18841	18206	17168	16072
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6/22/2021 6/23/2021	14584	12809	12150	12694	12603	12901	12480	13107	14316	15748	18280	19700	19743	21588 20150	22048	19820	19439	18670	17849	17146	19360	16195	17122 15207	13329
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6/25/2021	12511	11667	11122	10882	10965	11368	11939	12694	13852	15014	16059	16834	17356	17626	17615	17473	17358	17233	16846	16319	16096	15693	14908	13922
6/26/2021 6/27/2021	12885	12120 12583	11547 11983	11173 11594	11023	11078 11273	11186 11233	11864	13426 13431	15171 15157	16592 16773	17565	18541 19136	19321 19970	19879 20471	19982 20659	19427 20588	18554 20197	17835 19425	16986 18494	16537 17887	16012 17235	15226	14257 14821
6/28/2021	13622	12619	11960	11598	11501	11819	12319	13161	14583	16115	17243	18107	18774	19210	19186	18655	18117	17759	17381	16858	16528	16102	15149	13957
6/29/2021	12856	12055	11523	11211	11176	11557	12162	12899	14078	15391	16781	18074	18990	19182	18770	18047	17569	16968	16482	16070	15768	15123	14116	12920
6/30/2021 7/1/2021	11947 11842	11240 11061	10740 10566	10528 10282	10573 10239	11008 10618	11696 11283	12463 12100	13598 13519	14922 15020	16056 16157	16714 17058	16913 17737	17129 18139	16873 18188	16526 18183	16294 18251	15947 18022	15648 17552	15322 16923	15318 16499	14945 15879	14066 14851	12902 13608
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10/19/2021	11073	10298	9747	9402	9441	9915	10877	11429	12066	13113	14270	15201	16049	16785	17333	17757	17883	17707	17034	16825	16076	15079	13901	12604
10/20/2021	11522 11992	10780 11200	10211 10669	9914 10322	9861 10283	10331 10676	11195 11623	11748 12154	12564	13833 14299	14905 15674	15885 16799	16740 17728	17537	18107	18469	18530 19673	18207 19350	17463 18508	17205 18001	16466	15533 16277	14372 15082	13092 13729
10/21/2021 10/22/2021	12672	11200	11269	10322	10283	11245	12136	12134	12934 13232	14299	15874	16799	17728	18537 17018	19115 17294	19541 17440	19673	19350	16487	16155	17263 15382	14622	13082	13/29
10/23/2021	11735	10993	10482	10167	10029	10127	10490	10960	12036	13645	14763	15766	16765	17206	17488	17711	17581	17090	16410	16221	15538	14978	14214	13278
10/24/2021	12441	11746	11207	10816	10616	10615	10838	11168	12127	13657	14984	16157	17094	17462	17703	17600	17485	17200	16958	16985	16413	15671	14615	13472
10/25/2021 10/26/2021	12524 12976	11764 12214	11343 11729	11153 11406	11299 11335	11925 11742	12887 12639	13485 13148	13960 13876	14754 15178	15755 16531	16791 17780	17581 18621	17961 19380	18529 20064	18801 20568	19027 20736	18870 20502	18443 19627	18277 19105	17434 18061	16507 16824	15280 15324	14008 13813
10/27/2021	12970	11635	10947	10502	10363	10730	11591	12044	12613	13779	14936	15904	17020	19380	18927	19428	19727	19520	19027	18376	17354	16225	13324	13483
10/28/2021	12266	11431	10897	10593	10602	11136	12199	12843	13575	15109	16422	17583	18336	18829	19052	19010	18724	18239	17995	17848	17129	16369	15409	14283
10/29/2021	13240	12210	11511	11109	10998	11417	12163	12610	13156	14229	15358	16271	16821	17189	17514	17684	17470	17000	16252	15954	15203	14424	13589	12571
10/30/2021 10/31/2021	11554 10124	10771 9432	10247 8924	9876 8644	9699 8513	9739 8572	10055 8811	10474 9239	11434 10263	12877 11740	13871 12936	14452 13881	14823 14680	14969 15238	15230 15648	15381 15942	15322 16101	14937 15693	14217 14743	14023 14272	13346 13892	12710 13435	11920 12536	10958 11396
11/1/2021	10124	9432	8924 9189	8944	8896	9312	10163	9239	10263	11/40	12936	13881	14680	15258	13648	15265	15619	15555	15344	14272	13892	13433	12536	11396
11/2/2021	10453	9773	9386	9167	9198	9699	10736	11389	11903	12602	13288	13814	14297	14777	15125	15324	15302	15221	15233	15466	14708	13842	12795	11561
11/3/2021	10554	9867	9405	9180	9187	9635	10578	10976	11716	12900	14070	15060	15837	16404	16682	16799	16788	16576	16390	16350	15609	14687	13529	12203
11/4/2021 11/5/2021	11081 11052	10377 10369	9848 9992	9531 9795	9574 9771	10031 10160	11024 11063	11654 11816	12184 12485	13097 13145	13962 13612	14619 13825	15041 13896	15407 13822	15353 13646	15441 13535	15579 13627	15512 13738	15492 13761	15538 13898	14965 13397	14155 12805	13198 12176	12069 11314
11/5/2021	10428	9818	9992 9394	9793	9000	9144	9549	10121	12485	13143	12231	13823	13898	13822	13040	13333	13627	13738	12578	12565	12000	11355	12176	9870
11/7/2021	9094	8473	8063	7836	7682	7703	7884	8360	9398	10646	11437	11730	11940	12160	12314	12466	12616	12529	12526	12803	12384	11744	10983	10070
11/8/2021	8387	7952	7763	7744	7947	8614	9856	10734	11327	11784	12161	12506	12798	13057	13206	13306	13218	13204	13617	13163	12411	11562	10517	9491
11/9/2021 11/10/2021	8640 9212	8168 8664	7926 8298	7855 8169	7988 8260	8646 8820	9879 9973	10740 10937	11253 11954	11736 12827	12155 13548	12598 14214	12996 14783	13267 15168	13518 15198	13711 15119	13624 14991	13737 14975	14109 15156	13679 14605	13007 13890	12166 13086	11191 12143	10040 11079
11/11/2021	10189	9554	9182	9018	9051	9476	10296	11341	12772	13817	14738	15463	16002	16346	16379	16038	15681	15879	16042	15491	14798	13922	13021	11948
11/12/2021	11008	10358	9945	9707	9712	10229	11256	12038	12862	13556	14218	14752	14960	15136	15110	15092	14975	15102	15146	14448	13768	13061	12233	11357
11/13/2021	10473	9804	9381	9101	8975	9061	9464	10340	11768	13153	14310	15283	16060	16548	16846	16751	16294	15647	15356	14557	13701	12886	12047	11083
11/14/2021 11/15/2021	10168 8856	9534 8346	9043 8055	8710 7976	8486 8134	8456 8801	8712 9994	9425 10839	10665	11727	12428 12106	12979 12452	13369 12725	13533 12964	13470 13214	13243 13280	12863 13286	13038 13410	13282 13774	12788 13347	12192 12665	11442 11837	10589 10855	10188 9823
11/16/2021	8931	8446	8203	8121	8266	8991	10270	11195	11741	12152	12500	12452	13325	13680	13214	13935	13230	13410	14204	13765	13156	12432	11477	10438
11/17/2021	9602	9025	8729	8618	8774	9428	10583	11397	12163	12913	13632	14198	14559	14760	14792	14719	14636	14964	15315	14907	14342	13550	12645	11569
11/18/2021	10689	10106	9750	9540	9654	10243	11362	12145	12881	13658	14268	14568	14642	14564	14407	14284	14194	14468	14679	14343	13881	13210	12410	11426
11/19/2021 11/20/2021	10473 10468	9856 9814	9467 9442	9311 9243	9395 9181	9931 9364	11038 9833	11954 10657	12957 12034	13960 13248	14742 14083	15101 14564	15252 14827	15043 14951	14912 14466	14820 14265	14603 14028	14583 14154	14606 14317	14111 13874	13557 13319	12874 12852	12226	11325 11330
11/21/2021	10535	9963	9590	9346	9199	9264	9567	10327	11873	13257	14260	15045	15547	15783	15737	15541	15230	15118	15258	14688	14029	13351	12471	11380
11/22/2021	10469	9771	9305	9069	9154	9609	10404	11282	12414	13523	14443	15201	15787	16178	16184	15843	15162	14803	14864	14221	13452	12601	11631	10516
11/23/2021	9534	8873	8452	8254	8313	8736	9561	10544	11435	12020	12345	12474	12570	12652	12672	12695	12580	12737	13120	12756	12214	11521	10743	9771
11/24/2021 11/25/2021	9008 9329	8540 8737	8319 8358	8267 8168	8430 8136	8968 8368	9895 8865	10864 9781	11729	12223 12563	12501 13478	12668 14221	12743 14733	12791 14889	12699 14755	12562 14287	12500 13556	12832 12912	13126 12511	12736 11796	12225	11620 10879	10934 10352	10129 9618
11/26/2021	8967	8465	8141	8018	8068	8391	8838	9601	10728	11751	12476	12991	13395	13711	13883	13887	13629	13409	13400	12761	12132	11525	10862	9985
11/27/2021	9245	8686	8312	8140	8126	8319	8786	9607	10862	11777	12259	12576	12830	12991	13081	13034	12808	12638	12705	12147	11692	11161	10542	9777
11/28/2021 11/29/2021	9110 8714	8634 8232	8331	8180 7976	8189 8183	8360 8848	8765 10034	9573 10942	10655 11466	11506 11824	11821 12110	12185 12343	12682 12503	13025	13235	13026 13034	12811 12865	12953 13123	13352	12842 13214	12230 12619	11481 11712	10571 10816	9484 9791
11/29/2021	8/14 9026	8232 8577	7998 8373	8351	8183	8848 9327	10034	11642	11466	11824 12247	12110	12343	12503	12623 12863	12779 12986	13034	12865	13123	13592 13835	13214	12619	11/12 12081	10816	10085
12/1/2021	9383	8855	8637	8565	8719	9387	10655	11484	11975	12337	12620	12810	13150	13494	13751	13924	13907	13979	14260	13740	13114	12263	11362	10242
12/2/2021	9201	8619	8301	8165	8301	8963	10182	11043	11550	12103	12551	12923	13261	13511	13815	13896	13792	13899	14192	13711	12923	12095	11253	10177
12/3/2021 12/4/2021	9269 9418	8692 8863	8400 8519	8304 8363	8453 8378	9109 8626	10178 9185	11098 10005	11683	11995	12286	12532	12862 12958	13191 13065	13505	13637	13522	13502 13149	13583 13224	13022 12652	12555 12104	11883 11599	11148 10998	10216
12/5/2021	9418	8883	8507	8360	8378	8626	9183 8882	9544	1099	11978	12437	13536	12938	14487	13227	13292	14521	14489	13224	12632	13604	12838	11998	10211
12/6/2021	9796	9187	8848	8726	8891	9532	10669	11554	12327	13117	13949	14677	15152	15259	15168	15082	15016	15194	15565	15076	14407	13499	12399	11035
12/7/2021	9933	9264	8810	8552	8574	9104	10188	10949	11783	12604	13328	14063	14759	15360	15715	15845	15568	15365	15572	14903	14129	13154	12040	10761
12/8/2021 12/9/2021	9700 10396	9031 9653	8649 9194	8438 8967	8489 9015	9044 9561	10188 10638	11028 11522	11911 12423	12814 13376	13607 14257	14328 15067	15114 15820	15765 16452	16293 16830	16436 16915	16509 16546	16279 16339	16349 16484	15735	14986 15096	14013 14120	12896 13062	11495 11694
12/10/2021	10550	9826	9346	9109	9013	9626	10038	11707	12423	13370	14237	15654	16389	16960	17123	17186	16803	16358	16233	15398	14605	13837	12997	11094
12/11/2021	10887	10129	9620	9314	9157	9273	9650	10398	11988	13547	14673	15584	16253	16759	17096	17067	16661	16118	15830	14959	14208	13508	12704	11765
12/12/2021	10806	10066	9557	9201	9016	9039	9269	9923	11505	13238	14585	15564	16400	16938	17219	17191	16755	16310	16374	15670	14931	14049	13026	11729
12/13/2021 12/14/2021	10662	9898 9995	9477 9529	9287 9289	9386 9312	9931 9825	10958 10874	11802 11763	12764 12631	13850 13579	14802 14342	15454 14950	16165 15389	16658 15702	16902 15780	16865 15815	16523 15607	16316 15680	16626 15963	16147 15614	15338 14948	14388 14115	13255 13064	11913 11731
12/15/2021	10/0/	9995	9329	9215	9262	9823	108/4	11624	12520	13579	14342	15118	15503	15814	15827	15553	15191	15206	15543	15113	14948	13651	12731	11592
12/16/2021	10615	9913	9449	9288	9318	9852	10889	11673	12715	13857	14799	15448	15941	16324	16462	16345	15996	15719	15911	15336	14650	13868	12814	11569
12/17/2021	10483	9700	9217	8942	8948	9403	10404	11201	12393	13612	14573	15274	15838	16329	16627	16553	16237	15898	15767	14952	14331	13689	12889	11898
12/18/2021 12/19/2021	11011 11095	10370 10526	9851 9989	9532 9670	9375 9547	9503 9638	9903 9956	10608 10484	12019 11927	13558 13471	14577 14737	15395	15980 16503	16247 16833	16262 17077	16065 16905	15711 16461	15497 16098	15528 16091	14826 15451	14210 14748	13583 13927	12932 12898	11943 11627
12/20/2021	10711	9977	9509	9346	9347	9872	10668	11468	12559	13471	14737	15011	15610	16458	16644	16632	16235	16173	16418	15767	15011	14234	13215	11027
			9749	9472	9512	9940	10757	11694	12815	13828	14397	14402	14346	14293	14137	14024	13933	14297	14808	14358	13802	13086	12213	10996

12	/22/2021	10020	9256	8763	8532	8493	8933	9640	10586	11581	12235	12573	12772	12779	12815	12842	12743	12609	12849	13370	13030	12546	11863	11195	10262
12	/23/2021	9389	8842	8580	8529	8699	9214	10011	10991	11886	12298	12393	12342	12352	12516	12550	12610	12571	12692	13141	12739	12342	11646	11100	10278
12	/24/2021	9476	8881	8571	8410	8521	8816	9412	10319	11427	12185	12716	13035	13301	13595	13878	14055	13991	13876	13818	12940	12174	11480	10845	10086
12	/25/2021	9365	8854	8496	8283	8202	8307	8699	9414	10648	11714	12517	13105	13603	14000	14230	14278	13976	13448	13370	12756	12159	11633	11002	10091
12	/26/2021	9291	8690	8340	8160	8102	8212	8562	9111	10390	11624	12544	13218	13781	14227	14469	14553	14388	14136	14332	13719	12934	12222	11425	10306
12	/27/2021	9402	8786	8412	8281	8323	8677	9268	10089	11248	12286	13137	13818	14406	14931	15307	15497	15277	15004	15162	14487	13661	12809	11838	10676
12	/28/2021	9711	8996	8618	8460	8498	8841	9541	10336	11454	12523	13323	13923	14412	14778	15012	15126	15021	14870	15081	14413	13629	12822	11829	10751
12	/29/2021	9813	9175	8775	8599	8642	8970	9584	10398	11599	12880	13809	14603	15269	15814	16191	16403	16241	15885	16014	15259	14426	13596	12546	11349
12	/30/2021	10248	9563	9057	8822	8774	9086	9685	10407	11769	13183	14298	15140	15880	16473	16876	17079	16880	16414	16443	15590	14800	13917	12916	11796
12	/31/2021	10685	9911	9400	9128	9034	9116	9423	10138	11596	13155	14424	15470	16378	17093	17503	17689	17473	17004	16822	15823	14590	13559	12651	11691

Florida Power & Light Company Docket No. 2022000-0T Ten-Year Site Plan Staff's First Data Request Request No. 4 Attachment No. 1 of 1 Tab 2 of 2

TYSP Year2022Staff's Data Request #1Question No.4

-											Gu	lf Power Hourly	System Load (N	1W)										
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1/1/2021	1141	928	881	844	825	827	833	857	882	956	1034	1096	1133	1137	1113	1090	1092	1111	1182	1178	1141	1093	1044	983
1/2/2021	925	863	819	800	795	790	831	862	916	994	1063	1099	1107	1091	1079	1073	1063	1083	1178	1203	1181	1150	1108	1061
1/3/2021	1015	972	960	967	976	1008	1060	1131	1212	1263	1257	1221	1173	1118	1083	1066	1074	1131	1271	1334	1333	1325	1282	1221
1/4/2021	1173	1147	1144	1165	1204	1277	1421	1571	1630	1533	1389	1288	1192	1155	1115	1095	1100	1156	1294	1364	1344	1321	1272	1194
1/5/2021	1125	1077	1044	1029	1031	1068	1169	1302	1340	1275	1205	1153	1114	1086	1065	1052	1057	1097	1223	1285	1280	1257	1213	1151
1/6/2021	1107	1076	1087	1100	1145	1213	1364	1538	1581	1491	1415	1313	1239	1183	1136	1120	1117	1172	1325	1382	1371	1334	1266	1189
1/7/2021	1124	1085	1067	1067	1074	1106	1196	1304	1329	1322	1311	1284	1223	1175	1134	1094	1096	1156	1285	1316	1295	1249	1192	1101
1/8/2021	1041	999	995	992	1014	1057	1167	1295	1367	1402	1424	1441	1433	1426	1423	1437	1486	1563	1659	1673	1637	1595	1545	1466
1/9/2021	1410	1369	1349	1343	1351	1373	1426	1490	1554	1624	1653	1612	1530	1439	1382	1339	1346	1447	1634	1712	1739	1757	1737	1693
1/10/2021	1682	1669	1685	1704	1723	1758	1818	1880	1941	1958	1946	1884	1828	1769	1727	1688	1696	1749	1834	1834	1800	1745	1658	1545
1/11/2021	1467	1400	1386	1375	1380	1429	1532	1668	1712	1734	1715	1693	1645	1613	1592	1576	1568	1603	1689	1700	1670	1598	1528	1433
1/12/2021	1356	1314	1306	1299	1325	1376	1503	1640	1696	1688	1635	1569	1511	1482	1472	1467	1509	1587	1713	1743	1711	1675	1575	1474
1/13/2021	1398	1362	1360	1376	1405	1455	1591	1751	1810	1812	1740	1637	1512	1391	1296	1254	1267	1349	1543	1637	1643	1641	1586	1518
1/14/2021	1480	1475	1493	1519	1570	1639	1790	1947	1952	1762	1557	1416	1301	1221	1161	1128	1136	1205	1336	1386	1371	1316	1232	1134
1/15/2021	1059	996	953	932	942	977	1075	1188	1249	1244	1206	1171	1145	1127	1097	1089	1103	1156	1274	1355	1344	1339	1318	1286
1/16/2021	1260	1258	1274	1297	1327	1376	1443	1520	1584	1565	1498	1421	1332	1260	1199	1163	1175	1239	1395	1480	1497	1502	1490	1453
1/17/2021	1427	1408	1435	1454	1503	1558	1632	1731	1791	1689	1524	1391	1296	1229	1179	1152	1144	1208	1360	1417	1419	1382	1353	1296
1/18/2021	1239	1194	1187	1218	1266	1362	1496	1642	1713	1597	1450	1333	1239	1178	1134	1098	1100	1181	1335	1422	1434	1434	1394	1332
1/19/2021	1303	1298	1309	1347	1401	1487	1655	1818	1837	1639	1452	1306	1205	1147	1100	1079	1084	1127	1257	1323	1324	1288	1235	1167
1/20/2021	1120	1095	1099	1116	1144	1211	1319	1449	1450	1390	1302	1215	1130	1092	1066	1055	1063	1102	1201	1240	1211	1158	1094	1007
1/21/2021	935	894	872	870	878	915	1014	1137	1185	1159	1139	1137	1127	1122	1109	1087	1074	1117	1215	1237	1205	1147	1064	980
1/22/2021	898	843	816	804	808	828	890	993	1050	1131	1120	1140	1132	1130	1106	1083	1081	1106	1175	1179	1134	1074	1027	969
1/23/2021	901	857	819	806	804	819	863	915	972	1047	1085	1089	1076	1047	1031	1025	1025	1063	1154	1177	1142	1098	1048	1006
1/24/2021	943	906	874	864	863	870	895	940	988		1083	1080	1068	1058	1061	1048		1099	1185	1204	1169	1116	1046	961
1/25/2021 1/26/2021	880 908	824 866	798 834	780 817	787 808	815 836	891 908	994 1006	1044 1059	1072 1103	1081	1108	1105	1124	1117 1123	1115	1120	1147 1143	1228	1265	1233 1210	1168 1160	1094	995 993
1/26/2021	908	866	834 826	817 815	808	836		1006	1059	1103	1128		1145	1137		1105	1105		1225	1247		1160		993
		854 874	826			981	890			1096	1112	1145		1166	1166			1175			1198	1137	1062 1359	
1/28/2021 1/29/2021	912 1234	8/4	1232	876 1253	916 1306	1386	1116	1316	1406 1724	1414	1373	1324 1378	1258	1199	1155 1120	1120	1125	11/4	1321 1248	1411	1413 1345	1403	1339	1284 1280
1/29/2021	1253	1216	1232	1255	1306	1386	1333	1463	1/24	1620	1313	1378	1258	1095	1044	1081	1089	1059	1248	1337	1343	1343	1323	991
1/31/2021	928	866	834	803	799	792	808	861	895	974	1024	1251	1084	1095	1044	1020	1023	1039	1149	1209	1175	1110	1038	991
2/1/2021	910	889	887	916	959	1041	1187	1378	1478	1506	1507	1512	1519	1510	1498	1512	1547	1608	1729	1209	1748	1711	1635	1535
2/2/2021	1472	1442	1456	1481	1523	1611	1754	1920	1954	1853	1722	1595	1470	1310	1312	1252	1252	1319	1480	1599	1615	1602	1549	1486
2/3/2021	1443	1434	1452	1484	1525	1608	1762	1949	1951	1807	1647	1513	1358	1273	1201	1162	1161	1218	1353	1460	1468	1463	1416	1360
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2/5/2021	945	888	860	848	844	869	945	1050	1091	1127	1149	1159	1143	1135	1139	1148	1162	1218	1300	1338	1327	1308	1255	1191
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2/7/2021	1193	1140	1109	1089	1088	1111	1148	1202	1274	1371	1415	1413	1337	1257	1194	1154	1148	1191	1274	1333	1341	1346	1338	1294
2/8/2021	1235	1216	1228	1254	1287	1358	1489	1660	1652	1530	1394	1314	1238	1173	1118	1098	1078	1120	1243	1338	1307	1253	1179	1072
2/9/2021	1000	939	914	904	916	952	1028	1140	1193	1201	1191	1174	1164	1119	1110	1093	1100	1128	1220	1261	1223	1173	1094	1004
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2/11/2021	917	859	830	811	814	831	906	1011	1065	1094	1113	1125	1147	1143	1144	1136	1149	1169	1233	1260	1221	1173	1098	1005
2/12/2021	925	861	832	815	811	830	894	1006	1052	1105	1129	1145	1132	1132	1136	1135	1142	1161	1225	1243	1218	1180	1128	1060
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2/15/2021	1174	1121	1093	1084	1096	1134	1210	1310	1356	1372	1383	1387	1396	1370	1335	1332	1301	1328	1465	1551	1554	1522	1501	1452
2/16/2021	1447	1460	1519	1587	1665	1753	1916	2080	2185	2216	2199	2100	1929	1783	1660	1560	1524	1573	1766	1943	1962	1956	1910	1843
2/17/2021	1783	1775	1794	1821	1862	1940	2074	2212	2233	2197	2132	2065	1991	1851	1684	1555	1506	1541	1608	1617	1561	1479	1360	1223
2/18/2021	1112	1039	1016	1018	1042	1091	1205	1330	1377	1377	1399	1397	1382	1335	1322	1327	1335	1404	1487	1540	1522	1477	1405	1320
2/19/2021	1268	1242	1235	1258	1293	1369	1499	1674	1760	1810	1823	1791	1709	1554	1440	1345	1296	1330	1450	1594	1619	1623	1594	1564
2/20/2021	1531	1558	1579	1606	1662	1726	1830	1926	1933	1812	1656	1481	1346	1232	1143	1098	1085	1115	1210	1350	1378	1388	1394	1377
2/21/2021	1360	1352	1369	1394	1419	1455	1504	1580	1570	1486	1385	1280	1188	1126	1086	1058	1058	1104	1185	1284	1262	1198	1143	1035
2/22/2021	946	897	862	853	862	898	984	1101	1137	1138	1131	1112	1088	1080	1071	1072	1083	1103	1159	1242	1204	1141	1063	966
2/23/2021	896	858	849	873	909	988	1134	1308	1338	1277	1183	1125	1071	1056	1034	1038	1047	1072	1144	1234	1226	1194	1131	1065
2/24/2021	1010	978	990	1006	1040	1114	1240	1395	1385	1286	1177	1110	1082	1058	1057	1062	1072	1108	1154	1239	1213	1160	1098	992
2/25/2021	916	850	827	809	810	835	917	1017	1061	1079	1086	1103	1124	1148	1171	1186	1191	1205	1233	1285	1247	1183	1093	983
2/26/2021	890	831	800	768	773	799	868	970	1027	1077	1105	1147	1185	1205	1230	1235	1232	1237	1237	1269	1218	1162	1090	1015
2/27/2021	928	867	828	798	792	800	824	850	916	1004	1066	1107	1139	1135	1152	1170	1177	1198	1223	1243	1208	1154	1100	1028
2/28/2021	957	897	862	829	810	819	834	852	928	1026	1116	1176	1220	1257	1281	1302	1318	1313	1330	1377	1332	1250	1179	1058
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3/1/2021	969	902	864	839	837	855	926	1019	1089	1137	1183	1218	1234	1218	1182	1157	1132	1145	1191	1235	1195	1152	1080	984
3/2/2021	897	842	812	795	792	827	900	1020	1086	1150	1195	1244	1262	1267	1276	1280	1300	1362	1437	1464	1421	1369	1298	1195
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3/5/2021	940	895	890	908	939	988	1220	1236	1245	11244	1103	1099	1003	1038	1031	1028	1031	1078	1124	11166	1137	1090	1089	975
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3/7/2021 3/8/2021	930 995	899 974	890 970	891 983	905 1022	942 1078	1003 1220	1071 1369	1129	1151 1267	1129 1171	1077 1107	1038 1069	1010 1043	996 1038	995 1033	1012 1051	1054 1089	1108 1134	1212 1236	1202 1227	1164 1183	1117 1126	1051 1042
3/9/2021	995	974 951	970	983	1022	1078	1220	1339	1297	1207	1171	1082	1009	1043	1038	1033	1031	1089	1134	1230	1227	1183	1079	981
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3/11/2021 3/12/2021	889 902	838 832	816 807	816 793	835 796	882 825	968 912	1073 1002	1098 1052	1091 1063	1083 1078	1094	1098 1117	1113	1129	1151 1189	1178	1192 1229	1211 1228	1278 1264	1248	1187 1156	1094 1085	992 1007
3/13/2021	902	832 846	807	793	796	823	802	835	904	979	1078	103	1117	1139	1166	1189	1228	1229	1228	1264	1217 1199	1136	1085	985
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3/21/2021	925	900	887	909	931	976	1048	1123	1164	1154	1095	1052	1031	1015	1027	1020	1053	11072	1138	1193	1158	1104	1005	904
3/22/2021	835	801	789	801	826	920	1034	1088	1096	1080	1071	1061	1072	1101	1132	1166	1205	1227	1229	1260	1220	1141	1028	914
3/23/2021 3/24/2021	840 843	804 805	788 787	777 778	800 800	876 866	984 975	1029 1026	1062 1069	1086	1113 1136	1136	1138 1157	1140	1135	1151 1159	1176 1190	1211 1222	1239 1250	1239 1273	1191 1220	1114 1160	1011 1050	916 951
3/25/2021	877	836	812	814	826	898	1008	1020	1119	1113	1232	1261	1286	1306	1310	1323	1347	1356	1363	1394	1364	1287	1179	1068
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3/31/2021 4/1/2021	972 882	921 835	896 806	886 805	906 832	967 922	1075	1139 1144	1209 1182	1271 1184	1362 1156	1419 1127	1468 1091	1523	1573 1037	1607 1040	1618 1059	1610 1089	1567	1492	1400 1223	1260 1176	1112	974 1028
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	022	800	774	805	040	744	1007	1110		1105	1077	1075	1105	1115				1200	1207	1204	1257	1101		
4/6/2021	840	797	778	775	804	886	988	1055	1085	1101	1122	1125	1160	1198	1235	1277	1318	1344	1307	1319	1286	1196	1083	969
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4/7/2021 4/8/2021	881 944	839 887	806 859	800 848	825 860	898 919	994 1016	1058 1095	1112 1151	1157 1195	1196 1222	1235 1235	1267 1265	1311 1299	1354 1338	1384 1381	1407 1432	1434 1456	1403 1438	1412 1444	1373 1410	1280 1319	1163 1196	1031 1074
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4/7/2021 4/8/2021 4/9/2021 4/10/2021 4/11/2021	881 944 976 941 874	839 887 928 890 825	806 859 898 856 793	800 848 884 846 774	825 860 905 857 784	898 919 955 862 801	994 1016 1058 874 823	1058 1095 1124 908 879	1112 1151 1157 979 967	1157 1195 1185 1005 1042	1196 1222 1220 1059 1087	1235 1235 1222 1090 1120	1267 1265 1204 1091 1139	1311 1299 1201 1083 1152	1354 1338 1194 1063 1197	1384 1381 1194 1065 1269	1407 1432 1223 1095 1334	1434 1456 1223 1132 1368	1403 1438 1219 1148 1347	1412 1444 1239 1174 1332	1373 1410 1223 1170 1287	1280 1319 1180 1103 1191	1163 1196 1105 1032 1060	1031 1074 1018 948 940
4/7/2021 4/8/2021 4/9/2021 4/10/2021 4/11/2021 4/12/2021	881 944 976 941 874 845	839 887 928 890 825 797	806 859 898 856 793 759	800 848 884 846 774 755	825 860 905 857 784 773	898 919 955 862 801 840	994 1016 1058 874 823 938	1058 1095 1124 908 879 988	1112 1151 1157 979 967 1025	1157 1195 1185 1005 1042 1050	1196 1222 1220 1059 1087 1094	1235 1235 1222 1090 1120 1147	1267 1265 1204 1091 1139 1195	1311 1299 1201 1083 1152 1268	1354 1338 1194 1063 1197 1328	1384 1381 1194 1065 1269 1375	1407 1432 1223 1095 1334 1405	1434 1456 1223 1132 1368 1416	1403 1438 1219 1148 1347 1391	1412 1444 1239 1174 1332 1357	1373 1410 1223 1170 1287 1302	1280 1319 1180 1103 1191 1186	1163 1196 1105 1032 1060 1050	1031 1074 1018 948 940 930
4/7/2021 4/8/2021 4/9/2021 4/10/2021 4/11/2021	881 944 976 941 874	839 887 928 890 825	806 859 898 856 793	800 848 884 846 774	825 860 905 857 784	898 919 955 862 801	994 1016 1058 874 823	1058 1095 1124 908 879	1112 1151 1157 979 967	1157 1195 1185 1005 1042	1196 1222 1220 1059 1087	1235 1235 1222 1090 1120	1267 1265 1204 1091 1139	1311 1299 1201 1083 1152	1354 1338 1194 1063 1197	1384 1381 1194 1065 1269	1407 1432 1223 1095 1334	1434 1456 1223 1132 1368	1403 1438 1219 1148 1347	1412 1444 1239 1174 1332	1373 1410 1223 1170 1287	1280 1319 1180 1103 1191	1163 1196 1105 1032 1060	1031 1074 1018 948 940
4/7/2021 4/8/2021 4/10/2021 4/11/2021 4/11/2021 4/12/2021 4/13/2021 4/14/2021 4/15/2021	881 944 976 941 874 845 840 885 885 898	839 887 928 890 825 797 798 839 847	806 859 898 856 793 759 781 811 831	800 848 884 774 755 765 798 812	825 860 905 857 784 773 784 818 833	898 919 955 862 801 840 851 877 891	994 1016 1058 874 823 938 954 973 1000	1058 1095 1124 908 879 988 1002 1031 1072	1112 1151 1157 979 967 1025 1040 1093 1124	1157 1195 1185 1005 1042 1050 1075 1159 1161	1196 1222 1020 1059 1087 1094 1137 1223 1192	1235 1235 1222 1090 1120 1147 1202 1279 1183	1267 1265 1204 1091 1139 1195 1267 1314 1173	1311 1299 1201 1083 1152 1268 1327 1303 1165	1354 1338 1194 1063 1197 1328 1345 1266 1156	1384 1381 1194 1065 1269 1375 1347 1249 1166	1407 1432 1223 1095 1334 1405 1338 1259 1168	1434 1456 1223 1132 1368 1416 1336 1260 1193	1403 1438 1219 1148 1347 1391 1323 1262 1214	1412 1444 1239 1174 1332 1357 1336 1272 1258	1373 1410 1223 1170 1287 1302 1306 1249 1228	1280 1319 1180 1103 1191 1186 1207 1179 1163	1163 1196 1105 1032 1060 1050 1076 1075 1055	1031 1074 1018 948 940 930 970 967 956
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5/14/2021	880	826	786	784	804	865	945	1011	1068	1116	1143	1186	1228	1283	1348	1413	1462	1476	1437	1351	1307	1224	1113	999
5/15/2021	896	839	796	789	789	797	821	900	990	1070	1121	1170	1226	1273	1333	1393	1445	1477	1444	1354	1318	1226	1121	1007
5/16/2021 5/17/2021	912 935	845 872	813 837	794 835	790 842	798 910	821 996	893 1093	1009 1189	1109 1272	1173 1347	1237 1423	1297 1489	1360 1547	1427 1583	1474 1630	1522 1670	1552 1661	1505 1620	1436 1551	1394 1515	1305 1404	1168 1275	1033 1134
5/18/2021	1019	981	931	922	939	1014	1102	1192	1295	1372	1442	1502	1551	1578	1612	1637	1679	1652	1616	1553	1535	1433	1301	1171
5/19/2021	1083	1025	995	987	990	1039	1118	1203	1292	1372	1437	1503	1564	1607	1650	1679	1720	1732	1693	1610	1577	1471	1342	1197
5/20/2021	1128	1047	999	986	977	1021	1118	1202	1285	1374	1454	1521	1580	1622	1666	1705	1741	1749	1707	1624	1582	1476	1333	1200
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5/23/2021	1024	952	902	875	860	874	892	989	1148	1292	1397	1496	1586	1651	1704	1766	1819	1822	1760	1660	1604	1486	1336	1175
5/24/2021	1055	974	928	907	919	969	1060	1164	1298	1410	1516	1617	1698	1754	1799	1845	1890	1894	1836	1733	1651	1521	1357	1206
5/25/2021	1081	1007	952	928	928	978	1056	1167	1285	1399	1524	1635	1725	1794	1851 1874	1886	1908	1899	1843	1731	1667	1540	1368	1204
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6/12/2021	1436	1364	1308	1223	1240	1207	1299	1435	1582	1710	1812	1928	1979	1986	1934	1928	1876	1798	1769	1687	1635	1/94	1480	1356
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6/14/2021	1253	1175	1116	1081	1092	1119	1204	1335	1485	1644	1792	1932	2029	2113	2159	2225	2225	2204	2167	2060	1982	1870	1695	1548
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6/24/2021	1343	1271	1213	1181	1171	1207	1276	1401	1557	1710	1848	1966	2036	2029	1991	1908	1889	1897	1873	1813	1745	1635	1511	1380
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6/27/2021	1339	1245	1180	1142	1139	1129	1154	1265	1414	1565	1673	1766	1832	1782	1734	1711	1753	1795	1790	1750	1737	1661	1544	1408
6/28/2021	1290	1211	1164	1138	1141	1185	1251	1370	1529	1673	1807	1890	1951	2005	2043	2032	2033	2025	1974	1886	1847	1745	1608	1446
6/29/2021	1315	1232	1172	1146	1137	1191	1246	1382	1539	1693	1834	1954	2046	2072	2068	2017	1969	1964	1940	1877	1832	1724	1569	1429
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7/7/2021	1240	1155	1100	1077	1075	1118	1172	1270	1373	1486	1620	1730	1830	1876	1894	1876	1869	1828	1792	1735	1718	1641	1519	1380
7/8/2021	1259	1180	1142	1115	1122	1163	1232	1344	1460	1582	1716	1842	1957	2048	2103	2127	2120	2082	2027	1959	1925	1837	1718	1580
7/9/2021 7/10/2021	1469 1267	1394	1341	1307 1161	1325 1166	1374	1416 1206	1513	1621	1716 1497	1822	1912	1995 1787	2082 1774	2131 1727	2085 1728	1967 1775	1823	1729	1660	1630 1692	1576 1618	1488 1525	1371 1412
7/10/2021 7/11/2021	1267	1197 1252	1164 1213	1161 1187	1166	1192 1176	1206	1264 1253	1383 1370	1497 1497	1668 1657	1776 1780	1787	1774 1805	1727	1728	1775 1861	1783	1756 1768	1712	1692	1618	1525	1412 1319
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7/13/2021	1221	1158	1103	1081	1086	1115	1185	1305	1431	1568	1713	1844	1952	2031	2070	2077	2109	2124	2094	1995	1923	1817	1658	1489
7/14/2021	1338	1251	1192	1161	1152	1190	1247	1382	1537	1692	1846	1960	2066	2130	2185	2227	2226	2202	2124	2027	1953	1834	1673	1517
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7/17/2021	1307	1317	1224	1214	1109	1220	1276	1341	1525	1685	1832	1953	2011	2067	2086	2098	2013	2098	2013	1928	1909	1812	1679	1542
7/18/2021	1404	1319	1256	1210	1177	1180	1188	1286	1436	1587	1695	1710	1732	1758	1798	1847	1929	1950	1924	1861	1818	1738	1615	1476
7/19/2021	1364	1289	1246	1233	1226	1258	1312	1422	1558	1681	1758	1843	1908	1927	1980	2011	1986	1929	1900	1831	1773	1673	1540	1406
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7/22/2021	1324	1411	1359	1324	1323	1350	1285	1527	1687	1840	1980	2091	2188	2268	2321	2345	2368	2369	23134	2000	2136	2033	1895	1745
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7/24/2021	1461	1360	1303	1259	1227	1235	1225	1322	1483	1652	1814	1961	2058	2127	2162	2153	2148	2171	2134	2047	1985	1888	1761	1617
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7/26/2021	1309	1416	1344	1309	1303	1345	1391	1493	1646	1818	1963	2078	2178	2269	2346	2403	2424	2424	2351	2248	2194	2069	1893	1734

7/27/2021	1599	1501	1437	1387	1376	1397	1431	1527	1697	1857	2023	2160	2283	2349	2406	2441	2403	2306	2194	2054	1970	1854	1717	1570
7/28/2021	1445	1374	1314	1293	1281	1319	1358	1457	1572	1761	1909	2050	2101	2159	2171	2111	2073	2016	1960	1888	1829	1719	1586	1443
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7/31/2021	1669	1555	1478	1421	1396	1401	1389	1497	1670	1865	2027	2135	2217	2271	2308	2340	2365	2356	2270	2147	2018	1869	1703	1562
8/1/2021	1447	1363	1303	1257	1251	1241	1244	1338	1546	1746	1903	2049	2150	2241	2303	2318	2357	2350	2259	2182	2116	2011	1876	1739
8/2/2021 8/3/2021	1616 1319	1528 1257	1466 1214	1427 1187	1420 1194	1444 1236	1476 1302	1571 1364	1716 1442	1864 1534	2028 1636	2154 1734	2250 1851	2271 1924	2230 1902	2208 1865	2214 1858	2152 1867	2025 1847	1906 1791	1815 1759	1697 1662	1563 1534	1430 1402
8/4/2021	1281	1217	1169	1159	1168	1207	1269	1360	1499	1634	1784	1895	1946	1967	1945	1887	1845	1805	1773	1722	1695	1601	1481	1357
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8/6/2021 8/7/2021	1351 1437	1257 1342	1197 1267	1168	1163 1210	1195 1200	1241 1216	1339 1309	1472 1492	1610 1660	1708 1808	1842 1930	1939 2024	2034 2081	2102 2111	2148 2127	2171 2153	2141 2153	2054 2092	1973 2000	1908 1940	1809 1828	1702 1703	1560 1568
8/8/2021	1440	1350	1281	1220	1218	1219	1223	1331	1535	1713	1860	1950	2070	2133	2191	2247	2250	2206	2142	2076	2015	1897	1759	1594
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8/10/2021 8/11/2021	1466 1390	1371 1310	1309 1263	1276 1234	1281 1243	1332 1296	1385 1365	1486 1455	1647 1582	1813 1745	1968 1895	2094 1991	2202 2031	2295 2059	2363 2103	2390 2145	2377 2201	2300 2215	2218 2162	2127 2070	2043 1997	1881 1866	1664 1707	1505 1547
8/12/2021	1418	1329	1280	1250	1249	1290	1356	1451	1585	1708	1846	1915	1975	1950	1872	1842	1855	1876	1856	1815	1781	1675	1542	1395
8/13/2021	1288	1210	1164	1149	1153	1211	1272	1362	1500	1659	1816	1968	2080	2162	2225	2247	2222	2191	2108	2008	1925	1809	1685	1537
8/14/2021 8/15/2021	1412 1318	1317 1231	1255	1219	1196	1214 1142	1212 1147	1313 1239	1500 1405	1688 1582	1860 1754	2017 1890	2115 1970	2174 1981	2201 1968	2205 1987	2189 2004	2088 1999	1936 1959	1853 1889	1779 1813	1680 1703	1548	1425 1428
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8/20/2021	1462	1390	1343	1287	1295	1330	1394	1499	1619	1769	1908	2058	2099	2056	2021	1937	1872	1809	1736	1703	1658	1578	1484	1377
8/21/2021	1285	1208	1159	1133	1130	1158	1169	1227	1338	1487	1653	1786	1866	1889	1905	1908	1922	1939	1897	1863	1799	1688	1584	1459
8/22/2021 8/23/2021	1353 1493	1285 1415	1238 1353	1208	1206 1322	1226 1368	1221 1427	1287 1467	1434 1568	1606 1678	1755 1819	1900 1960	2009 2091	2095 2166	2167 2219	2213 2232	2243 2156	2242 2061	2186 1990	2120 1940	2045 1892	1917 1771	1774 1633	1620 1496
8/24/2021	1401	1311	1254	1323	1247	1295	1365	1452	1560	1708	1871	2012	2091	2132	2196	2232	2150	2112	2042	1945	1918	1792	1647	1490
8/25/2021	1407	1346	1308	1276	1290	1339	1404	1494	1613	1734	1873	1963	2009	2014	1942	1895	1840	1846	1846	1812	1759	1661	1515	1393
8/26/2021 8/27/2021	1281 1305	1210 1249	1178 1197	1150	1155	1210 1235	1287 1307	1350 1387	1468 1474	1604 1535	1739 1589	1865	1991 1813	2074 1941	2137 2032	2193 2115	2208 2126	2144 2094	2055 2021	1955 1936	1850 1830	1706 1683	1548 1547	1420 1424
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9/1/2021	1442	1380	1312	1282	1272	1313	1371	1435	1560	1703	1856	1995	2104	2157	2183	2206	2171	2081	1999	1960	1898	1768	1581	1417
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9/5/2021	1348	1258	1209	1174	1154	1150	1154	1228	1397	1558	1716	1839	1938	1974	1997	2008	2009	1995	1928	1870	1787	1678	1578	1452
9/6/2021	1339	1260	1197	1166	1143	1154	1170	1231	1416	1599	1760	1891	1997	2064	2120	2148	2152	2123	2029	1961	1854	1710	1550	1409
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9/11/2021 9/12/2021	1103 1279	1039 1194	985 1148	959 1116	952 1101	957 1107	977 1113	1019	1139 1309	1281 1457	1424 1610	1562 1759	1696 1870	1816 1940	1885 1944	1944 1929	1939 1910	1913 1877	1842 1811	1793 1775	1701 1684	1613 1574	1503 1438	1395 1310
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9/14/2021	1243	1192	1162	1140	1147	1202	1289	1324	1389	1464	1556	1634	1700	1707	1725	1692	1710	1702	1702	1680	1613	1512	1386	1274
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9/22/2021 9/23/2021	1310 990	1227	1184 894	1152 874	1147 864	1202 912	1283 986	1333 1034	1425 1080	1480	1554	1609 1179	1688 1240	1753 1297	1796 1367	1818 1443	1814 1484	1757 1487	1657 1429	1604	1471	1361	1217 1094	1096 982
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10/9/2021	1118	1044	991	966	948	964	984	1035	1164	1275	1394	1508	1623	1711	1781	1835	1862	1815	1724	1647	1541	1444	1329	1226
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10/30/2021 10/31/2021	828 826	785 786	776	771 769	782 776	803 793	850 835	888 868	952 939	987 975	1000 985	1015	1010 1020	1003	1005	1017 1138	1034 1176	1065	1109	1083 1097	1049 1096	1000 1042	944 964	882 878
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11/4/2021 11/5/2021	821 821	802 793	803 781	796 781	827 808	891 883	1019 993	1062 1053	1078	1084 1102	1080 1106	1078	1085 1079	1095	1107 1049	1124 1057	1133 1071	1170 1119	1223	1197	1147 1153	1065	969 1055	880 980
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11/7/2021	934	903	915	907	925	955	1006	1082	1130	1143	1095	1050	1014	998	988	1019	1046	1104	1176	1185	1141	1110	1033	964
11/8/2021 11/9/2021	909	879	882 857	887	916	965	1084	1216	1223	1158	1104 1059	1067	1053	1059	1065	1090	1109	1138	1238	1239	1184	1136	1055	964 972
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11/14/2021 11/15/2021	1022 979	998 947	987 932	997 943	1018 955	1058 1004	1110 1111	1190 1224	1231 1227	1222 1179	1160 1095	1122 1081	1056 1063	1038 1063	1029 1070	1031 1090	1058 1108	1123 1149	1230 1259	1245 1249	1233 1208	1174 1157	1120 1096	1051 1011
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11/15/2021 11/16/2021 11/17/2021 11/18/2021 11/19/2021 11/20/2021	979 948 925 932 931 988	947 902 894 881 866 932	932 894 870 850 827 916	943 894 869 837 810 903	955 910 878 838 820 907	1004 964 914 867 849 926	1111 1061 991 942 943 972	1224 1178 1076 1027 1043 1022	1227 1186 1103 1047 1102 1070	1179 1140 1080 1079 1077 1075	1095 1098 1086 1099 1087 1092	1081 1084 1103 1142 1077 1065	1063 1089 1135 1184 1061 1055	1063 1095 1172 1242 1079 1055	1070 1120 1200 1282 1059 1072	1090 1142 1218 1281 1080 1094	1108 1164 1245 1286 1106 1119	1149 1188 1244 1287	1259 1266 1297 1346	1249 1265 1305 1323 1193 1191	1208 1230 1256 1277 1159 1158	1157 1171 1196 1212 1117 1135	1096 1093 1122 1137 1114 1066	1011 1000 1009 1024 1041 1009
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11/15/2021 11/16/2021 11/17/2021 11/18/2021 11/19/2021 11/20/2021 11/20/2021 11/22/2021	979 948 925 932 931 988 947 909	947 902 894 881 866 932	932 894 870 850 827 916 861 824	943 894 869 837 810 903	955 910 878 838 820 907 840 821	1004 964 914 867 849 926 851 841	1111 1061 991 942 943 972	1224 1178 1076 1027 1043 1022 907 988	1227 1186 1103 1047 1102 1070	1179 1140 1080 1079 1077 1075	1095 1098 1086 1099 1087 1092 1046 1131	1081 1084 1103 1142 1077 1065	1063 1089 1135 1184 1061 1055	1063 1095 1172 1242 1079 1055 1100 1131	1070 1120 1200 1282 1059 1072 1124 1120	1090 1142 1218 1281 1080 1094	1108 1164 1245 1286 1106 1119	1149 1188 1244 1287 1133 1146	1259 1266 1297 1346 1209 1208	1249 1265 1305 1323 1193 1191	1208 1230 1256 1277 1159 1158 1205 1199	1157 1171 1196 1212 1117 1135 1130 1157	1096 1093 1122 1137 1114 1066 1055 1099	1011 1000 1009 1024 1041 1009 1004 1032
11/15/2021 11/16/2021 11/17/2021 11/18/2021 11/19/2021 11/20/2021 11/20/2021	979 948 925 932 931 988 947	947 902 894 881 866 932 885 858	932 894 870 850 827 916 861	943 894 869 837 810 903 845 811	955 910 878 838 820 907 840	1004 964 914 867 849 926 851	1111 1061 991 942 943 972 875 909	1224 1178 1076 1027 1043 1022 907	1227 1186 1103 1047 1102 1070 963 1051	1179 1140 1080 1079 1077 1075 1004 1076	1095 1098 1086 1099 1087 1092 1046	1081 1084 1103 1142 1077 1065 1058 1128	1063 1089 1135 1184 1061 1055 1068 1119	1063 1095 1172 1242 1079 1055 1100	1070 1120 1200 1282 1059 1072 1124	1090 1142 1218 1281 1080 1094 1153 1130	1108 1164 1245 1286 1106 1119 1178 1139	1149 1188 1244 1287 1133 1146 1181 1163	1259 1266 1297 1346 1209 1208 1254 1236	1249 1265 1305 1323 1193 1191 1239 1253	1208 1230 1256 1277 1159 1158 1205	1157 1171 1196 1212 1117 1135 1130	1096 1093 1122 1137 1114 1066 1055	1011 1000 1009 1024 1041 1009 1004
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1334 1135 1128 1008 1105	1070 1120 1202 1282 1059 1072 1124 1129 1092 1068 1146 1002 1044 1178 1077 1068 1060 1097 1113 1114 1206 1118 1165 1131 1341 1408 1071 1125 1087 1133 1183	1090 1142 1218 1281 1281 1281 130 1094 1153 1153 1153 1097 1052 1115 1012 1037 1176 1073 1074 1125 1128 1129 1109 1109 1109 1109 1109 1109 1109	1108 1164 1245 1286 1106 1119 1178 1079 1140 1147 1155 1157 1	1149 1188 1244 1287 1133 1146 1181 1163 1207 1166 1074 1079 1120 1223 1175 1165 1153 1178 1163 1153 1177 1252 1174 1206 1218 1336 1153 1165 1218 1226 1121 12252 1174 1206 1218 1322 1104 1190 1218 1285	1259 1266 1297 1208 1209 1208 1254 1236 1318 1257 1117 1179 1204 1304 1309 1287 1255 1258 1255 1258 1255 1258 1255 1258 1255 1258 1255 1258 1209 1287 1293 1285 1285 1285 1285 1285 1285 1285 1285	1249 1265 1305 1323 1193 1191 1233 1351 1268 1094 1207 1301 1356 1207 1301 1356 1207 1301 1356 1227 1258 1211 1186 1259 1297 1289 1297 1289 1291 1389 1333 1261 1277 1300 1277 1370 1277 1370 1277 1370 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1277 1330 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1297 1289 1291 1389 1333 1265 1277 1277 1277 1289 1291 1389 1333 1265 1277 1277 1289 1291 1389 1333 1265 1277 1277 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1291 1289 1295 1177 1277 1300 1277 1277 1300 1277 1300 1277 1277 1300 1289 1399 1390 1300	1208 1230 1256 1277 1159 1158 1205 1345 1251 1277 1354 1317 1247 1247 1237 1167 1255 1255 1255 1255 1255 1255 1255 125	1157 1171 1196 1212 1117 1135 1130 1157 11331 1234 1049 1192 1187 1229 1330 1229 1204 1184 1127 1116 1191 1197 1210 1218 1298 1181 1213 1206 1100 1189 1226 1100 1189 1226 1100 1189 1226 1100 1189 1226 1268	1096 1093 1122 1121 1114 1066 1059 1294 1196 1011 1170 1133 1146 1269 1234 1144 1117 1068 1059 1091 1101 1123 1025 1122 1124 1125 1201	1011 1000 1009 1024 1041 1009 1024 1041 1032 1221 1142 950 1032 1221 1142 950 1059 1202 1156 1041 1025 1003 999 991 1007 1034 1040 1043 10440 1045 1007 1034 1040 1043 1044 1056 1027 926 1027 1056 1092 1114

12/22/2021	1193	1152	1130	1130	1158	1212	1321	1437	1466	1411	1326	1249	1164	1113	1097	1080	1102	1159	1290	1326	1321	1311	1277	1223
12/23/2021	1178	1147	1156	1168	1213	1278	1386	1501	1542	1478	1361	1262	1166	1095	1065	1051	1074	1135	1248	1285	1288	1289	1268	1223
12/24/2021	1177	1135	1111	1115	1119	1160	1224	1284	1305	1271	1207	1132	1092	1066	1071	1080	1100	1125	1182	1168	1137	1114	1067	1021
12/25/2021	959	901	868	846	843	849	878	917	981	1026	1052	1082	1106	1123	1130	1122	1125	1114	1152	1134	1104	1069	1034	968
12/26/2021	901	843	803	785	778	785	813	835	873	948	1009	1070	1107	1137	1162	1176	1188	1178	1249	1243	1198	1157	1092	1011
12/27/2021	924	858	821	796	795	811	856	920	970	1030	1102	1143	1186	1203	1226	1240	1249	1256	1334	1324	1286	1230	1158	1071
12/28/2021	981	913	870	833	837	847	894	952	1007	1084	1171	1235	1287	1325	1337	1339	1323	1329	1394	1377	1323	1267	1194	1108
12/29/2021	1021	956	910	884	877	887	928	977	1046	1132	1216	1286	1323	1329	1336	1337	1343	1348	1417	1419	1365	1318	1257	1177
12/30/2021	1071	1004	947	914	898	916	951	1014	1066	1152	1242	1316	1369	1387	1390	1397	1396	1390	1458	1441	1384	1328	1268	1187
12/31/2021	1100	1020	969	931	911	914	931	966	1007	1115	1219	1310	1369	1422	1441	1438	1419	1424	1483	1454	1388	1328	1267	1207

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 5 Attachment No. 1 of 1 Tab 1 of 2

TYSP Year	2022
Staff's Data Request #	1
Question No.	5

			FPL				
		Actual	Demand	Estimated			System- Average
Year	Month	Peak	Response	Peak	Day	Hour	Temperatur
i cai	Wonth	Demand	Activated	Demand	Day	11001	
		(MW)	(MW)	(MW)			(Degrees F)
	1	16284	0	16284	27	1600	83
	2	18503	0	18503	15	1600	83
	3	20031	0	20031	31	1700	84
	4	21074	0	21074	29	1700	86
	5	22962	0	22962	5	1700	89
5	6	22373	0	22373	21	1700	89
2021	7	23845	0	23845	22	1700	89
	8	24042	0	24042	19	1700	91
	9	22350	0	22350	6	1700	87
	10	22485	0	22485	7	1700	86
	11	17062	0	17062	13	1600	80
	12	17848	0	17848	31	1600	80
	1	17514	0	17514	22	0900	44
	2	18429	0	18429	19	1600	83
	3	20602	0	20602	30	1700	85
	4	21594	0	21594	14	1700	88
	5	21932	0	21932	28	1600	86
8	6	24499	0	24499	24	1700	91
2020	7	24483	0	24483	9	1700	94
	8	24166	0	24166	28	1600	91
	9	24493	0	24493	3	1600	91
	10	22214	0	22214	7	1700	87
	11	19496	0	19496	1	1600	83
	12	15773	0	15773	16	1900	75
	1	16795	0	16795	4	1500	82
	2	18660	0	18660	18	1600	83
	3	18963	0	18963	11	1700	82
	4	20106	0	20106	30	1700	84
	5	22580	0	22580	31	1700	88
0	6	24241	0	24241	25	1600	93
2019	7	23578	0	23578	2	1600	94
	8	22861	0	22861	21	1700	87
	9	23653	0	23653	6	1700	93
	10	21776	0	21776	21	1600	88
	11	19855	0	19855	7	1500	86
	12	17249	0	17249	17	1500	83

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TYSP Year	2022
Staff's Data Request #	1
Question No.	5

			GULF				
		Actual	Demand	Estimated			System- Average
Year	Month	Peak	Response	Peak	Day	Hour	Temperature
		Demand	Activated	Demand			
		(MW)	(MW)	(MW)			(Degrees F)
	1	1958	0	1958	10	1000	37
	2	2233	0	2233	17	0900	32
	3	1618	0	1618	31	1800	78
	4	1712	0	1712	29	1800	78
	5	1950	0	1950	27	1800	78
21	6	2225	0	2225	14	1700	91
2021	7	2441	0	2441	27	1700	93
	8	2390	0	2390	10	1700	93
	9	2206	0	2206	1	1700	87
	10	2022	0	2022	15	1700	85
	11	1534	0	1534	30	0900	51
	12	1542	0	1542	23	1000	48
	1	2129	0	2129	22	0700	32
	2	1768	0	1768	28	0700	39
	3	1760	0	1760	29	1700	83
	4	1807	0	1807	9	1700	85
	5	2077	0	2077	31	1700	91
2020	6	2318	0	2318	30	1700	92
20	7	2392	0	2392	20	1600	92
	8	2410	0	2410	3	1700	91
	9	2394	0	2394	5	1700	94
	10	2076	0	2076	7	1600	88
	11	1666	0	1666	11	1400	79
	12	2068	0	2068	18	0800	41
	1	2066	0	2066	30	0800	38
	2	1564	0	1564	1	0800	48
	3	1885	0	1885	6	0700	37
	4	1734	0	1734	30	1700	78
	5	2260	0	2260	31	1700	89
61	6	2444	0	2444	25	1600	95
2019	7	2426	0	2426	5	1600	94
	8	2374	0	2374	14	1500	82
	9	2472	0	2472	5	1700	95
	10	2284	0	2284	3	1600	92
	11	1951	0	1951	13	0700	30
	12	1862	0	1862	19	0700	35
Notes							
(Include Notes Here)							

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TOTAL AVERAGE ANNUAL CUSTOMERS

		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
YEAR	ACTUAL	2000-2009	2001-2010	2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2018	2010-2019	2011-2020	2012-2021	2013-2022	2014-2023	2015-2024	2016-2025	2017-2026	2018-2027	2019-2028	2020-2029	2021-2030	
2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2017 2018 2019 2020	3,935,281 4,019,805 4,117,221 4,224,509 4,321,895 4,409,563 4,496,589 4,499,067 4,599,730 4,499,067 4,520,328 4,547,051 4,576,449 4,626,934 4,708,829 4,626,934 4,775,382 4,840,279 4,840,279 4,901,886 4,961,530 5,016,895 5,214,263	4,173,128 4,237,565 4,301,324 4,365,419	3,916,098 3,994,394 4,070,533 4,144,253 4,215,407 4,283,592 4,348,927 4,411,879 4,473,566 4,534,280	4,079,038 4,151,237 4,225,960 4,299,491 4,365,095 4,428,309 4,490,271	4,385,245 4,455,713 4,521,322 4,587,137 4,652,864	4,241,326 4,315,007 4,385,245 4,455,713 4,521,322 4,587,137 4,652,864	4,371,957 4,451,957 4,530,979 4,609,035 4,686,707 4,764,184 4,841,299	4,416,737 4,501,569 4,586,391 4,669,120 4,751,183 4,830,124 4,906,292 4,981,014 5,055,556 5,129,818	4,498,169 4,590,561 4,683,749 4,775,460 4,864,831 4,951,957 5,037,427 5,121,200 5,203,742 5,203,732	4,708,603 4,796,344 4,880,891 4,960,871 5,039,871 5,119,700 5,200,465	4,519,986 4,548,763 4,607,754 4,806,155 4,904,959 5,003,480 5,101,804 5,109,999 5,298,111	4,501,332 4,530,367 4,572,470 4,637,017 4,710,393 4,780,922 4,849,624 4,916,211 4,981,479 5,045,779	4,549,837 4,594,191 4,663,131 4,722,529 4,821,867 4,896,672 4,966,672 5,032,864 5,032,864 5,161,981	4,579,174 4,625,149 4,687,365 4,760,867 4,837,621 4,909,988 4,979,439 5,048,794 5,117,793 5,185,756	5,124,207	4,852,827 4,922,918 4,991,659			5,047,004 5,113,137	4,968,013 5,029,772 5,090,154 5,150,364	5,110,601		5,188,943	
												ST ERROF CENT)	R											
YEAR	ACTUAL	2001	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
2001 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2017 2018 2019 2020 2021	3,935,281 4,019,805 4,117,221 4,224,509 4,321,895 4,409,563 4,409,563 4,409,067 4,520,328 4,547,051 4,576,449 4,576,525 5,136,995 5,214,263	$\begin{array}{c} 1.0\% \\ 1.3\% \\ 2.9\% \\ 3.6\% \\ 4.1\% \\ 4.5\% \\ 3.3\% \\ 1.6\% \end{array}$	0.5% 0.6% 1.1% 2.5% 2.9% 3.4% 2.2% 0.6% -0.3%	0.4% 0.9% 1.8% 2.6% 3.0% 1.8% 0.2% -0.7% -1.4%	0.5% 1.3% 1.9% 2.2% 1.2% -0.5% -1.5% -3.0%	1.3% 1.9% 2.2% 1.2% -0.5% -1.5% -2.3% -3.0% -3.3%	0.6% 0.9% 1.0% -2.4% -3.6% -4.6% -5.5% -5.5% -5.5%	-0.2% -0.1% -3.6% -3.9% -5.9% -6.7% -6.7% -6.9%	0.0% -1.8% -3.9% -5.3% -6.5% -7.6% -8.1% -8.1% -8.2% -8.4%	-1.0% -2.8% -4.0% -5.2% -6.2% -6.7% -6.6% -6.7% -6.9% -7.2%	-0.5% -0.6% -1.3% -2.8% -3.7% -4.0% -4.6% -5.1% -6.4%	0.4% 0.4% 0.1% 0.0% -0.1% -0.2% -0.3% -0.3% 0.3%	-0.1% -0.4% -0.7% -1.0% -1.2% -1.3% -1.4% -0.7% -0.5%	-0.1% 0.0% 0.5% 0.3% 0.3% -0.2% -0.4% 0.3% 0.4%	0.2% 0.1% 0.1% -0.2% -0.5% 0.1% 0.2% 0.5%	0.6% -0.1% -0.3% -0.4% -0.6% 0.1% 0.3%	0.0% -0.2% -0.4% -0.6% 0.1% 0.2%	-0.1% -0.3% -0.6% 0.0% 0.2%	-0.2% -0.4% 0.3% 0.5% 0.7%	-0.1% 0.6% 0.9% 1.2%	0.2% 0.5% 0.9%	0.4% 0.9%	0.5%	
	1 yr 2 yr 3 yr 5 yr 6 yr 6 yr 7 yr 9 yr 10 yr	1.0% 1.3% 2.9% 3.6% 4.1% 4.5% 3.3% 1.6%	0.5% 0.6% 1.1% 1.9% 2.5% 2.9% 3.4% 2.2% 0.6% -0.3%	0.4% 0.9% 1.8% 2.6% 3.0% 1.8% 0.2% -0.7% -1.4%	0.5% 1.3% 1.9% 2.2% 2.5% 1.2% -0.5% -1.5% -2.3% -3.0%	1.3% 1.9% 2.2% 2.5% 1.2% -0.5% -1.5% -2.3% -3.0% -3.3%	0.6% 0.9% 1.0% -0.5% -2.4% -3.6% -4.6% -5.5% -5.9% -5.7%	-0.2% -0.1% -3.6% -3.6% -4.9% -5.9% -6.7% -7.1% -6.9% -6.9%	0.0% -1.8% -3.9% -5.3% -6.5% -7.6% -8.1% -8.1% -8.2% -8.4%	-2.8% -4.0% -5.2% -6.2% -6.7% -6.6% -6.7% -6.9%	-0.5% -0.6% -1.3% -2.8% -3.7% -4.0% -4.6% -5.1% -5.7% -6.4%	0.4% 0.4% -0.2% 0.0% -0.1% -0.2% -0.3% -0.4% 0.3%	-0.1% -0.4% -0.8% -0.7% -1.0% -1.2% -1.3% -1.4% -0.7% -0.5%	-0.1% 0.0% 0.5% 0.3% 0.1% -0.2% -0.4% 0.3% 0.4% 0.5%	0.2% 0.1% 0.0% -0.2% -0.5% 0.1% 0.2% 0.5%	$\begin{array}{c} 0.6\% \\ -0.1\% \\ -0.3\% \\ -0.4\% \\ -0.6\% \\ 0.1\% \\ 0.3\% \\ 0.6\% \end{array}$	0.0% -0.2% -0.4% -0.6% 0.1% 0.2%	-0.1% -0.3% -0.6% 0.0% 0.0% 0.2%	-0.2% -0.4% 0.3% 0.5% 0.7%	-0.1% 0.6% 0.9% 1.2%	0.2% 0.5% 0.9%	0.4% 0.9%		verage 0.2% 0.1% 0.0% -0.3% -0.7% -1.1% -1.5% -2.1% -2.7% -3.5%

Retail Energy with DSM (GWH)

YEAR	WN Actual	TYSP 2000-2009	TYSP 2001-2010	TYSP 2002-2011	TYSP 2003-2012	TYSP	TYSP	TYSP	TYSP 2007-2016	TYSP	TYSP 2009-2019	TYSP 2010-2020	TYSP 2011-2021	TYSP 2012-2021	TYSP 2013-2022	TYSP	TYSP	TYSP 2016-2025	TYSP 2017-2026	TYSP 2018-2027	TYSP 2019-2028	TYSP 2020-2029	TYSP 2021-2030	
TEAR	WIN ACTUAL	2000-2009	2001-2010	2002-2011	2003-2012	2004-2013	2005-2014	2000-2015	2007-2010	2006-2017	2009-2019	2010-2020	2011-2021	2012-2021	2013-2022	2014-2023	2015-2024	2010-2025	2017-2026	2016-2027	2019-2026	2020-2029	2021-2030	
2001	92,489	89,366	91,657	04 057																				
2002 2003	94,955 98,235	89,992 90,402	94,715 98,176		96,965																			
2003	101,041	90,880	99,724	98,694	100,377	100,377																		
2005	102,856	91,136	101,250		103,071	103,072	102,351																	
2006	104,606	91,431	102,687	105,412	106,067	106,067	105,871	105,084																
2007	105,386	91,665	104,072		108,421	108,421	109,556	108,572	107,376															
2008 2009	103,596 101,653	91,968 92,112	105,456 106,878	110,469 112,941	110,958 112,894	110,958 112,894	113,639 117,308	113,401 117,476	112,091 115,812	109,005 112,449	100,830													
2009	102,786	92,112	108,557	115,644	115,351	112,894	120,420	121,357	119,632	112,449	100,638	100,334												
2011	102,318		100,001	118,190	117,698	117,699	122,814	124,050	123,469	120,391	101,974	102,006	102,110											
2012	102,747				119,934	119,934	125,224	126,836	127,138	124,530	104,482	103,645	102,608	101,673										
2013	103,500					122,313	127,936	129,804	130,053	128,844	105,603	106,014	104,305	103,178	104,275									
2014 2015	105,115 107.785						130,851	132,698	133,488	132,218	107,349	109,224	106,843	105,459	106,763 108,663	106,288 109,026	106 097							
2015	107,785							135,639	137,077 141,068	135,083 138,343	108,993 111,038	110,944 111,756	108,418 109,929	108,087 109,738	110,663	111,238	106,987 109,368	107,359						
2017	105,904								111,000	141,597	113,220	113,174	111,161	111,046	111,433	112,456	111,042		108,067					
2018	109,533										116,002	115,359	112,405	112,246	112,532	113,832	112,671	107,837	109,170	106,889				
2019	108,741											117,262	113,754	113,594	113,498	114,983	114,129	1	109,677	108,212	109,820			
2020	109,463												115,763	115,977	114,834	116,354	115,731	109,603	110,673	108,776	110,895	110,927	440.000	
2021	111,298													118,655	115,839	117,057	116,532	110,309	110,899	109,182	111,426	111,813	110,920	
										I	FORECAS													
											(PERC	ENT)												
		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
YEAR	WN Actual	2000-2009	2001-2010	2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2019	2010-2020	2011-2021	2012-2021	2013-2022	2014-2023	2015-2024	2016-2025	2017-2026	2018-2027	2019-2028	2020-2029	2021-2030	
2001	92,489	3.5%	0.9%																					
2002	94,955	5.5%	0.3%	3.4%																				
2003	98,235	8.7%	0.1%	3.0%	1.3%																			
2004	101,041	11.2%	1.3%	2.4%	0.7%	0.7%	0.5%																	
2004 2005	101,041 102,856	11.2% 12.9%	1.3% 1.6%	2.4% 0.8%	0.7% -0.2%	-0.2%	0.5%	-0.5%																
2004	101,041	11.2%	1.3%	2.4%	0.7%		0.5% -1.2% -3.8%	-0.5% -2.9%	-1.9%															
2004 2005 2006	101,041 102,856 104,606	11.2% 12.9% 14.4%	1.3% 1.6% 1.9%	2.4% 0.8% -0.8%	0.7% -0.2% -1.4%	-0.2% -1.4%	-1.2%		-1.9% -7.6%	-5.0%														
2004 2005 2006 2007 2008 2009	101,041 102,856 104,606 105,386 103,596 101,653	11.2% 12.9% 14.4% 15.0%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0%	-0.2% -1.4% -2.8% -6.6% -10.0%	-1.2% -3.8% -8.8% -13.3%	-2.9% -8.6% -13.5%	-7.6% -12.2%	-9.6%	0.8%													
2004 2005 2006 2007 2008 2009 2010	101,041 102,856 104,606 105,386 103,596 101,653 102,786	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9%	-1.2% -3.8% -8.8% -13.3% -14.6%	-2.9% -8.6% -13.5% -15.3%	-7.6% -12.2% -14.1%	-9.6% -11.5%	2.1%	2.4%												
2004 2005 2006 2007 2008 2009 2010 2011	101,041 102,856 104,606 105,386 103,596 101,653 102,786 102,318	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7%	-2.9% -8.6% -13.5% -15.3% -17.5%	-7.6% -12.2% -14.1% -17.1%	-9.6% -11.5% -15.0%	2.1% 0.3%	0.3%	0.2%	1 19/										
2004 2005 2006 2007 2008 2009 2010 2011 2011	101,041 102,856 104,606 105,386 103,596 101,653 102,786 102,318 102,747	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -17.9%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0%	-7.6% -12.2% -14.1% -17.1% -19.2%	-9.6% -11.5% -15.0% -17.5%	2.1% 0.3% -1.7%	0.3% -0.9%	0.1%	1.1%	-0.7%									
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	101,041 102,856 104,606 105,386 103,596 101,653 102,786 102,318 102,747 103,500	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4%	-9.6% -11.5% -15.0% -17.5% -19.7%	2.1% 0.3% -1.7% -2.0%	0.3% -0.9% -2.4%	0.1% -0.8%	0.3%	-0.7% -1.5%	-1 1%								
2004 2005 2006 2007 2008 2009 2010 2011 2011	101,041 102,856 104,606 105,386 103,596 101,653 102,786 102,318 102,747	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -17.9%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0%	-7.6% -12.2% -14.1% -17.1% -19.2%	-9.6% -11.5% -15.0% -17.5%	2.1% 0.3% -1.7%	0.3% -0.9%	0.1%		-0.7% -1.5% -0.8%	-1.1% -1.1%	0.7%							
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	101,041 102,856 104,606 105,386 103,596 101,653 102,786 102,318 102,747 103,500 105,115	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5%	2.1% 0.3% -1.7% -2.0% -2.1%	0.3% -0.9% -2.4% -3.8%	0.1% -0.8% -1.6%	0.3% -0.3%	-1.5%		0.7% -1.1%	0.7%						
2004 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	101,041 102,856 104,606 105,386 103,596 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7%	0.3% -0.3% -0.3% -1.5% -4.6%	-1.5% -0.8% -2.1% -5.0%	-1.1% -2.8% -5.8%	-1.1% -4.6%	-1.2%	-2.0%					
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	101,041 102,856 103,856 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4%	-1.5% -0.8% -2.1% -5.0% -2.7%	-1.1% -2.8% -5.8% -3.8%	-1.1% -4.6% -2.8%	-1.2% 1.6%	0.3%	2.5%				
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	101,041 102,856 105,386 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6% -4.4%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -4.3%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2%	-1.1% -2.8% -5.8% -3.8% -5.4%	-1.1% -4.6% -2.8% -4.7%	-1.2% 1.6% 0.3%	0.3% -0.9%	0.5%	-1.0%			
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 104,606 105,386 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6%	0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.2%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9%	-1.1% -4.6% -2.8% -4.7% -5.4%	-1.2% 1.6% 0.3% -0.1%	0.3% -0.9% -1.1%	0.5% 0.6%	-1.3%	-1.3% 0.5%	0.2%	
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2016 2017 2018 2019	101,041 102,856 105,386 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6% -4.4%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -4.3%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2%	-1.1% -2.8% -5.8% -3.8% -5.4%	-1.1% -4.6% -2.8% -4.7%	-1.2% 1.6% 0.3%	0.3% -0.9%	0.5%		-1.3% -0.5%	0.3%	
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 104,606 105,386 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463	11.2% 12.9% 14.4% 15.0% 12.6%	1.3% 1.6% 1.9% 1.3% -1.8% -4.9%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -16.7% -17.9% -19.1%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6% -4.4%	0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.2%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9%	-1.1% -4.6% -2.8% -4.7% -5.4%	-1.2% 1.6% 0.3% -0.1%	0.3% -0.9% -1.1%	0.5% 0.6%	-1.3%			Average
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 104,606 105,386 103,596 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5%	1.3% 1.6% 1.3% 1.3% -1.8% -4.9% -5.3%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -14.3%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -13.1% -14.3% -15.4%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -19.1% -19.7%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.3% -20.8% -20.5%	-7.6% -12.2% -14.1% -17.1% -17.1% -20.4% -21.3% -21.3% -23.4%	-9.6% -11.5% -15.0% -17.5% -20.5% -20.2% -21.8% -25.2%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5% -5.6%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1% -7.3%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6% -4.4% -5.4%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6% -6.2%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.2% -3.9%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9% -4.9%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5%	-1.2% 1.6% 0.3% -0.1% 0.9%	0.3% -0.9% -1.1% 0.4% -2.0%	0.5% 0.6% 1.9% 2.5%	-1.3% -0.1% -1.0%	-0.5%		0.3%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 103,856 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5%	1.3% 1.6% 1.3% -1.8% -4.9% -5.3%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4% 3.4% 3.0%	0.7% -0.2% -1.4% -2.8% -6.6% -10.9% -13.1% -14.3%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3% -15.4%	-1.2% -3.8% -13.3% -14.6% -16.7% -17.9% -19.1% -19.7%	-2.9% -8.6% -13.5% -15.3% -17.5% -20.3% -20.8% -20.5% -20.5% -2.9%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.3% -21.4% -23.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8% -25.2%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5% -5.6% 0.8% 2.1%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1% -7.3% 2.4% 0.3%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6% -4.4% -5.4% 0.2% 0.1%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6% -6.2% 1.1% 0.3%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9% -4.9% -1.1%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3%	0.5% 0.6% 1.9% 2.5% 0.5%	-1.3% -0.1% -1.0% -1.3%	-0.5%		0.3%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 103,856 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,633 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5% 3.5% 5.5%	1.3% 1.6% 1.9% 1.3% -1.8% -5.3% 0.3% 0.3% 0.1%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4% 3.4% 3.0% 2.4%	0.7% -0.2% -1.4% -2.8% -6.6% -10.9% -13.1% -14.3% 1.3% 0.7% -0.2%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -14.3% -15.4%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -17.9% -19.1% -19.7% 0.5% -1.2% -3.8%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.8% -20.8% -20.5% -20.5% -2.9% -8.6%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4% -21.4% -23.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.2% -20.2% -21.8% -25.2% -5.0% -9.6% -11.5%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -5.6% 0.8% 2.1% 0.3%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1% -7.3% 2.4% 0.3% -0.9%	0.1% -0.8% -1.6% -1.6% -4.7% -2.6% -4.4% -5.4% 0.2% 0.1% -0.8%	0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6% -6.2% 1.1% 0.3% -0.3%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5% -0.8%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9% -4.9% -1.1% -1.1% -2.8%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1% -4.6%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2% 1.6%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3% -0.9%	0.5% 0.6% 1.9% 2.5% 0.5% 0.6%	-1.3% -0.1% -1.0%	-0.5%		0.3% -0.8% -1.9%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 104,606 105,386 103,596 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5% 3.5% 5.5% 8.7%	1.3% 1.6% 1.9% 1.3% -1.8% -5.3% -5.3% 0.9% 0.3% 0.1% 1.3%	2.4% 0.8% -0.8% -2.4% -10.0% -11.1% -13.4% 3.4% 3.0% 2.4% 0.8%	0.7% -0.2% -1.4% -1.4% -2.8% -0.0% -10.9% -13.1% -14.3% -14.3% 0.7% -0.2% -1.4%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -13.1% -14.3% -15.4% 0.7% -0.2% -0.2% -1.4% -2.8%	-1.2% -3.8% -13.3% -14.6% -16.7% -17.9% -19.1% -19.7% 0.5% -1.2% -3.8% -8.8%	-2.9% -8.6% -13.5% -15.3% -17.5% -20.3% -20.3% -20.5% -20.5% -2.9% -8.6% -13.5%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.3% -23.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8% -25.2% -5.0% -9.6% -11.5%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5% -5.6% 0.8% 2.1% 0.3% -1.7%	0.3% -0.9% -2.4% -3.8% -3.3% -6.4% -5.1% -7.3% 2.4% 0.3% -0.9% -2.4%	0.1% -0.8% -1.6% -1.6% -1.6% -2.6% -4.7% -2.6% -4.4% -5.4% 0.2% 0.1% -0.8% -1.6%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6% -6.2% 1.1% 0.3% -0.3%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5% -0.8% -2.1%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9% -4.9% -1.1% -1.1% -2.8% -5.8%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1% -4.6% -2.8%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2% 1.6% 0.3%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3% -0.9% -1.1%	0.5% 0.6% 1.9% 2.5% 0.5%	-1.3% -0.1% -1.0% -1.3%	-0.5%		0.3% -0.8% -1.9% -3.2%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 103,856 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5% 3.5% 5.5%	1.3% 1.6% 1.9% 1.3% -1.8% -5.3% 0.3% 0.3% 0.1%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4% 3.4% 3.0% 2.4%	0.7% -0.2% -1.4% -2.8% -6.6% -10.9% -13.1% -14.3% 1.3% 0.7% -0.2%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -14.3% -15.4%	-1.2% -3.8% -8.8% -13.3% -14.6% -16.7% -17.9% -19.1% -19.7% 0.5% -1.2% -3.8%	-2.9% -8.6% -13.5% -15.3% -17.5% -19.0% -20.8% -20.8% -20.5% -20.5% -2.9% -8.6%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4% -21.4% -23.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.2% -20.2% -21.8% -25.2% -5.0% -9.6% -11.5%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5% -5.6% 0.8% 2.1% 0.3% -1.7%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -5.1% -7.3% 2.4% 0.3% -0.9%	0.1% -0.8% -1.6% -1.6% -4.7% -2.6% -4.4% -5.4% 0.2% 0.1% -0.8%	0.3% -0.3% -1.5% -4.6% -2.4% -4.3% -5.6% -6.2% 1.1% 0.3% -0.3%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5% -0.8%	-1.1% -2.8% -5.8% -3.8% -5.4% -5.9% -4.9% -1.1% -1.1% -2.8%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1% -4.6%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2% 1.6%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3% -0.9%	0.5% 0.6% 1.9% 2.5% 0.5% 0.6%	-1.3% -0.1% -1.0% -1.3%	-0.5%		0.3% -0.8% -1.9%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 104,606 105,386 103,596 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5% 3.5% 5.5% 8.7% 11.2% 12.9% 14.4%	1.3% 1.6% 1.9% 1.3% -1.8% -5.3% -5.3% 0.9% 0.3% 0.1% 1.3% 1.6% 1.3%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4% 3.4% 3.0% 2.4% 0.8% -0.8% -2.4%	0.7% -0.2% -1.4% -1.4% -2.8% -10.0% -10.9% -13.1% -14.3% -14.3% -14.3% 0.7% -0.2% -1.4% -2.8% -6.6% -10.0%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -13.1% -14.3% -15.4% -15.4% -0.2% -0.2% -1.4% -2.8% -6.6% -10.9%	-1.2% -3.8% -13.3% -14.6% -16.7% -19.1% -19.7% -19.7% -19.7% -19.7%	-2.9% -8.6% -13.5% -15.3% -17.5% -20.3% -20.8% -20.5% -20.5% -2.9% -8.6% -13.5% -15.3% -15.3% -19.0%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4% -23.4% -1.9% -7.6% -12.2% -14.1% -17.1% -19.2% -20.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.2% -20.2% -21.8% -25.2% -5.0% -9.6% -11.5% -15.0% -17.5%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -6.5% -5.6% 0.8% 2.1% 0.3% -1.7% -2.0% -2.1% -1.1%	0.3% -0.9% -2.4% -3.8% -3.3% -6.4% -5.1% -7.3% 2.4% 0.3% -0.9% -2.4% -3.8% -3.3%	0.1% -0.8% -1.6% -1.6% -4.7% -2.6% -4.4% -5.4% 0.1% -0.8% -1.6% -0.6% -1.6% -0.6%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -6.2% 1.1% 0.3% -0.3% -0.3% -0.3% -1.5% -2.2%	-1.5% -0.8% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5% -0.8% -2.1% -5.0% -2.7% -4.2%	-1.1% -2.8% -5.8% -5.4% -5.9% -4.9% -1.1% -1.1% -2.8% -3.8% -3.8% -5.4%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1% -4.6% -2.8% -4.7%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2% 1.6% 0.3% -0.1%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3% -0.9% -1.1%	0.5% 0.6% 1.9% 2.5% 0.5% 0.6%	-1.3% -0.1% -1.0% -1.3%	-0.5%		0.3% -0.8% -1.9% -3.2% -4.5% -5.8% -7.1%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 103,856 103,596 101,653 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298 1 yr 2 yr 3 yr 4 yr 5 yr 6 yr 7 yr 8 yr	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5% 3.5% 3.5% 5.5% 8.7% 11.2% 12.9% 14.4% 15.0%	1.3% 1.6% 1.9% 1.3% -1.8% -5.3% 0.9% 0.3% 0.3% 0.3% 1.3% 1.6% 1.9% 1.9% 1.3%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4% 3.4% 3.0% 2.4% -0.8% -2.4% -6.2% -10.0%	0.7% -0.2% -1.4% -2.8% -6.6% -10.0% -10.9% -13.1% -14.3% -14.3% 0.7% -0.2% -1.4% -2.8% -6.6% -10.9%	-0.2% -1.4% -2.8% -6.6% -10.0% -13.1% -13.1% -14.3% -15.4% -0.2% -1.4% -2.8% -6.6% -10.0% -13.1%	-1.2% -3.8% -8.8% -13.3% -14.6% -17.9% -19.1% -19.7% -19.7% -19.7% -19.7% -19.7% -19.7% -19.7% -19.7% -19.7% -19.7% -14.6% -13.3% -14.6% -17.9%	-2.9% -8.6% -13.5% -15.3% -17.5% -20.3% -20.8% -20.5% -20.5% -20.5% -20.5% -2.9% -8.6% -13.5% -13.5% -15.3% -15.3% -15.3%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.3% -21.4% -23.4% -7.6% -72.2% -14.1% -77.6% -19.2% -20.4% -21.3%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.5% -20.2% -21.8% -25.2% -5.0% -9.6% -11.5% -15.0% -15.0% -19.7% -20.2%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -5.6% 0.8% 2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -1.1%	0.3% -0.9% -2.4% -3.8% -2.8% -3.3% -6.4% -7.3% -7.3% 2.4% 0.3% -0.9% -2.4% -3.8% -2.8% -3.8% -2.8% -3.3%	0.1% -0.8% -1.6% -0.6% -1.6% -4.7% -2.6% -2.4% -2.4% -2.4% 0.2% 0.1% -0.8% -1.6% -0.6% -1.6% -2.6%	0.3% -0.3% -1.5% -4.6% -2.4% -2.4% -5.6% -6.2% 1.1% 0.3% -0.3% -1.5% -1.5% -2.4% -2.4% -2.4%	-1.5% -0.8% -2.1% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5% -0.8% -2.7% -2.7% -2.7% -4.2% -4.2%	-1.1% -2.8% -5.8% -5.8% -5.9% -4.9% -1.1% -1.1% -2.8% -3.8% -5.4%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1% -4.6% -2.8% -4.7% -5.4%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2% 1.6% 0.3% -0.1%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3% -0.9% -1.1%	0.5% 0.6% 1.9% 2.5% 0.5% 0.6%	-1.3% -0.1% -1.0% -1.3%	-0.5%		0.3% -0.8% -1.9% -3.2% -4.5% -5.8% -7.1% -8.4%
2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	101,041 102,856 104,606 105,386 103,596 102,786 102,318 102,747 103,500 105,115 107,785 108,118 105,904 109,533 108,741 109,463 111,298	11.2% 12.9% 14.4% 15.0% 12.6% 10.4% 3.5% 3.5% 5.5% 8.7% 11.2% 12.9% 14.4%	1.3% 1.6% 1.9% 1.3% -1.8% -5.3% -5.3% 0.9% 0.3% 0.1% 1.3% 1.6% 1.3%	2.4% 0.8% -0.8% -2.4% -6.2% -10.0% -11.1% -13.4% 3.4% 3.0% 2.4% 0.8% -0.8% -2.4%	0.7% -0.2% -1.4% -1.4% -2.8% -10.0% -10.9% -13.1% -14.3% -14.3% -14.3% 0.7% -0.2% -1.4% -2.8% -6.6% -10.0%	-0.2% -1.4% -2.8% -6.6% -10.0% -10.0% -13.1% -13.1% -14.3% -15.4% -15.4% -0.2% -0.2% -1.4% -2.8% -6.6% -10.9%	-1.2% -3.8% -13.3% -14.6% -16.7% -19.1% -19.7% -19.7% -19.7% -19.7%	-2.9% -8.6% -13.5% -15.3% -17.5% -20.3% -20.8% -20.5% -20.5% -2.9% -8.6% -13.5% -15.3% -15.3% -19.0%	-7.6% -12.2% -14.1% -17.1% -19.2% -20.4% -21.3% -21.4% -23.4% -1.9% -7.6% -12.2% -14.1% -17.1% -19.2% -20.4%	-9.6% -11.5% -15.0% -17.5% -19.7% -20.2% -20.2% -21.8% -25.2% -5.0% -9.6% -11.5% -15.0% -17.5%	2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -2.6% -5.6% 0.8% 2.1% 0.3% -1.7% -2.0% -2.1% -1.1% -1.1%	0.3% -0.9% -2.4% -3.8% -3.3% -6.4% -5.1% -7.3% 2.4% 0.3% -0.9% -2.4% -3.8% -3.3%	0.1% -0.8% -1.6% -1.6% -4.7% -2.6% -4.4% -5.4% 0.1% -0.8% -1.6% -0.6% -1.6% -0.6%	0.3% -0.3% -0.3% -1.5% -4.6% -2.4% -6.2% 1.1% 0.3% -0.3% -0.3% -0.3% -1.5% -2.2%	-1.5% -0.8% -5.0% -2.7% -4.2% -4.7% -3.9% -0.7% -1.5% -0.8% -2.1% -5.0% -2.7% -4.2%	-1.1% -2.8% -5.8% -5.4% -5.9% -4.9% -1.1% -1.1% -2.8% -3.8% -3.8% -5.4%	-1.1% -4.6% -2.8% -4.7% -5.4% -4.5% 0.7% -1.1% -4.6% -2.8% -4.7% -5.4%	-1.2% 1.6% 0.3% -0.1% 0.9% 0.7% -1.2% 1.6% 0.3% -0.1%	0.3% -0.9% -1.1% 0.4% -2.0% 0.3% -0.9% -1.1%	0.5% 0.6% 1.9% 2.5% 0.5% 0.6%	-1.3% -0.1% -1.0% -1.3%	-0.5%		0.3% -0.8% -1.9% -3.2% -4.5% -5.8% -7.1%

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TOTAL AVERAGE ANNUAL CUSTOMERS

		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP
YEAR	ACTUAL			2003-2012											2014-2023						2020-2029	
2002	381,520	386,363	382,221																			
2003	389,807	393,461	389,962	388,736																		
2004	398,198	400,114	397,237	397,557	397,671																	
2005	404,084	406,977	404,023	405,230	405,802	411,911	447.070															
2006 2007	415,183 425,791	413,955	410,930 417,915	412,571 420,934	412,857 420,309	422,626 431,955	417,879 428,429	427,761														
2007	429,300		417,915	420,934 430,540	420,309	431,955	420,429	427,761	438,259													
2009	428,204			400,040	438,390	450,706	446,127	447,135	448,294	437,091												
2010	430,028					460,733	455,602	457,024	457,731	444,504	429,165											
2011	432,401						465,478	467,438	467,967	454,286	431,591	432,340										
2012	434,440							478,178	478,892	464,609	435,209	436,563	435,611									
2013	437,697								490,503	475,531	441,574	442,936	440,243	438,047	444 450							
2014 2015	442,369 447,556									486,729	450,506 459,909	450,623 458,491	447,009 454,702	443,350 450,788	441,150 445,631	446,458						
2015	453,139										439,909	466,319	462,249	459,363	4452,374	440,438	452,162					
2017	459,049											100,010	469,519	467,787	460,351	459,095	458,780	458,127				
2018	464,681													475,745	467,878	465,992	465,524	463,975	465,609			
2019	464,883														474,984	472,332	471,563	469,114	471,960	472,135		
2020	470,680															478,194	476,496	473,885	477,293	479,546	472,190	
2021	477,672															483,384	480,277	478,098	482,384	485,939	480,130	474,741
											FORECAS (PERC											
		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP
YEAR	WN Actual	2001-2010	2002-2011									2011-2021		2013-2022	2014-2023		2016-2025		2018-2027			2021-2030
2002	381,520	-1.3%	-0.2%																			
2003	389,807	-0.9%	0.0%	0.3%																		
2004	398,198	-0.5%																				
2005 2006			0.2%	0.2%	0.1%	1.0%																
	404,084 415,183	-0.7%	0.0%	-0.3%	-0.4%	-1.9% -1.8%	-0.6%															
2007	404,084 415,183 425,791					-1.9% -1.8% -1.4%	-0.6% -0.6%	-0.5%														
2007 2008	415,183	-0.7%	0.0% 1.0%	-0.3% 0.6%	-0.4% 0.6%	-1.8%		-0.5% -2.0%	-2.0%													
	415,183 425,791 429,300 428,204	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0%	-2.0% -4.2%	-2.0% -4.5%	-2.0%												
2008	415,183 425,791 429,300	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7%	-0.6% -1.8%	-2.0%		-2.0% -3.3%	0.2%											
2008 2009	415,183 425,791 429,300 428,204	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0%	-2.0% -4.2%	-4.5%		0.2% 0.2%	0.0%										
2008 2009 2010	415,183 425,791 429,300 428,204 430,028	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9%	-4.5% -6.1%	-3.3%		0.0% -0.5%	-0.3%									
2008 2009 2010 2011	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9%	-0.5% -1.2%	-0.6%	-0.1%								
2008 2009 2010 2011 2012 2013 2014	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8%	-0.6% -1.0%	-0.2%	0.3%							
2008 2009 2010 2011 2012 2013 2014 2015	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9%	-0.5% -1.2% -1.8% -2.4%	-0.6% -1.0% -1.6%	-0.2% -0.7%	0.4%	0.2%						
2008 2009 2010 2011 2012 2013 2014 2015 2016	415,183 425,791 429,300 428,004 430,028 432,401 434,440 437,697 442,369 447,556 453,139	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8%	-0.6% -1.0% -1.6% -2.0%	-0.2% -0.7% -1.4%	0.4% 0.2%	0.2%	0.2%					
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	415,183 425,791 429,300 428,004 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8% -2.4%	-0.6% -1.0% -1.6%	-0.2% -0.7% -1.4% -1.9%	0.4% 0.2% -0.3%	0.2% 0.0%	0.1%	0.2%				
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	415,183 425,791 429,300 428,002 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049 464,681	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8% -2.4%	-0.6% -1.0% -1.6% -2.0%	-0.2% -0.7% -1.4%	0.4% 0.2% -0.3% -0.7%	0.2% 0.0% -0.3%	0.1% -0.2%	0.2%	-0.2%			
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049 464,681 464,883	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8% -2.4%	-0.6% -1.0% -1.6% -2.0%	-0.2% -0.7% -1.4% -1.9%	0.4% 0.2% -0.3%	0.2% 0.0% -0.3% -1.6%	0.1% -0.2% -1.4%	0.2% -0.9%	-1.5%	-1.5%		
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 465,049 464,681 464,883 470,680	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8% -2.4%	-0.6% -1.0% -1.6% -2.0%	-0.2% -0.7% -1.4% -1.9%	0.4% 0.2% -0.3% -0.7%	0.2% 0.0% -0.3%	0.1% -0.2% -1.4% -1.2%	0.2% -0.9% -0.7%	-1.5% -1.4%	-1.8%	-0.3%	
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049 464,681 464,883	-0.7%	0.0% 1.0%	-0.3% 0.6% 1.2%	-0.4% 0.6% 1.3% 0.1%	-1.8% -1.4% -2.7% -5.0%	-0.6% -1.8% -4.0% -5.6%	-2.0% -4.2% -5.9% -7.5%	-4.5% -6.1% -7.6% -9.3%	-3.3% -4.8% -6.5% -8.0%	0.2% -0.2% -0.9% -1.8%	-0.5% -1.2% -1.8% -2.4%	-0.6% -1.0% -1.6% -2.0%	-0.2% -0.7% -1.4% -1.9%	0.4% 0.2% -0.3% -0.7%	0.2% 0.0% -0.3% -1.6%	0.1% -0.2% -1.4%	0.2% -0.9%	-1.5%		-0.3% -0.5%	0.6%
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049 464,883 470,680 477672	-0.7% 0.3%	0.0% 1.0% 1.9%	-0.3% 0.6% 1.2% -0.3%	-0.4% 0.6% 1.3% 0.1% -2.3%	-1.8% -1.4% -2.7% -5.0% -6.7%	-0.6% -1.8% -4.0% -5.6% -7.1%	-2.0% -4.2% -5.9% -7.5% -9.1%	-4.5% -6.1% -7.6% -9.3% -10.8%	-3.3% -4.8% -6.5% -8.0% -9.1%	0.2% -0.2% -0.9% -1.8% -2.7%	-0.5% -1.2% -1.8% -2.4% -2.8%	-0.6% -1.0% -1.6% -2.0% -2.2%	-0.2% -0.7% -1.4% -1.9% -2.3%	0.4% 0.2% -0.3% -0.7% -2.1%	0.2% 0.0% -0.3% -1.6% -1.6%	0.1% -0.2% -1.4% -1.2% -0.5%	0.2% -0.9% -0.7% -0.1%	-1.5% -1.4% -1.0%	-1.8% -1.7%	-0.5%	
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049 464,681 464,883 470,680 477672	-0.7% 0.3%	0.0% 1.0% 1.9%	-0.3% 0.6% 1.2% -0.3%	-0.4% 0.6% 1.3% 0.1% -2.3%	-1.8% -1.4% -2.7% -5.0% -6.7%	-0.6% -1.8% -4.0% -5.6% -7.1%	-2.0% -4.2% -5.9% -7.5% -9.1%	-4.5% -6.1% -7.6% -9.3% -10.8%	-3.3% -4.8% -6.5% -8.0% -9.1% -2.0%	0.2% -0.2% -0.9% -1.8% -2.7%	-0.5% -1.2% -1.8% -2.4% -2.8%	-0.6% -1.0% -1.6% -2.0% -2.2%	-0.2% -0.7% -1.4% -1.9% -2.3%	0.4% 0.2% -0.3% -0.7% -2.1%	0.2% 0.0% -0.3% -1.6% -1.6%	0.1% -0.2% -1.4% -1.2% -0.5%	0.2% -0.9% -0.7% -0.1% 0.2%	-1.5% -1.4% -1.0% -0.2%	-1.8% -1.7% -1.5%	-0.5%	0.6%
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 459,049 464,883 470,680 477672	-0.7% 0.3%	0.0% 1.0% 1.9%	-0.3% 0.6% 1.2% -0.3%	-0.4% 0.6% 1.3% 0.1% -2.3%	-1.8% -1.4% -2.7% -5.0% -6.7%	-0.6% -1.8% -4.0% -5.6% -7.1%	-2.0% -4.2% -5.9% -7.5% -9.1%	-4.5% -6.1% -7.6% -9.3% -10.8%	-3.3% -4.8% -6.5% -8.0% -9.1%	0.2% -0.2% -0.9% -1.8% -2.7%	-0.5% -1.2% -1.8% -2.4% -2.8%	-0.6% -1.0% -1.6% -2.0% -2.2%	-0.2% -0.7% -1.4% -1.9% -2.3%	0.4% 0.2% -0.3% -0.7% -2.1%	0.2% 0.0% -0.3% -1.6% -1.6%	0.1% -0.2% -1.4% -1.2% -0.5%	0.2% -0.9% -0.7% -0.1%	-1.5% -1.4% -1.0%	-1.8% -1.7%	-0.5%	
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 444,369 447,556 453,139 459,049 464,681 464,883 470,680 477672	-0.7% 0.3% -1.3% -0.9% -0.5% -0.7%	-0.2% 0.0% 0.2% 0.0%	-0.3% 0.6% 1.2% -0.3% 0.3% 0.2% -0.3% 0.6%	-0.4% 0.6% 1.3% 0.1% -2.3% 0.1% -0.4% 0.6% 1.3%	-1.8% -1.4% -2.7% -5.0% -6.7% -6.7% -1.8% -1.4% -2.7%	-0.6% -1.8% -4.0% -5.6% -7.1% -7.1% -0.6% -0.6% -1.8% -4.0%	-2.0% -4.2% -5.9% -7.5% -9.1% -9.1% -0.5% -2.0% -4.2% -5.9%	-4.5% -6.1% -7.6% -9.3% -10.8% -10.8% -2.0% -4.5% -6.1% -7.6%	-3.3% -4.8% -6.5% -8.0% -9.1% -9.1% -2.0% -3.3% -4.8% -6.5%	0.2% -0.2% -0.9% -1.8% -2.7% 0.2% 0.2% -0.2% -0.2% -0.9%	-0.5% -1.2% -1.8% -2.4% -2.8% 0.0% -0.5% -1.2% -1.8%	-0.6% -1.0% -1.6% -2.0% -2.2% -0.3% -0.6% -1.0% -1.6%	-0.2% -0.7% -1.4% -1.9% -2.3% -0.1% -0.2% -0.7% -1.4%	0.4% 0.2% -0.3% -0.7% -2.1% 0.3% 0.4% 0.2% -0.3%	0.2% 0.0% -0.3% -1.6% -1.6% 0.2% 0.2% 0.0% -0.3%	0.1% -0.2% -1.4% -1.2% -0.5% 0.2% 0.1% -0.2% -1.4%	0.2% -0.9% -0.7% -0.1% 0.2% 0.2% -0.9% -0.7%	-1.5% -1.4% -1.0% -0.2% -1.5%	-1.8% -1.7% -1.5% -1.8%	-0.5%	
2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	415,183 425,791 429,300 428,204 430,028 432,401 434,440 437,697 442,369 447,556 453,139 464,681 464,883 470,680 477672	-0.7% 0.3% -1.3% -0.9% -0.5%	0.0% 1.0% 1.9% 0.0% 0.2%	-0.3% 0.6% 1.2% -0.3% 0.3% 0.2% -0.3%	-0.4% 0.6% 1.3% 0.1% -2.3%	-1.8% -1.4% -2.7% -5.0% -6.7% -6.7% -1.8% -1.8% -1.4%	-0.6% -1.8% -4.0% -5.6% -7.1% -0.6% -0.6% -1.8%	-2.0% -4.2% -5.9% -7.5% -9.1% -0.5% -2.0% -4.2%	-4.5% -6.1% -7.6% -9.3% -10.8% -10.8% -2.0% -4.5% -6.1%	-3.3% -4.8% -6.5% -8.0% -9.1% -9.1% -2.0% -3.3% -4.8%	0.2% -0.2% -0.9% -1.8% -2.7% 0.2% 0.2% -0.2%	-0.5% -1.2% -1.8% -2.4% -2.8% 0.0% -0.5% -1.2%	-0.6% -1.0% -1.6% -2.0% -2.2% -0.3% -0.6% -1.0%	-0.2% -0.7% -1.4% -1.9% -2.3% -0.1% -0.2% -0.7%	0.4% 0.2% -0.3% -0.7% -2.1% 0.3% 0.4% 0.2%	0.2% 0.0% -0.3% -1.6% -1.6% 0.2% 0.2% 0.0%	0.1% -0.2% -1.4% -1.2% -0.5% 0.2% 0.1% -0.2%	0.2% -0.9% -0.7% -0.1% 0.2% 0.2% -0.9%	-1.5% -1.4% -1.0% -0.2% -1.5% -1.4%	-1.8% -1.7% -1.5% -1.8%	-0.5%	

Retail Energy with DSM (GWH)

		TYSP																				
Year	WN Actual	2001-2010				2005-2014		2007-2016	2008-2017		2010-2020	2011-2021		2013-2022	2014-2023	2015-2024		2017-2026	2018-2027			2021-2030
roui	WWW / Kotular	2001 2010	2002 2011	2000 2012	2004 2010	2000 2014	2000 2010	2007 2010	2000 2011	2000 2010	2010 2020	2011 2021	2012 2021	2010 2022	2014 2020	2010 2024	2010 2020	2011 2020	2010 2021	2010 2020	2020 2020	20212000
2002	10,688	10,377	10,266																			
2003	10,958	10,541		10,398																		
2004	11,036	10,665	10,456	10,605	10,641																	
2005	11,331	10,802	10,587	10,855	10,851	11,154																
2006	11,490	10,970	10,749	11,055	10,958	11,456	11,260															
2007	11,483		10,874	11,238	11,023	11,715	11,532	11,485														
2008	11,472			11,386	11,170	12,042	11,850	11,693	11,666													
2009	10,941				11,300	12,262	12,101	11,857	11,937	11,809												
2010	10,803					12,478	12,304	12,048	12,206	12,105	10,892											
2011	10,931						12,455	12,315	12,416	12,498	11,188	11,421										
2012	10,858							12,592	12,631	12,791	11,647	11,768	11,595									
2013	10,838								12,907	13,080	12,051	12,064	11,794	11,083								
2014	11,066									13,330	12,265	12,369	12,054	11,154	11,129							
2015	10,975										12,504	12,574	12,287	11,246	11,063	10,961						
2016	10,938											12,718	12,492	11,462	11,210	11,034	10,907					
2017	10,917												12,668	11,584	11,284			10,830				
2018	10,822													11,632	11,347	11,275	11,147	10,907	10,730			
2019	10,795														11,443			10,978				
2020	10,671															11,364		11,079				
2021	10,730															11,447	11,339	11,144	10,806	10,953	10,730	10,846
											FORECAS											
											(PER	CENT)										
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T) (05	T) (0 D
		TYSP																				
YEAR	WN Actual	2001-2010	2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2019	2010-2020	2011-2021	2012-2021	2013-2022	2014-2023	2015-2024	2016-2025	2017-2026	2018-2027	2019-2028	2020-2029	2021-2030
2002	10,688	3.0%	4.1%																			
2002	10,958	4.0%	6.0%	5.4%																		
2000	11,036	3.5%	5.5%	4.1%	3.7%																	

2002	10,688	3.0%	4.1%																			
2003	10,958	4.0%	6.0%	5.4%																		
2004	11,036	3.5%	5.5%	4.1%	3.7%																	
2005	11,331	4.9%	7.0%	4.4%	4.4%	1.6%																
2006	11,490	4.7%	6.9%	3.9%	4.8%	0.3%	2.0%															
2007	11,483		5.6%	2.2%	4.2%	-2.0%	-0.4%	0.0%														
2008	11,472			0.8%	2.7%	-4.7%	-3.2%	-1.9%	-1.7%													
2009	10,941				-3.2%	-10.8%	-9.6%	-7.7%	-8.3%	-7.4%												
2010	10,803					-13.4%	-12.2%	-10.3%	-11.5%	-10.8%	-0.8%											
2011	10,931						-12.2%	-11.2%	-12.0%	-12.5%	-2.3%	-4.3%										
2012	10,858							-13.8%	-14.0%	-15.1%	-6.8%	-7.7%	-6.4%									
2013	10,838								-16.0%	-17.1%	-10.1%	-10.2%	-8.1%	-2.2%								
2014	11,066									-17.0%	-9.8%	-10.5%	-8.2%	-0.8%	-0.6%							
2015	10,975										-12.2%	-12.7%	-10.7%	-2.4%	-0.8%	0.1%						
2016	10,938											-14.0%	-12.4%	-4.6%	-2.4%	-0.9%	0.3%					
2017	10,917												-13.8%	-5.8%	-3.3%	-2.2%	-1.0%	0.8%				
2018	10,822													-7.0%	-4.6%	-4.0%	-2.9%	-0.8%	0.9%			
														1.070						4.00/		
2019	10,795														-5.7%	-4.4%	-4.2%	-1.7%	0.2%	-1.2%		
2020	10,671															-6.1%	-5.8%	-3.7%	-1.2%	-2.6%	-1.2%	
2021 1	10730.31925																-5.4%	-3.7%	-0.7%	-2.0%	0.0%	-1.1%
	1 yr	3.0%	4.1%	5.4%	3.7%	1.6%	2.0%	0.0%	-1.7%	-7.4%	-0.8%	-4.3%	-6.4%	-2.2%	-0.6%	0.1%	0.3%	0.8%	0.9%	-1.2%	-1.2%	-1.1%
	2 yr	4.0%	6.0%	4.1%	4.4%	0.3%	-0.4%	-1.9%	-8.3%	-10.8%	-2.3%	-7.7%	-8.1%	-0.8%	-0.8%	-0.9%	-1.0%	-0.8%	0.2%	-2.6%	0.0%	
	3 yr	3.5%	5.5%	4.4%	4.8%	-2.0%	-3.2%	-7.7%	-11.5%	-12.5%	-6.8%	-10.2%	-8.2%	-2.4%	-2.4%	-2.2%	-2.9%	-1.7%	-1.2%	-2.0%		
	4 yr	4.9%	7.0%	3.9%	4.2%	-4.7%	-9.6%	-10.3%	-12.0%	-15.1%	-10.1%	-10.5%	-10.7%	-4.6%	-3.3%	-4.0%	-4.2%	-3.7%	-0.7%			
	5 yr	4.7%	6.9%	2.2%	2.7%	-10.8%	-12.2%	-11.2%	-14.0%	-17.1%	-9.8%	-12.7%	-12.4%	-5.8%	-4.6%	-4.4%	-5.8%	-3.7%				
	6 yr		5.6%	0.8%	-3.2%	-13.4%	-12.2%	-13.8%	-16.0%	-17.0%	-12.2%	-14.0%	-13.8%	-7.0%	-5.7%	-6.1%	-5.4%					
	3 yr 4 yr 5 yr	4.9%	7.0% 6.9%	3.9% 2.2%	4.2% 2.7%	-4.7% -10.8%	-9.6% -12.2%	-10.3% -11.2%	-12.0% -14.0%	-15.1% -17.1%	-10.1% -9.8%	-10.5% -12.7%	-10.7% -12.4%	-4.6% -5.8%	-3.3% -4.6%	-4.0% -4.4%	-4.2% -5.8%	-3.7%		-2.0%		

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 10 Attachment No. 1 of 1 Tab 1 of 4

SUMMER PEAK with DSM

(MW)

		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP										
YEAR	WN Actual		2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2018	2010-2019	2011-2020	2012-2021	2013-2022	2014-2023	2015-2024	2016-2025	2017-2026	2018-2027	2019-2028	2020-2029	2021-2030
2001 2002	18,877 19,316	18,008 18,599	19,009																			
2003	20,183	19,245	19,581	19,708																		
2004	20,789	19,640	19,980	20,171	20,171																	
2005 2006	22,120 21,793	20,045 20,466	20,409 20,811	20,611 21,078	20,611 21,078	20,488 20,995	21,779															
2000	21,886	20,400	21,116	21,534	21,534	21,533	22,337	22,124														
2008	21,351	21,206	21,364	21,908	21,908	22,013	22,902	22,566	22,153													
2009 2010	21,594 21,878	21,572 22,052	21,698 22,092	22,337 22,825	22,337 22,825	22,533	23,442	23,158 23,649	22,516 23,200	20,983												
2010	21,388	22,052	22,092	22,825	22,825	23,013 23,491	23,975 24,453	23,649	23,200	20,927 21,065												
2012	21,770			23,810	23,810	23,980	24,949	24,593	24,314	21,544			21,533									
2013	21,654				24,315	24,459	24,949	24,979	24,803	21,771		21,757	21,749		00.070							
2014 2015	23,043 23,126					24,967	25,987 26,586	25,396 25,974	25,872 26,443	22,964 23,479			22,963 23,407	22,736 23,069	22,670 23,221							
2016	23,613							26,558	27,052	24,016			23,835				24,118					
2017	23,062								27,660	24,552		24,047	23,950				24,256					
2018 2019	23,781 23,238									25,263	24,657 25,068	24,177 24,501	23,995 24,262	23,908 24,218	24,395 24,739		24,501 24,763			24,277		
2019	23,238										20,000	24,901			24,739						24,602	
2021	24,141												25,031	24,730	25,266	25,273	25,133	24,584	24,799	24,631	24,697	24,590
											ST ERROR CENT)											
Year	WN Actual	TYSP 2001-2012	TYSP 2002-2011	TYSP 2003-2012	TYSP 2004-2013	TYSP 2005-2014	TYSP 2006-2015	TYSP 2007-2016	TYSP 2008-2017	TYSP 2009-2018		TYSP 2011-2020		TYSP 2013-2022		TYSP 2015-2024	TYSP 2016-2025	TYSP 2017-2026	TYSP 2018-2027	TYSP 2019-2028	TYSP 2020-2029	TYSP 2021-2030
2001	18,877	4.8%																				
2002	19,316	3.9%	1.6%	0.4%																		
2003 2004	20,183 20,789	4.9% 5.9%	3.1% 4.0%	2.4% 3.1%	3.1%																	
2005	22,120	10.4%	8.4%	7.3%	7.3%	8.0%																
2006	21,793	6.5%	4.7%	3.4%	3.4%	3.8%	0.1%															
2007 2008	21,886 21,351	4.8% 0.7%	3.6% -0.1%	1.6% -2.5%	1.6% -2.5%	1.6% -3.0%	-2.0% -6.8%	-1.1% -5.4%	-3.6%													
2009	21,594	0.1%	-0.5%	-3.3%	-3.3%	-4.2%	-7.9%	-6.8%	-4.1%	2.9%												
2010	21,878	-0.8%	-1.0%	-4.2%	-4.2%	-4.9%	-8.7%	-7.5%	-5.7%	4.5%	0.8%											
2011 2012	21,388 21,770		-5.0%	-8.3% -8.6%	-8.3% -8.6%	-9.0% -9.2%	-12.5% -12.7%	-11.5% -11.5%	-10.0% -10.5%	1.5% 1.0%	-0.7% -0.3%	-0.8% 0.8%	1.1%									
2012	21,654			-0.070	-10.9%	-11.5%	-13.2%	-13.3%	-12.7%	-0.5%	-1.4%	-0.5%	-0.4%	-0.2%								
2014	23,043					-7.7%	-11.3%	-9.3%	-10.9%	0.3%	-0.4%	0.7%	0.3%	1.4%	1.6%							
2015 2016	23,126 23,613						-13.0%	-11.0% -11.1%	-12.5% -12.7%	-1.5% -1.7%	-1.2% -0.7%	-1.4% -0.6%	-1.2% -0.9%	0.2% 1.2%	-0.4% -0.1%	-0.4% -0.3%	-2.1%					
2010	23,062							-11.170	-16.6%	-6.1%	-4.5%	-4.1%	-3.7%	-2.4%	-4.1%	-4.4%	-4.9%	-3.8%				
2018	23,781									-5.9%	-3.6%	-1.6%	-0.9%	-0.5%	-2.5%	-2.9%	-2.9%	-1.9%	-0.8%			
2019 2020	23,238 24,308										-7.3%	-5.2% -2.6%	-4.2% -1.3%	-4.0% -1.0%	-6.1% -3.1%	-6.6% -3.4%	-6.2% -3.0%	-4.8% -0.8%	-4.8% -1.3%	-4.3% -0.7%	-1.2%	
2020	24,308 24,141											-2.0%	-1.3%	-1.0%	-3.1% -4.5%	-3.4% -4.5%	-3.0% -3.9%	-0.8% -1.8%	-1.3% -2.7%	-0.7%	-1.2%	-1.8%
	,														-	-		-		-	-	-
	1 yr	4.8%	1.6%	2.4%	3.1%	8.0%	0.1%	-1.1%	-3.6%	2.9%			1.1%				-2.1%			-4.3%	-1.2%	-1.8%
	2 yr 3 yr	3.9% 4.9%	3.1% 4.0%	3.1% 7.3%	7.3% 3.4%	3.8% 1.6%	-2.0% -6.8%	-5.4% -6.8%	-4.1% -5.7%	4.5% 1.5%			-0.4% 0.3%	1.4% 0.2%	-0.4% -0.1%		-4.9% -2.9%			-0.7% -2.0%	-2.3%	
	4 yr	5.9%	8.4%	3.4%	1.6%	-3.0%	-7.9%	-7.5%	-10.0%	1.0%			-1.2%		-4.1%		-6.2%					
	5 yr	10.4%	4.7%	1.6%	-2.5%	-4.2%	-8.7%	-11.5%	-10.5%	-0.5%			-0.9%				-3.0%					
	6 yr 7 yr	6.5% 4.8%	3.6% -0.1%	-2.5% -3.3%	-3.3% -4.2%	-4.9% -9.0%	-12.5% -12.7%	-11.5% -13.3%	-12.7% -10.9%	0.3% -1.5%			-3.7% -0.9%	-0.5% -4.0%	-6.1% -3.1%		-3.9%					
	7 yr 8 yr	4.8%	-0.1%	-3.3% -4.2%	-4.2% -8.3%	-9.0% -9.2%	-12.7%	-13.3%	-10.9%	-1.5%			-0.9%	-4.0%	-3.1%							
	9 yr	0.1%	-1.0%	-8.3%	-8.6%	-11.5%	-11.3%	-11.0%	-12.7%	-6.1%	-3.6%	-5.2%	-1.3%	-2.4%								
	10 yr	-0.8%	-5.0%	-8.6%	-10.9%	-7.7%	-13.0%	-11.1%	-16.6%	-5.9%	-7.3%	-2.6%	-3.6%									

R:\2022 Ten Year Site Plan\Staff's 1st DR (Nos. 3-95)\20220000 - Staff's 1st DR No. 10 - Attachment.xlsxSummer peak fan #10-FPL

WINTER PEAK with DSM

(MW)

		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP
YEAR	WN Actual		2002-2011				2006-2015			2009-2018				2013-2022			2016-2025	2017-2026				
2002	17,979	19,226	18,968																			
2003	18,026	19,982	19,451	20,190																		
2004	18,353	20,382	19,842	19,986	20,081																	
2005	19,349	20,780	20,252	20,447	20,447	20,081																
2006	19,334	21,173	20,653	20,922	20,922	21,241	21,792															
2007	18,525	21,568	20,970	21,385	21,385	21,777	22,216	22,247														
2008	16,832	21,881	21,272	21,784	21,784	22,221	22,640	22,592	22,332													
2009	18,891	22,249	21,668	22,236	22,236	22,738	23,093	23,045	22,684	18,697												
2010	19,936	22,613	22,039	22,685	22,685	23,258	23,532	23,478	23,345	18,676	20,439											
2011	18,647		22,458	23,181	23,181	23,795	23,941	23,900	23,824	18,962	20,514	21,107										
2012	17,941			23,683	23,683	24,336	24,351	24,310	24,299	19,505	20,702	21,380	20,871									
2013	17,720			24,194	24,194	24,892	24,783	24,722	24,746	19,846	20,948	21,490	20,993	20,230								
2014	19,737				24,716	25,460	25,250	25,142	26,016	20,852	21,927	22,292	21,757	21,504	19,856							
2015	19,809						25,902	25,729	26,660	21,530	22,484	22,657	22,110	22,012	20,903	21,118						
2016	20,656							26,327	27,325	21,993	22,822	22,821	22,273	22,235	21,421	21,333	20,228					
2017	18,110								28,011	22,459	23,158	22,985	22,401	22,414	21,661	21,437	21,103	20,347				
2018	19,339									22,966	23,527	23,171	22,550	22,597	21,897	21,537	21,307	20,647	19,592			
2019	18,831										23,905	23,365	22,702	22,771	22,107	21,717	21,537	20,788	19,962	19,515		
2020	17,703											23,582	22,891	22,960	22,309	21,876	21,701	20,925	20,141	19,873	19,946	
2021	19,607												23,112	23,167	22,508	21,992	21,898	21,103	20,374	20,233	20,225	20,054
										FORECAS												
										(PERC												
		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP
YEAR	WN Actual		2002-2011			2005-2014								2013-2022			2016-2025	2017-2026			2020-2029	
2002	17,979	-6.5%	-5.2%																			
2003	18,026	-9.8%	-7.3%	-10.7%																		
2004	18,353	-10.0%	-7.5%	-8.2%	-8.6%																	
2005	19,349	-6.9%	-4.5%	-5.4%	-5.4%	-3.6%																
2006	19,334	-8.7%	-6.4%	-7.6%	-7.6%	-9.0%	-11.3%															
2007	18,525	-14.1%	-11.7%	-13.4%	-13.4%	-14.9%	-16.6%	-16.7%														
2008	16,832	-23.1%	-20.9%	-22.7%	-22.7%	-24.2%	-25.7%	-25.5%	-24.6%													
2009	18,891	-15.1%	-12.8%	-15.0%	-15.0%	-16.9%	-18.2%	-18.0%	-16.7%	1.0%												
2010	19,936	-11.8%	-9.5%	-12.1%	-12.1%	-14.3%	-15.3%	-15.1%	-14.6%	6.7%	-2.5%											
2011	18,647		-17.0%	-19.6%	-19.6%	-21.6%	-22.1%	-22.0%	-21.7%	-1.7%	-9.1%	-11.7%										
2012	17,941			-24.2%	-24.2%	-26.3%	-26.3%	-26.2%	-26.2%	-8.0%	-13.3%	-16.1%	-14.0%	40.40/								
2013	17,720				-26.8%	-28.8%	-28.5%	-28.3%	-28.4%	-10.7%	-15.4%	-17.5%	-15.6%	-12.4%	0.00/							
2014	19,737					-22.5%	-21.8%	-21.5%	-24.1%	-5.4%	-10.0%	-11.5%	-9.3%	-8.2%	-0.6% -5.2%	6.0%						
2015 2016	19,809 20,656						-23.5%	-23.0% -21.5%	-25.7% -24.4%	-8.0% -6.1%	-11.9% -9.5%	-12.6% -9.5%	-10.4% -7.3%	-10.0% -7.1%	-5.2% -3.6%	-6.2% -3.2%	2.1%					
2018	18,110							-21.3%	-24.4%	-0.1%	-9.5% -21.8%	-9.5%	-19.2%	-19.2%	-3.6%		-14.2%	-11.0%				
2017	19,339								-33.370	-19.4% -15.8%	-21.8% -17.8%	-21.2% -16.5%	-19.2% -14.2%	-19.2%	-16.4%	-15.5% -10.2%	-14.2% -9.2%	-11.0% -6.3%	-1.3%			
2018	18,831									-10.070	-17.8%	-19.4%	-14.2%	-14.4%	-11.7%	-10.2%	-9.2% -12.6%	-0.3%	-1.3%	-3.5%		
2019	17,703										-21.2/0	-24.9%	-17.0%	-22.9%	-20.6%	-19.1%	-12.0%	-9.4 %	-12.1%	-10.9%	-11.2%	
2020	19,607											2	-15.2%	-15.4%	-12.9%	-10.8%	-10.4%	-7.1%	-3.8%	-3.1%	-3.1%	-2.2%
/	,																					
	1 yr	-6.5%	-5.2%		-8.6%	-3.6%	-11.3%	-16.7%	-24.6%	1.0%	-2.5%	-11.7%	-14.0%			-6.2%	2.1%	-11.0%	-1.3%	-3.5%	-11.2%	-2.2%
	2 yr	-9.8%	-7.3%		-5.4%	-9.0%	-16.6%	-25.5%	-16.7%	6.7%	-9.1%		-15.6%			-3.2%	-14.2%	-6.3%	-5.7%	-10.9%	-3.1%	
	3 yr	-10.0%	-7.5%		-7.6%	-14.9%	-25.7%	-18.0%	-14.6%	-1.7%	-13.3%	-17.5%	-9.3%			-15.5%	-9.2%	-9.4%	-12.1%	-3.1%		
	4 yr	-6.9%	-4.5%		-13.4%	-24.2%	-18.2%	-15.1%	-21.7%	-8.0%	-15.4%		-10.4%			-10.2%	-12.6%	-15.4%	-3.8%			
	5 yr	-8.7%	-6.4%			-16.9%	-15.3%	-22.0%	-26.2%	-10.7%	-10.0%	-12.6%	-7.3%			-13.3%	-18.4%	-7.1%				
	6 yr	-14.1%	-11.7%		-15.0%	-14.3%	-22.1%	-26.2%	-28.4%	-5.4%	-11.9%	-9.5%	-19.2%			-19.1%	-10.5%					
	7 yr	-23.1%	-20.9%		-12.1%	-21.6%	-26.3%	-28.3%	-24.1%	-8.0%	-9.5%	-21.2%	-14.2%			-10.8%						
	8 yr	-15.1%	-12.8%		-19.6%	-26.3%	-28.5%	-21.5%	-25.7%	-6.1%	-21.8%	-16.5%	-17.0%		-12.9%							
	9 yr	-11.8%	-9.5%		-24.2%	-28.8%	-21.8%	-23.0%	-24.4%	-19.4%	-17.8%	-19.4%	-22.7%									
	10 yr		-17.0%	-24.2%	-26.8%	-22.5%	-23.5%	-21.5%	-35.3%	-15.8%	-21.2%	-24.9%	-15.2%									

SUMMER PEAK with DSM

(MW)

YEAR	WN Actual	TYSP 2001-2012	TYSP 2002-2011	TYSP 2003-2012	TYSP 2004-2013	TYSP 2005-2014	TYSP 2006-2015	TYSP 2007-2016	TYSP 2008-2017	TYSP 2009-2018	TYSP 2010-2019	TYSP 2011-2020	TYSP 2012-2021	TYSP 2013-2022	TYSP 2014-2023	TYSP 2015-2024	TYSP 2016-2025	TYSP 2017-2026	TYSP 2018-2027	TYSP 2019-2028	TYSP 2020-2029	TYSP 2021-2030
2001 2002 2003 2004 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	2,206 2,406 2,344 2,440 2,458 2,525 2,606 2,514 2,451 2,482 2,545 2,385 2,381 2,491 2,491 2,491 2,530 2,466 2,516 2,454 2,448 2,443	2,265 2,322 2,324 2,341 2,364 2,397 2,423 2,456 2,488 2,526	2,224 2,231 2,251 2,308 2,335 2,368 2,401 2,439 2,488	2,264 2,296 2,346 2,424 2,456 2,483 2,555 2,5590	2,391 2,440 2,459 2,502 2,476 2,513 2,550 2,583 2,661 2,661	2,417 2,473 2,531 2,576 2,625 2,677 2,725 2,758 2,803 2,860	2,470 2,531 2,576 2,627 2,677 2,718 2,744 2,787 2,836 2,889	2,535 2,559 2,595 2,641 2,702 2,738 2,800 2,871 2,937 2,978	2,576 2,627 2,685 2,735 2,760 2,820 2,839 2,859 3,003 3,080	2,608 2,670 2,754 2,857 2,917 2,979 3,026 3,107 3,196	2,589 2,559 2,570 2,577 2,568 2,619 2,671 2,737 2,790 2,855	2,592 2,642 2,675 2,706 2,712 2,754 2,787 2,830 2,880	2,601 2,628 2,664 2,753 2,718 2,753 2,787 2,822 2,871 2,913	2,514 2,522 2,545 2,664 2,612 2,628 2,656 2,687	2,512 2,501 2,526 2,545 2,556 2,575 2,610 2,641	2,449 2,471	2,450 2,491 2,520 2,546 2,552 2,554	2,433 2,453 2,469 2,485	2,383 2,400 2,405	2,347	2,458 2,481	2,455
										FORECAS (PERC												
Year	WN Actual	TYSP 2001-2012	TYSP 2002-2011	TYSP 2003-2012	TYSP 2004-2013	TYSP 2005-2014	TYSP 2006-2015	TYSP 2007-2016	TYSP 2008-2017	TYSP 2009-2018						TYSP 2015-2024	TYSP 2016-2025	TYSP 2017-2026	TYSP 2018-2027	TYSP 2019-2028	TYSP 2020-2029	TYSP 2021-2030
2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	2,206 2,406 2,344 2,440 2,458 2,525 2,606 2,514 2,451 2,482 2,545 2,385 2,381 2,491 2,530 2,466 2,516 2,454 2,454 2,454 2,454 2,454 2,443	-2.6% 3.6% 1.0% 4.2% 4.0% 5.4% 7.5% 2.3% -1.5% -1.8%	8.2% 5.1% 8.4% 8.0% 9.4% 6.2% 2.1% 1.7% 2.3%	3.5% 6.3% 4.8% 5.8% 7.5% 2.3% -1.3% -1.6% -0.4% -7.9%	2.0% 0.7% 2.7% 4.1% 1.5% -2.5% -2.5% -1.5% -8.6% -10.5%	1.7% 2.1% 3.0% -2.4% -6.6% -13.5% -15.1% -12.9%	2.2% 3.0% -2.4% -6.7% -7.3% -6.4% -13.1% -14.6% -12.2% -12.4%	2.8% -1.8% -5.5% -6.0% -5.8% -12.9% -15.0% -13.2% -13.8% -17.2%	-2.4% -6.7% -7.6% -13.6% -13.6% -13.8% -14.5% -14.5% -17.9%	-6.0% -7.1% -7.6% -14.6% -14.6% -15.1% -15.1% -15.9% -23.2%	-4.1% -0.5% -7.2% -3.0% -3.4% -7.7% -8.1% -12.1% -15.4%	-1.8% -9.7% -7.9% -6.7% -9.4% -8.6% -12.0% -14.6% -15.0%	-8.3% -9.4% -8.5% -8.1% -8.6% -12.0% -14.4% -14.7% -16.1%	-5.3% -0.6% -4.6% -3.4% -6.1% -8.1% -7.8% -9.1%	-0.8% 1.2% -2.4% -4.0% -6.2% -6.2% -7.5%	3.3% -0.2% 0.7% -2.6% -4.0% -3.3% -4.2%	0.7% 1.0% -2.6% -5.1% -4.1% -4.4%	3.4% 0.0% -2.1% -1.5% -2.3%	3.0% 0.7% 1.8% 1.1%	0.6% 4.3% 4.0%	-0.4% -1.6%	-0.5%
	1 yr 2 yr 3 yr 4 yr 5 yr 6 yr 7 yr 8 yr 9 yr 10 yr	-2.6% 3.6% 1.0% 4.2% 4.0% 5.4% 7.5% 2.3% -1.5% -1.8%	8.2% 5.1% 8.4% 8.0% 9.4% 11.6% 6.2% 2.1% 1.7% 2.3%	3.5% 6.3% 4.8% 7.5% 2.3% -1.3% -1.6% -0.4% -7.9%	2.0% 0.7% 2.7% 4.1% 1.5% -2.5% -2.7% -1.5% -8.6% -10.5%	1.7% 2.1% 3.0% -2.4% -6.6% -7.3% -6.6% -13.5% -15.1% -12.9%	2.2% 3.0% -2.4% -6.7% -7.3% -6.4% -13.1% -14.6% -12.2% -12.4%	2.8% -1.8% -5.5% -6.0% -12.9% -13.2% -13.2% -13.8% -17.2%	-2.4% -6.7% -7.6% -13.6% -15.6% -13.8% -14.5% -17.9% -18.3%	-6.0% -7.1% -7.6% -14.6% -14.6% -14.6% -15.1% -18.5% -19.0% -23.2%	-4.1% -0.5% -7.2% -7.6% -3.0% -3.4% -7.7% -8.1% -12.1% -15.4%	-1.8% -9.7% -11.0% -6.7% -9.4% -8.6% -12.0% -14.6% -15.0%	-8.3% -9.4% -6.5% -9.3% -8.6% -12.0% -14.4% -14.7% -16.1%	-5.3% -1.2% -0.6% -3.4% -6.1% -8.1% -7.8% -9.1%	-0.8% 1.2% -2.4% -4.0% -6.2% -6.2% -7.5%	3.3% -0.2% 0.7% -2.6% -4.0% -3.3% -4.2%	0.7% 1.0% -2.6% -5.1% -4.1% -4.4%	0.0% -2.1% -1.5% -2.3%	3.0% 0.7% 1.8% 1.1%	0.6% 4.3% 4.0%	-0.4% -1.6%	-0.5%

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 10 Attachment No. 1 of 1 Tab 4 of 4

10 yr

1.3%

-1.6%

-6.4%

-3.7%

-17.1% -23.1% -20.8% -11.5%

TYSP

TYSP

TYSP

TYSP

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TYSP

WINTER PEAK with DSM (MW)

TYSP

YEAR	WN Actual	2001-2012	2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2018	2010-2019	2011-2020	2012-2021	2013-2022	2014-2023	2015-2024	2016-2025	2017-2026	2018-2027	2019-2028	2020-2029	2021-2030
2002	2,077	2,149	2,155																			
2003	2,171	2,161	2,174	2,113																		
2004	2,171	2,171	2,184	2,140	2,162																	
2005	2,231	2,184	2,197	2,175	2,196	2,130																
2006	2,268	2,205	2,218	2,202	2,225	2,204	2,072	0.000														
2007	2,285	2,220	2,234	2,228	2,250	2,235	2,348	2,362	0.050													
2008 2009	2,243 2,381	2,241 2,260	2,255 2,275	2,248 2,261	2,284 2,302	2,289 2,327	2,398 2,449	2,407 2,438	2,352 2,409	2,320												
2009	2,301	2,280	2,275	2,261	2,302	2,327 2,347	2,449 2,466	2,430	2,409 2,458	2,320	2,287											
2010	2,366	2,204	2,290	2,207	2,351	2,347	2,400	2,434	2,438	2,399	2,207	2,296										
2012	2,292		2,000	2,329	2,410	2,418	2,534	2,559	2,534	2,545	2,220	2,371	2,327									
2013	2,269			2,020	2,424	2,445	2,575	2,622	2,581	2,611	2,311	2,401	2,368	2,271								
2014	2,377					2,467	2,590	2,668	2,629	2,654	2,296	2,454	2,394	2,318	2,370							
2015	2,171						2,618	2,723	2,686	2,694	2,353	2,439	2,440	2,297	2,299	2,146						
2016	2,141							2,785	2,746	2,758	2,410	2,450	2,443	2,343	2,326	2,112	2,124					
2017	2,240							2,865	2,829	2,840	2,482	2,481	2,476	2,362	2,346	2,150	2,153	2,153				
2018	2,577								2,884	2,911	2,524	2,512	2,509	2,367	2,357	2,171	2,177	2,173	2,202			
2019	2,499									2,991	2,587	2,550	2,542	2,383	2,375	2,170	2,205	2,190	2,192	2,271		
2020	2,464										2,650	2,597	2,587	2,408	2,406	2,180	2,210	2,206	2,259	2,210	2,256	
2021	2,501												2,627	2,436	2,436	2,197	2,210	2,217	2,245	2,271	2,287	2,438
										FORECAS (PERC												
										•												
		TYSP		TYSP	TYSP		TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP								
YEAR	WN Actual	2001-2012	2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2018	2010-2019	2011-2020	2012-2021	2013-2022	2014-2023	2015-2024	2016-2025	2017-2026	2018-2027	2019-2028	2020-2029	2021-2030
2002	2,077	-3.3%	-3.6%																			
2002	2,077 2,171	-3.3% 0.5%	-3.6%	2.8%																		
2003	2,171	0.5%	-0.1%	2.0%	0.4%																	
2004	2,231	2.2%	-0.0%	2.6%	1.6%	4.7%																
2006	2,268	2.9%	2.2%	3.0%	1.9%	2.9%	9.5%															
2007	2,285	3.0%	2.3%	2.6%	1.6%	2.3%	-2.7%	-3.2%														
2008	2,243	0.1%	-0.5%	-0.2%	-1.8%	-2.0%	-6.5%	-6.8%	-4.6%													
2009	2,381	5.4%	4.7%	5.3%	3.4%	2.3%	-2.8%	-2.3%	-1.1%	2.6%												
2010	2,329	2.0%	1.4%	1.8%	-0.1%	-0.8%	-5.6%	-5.1%	-5.2%	-2.9%	1.8%											
2011	2,366		1.3%	2.6%	0.3%	-0.4%	-5.1%	-5.5%	-4.9%	-4.6%	6.6%	3.1%										
2012	2,292			-1.6%	-4.9%	-5.2%	-9.5%	-10.4%	-9.5%	-9.9%	1.7%	-3.3%	-1.5%									
2013	2,269				-6.4%	-7.2%	-11.9%	-13.5%	-12.1%	-13.1%	-1.8%	-5.5%	-4.2%	-0.1%								
2014	2,377					-3.7%	-8.2%	-10.9%	-9.6%	-10.5%	3.5%	-3.2%	-0.7%	2.5%	0.3%							
2015	2,171						-17.1%	-20.3%	-19.2%	-19.4%	-7.7%	-11.0%	-11.0%	-5.5%	-5.6%	1.2%	0.00/					
2016	2,141							-23.1%	-22.0%	-22.4%	-11.2%	-12.6%	-12.4%	-8.6%	-8.0%	1.4%	0.8%	1.00/				
2017 2018	2,240 2,577								-20.8%	-21.1% -11.5%	-9.8% 2.1%	-9.7% 2.6%	-9.5% 2.7%	-5.2% 8.9%	-4.5% 9.3%	4.2% 18.7%	4.0% 18.4%	4.0% 18.6%	17.0%			
2018	2,499									-11.576	-3.4%	-2.0%	-1.7%	4.9%	5.2%	15.2%	13.3%	14.1%	14.0%	10.1%		
2019	2,499										-3.4 /0	-2.0%	-4.7%	2.3%	2.4%	13.0%	11.5%	14.1%	9.1%	11.5%	9.3%	
2020	2,501											-0.170	-4.8%	2.7%	2.7%	13.8%	13.2%	12.8%	11.4%	10.1%	9.4%	2.6%
	_,																					
	1 vr	-3.3%	-3.6%	2.8%	0.4%	4.7%	9.5%	-3.2%	-4.6%	2.6%	1.8%	3.1%	-1.5%	-0.1%	0.3%	1.2%	0.8%	4.0%	17.0%	10.1%	9.3%	2.6%
	1 yr 2 yr	-3.3%	-3.6%				9.5%	-3.2% -6.8%	-4.6% -1.1%		1.8%		-1.5%			1.2%	4.0%	4.0%	17.0%		9.3% 9.4%	2.0%
	2 yr 3 yr	0.0%	-0.1%				-6.5%	-2.3%	-5.2%		1.7%		-4.2 /0			4.2%	18.4%	14.1%			0.470	
	4 yr	2.2%	-0.0%	3.0%			-2.8%	-2.3%	-4.9%		-1.8%		-11.0%			18.7%	13.3%	11.7%	11.4%			
	5 yr	2.9%	2.2%	2.6%			-5.6%	-5.5%	-9.5%		3.5%		-12.4%			15.2%	11.5%	12.8%				
	6 yr	3.0%	2.3%	-0.2%			-5.1%	-10.4%	-12.1%		-7.7%		-9.5%			13.0%	13.2%					
	7 yr	0.1%	-0.5%				-9.5%	-13.5%	-9.6%		-11.2%		2.7%			13.8%						
	8 yr	5.4%	4.7%				-11.9%	-10.9%	-19.2%		-9.8%		-1.7%									
	9 yr	2.0%	1.4%	2.6%	-4.9%	-7.2%	-8.2%	-20.3%	-22.0%	-21.1%	2.1%	-2.0%	-4.7%	2.7%								
	10.10		1 20/	1 60/	C 40/	0 70/	47 40/	00 40/	00.00/	11 50/	2 40/	E 40/	4.00/									

-3.4%

-5.1%

-4.8%

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 15 Attachment No. 1 of 1 Tab 1 of 1 **Based on 80th Percentile of Weather Volatility** Summer Peak (MW) Forecast High Band Low Band 27,745 26,874 2022 27,310 2023 27,735 28,177 27,292 2024 28,136 28,585 27,687 2025 28,419 28,873 27,965 2026 28,800 29,260 28,341 2027 29,103 29,568 28,637 2028 29,476 29,947 29,005 2029 29,986 30,462 29,510 2030 30,485 30,967 30,003 2031 30,924 31,411 30,438

Notes: Summer Peak Forecast is from Schedule 3.1, Column (2) and does not include incremental conservation, cummulative load management, or incremental load management

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 17 (b) Attachment No. 1 of 1 Tab 1 of 2

Annual Impact of Customer-owned/leased Renewable Generation on Utility's Energy and Demand Forecasts

	FPL Annu	al Solar Energy	(MWh)		FPL Summer	Peak Solar Caj	pacity (MW)			FPL Winter	Peak Solar Ca	apacity (MW)	
Year	Residential	Commercial	Total	Peak Month	Peak Hour	Residential	Commercial	Total	Peak Month	Peak Hour	Residential	Commercial	Total
2022	779,606	97,353	876,959	August	17:00	211	25	236	January	8:00	21	2	23
2023	1,099,473	120,030	1,219,503	August	17:00	293	31	324	January	8:00	29	3	32
2024	1,410,325	141,855	1,552,179	August	17:00	371	36	407	January	8:00	40	4	43
2025	1,701,826	164,180	1,866,006	August	17:00	447	42	489	January	8:00	48	4	53
2026	2,028,087	186,189	2,214,277	August	17:00	532	47	580	January	8:00	58	5	63
2027	2,372,951	211,386	2,584,337	August	17:00	621	54	675	January	8:00	68	6	74
2028	2,730,019	260,065	2,990,083	August	17:00	714	67	781	January	8:00	79	7	86
2029	3,115,756	328,186	3,443,942	August	17:00	814	84	898	January	8:00	91	8	99
2030	3,554,709	416,699	3,971,407	August	17:00	929	107	1,037	January	8:00	103	11	114
2031	3,975,862	507,540	4,483,402	August	17:00	1,035	129	1,164	January	8:00	117	13	131

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 17 (c) Attachment No. 1 of 1 Tab 2 of 2

Forecast of Number of Customers with Customer-owned/leased Renewable Generation

	FPL P	rivate Solar Custo	mers
Year	Residential	Commercial	Total
2022	60,039	1,629	61,668
2023	81,505	1,904	83,409
2024	98,677	2,213	100,890
2025	117,567	2,507	120,074
2026	139,066	2,809	141,875
2027	160,587	3,185	163,772
2028	183,667	4,074	187,741
2029	208,841	4,997	213,838
2030	238,441	6,397	244,838
2031	262,421	7,449	269,871

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TYSP Year	2022
Staff's Data Request #	1
Question No.	20

	Number of	Number of Public	Number of Public	Cumulative	e Impact of PEV	. s ⁽³⁾
Year	PEVs ⁽¹⁾	PEV Charging Stations ⁽²⁾	DCFC PEV Charging Stations. ⁽²⁾	Summer Demand	Winter Demand	Annual Energy
				(MW)	(MW)	(GWh)
2022	116,202	4,646	1,713	34	15	231
2023	162,141	6,292	2,307	76	33	401
2024	220,697	5,535	2,993	131	57	623
2025	293,809	10,431	3,746	202	87	908
2026	391,240	10,802	3,944	297	129	1289
2027	512,104	12,678	4,589	418	181	1771
2028	657,776	14,681	5,381	565	244	2361
2029	831,693	17,063	6,338	744	322	3075
2030	1,037,328	18,700	7,476	958	414	3930
2031	1,273,609	20,908	8,588	1203	520	4913
Notes						

1) Number of PEVs includes cars and trucks.

2) Charging Stations represent estimated number of ports in FPL service territory. Quick-charge PEV station ports included in total Number of Public PEV Charging Stations.

3) MW and GWh are incremental from the end of 2021.

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TYSP Year Staff's Data Request : Question No.

2022 1 30

		TABLE 30/	A - FPL Total	Demand Re	sponse				
	Beginning Year: Number of	Avai Capa (M	ncity	New Customers	Ad Cap (M		Customer s	Lo Cap: (M	
Year	Customers	Sum	Win	Added	Sum	Win	Lost	Sum	Win
2012	821,033	1,880	1,615	14,890	40	33	3,796	11	9
2013	832,127	1,880	1,443	16,667	32	20	1,287	10	6
2014	847,507	1,857	1,419	11,282	38	28	26,638	103	87
2015	832,151	1,703	1,371	4,901	21	15	12,574	33	30
2016	824,478	1,716	1,312	7,926	26	20	25,479	62	54
2017	806,925	1,737	1,337	7,547	40	30	41,865	62	50
2018	772,607	1,729	1,339	7,983	56	39	48,566	77	61
2019	732,025	1,730	1,313	8,739	33	25	16,313	35	25
2020	724,449	1,734	1,315	4,766	36	26	12,428	47	30
2021	716,787	1,712	1,308	3,049	37	28	9,348	30	24

	TABLE 30B - FPL Residential On Call Program														
	Beginning Year:	Cap	lable acity	New	Ad Cap	acity	Customer	Cap	•						
¥7	Number of	(MW) C Sum Win		Customers	(M Sum	W) Win	s .	(M Sum	W) Win						
Year	Customers			Added			Lost	Sum	••• m						
2012	799,812	1,013	856	13,910	18	15	3,505	4	4						
2013	810,217	1,025	843	15,370	19	16	704	1	1						
2014	824,883	1,010	828	10,395	22	21	25,204	54	51						
2015	810,074	878	822	4,422	9	10	12,041	26	27						
2016	802,455	882	742	7,302	15	15	24,689	52	51						
2017	785,068	910	759	7,226	15	15	41,271	54	47						
2018	751,023	866	750	7,771	16	14	48,151	68	55						
2019	710,643	852	706	8,631	20	16	15,673	29	23						
2020	703,601	845	702	4,674	10	9	11,758	21	20						
2021	696,517	830	689	3,002	8	9	8,932	18	20						

		TABLE 30C	- FPL Busine	ess On Call P	rogram				
	Beginning Year: Number of	Cap	Available Capacity (MW) G Sum Win		Ad Cap (M	w)	Customer s		
Year	Customers	Sum Win		Added	Sum	Win	Lost	Sum	Win
2012	20,233	99	0	954	5	0	279	1	0
2013	20,908	102	0	1,283	7	0	568	2	0
2014	21,623	103	0	871	5	0	1,332	6	0
2015	21,162	103	0	462	3	0	525	4	0
2016	21,099	103	0	606	3	0	781	6	0
2017	20,924	80	0	296	1	0	586	5	0
2018	20,634	80	0	163	1	0	400	1	0
2019	20,397	78	0	87	0	0	630	3	0
2020	19,854	75	0	50	1	0	651	4	0
2021	19,253	72	0	25	0	0	395	2	0

TABLE 30D - FPL Commercial/Industrial Load Control Program (CILC)													
	Beginning	Avai	lable		Ad	ded		L	ost				
	Year:	Capacity		New	Capa	acity	Customer	Cap	acity				
	Number of			Customers	(M		s	(M	W)				
Year	Customers	Sum	Win	Added	Sum	Win	Lost	Sum	Win				
2012	452	497	500	0	0	0	7	3	3				
2013	445	493	418	0	0	0	8	4	4				
2014	437	483	422	0	0	0	78	32	27				
2015	359	459	379	0	0	0	2	1	1				
2016	357	461	394	0	0	0	4	2	1				
2017	353	462	392	0	0	0	1	1	1				
2018	352	466	388	0	0	0	4	2	0				
2019	348	465	389	0	0	0	5	1	1				
2020	343	465	391	0	0	0	8	13	5				
2021	335	459	387	0	0	0	7	5	2				

	FABLE 30E -	FPL Comme	rcial/Industri	ial Demand I	Reduction	n Rider	(CDR)		
	Beginning		lable		Ad		a .	Lo	
	Year: Number of			New Customers	Capa (M		Customer s	Capa (M	•
Year	Customers			Added	Sum	Win	Lost	Sum	Win
2012	490	237	222	26	18	18	4	2	2
2013	512	238	149	14	6	4	6	3	2
2014	520	239	150	16	11	7	13	6	4
2015	523	243	153	17	8	5	4	2	1
2016	536	251	157	18	8	5	5	3	2
2017	549	265	166	25	23	15	5	2	1
2018	569	293	178	49	39	25	6	2	2
2019	612	320	202	21	13	10	6	2	1
2020	627	341	212	42	26	17	8	3	1
2021	661	342	224	22	29	18	13	4	2

Vere	Beginning Year: Number of	Avail Capa (M Sum	acity	New Customers	Ad Cap (M Sum	acity	Customer s	Lost Capacity (MW) Sum Win	
Year	Customers 46	34	37	Added	- O	0	Lost	3um 0	0
2012		-					1	•	
2013	45	22	33	0	0	0	1	0	0
2014	44	22	19	0	0	0	11	6	5
2015	33	19	18	0	0	0	2	1	1
2016	31	20	19	0	0	0	0	0	0
2017	31	21	20	0	0	0	2	1	1
2018	29	24	22	0	0	0	5	4	4
2019	24	15	16	0	0	0	0	0	0
2020	24	9	9	0	0	0	3	6	4
2021	21	9	8	0	0	0	1	0	0
iotes									

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		TAB	LE 30A -	Gulf Power Total	Demand F	Response				
	Beginning Year: Number of	Capacity		New Customers	Added Capacity (MW)		Capacity		Lost Capacity (MW)	
Year	Customers	Sum	Win	Added	Sum	Win	Lost	Sum	Win	
2012	8,679	14	18	2,284	2	3	485	1	1	
2013	10,478	18	23	2,943	5	6	794	1	2	
2014	12,627	22	28	2,468	4	5	714	1	2	
2015	14,381	29	17	2,594	5	3	728	1	1	
2016	16,247	29	17	2,166	4	2	693	1	1	
2017	17,720	32	19	1,952	4	2	513	1	1	
2018	19,159	34	21	1,385	2	1	746	1	1	
2019	19,833	36	21	870	11	11	546	1	1	
2020	20,122	46	31	648	1	1	574	1	1	
2021	20,196	46	31	397	1	0	559	1	1	

		TAF	BLE 30B -	Gulf Power Energ	gy Select P	rogram			
	Beginning Year: Number of	Available Capacity (MW)		New Customers	Added Capacity (MW)		Customers	Lost Capacity (MW)	
Year	Customers	Sum	Win	Added	Sum	Win	Lost	Sum	Win
2012	8,679	14	18	2,284	2	3	485	1	1
2013	10,478	18	23	2,943	5	6	794	1	2
2014	12,627	22	28	2,468	4	5	714	1	2
2015	14,381	29	17	2,594	5	3	728	1	1
2016	16,247	29	17	2,166	4	2	693	1	1
2017	17,720	32	19	1,952	4	2	513	1	1
2018	19,159	34	21	1,385	2	1	746	1	1
2019	19,833	36	21	846	2	1	546	1	1
2020	20,098	36	22	648	1	1	574	1	1
2021	20,172	36	22	397	1	0	559	1	1

	Beginning Year: Number of	TABLE 30C - G Available Capacity (MW)		Available Capacity New (MW) Customers		ded acity W)	Customers	Lost Capacity (MW)		
Year	Customers	Sum	Win	Added	Sum	Win	Lost	Sum	Win	
2012										
2013										
2014										
2015										
2016										
2017										
2018										
2019	0	0	0	24	10	10	0	0	0	
2020	24	10	10	0	0	0	0	0	0	
2021	24	10	10	0	0	0	0	0	0	

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	TABLE 31A - FPL Total Demand Response												
			Summer			Winter							
		Av	erage	Max	timum		Av	erage	Maximum				
	Number of		Number of		Number of	Number of	Number of			Number of			
Year	Events	(MW)	Customers	(MW)	Customers	Events	(MW)	Customers	(MW)	Customers			
2012	16	112	497,221	228	531,798	5	126	530,484	249	532,131			
2013	10	121	534,211	201	536,773	2	129	532,825	137	532,825			
2014	4	174	598,725	273	719,331	2	94	590,165	104	590,165			
2015	4	132	305,059	310	549,041	0	0	0	0	0			
2016	1	2	2,374	2	2,374	0	0	0	0	0			
2017	3	67	560,173	80	559,579	2	65	531,063	80	531,063			
2018	1	75	477,930	75	477,930	1	65	112,260	65	112,260			
2019	1	138	466,099	138	466,099	0	0	0	0	0			
2020	0	0	0	0	0	0	0	0	0	0			
2021	0	0	0	0	0	0	0	0	0	0			

			TABLE 31B - F	PL Residenti	al On Call & B	usiness On Ca	ll Programs				
			Summer			Winter					
		Av	erage	Max	timum		Av	verage	Maximum		
Year	Number of Events	(MW)	Number of Customers	(MW)	Number of Customers	Number of Events	(MW)	Number of Customers	(MW)	Number of Customers	
2012	16	112	497,221	228	531,798	5	126	530,484	249	532,131	
2013	10	121	534,211	201	536,773	2	129	532,825	137	532,825	
2014	4	174	598,725	273	719,331	2	94	590,165	104	590,165	
2015	4	132	305,059	310	549,041	0	0	0	0	0	
2016	1	2	2,374	2	2,374	0	0	0	0	0	
2017	3	67	560,173	80	559,579	2	65	531,063	80	531,063	
2018	1	75	477,930	75	477,930	1	65	112,260	65	112,260	
2019	1	138	466,099	138	466,099	0	0	0	0	0	
2020	0	0	0	0	0	0	0	0	0	0	
2021	0	0	0	0	0	0	0	0	0	0	

	TABLE 31C - FPL Commercial/Industrial Load Control (CILC), Commercial/Industrial Demand Reduction (CDR) & Curtailable Service (CS)										
			Summer					Winter			
		Av	erage	Max	timum		Av	erage	Max	Maximum	
	Number of		Number of		Number of	Number of		Number of		Number of	
Year	Events	(MW)	Customers	(MW)	Customers	Events	(MW)	Customers	(MW)	Customers	
2012	0	0	0	0	0	0	0	0	0	0	
2013	0	0	0	0	0	0	0	0	0	0	
2014	0	0	0	0	0	0	0	0	0	0	
2015	0	0	0	0	0	0	0	0	0	0	
2016	0	0	0	0	0	0	0	0	0	0	
2017	0	0	0	0	0	0	0	0	0	0	
2018	0	0	0	0	0	0	0	0	0	0	
2019	0	0	0	0	0	0	0	0	0	0	
2020	0	0	0	0	0	0	0	0	0	0	
2021	0	0	0	0	0	0	0	0	0	0	
Notes											
(Include Notes Here)											

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	TABLE 31A - Gulf Power Total Demand Response										
			Summer			Winter					
			AverageMaximuEvent SizeEvent Size				Average Event Size		Maximum Event Size		
Year	Number of Events	(MW)	Number of Customers	(MW)	Number of Customers	Number of Events	(MW)	Number of Customers	(MW)	Number of Customers	
2012	2	16	9,217	16	9,285	0	0	0	0	0	
2013	0	0	0	0	0	0	0	0	0	0	
2014	2	23	13,339	23	13,387	8	29	13,100	31	14,177	
2015	3	27	15,613	27	15,775	3	32	14,593	32	14,699	
2016	1	31	16,963	31	16,963	0	0	0	0	0	
2017	0	0	0	0	0	0	0	0	0	0	
2018	0	0	0	0	0	4	21	19,203	21	19,272	
2019	0	0	0	0	0	0	0	0	0	0	
2020	0	0	0	0	0	0	0	0	0	0	
2021	0	0	0	0	0	0	0	0	0	0	

			TAE	BLE 31B - G	ulf Power En	ergy Select P	rogram			
			Summer					Winter		
			rage	Maximum			Average		Maximum	
		Even	t Size	Event Size			Even	t Size	Event Size	
	Number of		Number of		Number of	Number of		Number of		Number of
Year	Events	(MW)	Customers	(MW)	Customers	Events	(MW)	Customers	(MW)	Customers
2012	2	16	9,217	16	9,285	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0
2014	2	23	13,339	23	13,387	8	29	13,100	31	14,177
2015	3	27	15,613	27	15,775	3	32	14,593	32	14,699
2016	1	31	16,963	31	16,963	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	4	21	19,203	21	19,272
2019	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0

			TABL	.E 31C - Gul	f Power Cur	tailable Load	Program			
			Summer					Winter		
		Ave	rage	Maximum			Ave	rage	Maximum	
		Even	t Size	Even	t Size		Event Size		Event Size	
	Number of		Number of		Number of	Number of		Number of		Number of
Year	Events	(MW)	Customers	(MW)	Customers	Events	(MW)	Customers	(MW)	Customers
2012										
2013										
2014										
2015										
2016										
2017										
2018										
2019	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0

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	TABLE 32A - FPL Total Demand Response								
		5	Summer Peal	K	Winter Peak				
Year	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activate d (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)		
2012	826,580	N	0	0	Ν	0	0		
2013	839,817	N	0	0	Ν	0	0		
2014	839,829	N	0	0	Ν	0	0		
2015	828,315	N	0	0	Ν	0	0		
2016	815,702	N	0	0	Ν	0	0		
2017	789,766	N	0	0	N	0	0		
2018	752,316	N	0	0	N	0	0		
2019	728,238	N	0	0	Ν	0	0		
2020	720,618	N	0	0	Ν	0	0		
2021	713,638	N	0	0	Ν	0	0		

TABL	TABLE 32B - FPL Residential On Call and FPL Business On Call Programs									
		S	Summer Peal	K	Winter Peak					
Year	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activate d (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)			
2012	825,585	N	0	0	N	0	0			
2013	838,816	N	0	0	Ν	0	0			
2014	838,871	N	0	0	Ν	0	0			
2015	827,395	N	0	0	Ν	0	0			
2016	814,773	N	0	0	Ν	0	0			
2017	788,825	N	0	0	N	0	0			
2018	751,349	N	0	0	Ν	0	0			
2019	727,248	Ν	0	0	Ν	0	0			
2020	719,613	N	0	0	Ν	0	0			
2021	712,620	N	0	0	N	0	0			

		S	Summer Peak			Winter Peak	
Year	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activate d (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)
2012	995	N	0	0	N	0	(
2013	1,002	N	0	0	Ν	0	(
2014	958	N	0	0	Ν	0	
2015	920	N	0	0	Ν	0	(
2016	929	N	0	0	Ν	0	(
2017	942	N	0	0	Ν	0	
2018	968	N	0	0	Ν	0	(
2019	989	N	0	0	Ν	0	
2020	1,006	N	0	0	Ν	0	(
2021	1,018	N	0	0	N	0	

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	TABLE 32A - Gulf Power Total Demand Response								
		5	Summer Peal	K	Winter Peak				
Year	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)		
2012	9,579	Y	9,217	16	Ν	0	0		
2013	11,553	Ν	0	0	N	0	0		
2014	13,504	Ν	0	0	N	0	0		
2015	15,314	Ν	0	0	Ν	0	0		
2016	16,984	Ν	0	0	Ν	0	0		
2017	18,439	Ν	0	0	N	0	0		
2018	19,479	Ν	0	0	N	0	0		
2019	20,007	Ν	0	0	Ν	0	0		
2020	20,159	Ν	0	0	N	0	0		
2021	20,115	Ν	0	0	N	0	0		

		TABLE 32	2B - Gulf Pow	ver Energy So	elect Program	n			
			Summer Peal	K		Winter Peak			
Year	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)		
2012	9,579	Y	9,217	16	N	0	0		
2013	11,553	Ν	0	0	Ν	0	0		
2014	13,504	Ν	0	0	N	0	0		
2015	15,314	Ν	0	0	Ν	0	0		
2016	16,984	Ν	0	0	Ν	0	0		
2017	18,439	Ν	0	0	N	0	0		
2018	19,479	Ν	0	0	Ν	0	0		
2019	19,983	Ν	0	0	N	0	0		
2020	20,135	Ν	0	0	Ν	0	0		
2021	20,091	Ν	0	0	Ν	0	0		

		TABLE 320	C - Gulf Powe	r Curtailable	Load Progra				
		5	Summer Peal	Υ.	Winter Peak				
Year	Average Number of Customers	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)		
2012				× /					
2013									
2014									
2015									
2016									
2017									
2018									
2019	24	Ν	0	0	Ν	0	0		
2020	24	Ν	0	0	Ν	0	0		
2021	24	Ν	0	0	Ν	0	0		

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	ſ			Recomme	nded Plan		
		Loss of		•	• •	ected Unserve	d Energy
	-		B	ase Case Load	Forecast (P	50)	
			Annual Isolated			Annual Assisted*	
			Summer				
		Loss of Load	Reserve Margin (%)	Expected	Loss of Load	Reserve Margin (%)	Expected
		Probability	(Including Firm	Unserved Energy	Probability	(Including Firm	Unserved Energy
Year		(Days/Yr)	Purchases)	(MWh)	(Days/Yr)	Purchases)	(MWh)
	2022	0.000001	25.7	0	0.000001	25.7	0
	2023	0.000019	22.9	0	0.000011	22.9	0
	2024	0.000547	22.6	0	0.000361	22.6	0
	2025	0.000940	23.1	0	0.000563	23.1	0
	2026	0.000003	22.1	0	0.000002	22.1	0
	2027	0.002604	22.5	0	0.001595	22.5	0
	2028	0.000007	22.9	0	0.000006	22.9	0
	2029	0.000001	22.9	0	0.000001	22.9	0
	2030	0.000000	22.4	0	0.000000	22.4	0
	2031	0.000000	22.6	0	0.000000	22.6	0
	2030	0.000000	22.4	0	0.000000	22.4	

* Assisted values for the FPL System assume approximately 175 MW of assistance for all months except for January and August.

			Business As	Usual Plan			
	Loss of	Load Probabilit	ty, Reserve Ma	rgin, and Exp	ected Unserve	d Energy	
		B	ase Case Load	Forecast (P	50)		
		Annual Isolated			Annual Assisted*		
		Summer					
	Loss of Load	Reserve Margin (%)	Expected	Loss of Load	Reserve Margin (%)	Expected	
	Probability	(Including Firm	Unserved Energy	Probability	(Including Firm	Unserved Energy	
Year	(Days/Yr)	Purchases)	(MWh)	(Days/Yr)	Purchases)	(MWh)	
2022	0.000001	25.7	0	0.000001	25.7	0	
2023	0.000019	22.9	0	0.000011	22.9	0	
2024	0.000547	22.6	0	0.000361	22.6	0	
2025	0.000940	23.1	0	0.000563	23.1	0	
2026	0.000003	22.1	0	0.000002	22.1	0	
2027	0.005507	21.4	0	0.003444	21.4	0	
2028	0.000056	20.5	0	0.000052	20.5	0	
2029	0.000018	20.1	0	0.000017	20.1	0	
2030	0.000004	20.2	0	0.000002	20.2	0	
2031	0.000004	20.0	0	0.000002	20.0	0	

* Assisted values for the FPL System assume approximately 175 MW of assistance for all months except for January and August.

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Existing Generating Unit Operating Performance

		Planned Out	-	Forced Outa	-	Equivalent Avai	-	Average Net	
		(PO	F)	(FO	F)	(EA	F)	Heat Rate	(ANOHR)
Plant Name	Unit No.	Historical	Projected	Historical	Projected	Historical	Projected	Historical	Projected
Cape Canaveral Energy Center	3	7.0%	7.0%	1.3%	1.1%	85.9%	86.4%	6,667	6,712
GCEC ⁴	4	3.2%	2.2%	5.2%	0.7%	86.3%	91.6%	13,400	12,873
GCEC⁵	5	3.7%	1.6%	5.9%	0.7%	85.6%	92.1%	19,448	12,490
GCEC	6	10.1%	5.0%	8.9%	0.9%	71.5%	88.5%	11,468	10,963
GCEC	7	9.5%	6.6%	11.0%	0.9%	68.0%	87.0%	11,320	10,733
GCEC ⁹	8	n/a	7.7%	n/a	0.7%	n/a	86.1%	n/a	10,385
Daniel ³	1	6.8%	1.3%	0.9%	0.9%	83.3%	92.3%	10,695	10,788
Daniel ³	2	11.4%	1.3%	16.7%	0.9%	62.1%	92.4%	10,703	10,797
Fort Myers	2	9.4%	6.1%	0.6%	0.7%	85.2%	87.7%	7,257	7,278
Fort Myers	3	1.2%	9.6%	0.8%	0.7%	95.1%	84.1%	10,521	10,247
Fort Myers	GTs	0.0%	0.0%	2.0%	0.7%	97.4%	93.8%	17,243	15,201
Lansing Smith CC	3	6.6%	5.4%	0.2%	0.6%	88.3%	88.5%	7,003	7,124
Lansing Smith ⁶ CT	ЗA	0.0%	n/a	0.0%	n/a	97.0%	n/a	16,808	14,011
Lauderdale	6	2.2%	10.8%	1.1%	0.7%	95.0%	82.9%	10,604	10,260
Lauderdale	GTs	0.5%	0.0%	0.7%	0.7%	98.8%	93.8%	8,853	23,989
Manatee ¹	1	0.0%	n/a	0.7%	n/a	94.7%	n/a	11,200	N/A
Manatee ¹	2	0.0%	n/a	0.6%	n/a	92.6%	n/a	11,069	N/A
Manatee	3	1.3%	6.7%	0.4%	0.6%	93.3%	87.1%	6,938	7,039
Martin	3	1.5%	6.4%	1.0%	0.6%	93.5%	87.6%	7,396	7,267
Martin	4	5.9%	3.8%	1.3%	0.6%	87.4%	90.2%	7,249	7,279
Martin	8	2.2%	5.9%	0.4%	1.0%	92.1%	87.6%	6,991	6,826
Okeechobee Energy Center ²	1	9.1%	7.5%	1.8%	1.5%	75.5%	85.5%	6,359	6,200
Pea Ridge ⁷	1-3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15,000
Perdido ⁸	1-2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9,900
Port Everglades Energy Center	5	7.3%	6.2%	0.6%	1.5%	86.7%	86.7%	6,707	6,516
Riviera Beach Energy Center	5	5.8%	5.6%	1.4%	1.1%	87.4%	87.9%	6,617	6,715
Sanford	4	9.4%	4.3%	0.3%	0.4%	87.0%	89.8%	7,202	7,181
Sanford	5	12.4%	7.1%	0.3%	0.4%	83.7%	87.0%	7,222	7,177
Scherer	3	11.3%	7.1%	0.3%	0.8%	86.3%	86.6%	11,150	10,825
Scherer ¹⁰	4	3.8%	n/a	1.7%	n/a	90.9%	n/a	10,954	N/A
St Lucie	1	5.4%	6.2%	5.1%	2.3%	89.5%	91.5%	10,468	10,480
St Lucie	2	6.9%	5.3%	2.1%	2.4%	91.0%	92.3%	10,648	10,428
Turkey Point	3	6.4%	6.5%	7.4%	2.3%	86.2%	91.2%	10,333	10,693
Turkey Point	4	5.9%	6.6%	0.6%	2.3%	93.5%	91.1%	10,189	10,730
Turkey Point	5	9.7%	6.4%	0.8% 0.7%	0.6%	83.3%	87.5%	7,121	6,848
West County Energy Center West County Energy Center	1	9.6% 5.8%	5.0% 6.1%	0.7% 0.7%	0.8% 0.8%	83.4% 89.2%	88.7% 87.6%	7,050 6,892	6,623 6,627
West County Energy Center West County Energy Center	2 3	5.8% 5.0%	5.9%	0.7%	0.8%	89.2% 86.6%	87.8%	6,892 6,953	6,622
west County Energy Center	3	5.0%	0.9%	0.0%	0.0%	00.0%	01.0%	0,903	0,022

Historical - average of past three years Projected - average of next ten years

Notes:

¹ Assumes conversion to Extreme Winter-only operation

² Historical average based on commercial in-service date of 4/1/19

³ Assumes first quarter 2024 retirement

⁴ Gulf Clean Energy Center (formerly known as Crist Plant). Assumes conversion to Extreme Winter-only operation in 2025

⁵ Gulf Clean Energy Center (formerly known as Crist Plant). Assumes conversion to Extreme Winter-only operation in 2025

⁶ Assumes conversion to Winter-only operation in 2025

⁷ Assumes fourth quarter 2024 retirement

⁸ Assumes fourth quarter 2029 retirement

9 COD 12/31/2021

¹⁰ Retired 12/31/2021

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TYSP Year2022Staff's Data Request #1Question No.35

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercia	al In-Service	Gross Capa	city (MW)	Net Capa	city (MW)	Firm Cap	acity (MW)	Capacity Factor
					Мо	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
Cape Canaveral	3	Brevard County	CC	NG	Apr	2013	1307	1410	1290	1393	1290	1393	52.11
Fort Myers Fort Myers	2 3A	Lee County Lee County	CC CT	NG	Jun Jun	2002 2003	1834 196	1809 202	1812 195	1787 201	1812 195	1787 201	64.37 3.18
Fort Myers	3A 3B	Lee County	CT	NG	Jun	2003	196	202	195	201	195	201	2.78
Fort Myers	3C	Lee County	CT	NG	Dec	2016	232	226	231	225	231	225	4.19
Fort Myers	3D	Lee County	CT	NG	Dec	2016	232	226	231	225	231	225	4.46
Fort Myers Fort Lauderdale	1, 9 6A	Lee County Broward	GT CT	FO2 NG	May Dec	1974 2016	109 232	124 226	231	123 225	108 231	123 225	0.11
		County Broward											
Fort Lauderdale	6B	County Broward	CT	NG	Dec	2016	232	226	231	225	231	225	2.41
Fort Lauderdale	6C 6D	County Broward	СТ СТ	NG	Dec	2016 2016	232 232	226 226	231	225	231 231	225 225	4.65 5.63
Fort Lauderdale	6E	County Broward	CT	NG	Dec	2010	232	226	231	225	231	225	4.45
Fort Lauderdale	3, 5	County Broward	GT	NG	Aug	1970	70	74	69	73	69	73	2.00
Manatee	1	County Manatee	ST	NG	Oct	1976	0	854	0	819	0	819	17.42
Manatee	2	County Manatee County	ST	NG	Dec	1977	0	854	0	819	0	819	12.93
Manatee	3	Manatee County	CC	NG	Jun	2005	1267	1283	1249	1265	1249	1265	59.32
Martin	3	Martin County	CC	NG	Feb	1994	493	539	487	533	487	533	44.14
Martin	4	Martin County	CC	NG	Apr	1994	493	539	487	533	487	533	33.24
Martin	8	Martin County	CC	NG	Jun	2005	1258	1294	1235	1271	1235	1271	62.92
Okeechobee	1	Okeechobee County	CC	NG	Mar	2019	1748	1700	1720	1672	1720	1672	65.34
Port Everglades	5	Broward County	CC	NG	Apr	2016	1254	1350	1237	1333	1237	1333	62.96
Riveria Beach	5	Palm Beach County	CC	NG	Apr	2014	1307	1398	1290	1381	1290	1381	49.64
Sanford	4	Volusia County	CC	NG	Oct	2003	1189	1201	1176	1188	1176	1188	43.43
Sanford	5	Volusia County	CC	NG	Jun	2002	1189	1201	1176	1188	1176	1188	46.58
Scherer	4	Monroe County St. Lucie	ST	SUB	Jul	1989	694	695	634	635	634	635	47.26
St. Lucie	1	County St. Lucie	ST	Nuc	May	1976	1025	1047	981	1003	981	1003	89.70
St. Lucie	2	County Miami Dade	ST	Nuc	Jun	1983	885	905	840	860	840	860	91.39
Turkey Point	3	County Miami Dade	ST	Nuc	Nov	1972	872	894	837	859	837	859	86.13
Turkey Point	4	County Miami Dade	ST	Nuc	Jun	1973	879	901	844	866	844	866	102.65
Turkey Point	5	County Palm Beach	CC	NG	May	2007	1295	1336	1270	1311	1270	1311	49.41
West County	1	County Palm Beach	CC	NG	Aug	2009	1281	1391	1259	1369	1259	1369	62.56
West County	2	County Palm Beach	CC	NG	Nov	2009	1281	1391	1259	1369	1259	1369	66.45
West County FPL NWFL (Former	3	County	CC	NG	May	2011	1281	1391	1259	1369	1259	1369	60.47
Gulf) Units Daniel	1	Jackson	FS	Coal	Sep	1977	273	273	251	251	251	251	65.97
Daniel	2	County Jackson	FS	Coal	Jun	1977	273	273	251	251	251	251	29.15
Gulf Clean Energy Center	4	County Escambia	FS	Coal	Jul	1981	82	82	75	75	75	75	0.06
Gulf Clean Energy Center	5	County Escambia	FS	Coal	Jun	1961	82	82	75	75	75	75	0
Gulf Clean Energy Center	6	County Escambia	FS	Coal/NG	May	1970	330	330	315	315	315	315	25.87
Gulf Clean Energy Center	7	County Escambia County	FS	Coal/NG	Aug	1973	520	520	496	496	496	496	19.46
Gulf Clean Energy Center	8	Escambia County	CT	NG	Dec	2021	943	951	940	948	940	948	0
Lansing Smith	3	Bay County	CC	NG	Apr	2019	670	656	660	646	660	646	71.33
Lansing Smith	А	Bay County	CT	LO	May	1971	33	41	32	40	32	40	0.06
Pea Ridge	1	Santa Rosa County	CT	NG	May	1998	12	15	12	15	12	15	71.64
Perdido	1	Escambia County	IC	LFG	Oct	2010	3	3	3	3	3	3	75.84
Scherer	3	Monroe County	FS	Coal	Jan	1987	235	235	215	215	215	215	11.73
Notes		erformance fror											

Florida Power & Light Company
Docket No. 20220000-OT
Ten-Year Site Plan
Staff's First Data Request
Request No. 36
Attachment No. 1 of 1
Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	36

Facility Name Unit No.		County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capa	city (MW)	Firm Capa	acity (MW)	Projected Capacity Factor*
					Мо	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
Dania Beach Clean Energy Center	7	Broward County	CC	NG	2nd Q	2022	1258	1261	1,258	1,261	1,258	1,261	89.0
Notes													
* The Projected Capacity	Factor values v	were calculated	by taking the a	verage of the p	rojected capaci	ity factors start	ing from the fir	st year the unit	is in service (I	Dania Beach Cl	ean EC, 2022)	through the ye	ar 2031.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staffs First Data Request Request No. 37 Attachment No. 1 of 1 Tab 1 of 1

2022 1 37 TYSP Year Staff's Data Request # Question No.

Facility Name	Unit No.	County	Unit Type	Primary	Commercia	al In-Service	Gross Cap	acity (MW)	Net Capa	city (MW)	Firm Cap	acity (MW)	Capacity Factor
T activity Praime	0	Location	enn type	Fuel	Мо	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
DeSoto Solar	1	DeSoto County	PV	Solar	Oct	2009	25.0	25.0	25.0	25.0	11.0	0.7	20.0
Space Coast Solar	1	Brevard County	PV	Solar	Apr	2010	10	10	10	10	4.0	0.1	18.0
Martin Solar Thermal (1)	1	Martin County	Solar Thermal	Solar	Dec	2010	75.0	75.0	75.0	75.0	N/A	N/A	N/A
Babcock Ranch Solar	1	Charlotte County	PV	Solar	Dec	2016	74.5	74.5	74.5	74.5	38.6	1.9	24.5
Citrus Solar	1	DeSoto	PV	Solar	Dec	2016	74.5	74.5	74.5	74.5	41.9	2.1	24.5
Manatee Solar	1	County Manatee	PV	Solar	Dec	2016	74.5	74.5	74.5	74.5	41.7	1.6	24.7
Coral Farms Solar	1	County Putnam	PV	Solar	Jan	2018	74.5	74.5	74.5	74.5	40.2	1.2	21.1
		County Alachua /		-									
Horizon Solar	1	Putnam County	PV	Solar	Jan	2018	74.5	74.5	74.5	74.5	40.2	1.1	21.8
Indian River Solar	1	Indian River County	PV	Solar	Jan	2018	74.5	74.5	74.5	74.5	39.8	0.0	24.6
Wildflower Solar	1	DeSoto County	PV	Solar	Jan	2018	74.5	74.5	74.5	74.5	41.0	0.0	24.4
Barefoot Solar	1	Brevard County	PV	Solar	Mar	2018	74.5	74.5	74.5	74.5	41.6	2.3	25.5
Blue Cypress Solar	1	Indian River County	PV	Solar	Mar	2018	74.5	74.5	74.5	74.5	35.1	2.6	24.4
Hammock Solar	1	Hendry County	PV	Solar	Mar	2018	74.5	74.5	74.5	74.5	34.8	2.4	24.5
Loggerhead Solar	1	St. Lucie	PV	Solar	Mar	2018	74.5	74.5	74.5	74.5	35.8	2.7	24.1
Miami Dade Solar	1	County Miami-Dade	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	39.2	3.5	23.3
Pioneer Trail Solar	1	County Volusia	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	38.4	1.8	22.7
Interstate Solar	1	County St. Lucie	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	39.5	3.0	23.8
Sunshine Gateway Solar	1	County Columbia	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	41.7	0.9	22.0
		County Martin											
Sweetbay Solar	1	County	PV	Solar	January	2020	74.5	74.5	74.5	74.5	28.1	2.3	22.2
Northern Preserve Solar	1	Baker County Desoto	PV	Solar	January	2020	74.5	74.5	74.5	74.5	33.0	0.5	19.9
Cattle Ranch Solar	1	County Putnam	PV	Solar	January	2020	74.5	74.5	74.5	74.5	34.8	1.5	24.6
Twin Lakes Solar	1	County	PV	Solar	January	2020	74.5	74.5	74.5	74.5	34.8	1.0	22.1
Blue Heron Solar	1	Hendry County	PV	Solar	January	2020	74.5	74.5	74.5	74.5	33.6	2.8	25.7
Babcock Preserve Solar	1	Charlotte County	PV	Solar	January	2020	74.5	74.5	74.5	74.5	36.1	2.0	25.5
Hibiscus Solar	1	Palm Beach County	PV	Solar	April	2020	74.5	74.5	74.5	74.5	40.5	2.9	24.6
Okeechobee Solar	1	Okeechobee County	PV	Solar	April	2020	74.5	74.5	74.5	74.5	36.6	2.3	26.4
Southfork Solar	1	Manatee County	PV	Solar	April	2020	74.5	74.5	74.5	74.5	45.0	1.8	27.5
Echo River Solar	1	Suwannee County	PV	Solar	April	2020	74.5	74.5	74.5	74.5	47.5	0.8	24.1
Blue Indigo Solar	1	Jackson County	PV	Solar	April	2020	74.5	74.5	74.5	74.5	49.4	0.1	24.4
Lakeside Solar	1	Okeechobee County	PV	Solar	December	2020	74.5	74.5	74.5	74.5	36.2	1.2	24.2
Trailside Solar	1	St. Johns County	PV	Solar	December	2020	74.5	74.5	74.5	74.5	39.0	1.1	23.1
Union Springs Solar	1	Union County	PV	Solar	December	2020	74.5	74.5	74.5	74.5	37.6	0.9	22.4
Egret Solar	1	Baker County	PV	Solar	December	2020	74.5	74.5	74.5	74.5	35.2	0.9	22.8
Nassau Solar	1	Nassau	PV	Solar	December	2020	74.5	74.5	74.5	74.5	34.7	0.6	21.9
Magnolia Springs Solar	1	County Clay County	PV	Solar	March	2021	74.5	74.5	74.5	74.5	36	1.1	23.6
Pelican Solar	1	St. Lucie	PV	Solar	February	2021	74.5	74.5	74.5	74.5	36	1.3	25.2
Palm Bay Solar	1	County Brevard	PV	Solar	March	2021	74.5	74.5	74.5	74.5	36	0.9	25.6
Rodeo Solar	1	County DeSoto	PV	Solar	March	2021	74.5	74.5	74.5	74.5	36	1.5	24.7
		County Palm Beach											
Sabal Palm Solar	1	County Manatee	PV	Solar	April	2021	74.5	74.5	74.5	74.5	36	1.6	24.6
Willow Solar	1	County Brevard	PV	Solar	May	2021	74.5	74.5	74.5	74.5	36	0.9	24.1
Discovery Solar	1	County Indian River	PV	Solar	May	2021	74.5	74.5	74.5	74.5	36	1.0	21.8
Orange Blossom Solar	1	County	PV	Solar	May	2021	74.5	74.5	74.5	74.5	36	1.3	23.7
Fort Drum Solar	1	Okeechobee County	PV	Solar	June	2021	74.5	74.5	74.5	74.5	36	1.5	22.4
Blue Springs Solar	1	Jackson County	PV	Solar	December	2021	74.5	74.5	74.5	74.5	41	0.0	23.3
Cotton Creek Solar	1	Escambia County	PV	Solar	December	2021	74.5	74.5	74.5	74.5	43	0.0	21.7
FPL Juno Beach Living Lab (2)	1	Various	PV	Solar	Various	Various	0.15	0.15	0	0	0	0.0	8.0
SolarNow	1	Various	PV	Solar	Various	2016-2021 Various	3.4	3.4	3.0	2.6	1.3	0.0	13.2
C&I Solar Partnership(3)	1	Various	PV	Solar	Various	2016 Various	3	3	1	0	0	0.0	5.7
Gulf Small Solar	1	Various	PV	Solar	Various	2021	0.1	0.1	0.0	0.0	0.0	0	15
Manatee Battery Storage*	1	Manatee County	BS	N/A	4th Q	2021	409	409	409	409	409	409	N/A
Sunshine Gateway	1	Columbia	BS	N/A	4th Q	2021	30	30	30	30	30	30	N/A
Battery Storage* Echo River Battery	1	County Suwannee	BS	N/A	4th Q	2021	30	30	30	30	30	30	N/A
Storage* Notes		County			· ×				L				
Capacity factors are actua the first year of operation. (1) The Martin Solar Ther (2) The FPL Living Lab rr (3) C&I Solar Partnership *Battery Storage units do	mal unit is a 7 esearch assets assets reflects	5MW unit capa reflects remova removal of the	ble of producir l of assets fron Daytona Kenr	ng steam to be n the FPL Juno nel Club assets	used in the Ma Beach location in 2021.	rtin 8 Combine n in 2021.	ed Cycle unit a				s provided are f	forecasted capa	city factors for

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 38 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	38

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercia	ll In-Service	Gross Cap	acity (MW)	Net Capa	city (MW)	Firm Capa	acity (MW)	Projected Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
Ghost Orchid Solar	1	Hendry County	PV	Solar	Jan	2022	74.5	74.5	74.5	74.5	33.6	1.9	22.8
Sawgrass Solar	1	Hendry County	PV	Solar	Jan	2022	74.5	74.5	74.5	74.5	33.2	1.9	22.5
Sundew Solar	1	St. Lucie County	PV	Solar	Jan	2022	74.5	74.5	74.5	74.5	35.4	1.9	22.6
Immokalee Solar	1	Collier County	PV	Solar	Jan	2022	74.5	74.5	74.5	74.5	32.3	2.4	23.5
Grove Solar	1	Indian River	PV	Solar	Jan	2022	74.5	74.5	74.5	74.5	24.4	1.9	22.5
Elder Branch Solar	1	Manatee County	PV	Solar	Jan	2022	74.5	74.5	74.5	74.5	31.0	2.4	25.8
Everglades Solar	1	Miami-Dade County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	26.0	3.5	24.8
Pink Trail Solar	1	St. Lucie County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	23.8	2.7	22.5
Bluefield Preserve Solar	1	St. Lucie County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	22.0	2.0	22.6
Cavendish Solar	1	Okeechobee County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	30.6	4.4	25.5
Anhinga Solar	1	Clay County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	29.2	1.9	21.6
Blackwater River Solar	1	Santa Rosa County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	28.2	0.0	22.2
Chipola River Solar	1	Calhoun County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	38.5	0.1	27.3
Flowers Creek Solar	1	Calhoun County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	33.3	0.1	22.9
First City Solar	1	Escambia County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	28.7	0.0	21.9
Apalachee Solar	1	Jackson County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	37.9	0.1	25.5
Wild Azalea Solar	1	Gadsden County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	39.8	0.0	27.3
Chautauqua Solar	1	Walton County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	40.6	0.1	27.2
Shirer Branch Solar	1	Calhoun County	PV	Solar	Jan	2023	74.5	74.5	74.5	74.5	38.4	0.2	27.2
Saw Palmetto Solar	1	Bay County	PV	Solar	May	2023	74.5	74.5	74.5	74.5	38.6	0.2	27.3
Cypress Pond Solar	1	Washington County	PV	Solar	May	2023	74.5	74.5	74.5	74.5	37.9	0.1	26.8
Etonia Creek Solar	1	Putnam County	PV	Solar	May	2023	74.5	74.5	74.5	74.5	34.4	1.5	26.4
Terrill Creek Solar	1	Clay County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	37.5	1.6	27.9
Silver Palm Solar	1	Palm Beach County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	27.0	2.8	25.3
Ibis Solar	1	Brevard County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	28.2	2.2	25.5
Woodyard Solar	1	Hendry County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	25.4	2.5	25.7
Beautyberry Solar	1	Hendry County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	26.4	2.5	25.1
Turnpike Solar	1	Indian River County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	27.5	2.4	25.2
Monarch Solar	1	Martin County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	26.4	2.6	25.4
Caloosahatchee Solar	1	Hendry County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	25.9	2.3	25.8
White Tail Solar	1	Martin County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	27.0	2.1	25.3
Prairie Creek Solar	1	DeSoto County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	34.6	2.6	29.6
Pineapple Solar	1	St. Lucie County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	26.7	2.5	25.3
Canoe Solar	1	Okaloosa County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	40.1	0.1	27.5
Sparkleberry Solar	1	Escambia County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	32.5	0.2	24.5

Sambucus Solar	1	Manatee County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	34.0	2.1	29.2
Three Creeks Solar	1	Manatee County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	35.6	1.9	29.4
Thomas Creek Solar	1	Nassau County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	37.8	1.3	27.5
Big Juniper Creek Solar	1	Santa Rosa County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	40.5	0.1	27.5
Wild Quail Solar	1	Walton County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	41.5	0.1	27.7
Pecan Tree Solar	1	Walton County	PV	Solar	Jan	2024	74.5	74.5	74.5	74.5	42.3	0.1	28.1
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2024	223.5	223.5	223.5	223.5	97.67	13.2	27.5
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2025	1490	1490	1490	1490	542.36	87.91	27.3
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2026	596	596	596	596	178.2	35.16	25.5
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2027	596	596	596	596	156.15	35.16	25.5
Unsited Battery Storage**	1	Unknown	BS	N/A	1st Q	2027	300	300	300	300	300	300	N/A
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2028	745	745	745	745	195	44.0	25.5
Unsited Battery Storage**	1	Unknown	BS	N/A	1st Q	2028	400	400	400	400	360	400	N/A
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2029	894	894	894	894	190	53	25.5
Unsited Battery Storage**	1	Unknown	BS	N/A	1st Q	2029	900	900	900	900	637	900	N/A
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2030	894	894	894	894	58	53	25.5
Unsited Battery Storage**	1	Unknown	BS	N/A	1st Q	2030	600	600	600	600	372	600	N/A
Unsited Solar PV	1	Unknown	PV	Solar	1st Q	2031	969	969	969	969	63	57	25.5
Unsited Battery Storage**	1	Unknown	BS	N/A	1st Q	2031	1000	1000	1000	1000	500	500	N/A
Notes		-							•				

Projections. projections. Capacity factors for PV solar units vary based on a variety of factors, including location, technology type (fixed or tracking), DC/AC ratio, and account for annual degradation. **Battery Storage units do not have a traditional capacity factor and therefore are listed as N/A in the capacity factor column.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 40 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	40

Nominal, Firm Purchases

		Firm	Purchases
Year		\$/MWh	Escalation %
HISTORY:			
	2019	30.65	
	2020	27.56	
	2021	41.65	
FORECAST:			
	2022	43.54	NA ⁽¹⁾
	2023	47.97	NA ⁽¹⁾
	2024	43.42	NA ⁽¹⁾
	2025	45.31	NA ⁽¹⁾
	2026	47.12	NA ⁽¹⁾
	2027	48.46	NA ⁽¹⁾
	2028	50.52	NA ⁽¹⁾
	2029	52.72	NA ⁽¹⁾
	2030	54.89	NA ⁽¹⁾
	2031	56.47	NA ⁽¹⁾
NI-4			

Notes

No default escalation is assumed. Pricing forecast is the weighted average of contract pricing from existing firm energy PPAs. Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 41 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request ‡	1
Question No.	41

Seller Name	Name Facility Name Unit No. County Location U		Init Tyne	Unit Type Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)		
						Sum	Win	Sum	Win	Sum	Win	Start	End
Shell Energy NA	Tenaska		Autauga	CC	Gas	NA	NA	765	765	885	885	11/09	05/23
Notes													

Florida Power & Light Compa	ny
Docket No. 20220000-OT	
Ten-Year Site Plan	
Staff's First Data Request	
Request No. 42	
Attachment No. 1 of 1	
Tab 1 of 1	

TYSP Year	2022	
Staff's Data Request #	1	
Question No.	42	

Seller Name Facility Nam	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Notes													
There are no Planned New	v Traditional Gener	ator PPAs in th	e current plann	ning period.									

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 43 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	43

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Cap	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End	
Wheelabrator Technologies	Broward South	NA	Broward	Steam	MSW	NA	NA	3.5	3.5	3.5	3.5	01/93	12/26	
Solid Waste Authority of Palm Beach	SWA 1	NA	Palm Beach	Steam	MSW	NA	NA	55	55	40	40	01/12	03/34	
Solid Waste Authority of Palm Beach	SWA 2	NA	Palm Beach	Steam	MSW	NA	NA	90	90	70	70	01/16	03/34	
Morgan Stanley	Kingfisher I	NA	Kingfisher	WT	Wind	NA	NA	178	178	N/A	N/A	01/16	12/35	
Morgan Stanley	Kingfisher II	NA	Kingfisher	WT	Wind	NA	NA	94	94	N/A	N/A	02/17	12/35	
Gulf Coast Solar Center I	Eglin	NA	Okaloosa	PV	Solar	NA	NA	30	30	N/A	N/A	06/17	12/42	
Gulf Coast Solar Center II	Holley	NA	Santa Rosa	PV	Solar	NA	NA	40	40	N/A	N/A	11/17	12/42	
Gulf Coast Solar Center III	Saufley	NA	Escambia	PV	Solar	NA	NA	50	50	N/A	N/A	11/17	12/42	
Notes	Notes													

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 44 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	44

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Notes													
There are no Planned New	v Renewable G	enerator PPAs	in the current p	lanning period	•								

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 46 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year2022Staff's Data Request #1Question No.46

Buyer Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Cap	oacity (MW)	Net Capa	city (MW)		'irm Capacity W)		Ferm Dates I/YY)
						Sum	Win	Sum	Win	Sum	Win	Start	End
Lee County Full Requirements Agreement ¹	Lee County Full Requirements Agreement	NA	Lee	Full Requirements	System Average	N/A	N/A	N/A	N/A	991 - 1,164	716 - 720	01/14	12/33
Florida Keys Long Term Agreement ²	Florida Keys Long Term Agreement	NA	Monroe	Full Requirements	System Average	N/A	N/A	N/A	N/A	148 - 174	110 - 136	05/11	12/31
Moore Haven	Moore Haven	NA	Glades	Partial Requirements	System Average	N/A	N/A	N/A	N/A	4	4	07/16	12/25
City of Homestead ³	City of Homestead	NA	Miami-Dade	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	51	51	08/15	12/26
City of Homestead ³	City of Homestead	NA	Miami-Dade	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	25	25	08/15	12/26
Florida Public Utilities Company ⁴	Florida Public Utilities Company	NA	Various	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	49	39	01/18	12/26
Florida Public Utilities Company ⁴	Florida Public Utilities Company	NA	Various	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	14	14	01/18	12/26
Florida Public Utilities Company ⁴	Florida Public Utilities Company	NA	Jackson	Full Requirements	Natural Gas	N/A	N/A	N/A	N/A	33	39	01/20	12/26
Florida Public Utilities Company ⁴	Florida Public Utilities Company	NA	Jackson	Full Requirements	Natural Gas	N/A	N/A	N/A	N/A	31	31	01/22	12/26
City of Quincy	City of Quincy	NA	Gadsen	Partial Requirements	System Average	N/A	N/A	N/A	N/A	19	19	01/16	12/27
City of Wauchula	City of Wauchula	NA	DeSotto	Full Requirements	System Average	N/A	N/A	N/A	N/A	14	10	01/17	12/23
City of New Smyrna Beach⁵	City of New Smyrna Beach	NA	Volusia	Partial Requirements	System Average	N/A	N/A	N/A	N/A	45	45	02/14	12/24
City of New Smyrna Beach	City of New Smyrna Beach	NA	Volusia	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	20	20	07/17	12/21
City of New Smyrna Beach ⁵	City of New Smyrna Beach	NA	Volusia	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	50	50	07/17	12/24
JEA	JEA	NA	Various	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	200	200	01/22	12/41
Seminole Electric Cooperative	Seminole Electric Cooperative	NA	Various	Partial Requirements	Natural Gas	N/A	N/A	N/A	N/A	200	200	06/14	05/21
Notes													
(1) The contract includes	1	ě											
(2) The contract includes	1	ě	ě										
(3) The contract includes	1	5	5										
The contract includes	1	U	U	,									
The contract includes	an option to ex	tend the agree	ment through I	December 31, 2	.027.								

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 47 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year2022Staff's Data Request #1Question No.47

Buyer Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Notes													
There are no Planned New PSAs in the current planning period.													

Florida Power & Light Company
Docket No. 20220000-OT
Ten-Year Site Plan
Staff's First Data Request
Request No. 49
Attachment No. 1 of 1
Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	49

		Annual Renewable Generation (GWh)									
Renewable Source	Actual		Projected								
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Utility - Firm	0	0	0	0	0	0	0	0	0	0	0
Utility - Non-Firm	5,928	7,735	10,169	13,694	17,192	18,917	20,191	21,848	23,725	25,650	27,735
Utility - Co-Firing	0	0	0	0	0	0	0	0	0	0	0
Purchase - Firm	1,944	1,950	1,950	1,950	1,950	1,950	1,920	1,920	1,920	1,920	1,920
Purchase - Non-Firm	556	535	535	535	535	535	565	565	565	565	565
Purchase - Co-Firing	0	0	0	0	0	0	0	0	0	0	0
Customer - Owned*	228	877	1,220	1,552	1,866	2,214	2,584	2,990	3,444	3,971	4,483
Total	8,657	11,097	13,874	17,731	21,543	23,616	25,260	27,323	29,654	32,106	34,704
Notes											
All energy for FPL-owned reliability analysis.	renewables is being cor	nsidered non-fir	m for the purp	oses of this tab	le. However, Fl	PL, accounts fo	or a percentage	of the namepla	ate rating of PV	facilities as fin	rm capacity in

Actuals for customer-owned generation represent the amount of energy sold to FPL and Gulf from customer facilities in 2021. These values correspond to Column (5) in Schedule 11.2.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 50 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	50

Plant Name	Land Available (Acres)	Potential Installed Net Capacity (MW)	Potential Obstacles to Installation					
None	N/A	N/A	N/A					
NOTE: The basis for this response are the solar sites listed as Preferred and Potential Sites which are described in TYSP Chapter								

4, pages 288-290. None of these solar sites are candidates for the installation of additional utility-scale solar.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 58 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	58

Project Name	Pilot Program (Y/N)	In-Service/ Pilot Start Date (MM/YY)	Max Capacity Output (MW)	Max Energy Stored (MWh)	Conversion Efficiency (%)
Community Energy Storage (3 locations)	. ,	05/16 - 01/17	0.1	0.2	85%
Southwest	Y	10/16	1.5	4	92%
Florida Bay	Y	12/16	1.5	1.5	94%
Mobile UPS	Y	2/17	0.8	<.1	98%
Babcock Ranch	Y	03/18	10	40	81%
Citrus	Y	03/18	4	16	91%
Wynwood	Y	12/22	10	40	76%
Virtual Power Plant (9 locations)	Y	06/19-07/20	0.08	0.19	90%
Dania Beach	Y	08/22	11.5	46	90%
University Microgrid	Y	10/22	3	9	85%
V2G Pilot	Y	12/22	1	1	n/a
Augmentation Pilot	Y	05/21	1	2	79%
Manatee Energy Storage Center	Ν	12/21	409	900	84%
Sunshine Gateway Energy Storage Center	Ν	12/21	30	75	88%
Echo River Energy Storage Center	Ν	12/21	30	75	88%
Resi. Living Lab (8 locations)	Y	5/21-8/21	0.04	0.09	90%
Innovation Way (7 locations)	Ν	2/22	0.05	0.1	90%
Tyndall Microgrid	Y	03/22	0.75	1.575	TBD

Notes

(Include Notes Here)

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 59 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	59

Project	Pilot	In-Service/	Projected	Projected	Projected		
Name	Program	Pilot Start Date	Max Capacity	Max Energy	Conversion		
	(Y/N)	(MM/YY)	Output (MW)	Stored (MHh)	Efficiency (%)		
EV + Storage (3 locations)	Y	8/21	1.05	1.8	87		
EVolution Hub	Y	8/22	8.8	17.6	TBD		
Unsited 2027 Battery 1	N	1/27	100	400	TBD		
Unsited 2027 Battery 2	Ν	1/27	100	400	TBD		
Unsited 2027 Battery 3	Ν	1/27	100	400	TBD		
Unsited 2028 Battery 1	Ν	1/28	100	400	TBD		
Unsited 2028 Battery 2	Ν	1/28	100	400	TBD		
Unsited 2028 Battery 3	Ν	1/28	100	400	TBD		
Unsited 2028 Battery 4	Ν	1/28	100	400	TBD		
Unsited 2029 Battery 1	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 2	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 3	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 4	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 5	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 6	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 7	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 8	Ν	1/29	100	400	TBD		
Unsited 2029 Battery 9	Ν	1/29	100	400	TBD		
Unsited 2030 Battery 1	Ν	1/30	100	400	TBD		
Unsited 2030 Battery 2	Ν	1/30	100	400	TBD		
Unsited 2030 Battery 3	Ν	1/30	100	400	TBD		
Unsited 2030 Battery 4	Ν	1/30	100	400	TBD		
Unsited 2030 Battery 5	Ν	1/30	100	400	TBD		
Unsited 2030 Battery 6	Ν	1/30	100	400	TBD		
Unsited 2031 Battery 1	Ν	1/31	500	2000	TBD		
Unsited 2031 Battery 2	Ν	1/31	500	2000	TBD		

Notes

Conversion efficiency based on equipment rated efficiency. Future units reflect expected equipment rated efficiency. TBD is to be determined.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 64 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year 2022 Staff's Data Request #

Notes

1 Question No. 64

zuestion i vo.						Zonal As-Available Pricing																
		As-Available	On-Peak	Off-Peak	NOI	RTHEAST ⁽¹⁾		NE-SOUTH ⁽¹⁾			SOUTHEAST			SOUTH			WEST			NORTHWEST ⁽²⁾		(2)
Year		Energy	Average	Average	As-Available Energy	On-Peak Average	Off-Peak Average	As- Available	On-Peak Average	Off-Peak Average	As- Available	On-Peak Average	Off-Peak Average	As- Available	On-Peak Average	Off-Peak Average	As- Available	On-Peak Average	Off-Peak Average	As- Available	On-Peak Average	Off-Peak Average
		(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)
	2012	22.46	28.42	20.34	22.06	27.67	20.07	22.87	29.06	20.66	22.54	28.56	20.40	22.77	29.07	20.53	22.06	27.76	20.04	27.64	33.56	25.66
	2013	22.92	25.29	22.00	22.54	24.72	21.70	23.19	25.64	22.24	22.92	25.28	22.00	23.35	25.96	22.34	22.62	24.87	21.74	31.37	38.04	29.14
	2014	27.19	30.64	25.99	26.75	30.00	25.60	27.55	31.09	26.31	27.24	30.69	26.03	27.52	31.23	26.25	26.91	30.21	25.75	35.78	44.36	32.91
	2015	17.47	20.06	16.54	17.21	19.64	16.33	17.65	20.32	16.69	17.52	20.10	16.60	17.69	20.50	16.69	17.26	19.75	16.37	25.24	31.67	23.09
Ē	2016	16.70	19.70	15.65	15.57	18.20	14.64	17.18	20.33	16.08	16.97	20.03	15.90	17.00	20.18	15.88	16.79	19.78	15.75	24.39	30.40	22.39
Act	2017	18.93	21.32	18.07	18.23	20.12	17.56	19.27	21.83	18.37	19.08	21.55	18.21	19.17	21.78	18.17	18.90	21.32	18.05	26.69	31.52	25.08
	2018	21.85	25.73	20.50	21.56	25.31	20.25	22.10	26.11	20.71	21.85	25.71	20.50	21.98	25.95	20.60	21.76	25.57	20.42	32.93	40.04	30.55
	2019	18.64	22.05	17.47	18.72	22.16	17.54	18.74	22.15	17.57	18.57	21.95	17.41	18.65	22.09	17.47	18.52	21.88	17.36	25.65	31.06	23.84
	2020	14.50	16.89	13.65	14.56	16.94	13.71	(1)	(1)	(1)	14.45	16.81	13.61	14.56	17.02	13.68	14.45	16.80	13.60	20.68	24.52	19.36
	2021	25.42	29.13	24.26	25.62	29.37	24.26	(1)	(1)	(1)	25.34	29.02	24.21	25.35	29.16	24.17	25.41	28,99	24.22	36.53	44.87	33.58
	2022	33.81	31.81	32.64	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
	2023	27.64	25.43	26.35																		
	2024	22.84	20.13	21.26	J																	
6	2025	22.09	21.40	21.69]																	
cted	2026	20.98	23.31	22.34	J																	
. <u>[0]</u>	2027	22.68	20.93	21.66]																	
<u>-</u>	2028	22.35	23.02	22.74]																	
	2029	24.07	25.11	24.68]																	
	2030	25.47	25.92	25.73	1																	
	2031	25.46	27.04	26.38	1																	

1) In 2020, FPL consolidated its NE North and NE South zones into a single Northeast are suit of the elimination of a point of system export at New Smyrna Beach.
 The acquired Gulf Power area is shown as the FPL Northwest zone. The system-wide average prices do not include the Gulf Power / Northwest Zone prices prior to 2022. 3) FPL historically keeps track of avoided costs on a regional basis but forecasts avoided costs on a system-wide average basis.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 65 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	65

	Summer Capacity	Certification Dates (In-Service Date						
Generating Unit Name	(MW)	Need Approved (Commission)	PPSA Certified	(MM/YY)					
N/A	N/A	N/A	N/A	N/A					
	Combustion Turbine Unit Additions								
N/A	N/A	N/A	N/A						
	(Combined Cycle Unit Additior	18						
Dania Beach Clean Energy Center	1258	March, 2018	December, 2018	June, 2022					
	Steam Turbine Unit Additions								
N/A	N/A	N/A	N/A	N/A					
Notes									
(Include Notes Here)									

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 1 of 17

Solar (PV) - 2023

Months	1 2 3 4 5 6 7 8 9 10 11 1	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12									
	2021	2022	2023									
Permitting/Engineering/Fabrication												
Construction												
Unit In-Service												

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 2 of 17

Solar (PV) - 2023 - Saw Palmetto, Cypress Pond, Etonia Creek sites

Months	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12									
	2021	2022	2023									
Permitting/Engineering/Fabrication												
Construction												
Unit In-Service												

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 3 of 17

Solar (PV) - 2024 SOBRA

Months	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
	2022	2023	2024
Permitting/Engineering/Fabrication			
Construction			
Unit In-Service			

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 4 of 17

Solar (PV) - 2024 - SolarTogether

Months	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
	2022	2023	2024
Permitting/Engineering/Fabrication			
Construction			
Unit In-Service			

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 5 of 17

Solar (PV) - 2025

Months	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
	2023	2024	2025
Permitting/Engineering/Fabrication			
Construction			
Unit In-Service			

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 6 of 17

Solar (PV) - 2025 SolarTogether

Months	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
	2023	2024	2025
Permitting/Engineering/Fabrication			
Construction			
Unit In-Service			

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 7 of 17

Solar (PV) - 2026

Months	1 2 3 4	5 6 7 8	8 9 10 11 12	1 2 3	4 5 6 7 8	9 10 11 12	1 2 3 4 5	6789	10 11 12							
		2024			2025		2026									
Permitting/Engineering/Fabrication																
Construction																
Unit In-Service																

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 8 of 17

Solar (PV) - 2027

Months	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12									
	2025	2026	2027									
Permitting/Engineering/Fabrication												
Construction												
Unit In-Service												

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 9 of 17

Battery Storage - 2027

(Dates shown are approximate and are subject to change)

Months	1 2 3 4 5 6 7 8 9 10 11 12	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12						
	2024	2025	2026	2027						
Permitting/Engineering/Fabrication										
Construction										
Unit In-Service										

This timeline represents a unit addition that only occurs in FPL's Recommended resource plan.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 10 of 17

Solar (PV) - 2028

Months	1	2	3 4	- 5	6 7	8	9	10	11 1	2	12	3	4	5	6	7 8	9	10	11 12	2 1	2	3 4	15	6	7	8	91	0 11	1 12
					2026	,									202	7								202	28				
Permitting/Engineering/Fabrication																													
Construction							-																						
						-					_																		
Unit In-Service																													

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 11 of 17

Battery Storage - 2028

(Dates shown are approximate and are subject to change)

Months	1 2 3 4 5 6 7 8 9 10 11 12	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12						
	2025	2026	2027	2028						
Permitting/Engineering/Fabrication										
Construction										
Unit In-Service										

This timeline represents a unit addition that only occurs in FPL's Recommended resource plan.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 12 of 17

Solar (PV) - 2029

Months	1	2	3	4	5	6 7	8	9	10	11 1	12	1 2	3	4	5	6	7	89) 1() 11	12	1	2	3 4	5	6	7	8	9 1	0 1	1 12
						2027	7									202	28									20	29				
Permitting/Engineering/Fabrication																															
Construction							1																								
																															_
Unit In-Service																															

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 13 of 17

Battery Storage - 2029

Months	1 2 3 4 5 6 7 8 9 10 11 12	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12		
	2026	2027	2028	2029		
Permitting/Engineering/Fabrication						
Construction						
Unit In-Service						

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 14 of 17

Solar (PV) - 2030

Months	1 2 3 4 5 6 7 8 9 10 11 1	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
	2028	2029	2030
Permitting/Engineering/Fabrication			
Construction			
Unit In-Service			

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 15 of 17

Battery Storage - 2030

Months	1 2 3 4 5 6 7 8 9 10 11 12	2 1 2 3 4 5 6 7 8 9 10 11 12	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12		
	2027	2028	2029	2030		
Permitting/Engineering/Fabrication						
Construction						
Unit In-Service						

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 16 of 17

Solar (PV) - 2031

Months	1 2 3 4 5 6 7 8 9 10 11 1	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12			
	2029	2030	2031			
Permitting/Engineering/Fabrication						
Construction						
Unit In-Service						

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 66 Attachment No. 1 of 1 Tab 17 of 17

Battery Storage - 2031

Months	1 2 3 4 5 6 7 8 9 10 11 1	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12		
	2028	2029	2030	2031		
Permitting/Engineering/Fabrication						
Construction						
Unit In-Service						

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 67 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	67

	Unit	Unit	Fuel	Capacity Factor (%)										
Plant	No.	Туре	Туре	Actual	Actual Projected									
				2021 2022 2023 2024 2025 2026 2027 2028 2029 20						2030	2031			
Cape Canaveral	1	CC	NG	52.1%	35.3%	49.7%	50.6%	51.9%	43.5%	39.6%	40.2%	45.6%	53.1%	50.1%
Gulf Clean Energy Center	4	ST	NG	0.1%	0.7%	0.7%	1.4%	2.0%	1.9%	2.1%	1.7%	1.6%	1.5%	1.3%
Gulf Clean Energy Center	5	ST	NG	0.0%	2.9%	2.8%	4.9%	4.0%	4.1%	4.6%	4.5%	4.3%	4.4%	3.6%
Gulf Clean Energy Center	6	ST	NG	25.9%	0.4%	2.2%	3.7%	3.6%	3.9%	5.1%	4.2%	2.5%	2.5%	2.6%
Gulf Clean Energy Center	7	ST	NG	19.5%	0.7%	10.6%	6.7%	5.9%	6.7%	9.5%	7.1%	7.3%	6.3%	4.8%
Gulf Clean Energy Center	8	CT CC	NG	0.0% *	4.9% 91.9%	14.3%	10.7% 90.2%	7.4%	7.3%	9.9% 89.4%	6.3%	5.4%	6.3%	7.2%
Dania Beach Energy Center Daniel	1	ST	NG Coal	66.0%	28.7%	89.9% 8.0%	90.2% **	90.0% **	89.1% **	89.4% **	79.2% **	90.1% **	90.1% **	89.8% **
Daniel	2	ST	Coal	29.2%	25.8%	6.5%	**	**	**	**	**	**	**	**
Fort Myers	2	CC	NG	64.4%	75.6%	74.8%	70.4%	75.0%	75.5%	77.5%	78.8%	74.3%	66.2%	78.6%
Fort Myers	3	CT	NG	14.6%	1.3%	3.0%	2.2%	1.6%	1.5%	2.5%	1.1%	0.7%	0.6%	1.1%
Fort Myers	1,9	GT	NG	0.1%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%
Lansing Smith	3	CC	NG	71.3%	33.0%	51.7%	52.2%	50.1%	49.4%	44.5%	47.0%	48.2%	47.4%	47.0%
Lansing Smith	3A	CT	LO	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lauderdale	6	CT	NG	19.2%	1.1%	4.1%	3.1%	1.7%	1.9%	3.4%	1.1%	0.6%	0.3%	1.0%
Lauderdale	3,5	GT	NG	2.0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.2%	0.2%	0.1%	0.2%
Manatee	1	ST	NG	17.4%	0.0%	0.2%	0.2%	0.1%	0.2%	0.4%	0.1%	0.0%	0.0%	0.1%
Manatee	2	ST	NG	12.9%	0.0%	0.1%	0.1%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%
Manatee Martin	3	CC CC	NG NG	59.3% 44.1%	26.5% 5.2%	28.8% 8.4%	28.8% 6.9%	26.1% 5.7%	20.8% 6.8%	20.0%	25.4% 6.1%	25.6% 2.6%	24.0% 4.9%	22.8%
Martin	3	CC	NG NG	44.1% 33.2%	5.2%	8.4%	6.9%	5.7%	6.8% 14.0%	13.2%	6.1%	2.6% 9.3%	4.9% 9.4%	3.5% 9.1%
Martin ***	4	cc	NG	62.9%	52.0%	53.8%	53.3%	52.3%	30.9%	50.1%	46.7%	9.5% 44.1%	9.4% 48.8%	46.7%
Okeechobee Energy Center	1	CC	NG	65.3%	85.5%	85.9%	76.1%	81.6%	90.5%	89.8%	90.2%	91.1%	75.5%	91.7%
Pea Ridge	1	CT	NG	71.6%	0.7%	0.9%	1.0%	0.8%	**	**	**	**	**	**
Perdido	1	IC	LFG	75.8%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	**	**
Port Everglades	5	CC	NG	63.0%	79.9%	80.9%	78.9%	73.8%	80.1%	66.7%	84.6%	81.4%	87.4%	84.8%
Riveria Beach	5	CC	NG	49.6%	78.3%	79.3%	78.2%	65.7%	75.4%	76.9%	73.8%	79.8%	84.0%	75.8%
Sanford	4	CC	NG	43.4%	13.4%	12.0%	14.6%	15.1%	15.2%	13.7%	14.1%	11.7%	11.7%	8.5%
Sanford	5	CC	NG	46.6%	17.5%	14.3%	19.6%	18.6%	22.2%	20.1%	15.4%	15.9%	17.0%	12.0%
Scherer	3	ST	Coal	11.7%	39.6%	13.1%	3.0%	1.8%	1.3%	0.5%	1.0%	**	**	**
Scherer St. Lucie	4	ST ST	Coal NUC	47.3% 89.7%	89.3%	97.5%	86.5%	88.8%	97.5%	89.2%	89.3%	97.5%	89.2%	89.3%
St. Lucie	2	ST	NUC	91.4%	97.5%	88.6%	86.4%	97.5%	89.9%	90.4%	97.5%	89.6%	90.4%	97.5%
Turkey Point	3	ST	NUC	86.1%	97.5%	88.3%	87.0%	97.5%	90.6%	90.3%	97.5%	90.6%	90.4%	97.5%
Turkey Point	4	ST	NUC	102.7%	89.4%	87.1%	97.5%	89.2%	90.6%	97.5%	89.8%	90.6%	97.5%	89.7%
Turkey Point	5	CC	NG	49.4%	33.7%	27.7%	31.8%	31.2%	31.2%	32.5%	22.7%	27.2%	25.4%	30.0%
West County Energy Center	1	CC	NG	62.6%	61.7%	62.7%	54.8%	52.5%	49.5%	47.0%	50.3%	43.7%	49.8%	41.9%
West County Energy Center	2	CC	NG	66.5%	56.6%	56.1%	65.2%	56.6%	54.0%	53.4%	51.1%	53.5%	56.1%	46.4%
West County Energy Center	3	CC	NG	60.5%	71.3%	41.7%	46.3%	39.4%	46.4%	45.2%	42.7%	41.3%	45.2%	38.7%
Desoto Solar	1	PV	SUN	20.0%	21.8%	21.8%	21.8%	21.8%	21.8%	21.8%	21.8%	21.8%	21.8%	21.8%
Space Coast Solar	1	PV	SUN	18.8%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%
Citrus Solar	1	PV	SUN	24.5%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%
Babcock Ranch Solar Manatee Solar	1	PV PV	SUN SUN	24.2% 24.7%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%	25.8% 26.0%
Coral Farms Solar	1	PV PV	SUN	24.7%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%
Horizon Solar	1	PV	SUN	21.1%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Wildflower Solar	1	PV	SUN	24.4%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%
Indian River Solar	1	PV	SUN	24.6%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%
Loggerhead Solar	1	PV	SUN	24.1%	24.7%	24.7%	24.7%	24.7%	24.7%	24.7%	24.7%	24.7%	24.7%	24.7%
Barefoot Bay Solar	1	PV	SUN	25.5%	25.7%	25.7%	25.6%	25.7%	25.7%	25.7%	25.6%	25.7%	25.7%	25.7%
Hammock Solar	1	PV	SUN	24.5%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%
Blue Cypress Solar	1	PV	SUN	24.4%	24.6%	24.6%	24.6%	24.6%	24.6%	24.6%	24.6%	24.6%	24.6%	24.6%
Interstate Solar Miami Dade Solar	1	PV PV	SUN SUN	23.8% 23.3%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%	24.9% 24.9%
Pioneer Trail Solar	1	PV PV	SUN	23.3%	24.9%	24.9%	24.9%	24.9%	24.9%	24.9%	24.9%	24.9%	24.9%	24.9%
Sunshine Gateway Solar	1	PV	SUN	22.0%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%
Sweetbay Solar	1	PV	SUN	22.2%	22.1%	22.1%	22.1%	22.1%	22.1%	22.1%	22.1%	22.1%	22.1%	22.1%
Cattle Ranch Solar	1	PV	SUN	24.6%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Northern Preserve Solar	1	PV	SUN	19.9%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%
Twin Lakes Solar	1	PV	SUN	22.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%
Babcock Preserve Solar	1	PV	SUN	25.8%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%
Blue Heron Solar	1	PV	SUN	25.7%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%
Blue Indigo Solar	1	PV	SUN	24.8%	28.0%	28.0%	27.9%	28.0%	28.0%	28.0%	27.9%	28.0%	28.0%	28.0%
Southfork Solar	1	PV	SUN	27.5%	29.7%	29.7%	29.7%	29.7%	29.7%	29.7%	29.7%	29.7%	29.7%	29.7%

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Echo River Solar	1	PV PV	SUN	24.1%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2% 24.3%
Hibiscus Solar Okeechobee Solar	1	PV PV	SUN SUN	24.6% 26.4%	24.3% 25.0%	24.3%								
Magnolia Springs Solar	1	PV	SUN	20.4%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%
Egret Solar	1	PV	SUN	22.8%	23.9%	23.9%	23.9%	23.9%	23.9%	23.9%	23.9%	23.9%	23.9%	23.9%
Lakeside Solar	1	PV	SUN	24.2%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%
Trailside Solar	1	PV	SUN	23.1%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%
Nassau Solar	1	PV	SUN	21.9%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%
Union Springs Solar	1	PV	SUN	22.4%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%
Pelican Solar	1	PV	SUN	23.6%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%
Rodeo Solar	1	PV	SUN	21.1%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Palm Bay Solar	1	PV	SUN	22.9%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%
Sabal Palm Solar	1	PV	SUN	21.3%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%
Orange Blossom	1	PV	SUN	23.0%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%
Discovery Solar	1	PV	SUN	19.6%	19.9%	19.9%	19.9%	19.9%	19.9%	19.9%	19.9%	19.9%	19.9%	19.9%
Willow Solar	1	PV	SUN	22.9%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
Fort Drum Solar	1	PV PV	SUN SUN	21.1%	23.0%	23.0% 24.0%	23.0%	23.0% 24.0%	23.0% 24.0%	23.0% 24.0%	23.0% 24.0%	23.0%	23.0% 24.0%	23.0% 24.0%
Blue Springs Solar	1	PV PV	SUN		24.0%	24.0%	24.0%	24.0%		24.0%	24.0%	24.0%	24.0%	24.0%
Cotton Creek Solar Sundew Solar	1	PV PV	SUN	1.6%	23.4%	23.4%	23.4%	23.4%	23.4% 22.6%	23.4%	23.4%	23.4%	23.4%	23.4%
Ghost Orchid Solar	1	PV PV	SUN	*	22.9%	22.8%	22.8%	22.8%	22.8%	22.8%	22.8%	22.8%	22.8%	22.8%
Sawgrass Solar	1	PV	SUN	*	22.8%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%
Immokalee Solar	1	PV	SUN	*	23.7%	23.5%	23.5%	23.5%	23.5%	23.5%	23.5%	23.5%	23.5%	23.5%
Grove Solar	1	PV	SUN	*	22.8%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%
Elder Branch Solar	1	PV	SUN	*	26.4%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%
Wild Azalea Solar	1	PV	SUN	*	16.8%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%
Chautauqua Solar	1	PV	SUN	*	16.6%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%
Shirer Branch Solar	1	PV	SUN	*	17.1%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%	27.2%
Anhinga Solar	1	PV	SUN	*	*	22.2%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%	21.6%
Apalachee Solar	1	PV	SUN	*	*	26.3%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%
Blackwater River Solar	1	PV	SUN	*	*	22.6%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%
Bluefield Preserve Solar	1	PV	SUN	*	*	22.9%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%
Cavendish Solar	1	PV	SUN	*	*	26.1%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%
Chipola Solar	1	PV PV	SUN SUN	*	*	28.0% 25.1%	27.3% 24.8%							
Everglades Solar First City Solar	1	PV PV	SUN	*	*	22.3%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%
Flowers Creek Solar	1	PV PV	SUN	*	*	23.6%	22.9%	21.9%	21.9%	21.9%	22.9%	22.9%	21.9%	22.9%
Pink Trail Solar	1	PV	SUN	*	*	22.8%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%	22.5%
Cypress Pond Solar	1	PV	SUN	*	*	28.0%	26.8%	26.8%	26.8%	26.8%	26.8%	26.8%	26.8%	26.8%
Etonia Creek Solar	1	PV	SUN	*	*	27.4%	26.4%	26.4%	26.4%	26.4%	26.4%	26.4%	26.4%	26.4%
Saw Palmetto Solar	1	PV	SUN	*	*	28.4%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%
Caloosahatchee Solar	1	PV	SUN	*	*	*	26.1%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%	25.8%
Canoe Solar	1	PV	SUN	*	*	*	28.1%	27.5%	27.5%	27.5%	27.4%	27.5%	27.5%	27.5%
Fawn Solar	1	PV	SUN	*	*	*	25.6%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Beautyberry Solar	1	PV	SUN	*	*	*	25.4%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%
Ibis Solar	1	PV	SUN	*	*	*	25.8%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%
Monarch Solar	1	PV	SUN	*	*	*	25.7%	25.4%	25.4%	25.4%	25.4%	25.4%	25.4%	25.4%
Pineapple Solar	1	PV	SUN	*	*	*	25.6%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Prairie Creek Solar	1	PV	SUN	*	*	*	30.1%	29.6%	29.6%	29.6%	29.6%	29.6%	29.6%	29.6%
Silver Palm Solar	1	PV	SUN	*	*	*	25.6%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Terrill Creek	1	PV PV	SUN SUN	*	*	*	28.5% 25.5%	27.9% 25.2%						
Turnpike Solar Woodyard Solar	1	PV PV	SUN	*	*	*	25.5%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%
Big Juniper Creek Solar	1	PV PV	SUN	*	*	*	28.8%	27.5%	27.5%	27.5%	27.5%	27.5%	27.5%	27.5%
Hawthorne Creek Solar	1	PV	SUN	*	*	*	30.2%	29.6%	29.6%	29.6%	29.6%	29.6%	29.6%	29.6%
Little Pine Solar	1	PV	SUN	*	*	*	29.0%	27.9%	27.9%	27.9%	27.9%	27.9%	27.9%	27.9%
Pecan Tree Solar	1	PV	SUN	*	*	*	29.4%	28.1%	28.1%	28.1%	28.0%	28.1%	28.1%	28.1%
Sambucus Solar	1	PV	SUN	*	*	*	29.8%	29.2%	29.2%	29.2%	29.2%	29.2%	29.2%	29.2%
Sparkleberry Solar	1	PV	SUN	*	*	*	25.3%	24.5%	24.5%	24.5%	24.4%	24.5%	24.5%	24.5%
Thomas Creek Solar	1	PV	SUN	*	*	*	28.6%	27.5%	27.5%	27.5%	27.5%	27.5%	27.5%	27.5%
Three Creeks Solar	1	PV	SUN	*	*	*	30.1%	29.4%	29.4%	29.4%	29.4%	29.4%	29.4%	29.4%
White Tail Solar	1	PV	SUN	*	*	*	25.5%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%	25.3%
Wild Quail Solar	1	PV	SUN	*	*	*	29.0%	27.7%	27.7%	27.7%	27.6%	27.7%	27.7%	27.7%
2025 Solar	1	PV	SUN	*	*	*	*	27.3%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%
2026 Solar	1	PV	SUN	*	*	*	*	*	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%
2027 Solar	1	PV	SUN	*	*	*	*	*	*	25.5%	25.5%	25.5%	25.5%	25.5%
2028 Solar	1	PV	SUN	*	*	*	*	*	*	*	25.5%	25.5%	25.5%	25.5%
2029 Solar 2030 Solar	1	PV PV	SUN SUN	*	*	*	*	*	*	*	*	25.5%	25.5% 25.5%	25.5% 25.5%
2030 Solar 2031 Solar	1	PV PV	SUN	*	*	*	*	*	*	*	*	*	23.3% *	25.5%
Notes			5014	L	L									20.070
* Unit not yet in service														

* Unit not yet in service. ** Unit has been or will be retired and is no longer in service. *** Martin Unit 8 is also partially fueled by a 75 MW solar thermal facility (not listed above) that supplies steam when adequate sunlight is available, thus reducing fossil fuel use.

This table does not include proposed energy storage sites as they do not have a typical capacity factor.

Note that although all solar units degrade at 0.3% per year, the capacity factors shown do not decrease. In FPL's modeling, the capacity (MW) of the solar units decreases at the same rate of 0.3% per year while the capacity factor itself remains constant.

Actual capacity factors for PV solar units vary based on a variety of factors, including location, technology type (fixed or tracking), and DC/AC ratio.

All projected capacity factors are based on FPL's Recommended Plan with a P50 NEL, consistent with Schedule 6.

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TYSP Year	2022
Staff's Data Request #	1
Question No.	69

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYY)	Potential Conversion	Potential Issues
Manatee Unit 1	Gas/Oil	809	Oct-76	combined cycle	see notes
Manatee Unit 2	Gas/Oil	809	Dec-77	combined cycle	see notes
Gulf Clean Energy Center Unit 4	Gas	75	Jul-59	combined cycle	see notes
Gulf Clean Energy Center Unit 5	Gas	75	Jun-61	combined cycle	see notes
Gulf Clean Energy Center Unit 6	Gas	315	May-70	combined cycle	unit age is 52 years
Gulf Clean Energy Center Unit 7	Gas	496	Aug-73	combined cycle	unit age is 49 years
Notes					

All existing conventional steam generating units are capable of being converted to combined cycle operation. Of the potential units, Manatee Unit 1, Manatee Unit 2, Gulf Clean Energy Center Unit 4, and Gulf Clean Energy Center Unit 5 are planned to be retired by 2026, and they are no longer being considered for repowering.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 70 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	70

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYY)	Potential Conversion	Potential Issues
N/A					
Notes					
Coal fired or oil fired con natural gas. There are not fuel switching as they hav	any remaining	units in the FP	L system that a	are potential ca	

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 71 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	71

	Line	Nominal	Date	Date	In-Service		
Transmission Line	Length	Voltage	Need	TLSA	Date		
	(Miles)	(kV)	Approved	Certified			
Levee-Midway	150	500	N/A	April 1990	June 2030 (1)		
Sweatt-Whidden (2)	79	230	N/A	N/A	Decemeber 2025		
Notes							

(1) Final order certifying the corridor was issued in April 1990. Construction of 114 miles is complete and in-service. An additional 25 miles of the Levee-Midway project was completed in June 2019.

(2) Need Determination for the Sweatt Transmission to Whidden project was filed with the Florida Public Service Commission in March 2022 in Docket No. 20220045-EI. The project is scheduled to be completed by December 2025.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 72 Attachment No. 1 of 1 Tab 1 of 2

TYSP Year	
Staff's Data Request #	
Question No.	

2022 1 72

Sensitivity for Staff Data Request #72 - Recommended Plan with no CO2 Compliance Costs

Year	Changes to Existing Generation	Retirements	New Generation Additions	Summer RM%
2022	NFRC Line, DBEC (1,267 MW) +107 MW CC Upgrades, +440 MW Winter Upgrades	Scherer 4 (634 MW)	447 MW Solar	25.7
2023	+119 MW CC Upgrades, +131 MW Winter Upgrades	Shell PPA (885 MW)	745 MW Solar 447 MW SolarTogether Extension	22.9
2024	+114 MW CC Upgrades, +84 MW Winter Upgrades +15 MW OCEC Rotor Upgrade	Daniel 1&2 (502 MW)	894 MW SOBRA 745 MW SolarTogether Extension	22.6
2025	+87 MW CC Upgrades, +46 MW Winter Upgrades +29 MW OCEC Rotor Upgrade Convert GCEC 4&5, Lansing Smith A to Winter Only Operation	Pea Ridge (12 MW)	894 MW SOBRA 596 MW SolarTogether Extension	23.1
2026				21.4
2027		Broward South (4 MW)	3x1 Martin CC (1,991 MW)	27.5
2028				25.9
2029		Scherer 3 (215 MW)		22.9
2030		Perdido 1&2 (3 MW)		20.8
2031			75 MW Solar 13 x 100 MW Battery 4Hr	23.0
	Nameplate	4,843		
	S	Storage Additions (2022-2031):	1,300	

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 72 Attachment No. 1 of 1 Tab 2 of 2

TYSP Year	
Staff's Data Request #	
Question No.	

2022 1 72

Sensitivity for Staff Data Request #72 - Business as Usual Plan with no CO2 Compliance Costs

Year	Changes to Existing Generation	Retirements	New Generation Additions	Summer RM%
2022	NFRC Line, DBEC (1,267 MW) +107 MW CC Upgrades,	Scherer 4 (634 MW)	447 MW Solar	25.7
2023	+119 MW CC Upgrades,	Shell PPA (885 MW)	745 MW Solar 447 MW SolarTogether Extension	22.9
2024	+114 MW CC Upgrades +15 MW OCEC Rotor Upgrade	Daniel 1&2 (502 MW)	894 MW SOBRA 745 MW SolarTogether Extension	22.6
2025	+87 MW CC Upgrades +29 MW OCEC Rotor Upgrade	Pea Ridge (12 MW)	894 MW SOBRA 596 MW SolarTogether Extension	23.1
2026				21.4
2027		Broward South (4 MW)		20.1
2028			3x1 Martin CC (1,991 MW)	25.9
2029		Scherer 3 (215 MW)		22.9
2030		Perdido 1&2 (3 MW)		20.8
2031			75 MW Solar 13 x 100 MW Battery 4Hr	23.0
	Nameplate	4,843		
	S	1,300		

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TYSP Year	20)22
Staff's Data Request #		1
Question No.	74	

Year		Estimated Cost of Standards of Performance for Greenhouse Gas Emissions Rule for New Sources Impacts (Present-Year \$ millions)							
	Capital Costs	O&M Costs	Fuel Costs	Total Costs					
2021	N/A	N/A	N/A	N/A					
2022	N/A	N/A	N/A	N/A					
2023	N/A	N/A	N/A	N/A					
2024	N/A	N/A	N/A	N/A					
2025	N/A	N/A	N/A	N/A					
2026	N/A	N/A	N/A	N/A					
2027	N/A	N/A	N/A	N/A					
2028	N/A	N/A	N/A	N/A					
2029	N/A	N/A	N/A	N/A					
2030	N/A	N/A	N/A	N/A					
otes									
nclude Notes Here)									

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TYSP Year	2022
Staff's Data Request #	1
Question No.	76

	Unit	Fuel	Net Summer			Estimat	ed EPA Rule Impa	cts: Operational Effects		
11-14	Туре	Туре	Capacity				CSAPR/		CCR	
Unit			(MW)	ELGS	ACE or replacement	MATS	CAIR	CWIS	Non-Hazardous Waste	Special Waste
Cape Canaveral 3	CC	NG, ULSD	1290	N/A	N/A	N/A	N/A	Installation of additional controls possible	N/A	N/A
Fort Myers Gas Turbines 1 & 9	GT	DFO	108	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fort Myers 2	CC	NG	1812	N/A	N/A	N/A	N/A	Installation of additional controls certain for Impingement Mortality Reduction	N/A	N/A
Fort Myers 3 A-D	GT	NG, ULSD	852	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dania Beach 7	CC	NG, ULSD	1163	N/A	N/A	N/A	N/A	Installation of additional controls certain for Impingement Mortality Reduction	N/A	N/A
Lauderdale Gas Turbines 3 & 5	GT	NG, DFO	69	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lauderdale 6 A-F	GT	NG, DFO	1155	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port Everglades 5	СС	NG, ULSD	1237	N/A	N/A	N/A	N/A	Installation of additional controls possible	N/A	N/A
Riviera 5	CC	NG, ULSD	1290	N/A	N/A	N/A	N/A	Installation of additional controls possible	N/A	N/A
Sanford 4	CC	NG	1176	N/A	N/A	N/A	N/A	Additional controls not likely to be required	N/A	N/A
Sanford 5	CC	NG, DFO	1176	N/A	N/A	N/A	N/A	Additional controls not likely to be required	N/A	N/A
Turkey Point 3	PWR	NUC	837	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turkey Point 4	PWR	NUC	841	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turkey Point 5	CC	NG, ULSD	1270	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manatee 1	ST	NG, RFO	813	N/A	N/A		800 MW Cycling Project Complete	Additional controls not likely to be required	N/A	N/A
Manatee 2	ST	NG, RFO	813	N/A	N/A		800 MW Cycling Project Complete	Additional controls not likely to be required	N/A	N/A
Manatee 3	CC	NG	1249	N/A	N/A	N/A	N/A	Additional controls not likely to be required	N/A	N/A

Martin 3	CC	NG	487	N/A	N/A	N/A	N/A	Additional controls not likely to be required	N/A	N/A
Martin 4	CC	NG	487	N/A	N/A	N/A	N/A	Additional controls not likely to be required	N/A	N/A
Martin 8	CC	NG, ULSD	1235	N/A	N/A	N/A	N/A	Additional controls not likely to be required	N/A	N/A
Martin SOLAR	ST	SUN	75 ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
St. Lucie 1	PWR	NUC	981	N/A	N/A	N/A	N/A	Installation of additional controls possible	N/A	N/A
St. Lucie 2	PWR	NUC	840 ¹	N/A	N/A	N/A	N/A	Installation of additional controls possible	N/A	N/A
West County Energy Center 1	CC	NG, ULSD	1259	N/A	N/A	N/A	N/A	N/A	N/A	N/A
West County Energy Center 2	CC	NG, ULSD	1259	N/A	N/A	N/A	N/A	N/A	N/A	N/A
West County Energy Center 3	CC	NG, ULSD	1259	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Okeechobee Clean Energy Center 1	CC	NG, ULSD	1720	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scherer 3	ST	SUB	215 ¹	Dry ash handling systems previously installed. Scrubber wastewater treatment anticipated in the future	No impacts expected	Hg Control Installed 2010, FGD/SCR Installed 2011	SCR & FGD Installed 2011	Additional controls not likely to be required	Closure of existing ash pond beginning in 2018 and construction of new CCR landfill	N/A
Gulf Clean Energy Center (formerly Crist)	ST	NG	967	No additional controls anticiapted due to gas conversion projects	No impacts expected	Coal operation was retired in 2020 and no longer subject to MATS	N/A	Units 6 & 7 have existing closed cycle cooling system; Additional controls not likely to be required prior to Units 4 & 5 retirement dates	Ongoing compliance activities	
Gulf Clean Energy Center Unit 8	CT	NG, ULSD	940	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pea Ridge	ST	NG	12	N/A	No impacts expected	N/A	N/A	N/A	N/A	N/A
Perdidio	IC	LFG	3	N/A	No impacts expected	N/A	N/A	N/A	N/A	N/A
Smith	CC,CT	NG,ULSD	692	N/A	No impacts expected	N/A	N/A	Unit 3 has existing closed cycle cooling system; New lower capacity intake pumps installed	2017-2023 pond closure design and implementation	N/A
Daniel	ST	Coal	502	Dry bottom ash handling installed in 2020 for CCR compliance	No impacts expected	Scrubber, ACI, and Bromine Injection added for MATS	No additional control required, allowances will be purchased as needed	Units have existing closed cycle cooling system	Pond closure scheduled Fall 2020-2022 with ongoing compliance monitoring	N/A
otes										
nclude Notes Here)										
	Units included	above only reflec	t current operat	ing units or projects tha	t are under cons	struction or expected t	to become operationa	al this year		
Unit Type:	ST = Steam T	urbine, GT = G	as Turbine, C	C = Combined Cycle,	PV = Photov	oltaic, IC= Internal	Combustion, BS =	Battery Storage		
Fuel Type:	NG = Natural	Gas, DFO = Di	istillate Fuel C	oil, RFO = Residual F	uel Oil, ULSI) = Ultra-Low Sulfu	ır Distillate, BIT =	Bituminous Coal, SUB	= Sub-Bituminous Coal,	
	SUN = Solar	(PV & thermal)	, NUC = Nucl	ear, No = None						
		ship Share only								
Notes:	¹ FPL Owners			it 8 Net Summer Cap	abilitv					

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 77 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	77

Estimated EPA Rule Impacts: Cost Effects Fuel Unit Net Summer (CPVRR \$ millions) Unit CSAPR/ CCR Туре Туре Capacity Non-Hazardous ELGS ACE or replacement MATS CWIS (MW) CAIR Special Waste Waste Cape Canaveral 3 CC NG, ULSE 1290 N/A N/A N/A N/A 0.83 N/A N/A Fort Myers Gas Turbines 1 & 9 GT DFO 108 N/A N/A N/A N/A N/A N/A N/A N/A NG 1812 N/A N/A 7.83 N/A Fort Myers 2 CC N/A N/A NG, ULSD Fort Myers 3 A-D GT 852 N/A N/A N/A N/A N/A N/A N/A Dania Beach 7 CC NG, ULSD 1,163 N/A N/A N/A N/A 7.83 N/A N/A Lauderdale Gas Turbines 3 & 5 GT NG, DFO 69 N/A N/A N/A N/A N/A N/A N/A Lauderdale 6 A-F GT NG. ULSD 1155 N/A N/A N/A N/A N/A N/A N/A Port Everglades 5 CC NG, ULSD 1237 N/A N/A N/A N/A 0.83 N/A N/A CC NG, ULSD 1290 N/A N/A N/A N/A 0.83 N/A N/A Riviera 5 N/A N/A 1176 N/A Sanford 4 CCNG N/A N/A N/A 0 Sanford 5 CC NG, ULSD 1176 N/A N/A N/A N/A 0 N/A N/A N/A Turkey Point 3 PWR NUC 837 N/A N/A N/A N/A N/A N/A Turkey Point 4 PWR NUC 841 N/A N/A N/A N/A N/A N/A N/A Turkey Point 5 CC NG, ULSD 1270 N/A N/A N/A N/A N/A N/A N/A 800 MW ESP Project Cycling Manatee 1 ST NG, RFO 813 N/A N/A Complete 0 N/A N/A Project 2013 Complete 800 MW ESP Project Cycling ST NG, RFO 813 N/A Manatee 2 N/A N/A Complete 0 N/A Project 2012 Complete 1249 N/A N/A N/A 0 N/A N/A Manatee 3 CC NG N/A Martin 3 CC NG 487 N/A N/A N/A N/A 0 N/A N/A Martin 4 CC NG 487 N/A N/A N/A N/A 0 N/A N/A NG, ULSD Martin 8 CC 1235 N/A N/A N/A N/A 0 N/A N/A 75² N/A N/A N/A N/A N/A N/A Martin SOLAR ST SUN N/A PWR NUC 981 N/A N/A N/A N/A N/A N/A St. Lucie 1 0 PWR St. Lucie 2 NUC 840¹ N/A N/A N/A N/A 0 N/A N/A NG, ULSD West County Energy Center 1 CC1259 N/A N/A N/A N/A N/A N/A N/A West County Energy Center 2 $\mathbf{C}\mathbf{C}$ NG, ULSD 1259 N/A N/A N/A N/A N/A N/A N/A NG, ULSD N/A N/A N/A 1259 N/A N/A N/A CC West County Energy Center 3 N/A CC NG, ULSD 1720 N/A N/A N/A N/A N/A N/A Okeechobee Clean Energy Center 1 N/A No additional Heat Rate Completed Completed Scherer 3 ST SUB 215¹ Impovements N/A 2012 2010 anticipated Indiantown Cogeneration Unit retired December 2020 N/A N/A N/A N/A N/A N/A N/A No additional controls Gulf Clean Energy Center (formerly Plant No Impacts No Impacts No Impacts ST NG 967 anticipated due to gas N/A N/A Anticipated Anticipated Crist) Anticipated conversion projects 65 Gulf Clean Energy Center Unit 8 CT NG, ULSD 940 N/A N/A N/A N/A N/A N/A N/A Pea Ridge ST NG 12 N/A N/A N/A N/A N/A N/A N/A IC LFG 3 N/A N/A N/A N/A N/A N/A N/A Perdidio No additional controls No Impacts No Impacts Smith CC,CT NG,ULSD 692 N/A N/A 42.8 N/A Anticipated Anticipated anticipated No Impacts None, Unit will be retired No Impacts No Impacts No Impacts Daniel 502^{1} ST Coal 9.6 N/A Anticipated in 2024 Anticipated Anticipated Anticipated Notes

(Include Notes Here)

Units included above only reflect current operating units or projects that are under construction or expected to become operational this year

Unit Type: ST = Steam Turbine, GT = Gas Turbine, CC = Combined Cycle, PV = Photovoltaic, IC = Internal Combustion, BS = Battery Storage

Fuel Type: NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal,

SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None

Notes: ¹ FPL Ownership Share only

² Unit capability also included in Martin Unit 8 Net Summer Capability

³If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur

⁴FPL's solar and battery storage sites have not been affected by any current federal or state environmental rules, and FPL is actively monitoring EPA and FDEP

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TYSP Year	2022
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Question No.	78

	Unit	Fuel	Net Summer				A Rule Impacts onth/Year - Du	: Unit Availability ration)		
Unit	Туре	Туре	Capacity				CSAPR/		CCR	
			(MW)	ELGS	ACE or replacement	MATS	CAIR	CWIS	Non- Hazardous Waste	Special Waste
Cape Canaveral 3	СС	NG, ULSD	1290	N/A	N/A	N/A	N/A	2022-2025 time frame for fine mesh screens, if required. ³	N/A	N/A
Fort Myers Gas Turbines 1 & 9	GT	DFO	108	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fort Myers 2	СС	NG	1812	N/A	N/A	N/A	N/A	2022-2025 time frame for modified traveling screens, fish return system and fine mesh	N/A	N/A
	GT	NO LUOD	852	N/A	27/4	N/A	N/A	screens, if required. ³ N/A	N/A	N/A
Fort Myers 3 A-D Dania Beach 7	CC	NG, ULSD	1,163	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A 2022-2025 time frame for fine mesh	N/A N/A	N/A N/A
								screens, if required.3		
Lauderdale Gas Turbines 3 & 5	GT	NG, DFO	69	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lauderdale 6 A-F	GT	NG, ULSD	1155	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port Everglades 5	CC	NG, ULSD	1237	N/A	N/A	N/A	N/A	2022-2025 time frame for fine mesh screens, if required. ³	N/A	N/A
Riviera 5	CC	NG, ULSD	1290	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Sanford 4	CC	NG	1176	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Sanford 5	CC	NG, ULSD	1176	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Turkey Point 3	PWR	NUC	837	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turkey Point 4	PWR	NUC	841	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turkey Point 5	CC	NG, ULSD	1270	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manatee 1	ST	NG, RFO	813	N/A	N/A	ESP Project Complete 2013	800 MW Cycling Project Complete	No Impacts are Anticipated	N/A	N/A

Manate 3CCNG1249NA <t< th=""><th>Manatee 2</th><th>ST</th><th>NG, RFO</th><th>813</th><th>N/A</th><th>N/A</th><th>ESP Project Complete 2012</th><th>800 MW Cycling Project Complete</th><th>No Impacts are Anticipated</th><th>N/A</th><th>N/A</th></t<>	Manatee 2	ST	NG, RFO	813	N/A	N/A	ESP Project Complete 2012	800 MW Cycling Project Complete	No Impacts are Anticipated	N/A	N/A
Marin 3CCNG487NANANANANANANANANAMarin 4CCNG487NANANANANANANANANAMarin 8CCNGULSD1235NANANANANANANANAMarin 8CCNGULSD1235NANANANANANANANANANAMarin SOLARSTSUN75°NA <td>Manatee 3</td> <td>CC</td> <td>NG</td> <td>1249</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td></td> <td>N/A</td> <td>N/A</td>	Manatee 3	CC	NG	1249	N/A	N/A	N/A	N/A		N/A	N/A
Minth 4C.C.NG148/NANANANANAAnticipatedNANANAMartin 8C.C.NG, ULSD1235NiANiANiANiANiANiANiANiANiAMartin SOLARSTSUN75°NiA <td>Martin 3</td> <td>CC</td> <td>NG</td> <td>487</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>No Impacts are</td> <td>N/A</td> <td>N/A</td>	Martin 3	CC	NG	487	N/A	N/A	N/A	N/A	No Impacts are	N/A	N/A
Martin SOLARSCNCUCNCUCNANANANANANAAnticipatedNANANAMartin SOLARSTSUN72NA <td>Martin 4</td> <td>CC</td> <td>NG</td> <td>487</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>-</td> <td>N/A</td> <td>N/A</td>	Martin 4	CC	NG	487	N/A	N/A	N/A	N/A	-	N/A	N/A
Martin SOLARSTSUN73°N/A <td>Martin 8</td> <td>CC</td> <td>NG, ULSD</td> <td>1235</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td></td> <td>N/A</td> <td>N/A</td>	Martin 8	CC	NG, ULSD	1235	N/A	N/A	N/A	N/A		N/A	N/A
St. Lucie 1 PWR NUC 981 N/A N/A N/A N/A V/A V/A V/A St. Lucie 1 PWR NUC 981 N/A N/A N/A N/A Velocity cap excluder device, if required. ¹ N/A St. Lucie 2 PWR NUC 840 ¹ N/A N/A N/A N/A Velocity cap excluder device, if required. ¹ N/A N/A West County Energy Center 1 CC NG, ULSD 1259 N/A N/A N/A N/A N/A N/A West County Energy Center 3 CC NG, ULSD 1729 N/A N/A N/A N/A N/A N/A Obseechood Cean Energy Center 1 CC NG, ULSD 1720 N/A N/A N/A N/A N/A Gulf Clean Energy Center formerly Crist) ST SUB 215 ¹ No Impacts oversion projects N/A N/A N/A N/A N/A Gulf Clean Energy Center formerly Crist) ST Coal,NG 967 Coalbast anticipated oversion projects N/A N/A N/A N/A N/A Gulf Clean Energy Center formerly Crist) CT NG, ULSD 940 N/A N/A N/A N/A N/A <td>Martin SOLAR</td> <td>ST</td> <td>SUN</td> <td>75^{2}</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td></td> <td>N/A</td> <td>N/A</td>	Martin SOLAR	ST	SUN	75^{2}	N/A	N/A	N/A	N/A		N/A	N/A
St. Lucie 2PWR WNUC840'N/A <t< td=""><td>St. Lucie 1</td><td>PWR</td><td>NUC</td><td></td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>velocity cap excluder</td><td>N/A</td><td>N/A</td></t<>	St. Lucie 1	PWR	NUC		N/A	N/A	N/A	N/A	velocity cap excluder	N/A	N/A
West County Energy Center 2CCNG, ULSD1259N/AN/AN/AN/AN/AN/AN/AN/AN/AWest County Energy Center 3CCNG, ULSD1259N/AM/A <td>St. Lucie 2</td> <td>PWR</td> <td>NUC</td> <td>840¹</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>velocity cap excluder</td> <td>N/A</td> <td>N/A</td>	St. Lucie 2	PWR	NUC	840 ¹	N/A	N/A	N/A	N/A	velocity cap excluder	N/A	N/A
West County Energy Center 3CCNG, ULSD1259N/AN/AN/AN/AN/AN/AN/AN/AN/AOkeechobee Clean Energy Center 1CCNG, ULSD1720N/AN/AN/AN/AN/AN/AN/AN/AN/AN/AScherer 3STSUB215 ¹ No ImpactsNo ImpactsAnticipatedN/AAnticipated <td>West County Energy Center 1</td> <td>CC</td> <td>NG, ULSD</td> <td>1259</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	West County Energy Center 1	CC	NG, ULSD	1259	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Okeechobee Clean Energy Center 1 CC NG, ULSD 1720 N/A Anticipated <	West County Energy Center 2	CC	NG, ULSD	1259	N/A N/A N/A N/A				N/A	N/A	N/A
Scherer 3 ST SUB 215 ¹ No Impacts Anticipated N/A	West County Energy Center 3	CC	NG, ULSD	1259			N/A	N/A	N/A		
Scherer 3S1S1BS1B215°AnticipatedNo ImpactsNo ImpactsAnticipatedNo ImpactsNo ImpactsAnticipatedN/AGulf Clean Energy Center (formerly Crist) Unit 8CTNG, ULSD940N/AN	Okeechobee Clean Energy Center 1	CC	NG, ULSD	1720	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guild Clean Energy Center (formerly Crist)STCoal,NG967controls anticipated due to gas conversion projectsNo Impacts AnticipatedNo Impacts <br< td=""><td>Scherer 3</td><td>ST</td><td>SUB</td><td>215¹</td><td>~</td><td>-</td><td>^</td><td>•</td><td></td><td>_</td><td>N/A</td></br<>	Scherer 3	ST	SUB	215 ¹	~	-	^	•		_	N/A
Gulf Clean Energy Center (formerly Crist) Unit 8 CT NG, ULSD 940 N/A		ST	Coal,NG	967	controls anticipated due to gas	N/A	*	•	1		N/A
Perdidio IC LFG 3 N/A Daniel ST Coal 502 No Impacts Anticipated No Impacts Anticipated No Impacts Anticipated N/A N/A N/A N/A Include Notes Here) Units included above only reflect current operating units or projects that are under construction or expected to become operational this year		CT	NG, ULSD	940	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smith CC,CT NG,ULSD 692 No additional controls anticipated N/A No Impacts Anticipated No Impacts Anticipated	Pea Ridge	ST	NG	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SmithCC, CING, OLSD692controls anticipatedN/AN/AAnticipatedAnticipatedAnticipatedAnticipatedAnticipatedN/ADanielSTCoal502No Impacts AnticipatedNone, Unit will be retired in 2024No Impacts AnticipatedNo Impacts AnticipatedNo Impacts AnticipatedNo Impacts AnticipatedNo Impacts AnticipatedNo Impacts AnticipatedN/ANotesUnits included above only reflect current operating units or projects that are under construction or expected to become operational this yearUnit Type:ST = Steam Turbine, GT = Gas Turbine, CC = Combined Cycle, PV = Photovoltaic, IC = Internal Combustion, BS = Battery StorageFuel Type:NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal, SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = NoneNotes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur	Perdidio	IC	LFG	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Daniel ST Coal 502 No Impacts Anticipated None, Unit will be retired in 2024 No Impacts Anticipated No/A Unit type: ST = Steam Turbine, GT = Gas Turbine, CT = Gas Turbine, CT = Gas Turbine,	Smith	CC,CT	NG,ULSD	692		N/A	N/A		-	·	N/A
(Include Notes Here) Units included above only reflect current operating units or projects that are under construction or expected to become operational this year Unit Type: ST = Steam Turbine, GT = Gas Turbine, CC = Combined Cycle, PV = Photovoltaic, IC = Internal Combustion, BS = Battery Storage Fuel Type: NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal, SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur	Daniel	ST	Coal	502	~	be retired in	^	•	<u>^</u>	·	N/A
Units included above only reflect current operating units or projects that are under construction or expected to become operational this year Unit Type: ST = Steam Turbine, GT = Gas Turbine, CC = Combined Cycle, PV = Photovoltaic, IC = Internal Combustion, BS = Battery Storage Fuel Type: NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal, SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur	Notes										
Unit Type: ST = Steam Turbine, GT = Gas Turbine, CC = Combined Cycle, PV = Photovoltaic, IC = Internal Combustion, BS = Battery Storage Fuel Type: NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal, SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur	(Include Notes Here)										
 Fuel Type: NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal, SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur 		Units included a	above only reflect	t current operati	ng units or projects that	at are under cons	struction or expec	ted to become o	perational this year		
 Fuel Type: NG = Natural Gas, DFO = Distillate Fuel Oil, RFO = Residual Fuel Oil, ULSD = Ultra-Low Sulfur Distillate, BIT = Bituminous Coal, SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur 	Unit Type:	ST = Steam T	urbine, GT = G	as Turbine, CO	C = Combined Cycle	PV = Photovo	oltaic, IC = Inte	rnal Combusti	on, BS = Battery Stora	ge	
SUB = Sub-Bituminous Coal, SUN = Solar (PV & thermal), NUC = Nuclear, No = None Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur	51		,	,	5	·	,		,	0	
Notes: ¹ FPL Ownership Share only ² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur										,	
² Unit capability also included in Martin Unit 8 Net Summer Capability ³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur					, ,,	-,-					
³ If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur				l in Martin Ur	it 8 Net Summer Ca	pability					
		-					ut any unit imp	acts and tie-in	to existing eveteme wo	uld occur	
⁴ FPL's solar and battery storage sites have not been affected by any current federal or state environmental rules and FPL is actively monitoring EPA and FDEF											A and FDFD

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 80 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year2022Staff's Data Request #1Question No.80

FPL Uranium Coal Natural Gas Residual Oil Distillate Oil Year \$/MMBTU \$/MMBTU \$/MMBTU \$/MMBTU GWh GWh GWh GWh \$/MMBTU GWh 2012 16,916 0.57 4,745 2.89 80,594 4.97 378 13.81 54 20.52 2013 25,243 0.61 5,981 2.71 75,208 4.83 75 14.62 120 21.42 26,812 2.92 231 2014 0.63 4,482 79,211 5.29 14.70 128 20.84 2015 27,045 0.64 5,275 2.70 85,797 4.45 323 14.64 139 20.68 Actual 2016 28.033 0.64 4,165 2.76 86,157 3.90 426 14.14 230 14.97 2017 27,971 0.62 4,164 2.73 86,710 4.28 184 11.95 216 18.43 2018 28,176 0.57 2,583 2.46 91,213 4.45 248 129 16.01 11.83 2019 27,791 0.53 2,488 2.59 93,401 3.90 106 11.53 224 17.01 2020 28,221 0.48 2.75 95,278 3.45 53 11.53 16.70 1,636 66 2021 28,341 0.49 2,089 2.85 90,903 5.39 75 11.68 94 16.04 2022 2023 2024 2025 FPL and Gulf were modeled as individual systems through 2021. From 2022-2031, they are Projected 2026 modeled as one system. See "Integrated System" below. 2027 2028 2029 2030 2031 otes

Gulf

Voor	Year			Coal		Natural Gas		Resid	ual Oil	Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
	2012	-		5,391	4.18	10,517	3.68			1	22.16
	2013	-		5,602	3.60	8,834	4.67	-		1	22.27
	2014	-		7,394	3.69	8,207	5.02	-		1	21.16
	2015	-		4,876	3.47	7,787	3.60			1	16.01
Actual	2016	-		4,697	3.21	8,724	3.38	-		1	12.31
Act	2017	-		4,973	2.83	8,983	3.60			1	12.92
	2018			5,258	2.82	8,150	3.85			1	16.75
	2019			4,125	3.17	8,808	3.49			0	15.09
	2020	-		2,067	4.08	10,474	2.47			0	19.22
	2021	-	-	1,765	2.86	6,539	4.41			1	12.92
	2022										
	2023										
	2024										
g	2025	EDI	C16		1	: 11		1. 2021	E	000 0001	41
Projected	2026	FPL and				idual syst					, they are
Pro	2027			modeled	as one sy	stem. See	"Integrat	ed Syster	n" below.		
	2028										
	2029 2030										
	2030										
Notes	2031										

FPL System (including FPL NWFL)

Year		Urai	nium	C	oal	Natur	al Gas	Resid	ual Oil	Distillate Oil	
i car		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
	FPL	FPL and	From 20	rom 2022-2031, they are							
	2022	28,896	0.48	1,946	2.60	95,435	4.72	0	14.33	0	18.71
	2023	28,089	0.45	566	2.67	96,595	3.78	1	13.35	0	17.62
eq	2024	27,741	0.45	56	2.74	95,080	3.27	1	11.18	0	15.78
Projected	2025	28,836	0.46	33	2.80	91,811	3.22	0	10.77	0	15.90
Pre	2026	28,623	0.47	25	2.86	91,569	3.15	0	9.07	1	14.06
	2027	28,428	0.48	9	2.92	91,399	3.14	0	9.19	1	14.27
	2028	29,005	0.50	19	2.98	90,721	3.40	0	9.30	1	14.46
	2029	28,603	0.51	0	3.03	91,150	3.55	0	9.43	1	14.69
	2030	28,432	0.52	0	3.08	91,255	3.71	0	9.55	1	14.92
	2031	28,919	0.53	0	3.13	90,495	3.86	0	9.71	1	15.22
Notes											

Projections are based on FPL's Recommended Plan with a P50 load forecast, similar to Schedule 6 of the TYSP.

Florida Power & Light Company Docket No. 20220000-OT Ten-Year Site Plan Staff's First Data Request Request No. 83 Attachment No. 1 of 1 Tab 1 of 1

TYSP Year	2022
Staff's Data Request #	1
Question No.	83

Year		Ura	nium	Coal		Natural Gas		Residual Oil		Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
2021 Projected Fuel Prices	FPL	28,105	0.50	613	2.54	87,292	3.00	8	9.28	7	9.81
(2021 Ten Year Site Plan)	GULF			1,906	2.82	11,241	2.95			2	10.03
Note: Projected fuel prices for natural gas do not includ	e fixed transpo	rtation costs.									

Year		Ura	nium	Coal		Natural Gas		Residual Oil		Distillate Oil			
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU		
2021 Actual Delivered Fuel Prices	FPL	28,341	0.49	2,089	2.85	90,903	5.39	75	11.68	94	16.04		
(2021 A3 Schedules in Docket No. 20220001-EI)	GULF			1,765	2.86	6,539	4.41			1	12.92		
Note: Actual fuel prices for natural gas include fixed tra	Note: Actual fuel prices for natural gas include fixed transportation costs.												