



William P. Cox  
Senior Attorney  
Florida Power & Light Company  
700 Universe Boulevard  
Juno Beach, FL 33408-0420  
(561) 304-5662  
(561) 691-7135 (Facsimile)  
Email: will.p.cox@fpl.com

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,

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

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

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

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.

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.

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

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.

RESPONSE:

Please see responsive document provided for FPL and Gulf Power.

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.

**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.

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.

### **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 ( $\geq 500$  kW) and medium (21-499 kW) industrial customers and one econometric model for small ( $\leq 20$  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.



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.

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.

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.

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

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

- b. Not applicable.

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.

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

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.

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.

**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.

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.

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.



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.

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.

FPL residential energy sales

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

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

FPL Small Medium Commercial energy sales

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

FPL Small Industrial energy sales

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

Gulf Winter Peak

PeakMinTemp: minimum peak day temperature

FPL Summer Peak

MxTmpDay: Max Peak Day Temperature  
CDHprior1: cooling degree hours greater than or equal to 72 degrees for the day prior

Gulf Summer Peak

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.

- 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.

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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 15  
Page 2 of 2

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.

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 -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 3<sup>rd</sup> 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.



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.

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 <https://pvwatts.nrel.gov/>. 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.

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?

RESPONSE:

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.

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.

RESPONSE:

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.

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](http://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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 20  
Page 1 of 1

QUESTION:

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.

RESPONSE:

Please see attached document.

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:

- 1) 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.

- 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](http://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.



- 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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 22  
Page 1 of 1

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.

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.

QUESTION:

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.

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.

QUESTION:

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

RESPONSE:

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.

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.

QUESTION:

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

RESPONSE:

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.



Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 29  
Page 1 of 1

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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 31  
Page 1 of 1

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.

RESPONSE:

Please see responsive document provided for FPL and Gulf Power.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 32  
Page 1 of 1

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.

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.

RESPONSE:

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 exactly 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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 34  
Page 1 of 1

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:

Please see responsive document provided.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 35  
Page 1 of 1

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.

RESPONSE:

Please see responsive document provided.

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 in-service 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.



Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 37  
Page 1 of 1

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.

RESPONSE:

Please see responsive document provided.

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 in-service 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:

Please see responsive document provided.

QUESTION:

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.

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

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:

Please see responsive document provided.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 41  
Page 1 of 1

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:

Please see responsive document provided.

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:

Please see responsive document provided.

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

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:

Please see responsive document provided.

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:

Please see responsive document provided.



QUESTION:

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.

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

QUESTION:

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:

Please see responsive document provided.

QUESTION:

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:

Please see responsive document provided.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 48  
Page 1 of 1

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.

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

QUESTION:

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:

Please see responsive document provided.

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

QUESTION:

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:

Please see responsive document provided.

**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.

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,



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.

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.

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.

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.

QUESTION:

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

RESPONSE:

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.

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.

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.

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

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:

Please see responsive document provided.



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:

Please see responsive document provided.

**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.

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.

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 in-service in 2022.

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.

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.

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.

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 CO<sub>2</sub> 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.



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

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.

RESPONSE:

Please see responsive document provided.

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

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.

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.

RESPONSE:

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.

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

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:

Please see responsive document provided.



Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 69  
Page 1 of 1

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:

Please see responsive document provided.

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

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:

Please see responsive document provided.

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

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:

Please see responsive document provided.



QUESTION:

Please explain if the Company assumes carbon dioxide (CO<sub>2</sub>) 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 CO<sub>2</sub> compliance costs are first assumed to have a non-zero value.
- b. Please explain if the exclusion of CO<sub>2</sub> 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 CO<sub>2</sub> compliance costs.

RESPONSE:

Yes. Projected CO<sub>2</sub> 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<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> compliance costs.

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 Desulfurization ("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/bag-house 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.

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.

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 EPA’s 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

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 closed-cycle 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.

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.

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.

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 ("CO<sub>2</sub>") 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



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 West Virginia v. EPA (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.

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.

- 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.

- 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. CO<sub>2</sub> 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. CO<sub>2</sub> 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.

- 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 fossil-fuel fired power plants under EPA’s 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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 76  
Page 1 of 1

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:

Please see responsive document provided.

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

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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 78  
Page 1 of 1

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:

Please see responsive document provided.



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.

RESPONSE:

- 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 SO<sub>2</sub>, NO<sub>2</sub>, 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 CO<sub>2</sub> 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.

- 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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 79  
Page 3 of 3

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.

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

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.

RESPONSE:

Please see responsive document provided.

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.

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.

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.

- 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, U<sub>3</sub>O<sub>8</sub> (sometimes referred to as yellowcake).

(2) Conversion: During the second step, the U<sub>3</sub>O<sub>8</sub> is chemically converted into UF<sub>6</sub> 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 UF<sub>6</sub>.

(4) Fabrication: During the last step, fuel fabrication, the enriched UF<sub>6</sub> is changed to a UO<sub>2</sub> 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.



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

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.

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 fresh fuel assemblies were then amortized over the energy produced by 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.

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.

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

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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 84  
Page 1 of 1

QUESTION:

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.

RESPONSE:

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.

QUESTION:

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

RESPONSE:

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.

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.



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.

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.

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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 90  
Page 1 of 1

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.

RESPONSE:

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.

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.

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.

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.

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 92  
Page 2 of 2

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.



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.

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:

- ~ 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.

QUESTION:

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

RESPONSE:

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 on April 10, 2022 (Docket No. 20220051-EI) which is located at: <http://www.floridapsc.com/library/filings/2022/02358-2022/02358-2022.pdf>.

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 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**

Year	General	Plant Construction	Fixed O&M	Variable O&M
	Inflation	Cost	Cost	Cost
	%	%	%	%
2022	2.5	2	2.5	2.5
2023	2.5	2	2.5	2.5
2024	2.5	2	2.5	2.5
2025	2.5	2	2.5	2.5
2026	2.5	2	2.5	2.5
2027	2.5	2	2.5	2.5
2028	2.5	2	2.5	2.5
2029	2.5	2	2.5	2.5
2030	2.5	2	2.5	2.5
2031	2.5	2	2.5	2.5

TYSP Year 2022  
 Staff's Data Request # 1  
 Question No. 4

Date	FPL Hourly System Load (MW)																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1/1/2021	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	14399	14286	12545	12269	12138	12100	12102	12400	12543	13291	13182	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	16302	16326	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	8763	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	12657	13664	14255	15124	16102	16868	17446	17664	17277	17273	17108	16254	14987	13433	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	12478	13551	14403	14817	14953	14962	14916	14817	14615	14551	13922	13068	12449	11841	10814
2/8/2021	9707	9053	8718	8615	8761	9290	10314	11240	12097	12987	13503	14196	14843	15281	15463	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	15669	16133	16547	16770	16642	16283	16125	12664	14738	13606	12337	11164
2/11/2021	10106	9410	8726	8730	9252	10220	11117	12164	13243	13828	14332	15584	16091	16474	16674	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	12775	11721
2/13/2021	10762	10088	9676	9457	9332	9459	9888	10569	12123	13588	14702	15489	15921	16264	16517	16511	16421	15902	15659	15227	14353	13602	12755	11795
2/14/2021	10960	10520	9890	9623	9491	9494	9747	10364	12021	13616	14938	15880	16573	16935	17167	17269	17079	16581	16314	15822	14921	14055	13093	11969
2/15/2021	10993	10327	9639	9603	9629	9997	10725	11587	13050	14570	15813	16829	17512	18139	18411	18471	18270	17852	17674	17260	16230	15218	14125	12845
2/16/2021	11760	11069	10674	10430	10468	10908	11682	12304	13198	13910	14349	14990	15320	15113	14538	14328	14960	15237	14947	14117	14117	13128	12108	10986
2/17/2021	10012	9379	9039	8875	8946																			

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	10707	9901	9390	9167	9183	9643	10724	11727	12927	13973	14869	15491	15897	16024	16048	16048	15929	15725	15501	15322	14418	13295	12021	10645	
3/4/2021	9712	9211	8497	8289	8326	8877	9889	10748	11334	11828	12133	12405	12611	12809	13042	13274	13436	13442	13547	13584	12815	11938	10872	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	9900	
3/6/2021	9124	8630	8157	7960	7928	8096	8606	9402	10663	11749	12519	13019	13367	13485	13222	12930	12683	12459	12604	12455	11872	11266	10584	9802	
3/7/2021	9992	8561	8240	8041	8013	8197	8657	9384	10520	11452	11917	12188	12376	12404	12402	12392	12456	12441	12649	12848	12171	11340	10481	9456	
3/8/2021	8749	8315	8131	8120	8392	9158	10582	11661	12154	12283	12219	12336	12294	11076	12062	12028	12065	12305	12866	13175	12553	11734	10805	9698	
3/9/2021	8930	8481	8274	8234	8423	9120	10345	11249	11727	12009	12301	12473	12615	13272	12648	12658	12709	12744	12743	13107	12612	12657	11804	10750	9653
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	9398	8706	8331	8199	8294	8866	9887	10918	11830	12614	13285	13823	14252	14369	14488	15186	15149	14744	14252	14029	13317	12430	11574	10564	
3/13/2021	9650	8962	8552	8273	8227	8367	8818	9663	11041	12254	13165	13863	14466	14956	15388	15485	15481	14950	14382	14006	13221	12387	11474	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	10724	9860	9297	9028	8990	9345	10155	10944	11764	12971	14037	14963	15835	16580	17288	17838	18233	18372	17754	16757	16205	15150	13946	12533	
3/18/2021	11358	10469	9947	9601	9536	9897	10725	11455	12269	13584	14755	15831	16836	17630	17994	18294	18707	18568	17734	16947	16539	15510	14407	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	13204	13330	13625	13792	13883	13826	13460	13176	12967	12341	11554	10592	
3/21/2021	9637	8954	8456	8163	8061	8189	8514	8969	9950	11143	11976	12355	12584	12686	12779	12877	13103	13173	13038	12818	12776	12188	11213	10017	
3/22/2021	9028	8347	7995	7880	8023	8590	9451	10355	11047	11755	12236	12548	12750	12880	12977	13185	13399	13527	13477	13394	13432	12553	11568	10329	
3/23/2021	9270	8552	8170	7999	8063	8541	9510	10444	11078	11811	12475	13206	13817	13545	13942	14327	14684	14919	14684	13186	13997	13042	11861	10554	
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	
3/26/2021	12289	11291	10671	10306	10229	10613	11386	12123	13223	14663	16000	17183	18113	18662	19202	19644	19787	19495	18606	17438	16781	16034	14876	13651	
3/27/2021	12392	11378	10599	10140	9899	9900	10124	10570	11987	13717	15191	16368	17337	17848	18419	18758	18987	18806	18099	16980	16431	15654	14607	13537	
3/28/2021	12458	11555	10862	10352	10088	10022	10191	10505	11808	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	15420	16603	17527	18228	18865	19264	19290	19152	18567	17629	17260	16214	14955	13618	
3/30/2021	12313	11334	10729	10358	10236	10584	11420	12094	13317	14629	15894	16894	17754	18194	18698	19245	19646	19588	18966	18029	17588	16597	15483	14036	
3/31/2021	12724	11780	11148	10808	10696	11025	11791	12481	13501	14865	16039	17229	18151	18933	19470	19848	19997	19828	19129	18144	17575	16435	15065	13544	
4/1/2021	12129	11180	10557	10116	9991	10314	11061	11827	12624	13786	15128	16108	16937	17691	18310	18772	17707	17369	16537	15620	15075	13983	12716	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	12215	12281	11624	11089	10056	
4/4/2021	9251	8562	8151	7937	7892	8045	8393	8966	10122	11243	11946	12485	12815	13003	13101	13179	13226	13097	12750	12453	12662	12118	11187	9959	
4/5/2021	8932	8306	7967	7805	7938	8505	9429	10347	11151	11901	12492	12983	13330	13684	13978	14300	14563	14680	14412	13888	13778	12896	11719	10388	
4/6/2021	9247	8494	8070	7870	7931	8440	9486	10291	11050	11841	12475	12987	13444	13888	14396	14861	15219	15352	15020	14400	14206	13342	12046	10635	
4/7/2021	9536	8731	8258	8030	8070	8619	9627	10357	11153	11982	12727	13393	14002	14539	15110	15613	16028	16024	15620	14942	14660	13649	12419	11021	
4/8/2021	9876	9027	8387	8205	8279	8729	9699	10458	11386	12360	13138	13872	14549	15272	15928	16507	16915	16894	16388	15453	15055	14089	12857	11439	
4/9/2021	10336	9464	8871	8558	8522	8678	9588	10366	11681	12619	13766	14676	15543	16316	16992	17504	17855	17198	16653	15640	15214	14320	13222	12029	
4/10/2021	10971	10044	9448	9102	8934	9037	9360	9942	11437	13039	14432	15353	16129	16868	17400	17858	18030	17847	16951	15822	15272	14219	13103	11887	
4/11/2021	10795	10024	9520	9283	9210	9307	9544	10114	11743	13518	15064	16276	17170	17553	17574	17640	15845	14531	13426	13068	12925	12320	11389	10427	
4/12/2021	9400	8807	8428	8262	8296	8434	9023	10042	10878	11630	12602	13549	14354	14854	15389	16040	16649	17062	17212	16906	16004	15500	14468	13243	11638
4/13/2021	10372	9469	8914	8592	8555	8991	9923	10691	11592	12652	13529	14388	15236	16113	16851	17637	18291	18512	18014	16909	16199	15109	13842	12292	
4/14/2021	10931	10015	9414	9101	9073	9488	10396	11191	12223	13298	14261	15119	15785	16546	17201	17702	18112	18155	17606	16476	15931	14815	13715	12100	
4/15/2021	10632	9727	9228	8917	8833	9207	10107	10878	11914	13131	14294	15201	16005	16833	17563	18202	18484	18369	17669	16079	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	
4/17/2021	11726	10858	10221	9865	9635	9680	9940	10420	11845	13540	15011	16203	17225	17913	18581	19069	19396	19288	18633	17433	16719	15810	14575	13252	
4/18/2021	12015	11055	10447	10014	9808	9792	9945	10256	11784	13661	15315	16589	17692	18326	18892	19335	19594	19575	18707	18326	17723	16807</			



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	11278	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	11674	10728	10096	9632	9420	9388	9315	9350	9885	11714	13670	14240	15354	16230	16791	17174	17501	17609	17465	16916	16030	15605	15041	13869	12651
5/17/2021	11429	10523	9961	9619	9602	10070	10779	11650	12863	14001	15162	16118	17014	17643	18165	18537	18816	18753	18291	17280	16663	15844	14589	13215	
5/18/2021	11969	11052	10422	10109	10112	10614	11438	12231	13348	14467	15558	16539	17349	17860	18390	18895	19099	18901	18362	17418	16875	16117	14844	13548	
5/19/2021	12221	11380	10799	10479	10436	10894	11762	12501	13593	14716	15803	16725	17400	17935	18422	18811	18509	17866	17039	16698	16037	14864	13711		
5/20/2021	12480	11622	11077	10730	10673	11070	11879	12580	13622	14539	15281	16440	16979	17353	17610	17930	17978	17787	17336	16559	16118	15513	14319	13061	
5/21/2021	11804	10899	10330	9973	9896	10231	10945	11748	12951	14125	15177	16040	16690	17194	17691	18071	18197	17958	17263	16127	15516	14909	13936	12886	
5/22/2021	11720	10834	10193	9775	9541	9581	9772	10542	12067	13547	14819	15811	16562	17093	17512	17804	17883	17664	17019	16569	15374	14752	13719	12656	
5/23/2021	11586	10681	10068	9639	9371	9271	9316	9882	11360	12965	14303	15432	16394	17121	17667	17979	18119	18081	17596	16711	16088	15400	14108	12724	
5/24/2021	11407	10475	9886	9529	9473	9840	10484	11345	12555	13788	15023	16228	17221	18076	18741	19154	19419	19362	19002	17959	17079	16124	14779	13355	
5/25/2021	12263	11611	11081	10804	9944	10318	11052	11836	13083	14388	15664	16837	17818	18300	18646	19024	19843	19755	19299	17818	17300	16593	15174	13787	
5/26/2021	12439	11447	10851	10429	10301	10653	11389	12251	13441	14756	16135	17331	18298	19157	19822	20195	20356	20248	19760	18709	17861	16897	15511	14033	
5/27/2021	12672	11629	10943	10509	10338	10615	11272	12217	13376	14742	16175	17522	18670	19325	20173	20383	20697	20598	20065	19030	18077	17155	15786	14310	
5/28/2021	12872	11812	11037	10500	10354	10637	11261	12156	13569	15045	16508	17779	18814	19277	20307	20703	20925	20731	20130	18811	17881	17013	15909	14618	
5/29/2021	13347	12359	11773	11019	10700	10614	10669	11296	12993	14423	16221	17556	18644	19471	19986	20299	20442	20326	20236	19840	18676	17784	17042	15957	14860
5/30/2021	13673	12640	11845	11263	10885	10692	10661	11180	12743	14427	15961	17263	18282	19065	19506	19648	19469	18690	18269	17607	16703	15977	14901	13759	
5/31/2021	12650	11720	11070	10606	10427	10535	10660	11259	12888	14619	16204	17483	18462	19022	19344	19567	19618	19229	18692	17860	17368	16748	15469	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	14204	11362	10778	10457	10391	10747	11424	12342	13527	14870	16158	17230	18004	18628	19219	19630	19696	19258	18709	17823	17313	16808	15679	14293	
6/3/2021	13089	12233	11636	11270	11161	11530	12203	12969	14076	15371	16515	16555	17869	18265	18429	18384	18542	18323	17853	17261	16920	16523	15394	14070	
6/4/2021	12828	11944	11336	11000	10937	11325	11949	12730	13799	15377	16798	17952	18774	19410	19820	20068	20075	19527	18635	17778	17332	16816	15834	14665	
6/5/2021	13567	12647	11956	11517	11288	11312	11429	12164	13741	15409	16940	18167	19108	19706	20071	20229	20124	19506	18523	17801	17329	16919	16069	14946	
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	14213	13273	-122	-155	11910	12244	12825	13604	13273	14771	16172	17482	18315	19753	20619	21130	21359	21293	21159	20622	19639	18833	18149	16744	15306
6/9/2021	14030	13035	12313	11842	11684	11903	12352	13256	14502	16027	17436	18732	19848	20761	21376	21784	21931	21857	21347	20244	19262	18581	17231	15750	
6/10/2021	14390	13384	12665	12138	11939	12170	12632	13410	14732	16335	17829	19182	20304	21157	21826	22140	22339	22132	21534	20426	19503	18895	17590	16171	
6/11/2021	14804	13789	13068	12522	12308	12488	12876	13638	15029	16779	18310	19702	20834	21619	21938	22163	22103	21894	21299	20160	19333	18693	17473	16153	
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	13849	12981	12312	11843	11544	11440	11439	12121	13738	15662	17220	18687	19961	20556	20322	20152	20623	20586	19875	18918	18222	17697	16531	15159	
6/14/2021	13940	13037	12335	11870	11719	12010	12504	13219	14163	15604	17180	18617	19961	20725	21048	21508	21610	21478	20811	19873	19149	18458	17320	16061	
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	11253	10515	10020	9802	9827	10251	10996	11678	12804	14015	15157	16157	16906	17825	18416	18472	18284	17925	17517	16973	16766	16296	15336	14157	
6/18/2021	13048	12248	11634	11300	11158	11458	12102	12731	13893	15052	16220	17436	18567	19364	19961	20082	19955	19515	18900	18421	17807	17270	16344	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	
6/20/2021	15014	14093	13486	13095	12819	12711	12683	12958	13986	15590	17440	18954	20270	21171	21671	21883	21555	20520	19347	18376	17816	17211	16214	14994	
6/21/2021	13833	12957	12438	12160	12163	12572	13198	13820	14795	16122	17606	18784	19788	20892	21680	22190	22343	22133	21206	20008	19314	18559	17289	15873	
6/22/2021	14584	13636	13049	12603	12603	12901	13410	14105	15070	16254	17900	20830	21588	22048	22206	21993	21695	21064	20130	19360	18459	17122	15529		
6/23/2021	13918	12809	12150	11786	11700	11985	12480	13107	14316	15748	17098	18569	19743	20150	20047	19820	19439	18670	17849	17146	16746	16195	15207	13984	
6/24/2021	12895	12047	11426	11048	10959	11302	11854	12610	13664	14644	15583	16519	17270	17770	17973	17879	17780	17635	17287	16710	16486	16010	14940	13659	
6/25/2021	12511	11667	11122	10882	10965	11368	11939	12694	13682	15014	16356	17484	18356	19167	19726	19615	17473	17358	17233	16846	16319	16096	15693	14908	13922
6/26/2021	12885	12120	11547	11173	11023	11078	11186	11864	13426	15171	16592	17565	18541	19321	19879	19982	19427	18554	17835	16986	16537	16012	15226	14257	
6/27/2021	13364	12583	11983	11594	11358	11273	11233	11803	13431	15157	16773	18095	19136	19970	20471	20659	20588	20197	19425	18494	17887	17235	16107	14821	
6/28/2021	13622	12619	11960	11598	11501	11819	12319	13161	14583	16115	17243	18107	18774	19658	18655	18117	17759	17381	18774	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	11947	11240	10740	10528	10573	11008	11696	12463	13598	14922	16056	16714	16913	17129	16873	16526	16294	15947	15648	1					

7/27/2021	14369	13488	12850	12431	12251	12513	13009	12821	15173	16810	18515	20147	21344	22150	22477	22294	21899	21196	20199	18959	18223	17436	16329	15054	
7/28/2021	13939	13018	12397	12051	11929	12186	12766	13433	14934	16619	18167	19546	20418	20636	20483	20209	19525	19152	18917	18273	17913	17204	16086	14753	
7/29/2021	13591	12711	12067	11678	11592	11920	12442	13101	14460	15966	17463	18691	19827	20967	21580	21615	21741	21389	20480	19151	18209	17359	16166	14823	
7/30/2021	13608	12726	12101	11702	11567	11797	12332	12935	14337	16101	17943	19612	20812	21506	22465	22729	22809	22446	21959	21051	20312	19335	18077	16737	
7/31/2021	15456	14422	13631	13037	12659	12541	12593	13138	14850	16935	18793	20355	21605	22303	22825	23177	23298	23105	22510	21673	20820	19880	18654	17152	
8/1/2021	15785	14708	13875	13273	12890	12700	12593	13061	14654	16787	18678	20158	21244	22126	22599	22819	22624	22322	21784	21006	20317	19359	17946	16358	
8/2/2021	15062	14090	13390	12926	12809	13089	13551	14117	15555	17126	18597	20085	21427	22446	22605	21607	20520	19974	19644	19159	18770	18079	16913	15528	
8/3/2021	14457	13643	13039	12738	12661	12975	13570	14014	14967	16245	17443	18362	18701	18664	18291	17986	17718	17261	16863	16153	15475	14891	13984	12902	
8/4/2021	12017	11300	10793	10549	10585	10976	11686	12467	13674	14879	16180	17359	17923	17679	17321	16913	16855	17068	17284	17154	16679	16060	15114	13933	
8/5/2021	12860	12017	11473	11169	11128	11489	12123	12863	14397	16079	17398	18670	19613	20527	21138	21264	21021	20536	19776	18929	18462	17665	16531	15212	
8/6/2021	14052	13131	12449	12036	11891	12183	12669	13257	14700	16428	18241	19875	21176	22249	22896	23168	23030	22585	21798	20629	19876	18843	17531	16158	
8/7/2021	14954	13883	13099	12613	12317	12287	12409	12809	14370	16085	17852	19296	20464	21179	21490	21331	20853	20406	19651	18814	18109	17517	16427	15333	
8/8/2021	14227	13327	12674	12188	11897	11787	11823	12145	13602	15529	17180	18546	19672	20615	21424	21824	21932	21684	20881	19773	19124	18264	17060	15726	
8/9/2021	14528	13686	13119	12702	12623	12942	13425	13961	15415	17101	18730	20324	21456	22281	22787	22870	22741	22389	21644	20611	19959	18988	17633	16267	
8/10/2021	15012	14086	13483	13122	12919	13177	13689	14077	15404	17180	18796	20189	21354	22193	22588	22786	22502	22100	21257	20284	19712	18748	17466	16079	
8/11/2021	14847	13954	13317	12917	12774	13117	13766	14284	15665	17302	18860	20361	21453	22251	22741	22747	22243	21600	20830	19934	19443	18536	17245	15888	
8/12/2021	14678	13827	13241	12872	12729	13044	13668	14143	15510	17209	18762	20232	21417	22171	22625	22887	22640	21515	20569	19720	19243	18485	16987	15665	
8/13/2021	14516	13628	12966	12548	12503	12913	13618	14119	15167	16672	18104	19195	19965	20456	20903	20927	20740	20364	19588	18573	17966	17034	16001	14921	
8/14/2021	13824	13005	12411	12080	12014	12166	12414	12708	13731	15349	16924	18139	18824	18693	18630	18488	18335	18091	17649	17199	16931	16140	15125	14149	
8/15/2021	13231	12463	11914	11574	11444	11532	11720	12093	13367	14847	16119	16970	17584	18054	18287	18360	18050	17827	17468	17094	16644	16484	15630	14591	
8/16/2021	13628	12945	12447	12066	12054	12453	13111	13713	15084	16713	18223	19715	20860	21547	21896	22105	22036	21782	21375	20459	19946	18977	17667	16290	
8/17/2021	15036	14139	13407	12906	12781	13120	13753	14316	15745	17454	19218	20731	21817	22825	23299	23500	23297	22721	21961	20989	20436	19452	18102	16675	
8/18/2021	15477	14576	13851	13389	13306	13706	14376	14780	16043	17805	19439	20954	21916	22742	23323	23619	23754	23482	22720	21853	22242	23323	19825	18269	16697
8/19/2021	15382	14414	13677	13215	13024	13280	13909	14272	15512	17141	18831	20358	21661	22568	23239	23740	23950	23763	23116	21859	20923	19948	18232	16590	
8/20/2021	15146	14109	13338	12857	12633	12888	13477	13900	15279	17000	18754	20346	21753	22818	23372	23493	23320	22916	22043	20796	19978	19063	17814	16498	
8/21/2021	15290	14322	13555	13012	12660	12555	12609	12980	14637	16100	18600	20331	21681	22657	23238	23395	23198	22636	21881	20894	20230	19235	18070	16907	
8/22/2021	15721	14812	14076	13538	13167	12946	12855	12986	14476	16555	18429	20120	21591	22567	23147	23282	22940	22336	21492	20632	20220	19214	17903	16483	
8/23/2021	15293	14416	13739	13345	13315	13729	14447	14752	15622	16889	18568	20171	21449	22271	22624	22699	22499	22168	21402	20440	19431	18249	16929	15741	
8/24/2021	14768	14004	13564	13276	13169	13564	14289	14567	15405	16605	18406	19896	20785	21777	22400	22710	22983	22757	22073	20859	20107	18917	17541	16012	
8/25/2021	14800	13998	13456	13136	13039	13437	14069	14193	15112	16769	18225	19224	20352	21162	21506	21926	22040	21450	20750	19682	19226	18174	16772	15353	
8/26/2021	14193	13403	12849	12457	12356	12730	13332	13479	14005	15712	16210	17547	18893	19978	20828	21485	21881	21746	21088	20226	19771	18803	17494	16104	
8/27/2021	14920	14062	13455	13068	12993	13301	13953	14230	15271	16019	18123	19299	20315	21393	22069	22397	20891	20533	19835	19265	18943	18140	17231	16241	
8/28/2021	15267	14519	13926	13539	13312	13299	13486	13818	14892	16744	18491	19842	20770	20994	20942	20843	20698	20360	19599	18921	18558	17752	16771	15727	
8/29/2021	14749	13982	13376	12954	12658	12583	12661	12929	14331	16319	18118	19616	20846	21692	22263	22546	22672	22490	21426	20359	19701	18537	17207	15718	
8/30/2021	14525	13640	13041	12642	12548	12936	13605	13975	15110	16675	18191	19782	20888	21755	22225	22714	22928	22545	21794	20851	19942	18384	16703	15191	
8/31/2021	13907	12976	12325	11938	11830	12211	12973	13382	14500	16076	17799	19433	20790	21817	22553	22613	22259	21612	20626	19708	19110	18027	16633	15225	
9/1/2021	13992	13104	12495	12143	12062	12424	13272	13715	14767	16376	17912	19271	20395	21130	21524	21552	21458	20731	19673	18781	18338	17442	16167	14843	
9/2/2021	13678	12770	12170	11797	11724	12134	12971	13379	14096	15335	16782	18019	18976	19788	19133	18235	18040	17869	17430	16935	16685	15889	14739	13497	
9/3/2021	12433	11661	11154	10873	10827	11290	12163	12653	13775	15413	16900	17661	18185	19031	19345	19226	18927	18729	18353	17650	17233	16307	15247	14058	
9/4/2021	12954	12062	11441	11047	10825	10819	10929	11404	12041	12941	14858	16109	17023	19070	19705	19993	18955	18813	18279	17576	17058	16129	15097	14051	
9/5/2021	13021	12140	11535	11121	10876	10811	10892	11193	12220	14743	16503	18086	19422	20256	20775	20723	20193	19632	18844	18013	17513	16598	15524	14362	
9/6/2021	13300	12425	11836	11464	11314	11408	11538	11769	13214	15286	17163	18700	19970	21041	21719	22187	22258	21666	20590	19603	18883	17541	16190	14793	
9/7/2021	13588	12668	12039	11655	11526	11863	12506	12973	14309	15972	17659	19342	20751	21707	21858	21247	20743	20229	19548	18842	18160	17086	15844	14534	
9/8/2021	13418	12604	12022	11681	11573	11970	12744	13109	14252	15980	17657	19276	20518	21214	21386	21390	20966	20283	19655	19057	18376	17220	15935	14622	
9/9/2021	13437	12587	12062	11722	11678	12063	12870	13261	14420	16054	17672	19216	20277	21164	21759	21835	20986	20229	19387	18668	18193	17132	16014	14591	
9/10/2021	13476	12622	12001	11622	11516	11882	12655	12987	14156	15762	17357	18876	19718	20716	21256	21157	20978	20351	19532	19479	18676	17361	16043	14821	
9/11/2021	13600	12677	11997	11518	11241	11229	11426	11768	13159	15132	16857	18349	19558	20477	21034	21311	21260	20777	19757	18870	18294	17475	16446	15349	
9/12/2021	14368	13528	12918	12552	12401	12405	12509	12805	14177	16117	17854	19205	20396	21223	21658	21702	21236</								

10/9/2021	13119	12148	11455	10967	10749	10770	10988	11394	12427	13935	15412	16981	18019	18698	18518	17973	17325	16711	15980	15527	14914	14207	13402	12393	
10/10/2021	11463	10726	10163	9786	9612	9620	9843	10227	11473	13345	14813	16124	17164	18087	18762	19072	19031	18732	17890	17358	16671	15710	14523	13089	
10/11/2021	11942	11165	10623	10289	10279	10721	11534	11974	12737	14002	15259	16557	17348	17836	18522	18878	19338	19337	18704	18251	17382	16359	15051	13615	
10/12/2021	12403	11572	11015	10665	10579	11014	11911	12364	13194	14564	15880	16975	18122	19011	19510	19926	20097	19851	18970	18637	17977	16823	15443	14033	
10/13/2021	12817	11911	11316	10929	10881	11327	12168	12632	13513	14935	16320	17480	18389	19237	19794	20216	20370	20010	19134	18763	17884	16743	15499	14302	
10/14/2021	13048	12140	11519	11150	11062	11467	12375	12841	13675	15233	16621	17681	18458	19163	19772	20293	20553	20269	19402	18828	17947	16828	15686	14247	
10/15/2021	13111	12196	11564	11113	11009	11343	12086	12434	13433	14977	16318	17368	18161	18744	19326	19684	19774	19418	18448	17781	16853	15984	14792	13797	
10/16/2021	12731	11803	11150	10715	10500	10502	10729	11080	12424	14308	15906	17230	18290	19201	19624	19969	20000	19522	18580	17825	16870	15783	14735	13601	
10/17/2021	12524	10588	11004	10593	10319	10251	10345	10588	11861	13680	15265	16500	17660	18601	19136	19280	19218	18854	17983	17616	16839	15805	14511	13153	
10/18/2021	11998	11138	10587	10221	10173	10559	11313	11721	12437	13575	14621	15536	16364	17075	17732	18179	18321	17970	17179	16900	16014	14878	13591	12244	
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	10780	10211	9914	9861	10331	11195	11748	12564	13833	14905	15885	16740	17537	18107	18469	18500	18207	17463	17205	16466	15533	14372	13092	
10/21/2021	11992	11200	10669	10322	10283	10676	11623	12154	12934	14299	15674	16799	17728	18537	19115	19541	19673	19350	18508	18001	17263	16277	15082	13729	
10/22/2021	12672	11823	11269	10911	10836	11245	12136	12579	13232	14326	15396	16222	16716	17018	17294	17440	17332	17045	16487	16155	15382	14622	13776	12821	
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	16885	16413	15671	14615	13472	
10/25/2021	12524	11764	11343	11153	11299	11925	12887	13485	13960	14754	15755	16791	17581	18277	17961	18529	18801	18727	18870	18443	18277	17434	16507	15280	14008
10/26/2021	12976	12214	11729	11406	11335	11742	12639	13148	13876	15178	16531	17780	18621	19380	20064	20568	20736	20502	19627	19105	18061	16824	15324	13813	
10/27/2021	12499	11635	10947	10502	10363	10730	11591	12044	12613	13779	14936	15904	17020	18050	18927	19428	19727	19520	18773	18376	17354	16225	14921	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	11554	10771	10247	9876	9699	9739	10055	10474	11434	12877	13871	14452	14823	14969	15230	15381	15322	14937	14217	14023	13346	12710	11920	10958	
10/31/2021	10124	9432	8924	8674	8513	8752	8811	9239	10263	11740	12936	13881	14680	15238	15648	15942	16101	15693	14743	14272	13589	13435	12536	11396	
11/1/2021	10398	9646	9189	8944	8896	9312	10163	10763	11278	12018	12807	13400	13967	14545	14934	15265	15619	15555	15344	15411	14655	13737	12669	11457	
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	10736	10976	11716	12900	14070	15060	15837	16404	16682	16799	16788	16576	16390	16390	15609	14687	13529	12203	
11/4/2021	11081	10377	9848	9531	9574	10031	11024	11654	12184	13097	13962	14619	15041	15407	15553	15441	15579	15512	15492	15538	14965	14155	13198	12069	
11/5/2021	11052	10369	9992	9795	9771	10160	11063	11816	12485	13145	13612	13825	13896	13822	13646	13535	13627	13738	13761	13898	13397	12805	12176	11314	
11/6/2021	10428	9818	9394	9102	9000	9144	9549	10121	11050	11840	12231	12638	13078	13225	13091	13109	13070	12848	12578	12508	12000	11555	10670	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	8640	8168	7876	7855	7988	8646	9879	10740	11253	11736	12155	12598	12976	13267	13518	13711	13624	13419	12996	13079	13007	12166	11191	10040	
11/10/2021	9212	8664	8298	8169	8260	8820	9973	10937	11954	12827	13548	14214	14783	15168	15198	15119	14991	14975	15156	14605	13890	13086	12143	11079	
11/11/2021	10189	9554	9182	9018	9051	9476	10296	11341	12272	13817	14738	15463	16002	16346	16579	16038	15681	15879	15463	15401	14798	13922	13021	11948	
11/12/2021	11008	10358	9852	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	10168	11048	11768	13153	14310	15283	16060	16548	16846	16751	16294	15647	15356	14557	13701	12886	12047	11083
11/14/2021	10168	9534	9043	8710	8486	8456	8856	9712	10425	10665	11727	12428	13039	13369	13553	13470	13283	13282	12788	12592	12192	11442	10589	10188	
11/15/2021	8856	8346	8055	7976	8134	8801	9994	10839	11398	11785	12106	12452	12725	12964	13214	13280	13286	13410	13774	13347	12665	11837	10855	9823	
11/16/2021	8931	8446	8203	8121	8266	8991	10270	11195	11741	12152	12500	12877	13325	13680	13897	13935	13771	13851	14204	13765	13156	12432	11477	10438	
11/17/2021	9602	9025	8729	8618	8774	9428	10583	11397	12023	12163	12373	12632	14599	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	10473	9856	9467	9311	9395	9931	11038	11954	12957	13960	14742	15101	15252	15043	14912	14820	14603	14583	14606	14111	13557	12874	12226	11325	
11/20/2021	10468	9814	9442	9348	9403	9184	9364	9833	10657	12034	13442	14083	14564	14827	14951	14616	14265	14028	14154	14317	13874	13319	12852	12177	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	12413	13523	14443	15201	15787	16178	16184	15843	15162	14803	14864	14221	13452	12601	11631	10516	
11/23/2021	9534	8873	8534	8254	8313	8736	9561	10544	11435	12020	12345	12704	12570	12652	12672	12695	12580	12737	13120	12576	12214	11521	10743	9771	
11/24/2021	9008	8540	8319	8267	8430	8968	9895	10864	11729	12223	12501	12668	12743	12791	12699	12562	12500	12832	13126	12736	12225	11620	10934	10129	
11/25/2021	9329	8737	8358	8168	8136	8368	8865	9781	11122	12563	13478	14221	14733	14889	14755	14287	13556	12912	12511	11796	11313	10879	10352	9618	
11/26/2021	8967	8465	8141	8018	8068	8391																			

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. 20220000-OT  
 Ten-Year Site Plan  
 Staff's First Data Request  
 Request No. 4  
 Attachment No. 1 of 1  
 Tab 2 of 2

TYSP Year 2022  
 Staff's Data Request / 1  
 Question No. 4

Date	Gulf Power Hourly System Load (MW)																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1/1/2021	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	1116	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	1122	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	1055	1083	1080	1068	1058	1061	1048	1070	1099	1185	1204	1169	1116	1046	961	
1/25/2021	880	824	798	780	787	815	891	994	1044	1072	1081	1108	1105	1124	1117	1115	1120	1147	1228	1265	1233	1168	1094	995	
1/26/2021	908	866	834	817	808	836	908	1006	1059	1103	1128	1146	1145	1137	1123	1105	1105	1143	1225	1247	1210	1160	1081	993	
1/27/2021	911	854	826	815	809	815	865	890	1061	1058	1096	1112	1145	1162	1166	1158	1177	1175	1227	1244	1198	1137	1062	986	
1/28/2021	912	874	859	876	916	981	1116	1316	1406	1414	1373	1324	1258	1199	1155	1120	1125	1174	1321	1411	1413	1403	1359	1284	
1/29/2021	1234	1216	1232	1253	1306	1386	1535	1695	1724	1620	1496	1378	1258	1182	1120	1081	1089	1123	1248	1337	1345	1343	1325	1280	
1/30/2021	1253	1233	1240	1259	1286	1330	1387	1463	1482	1413	1313	1231	1163	1095	1044	1020	1025	1059	1149	1168	1153	1116	1058	991	
1/31/2021	928	866	834	803	799	792	808	861	895	974	1024	1062	1084	1084	1081	1058	1063	1098	1167	1209	1175	1112	1041	977	
2/1/2021	910	889	887	916	959	1041	1187	1378	1478	1506	1507	1512	1519	1510	1498	1512	1547	1608	1729	1779	1748	1711	1635	1535	
2/2/2021	1472	1442	1456	1481	1523	1611	1754	1920	1954	1853	1722	1595	1470	1382	1312	1252	1252	1319	1480	1599	1615	1602	1549	1486	
2/3/2021	1443	1434	1452	1484	1527	1608	1762	1949	1952	1807	1647	1513	1358	1273	1201	1162	1161	1218	1353	1460	1468	1463	1416	1360	
2/4/2021	1315	1312	1327	1361	1398	1481	1618	1771	1761	1597	1430	1289	1199	1162	1127	1102	1119	1156	1264	1304	1273	1205	1127	1023	
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	
2/6/2021	1127	1078	1063	1060	1074	1093	1146	1211	1289	1355	1392	1388	1365	1343	1330	1320	1328	1384	1457	1465	1439	1395	1337	1266	
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	1636	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	
2/10/2021	928	868	844	828	837	861	942	1057	1103	1119	1122	1136	1136	1135	1149	1132	1135	1151	1215	1266	1226	1172	1102	1001	
2/11/2021	917	859	830	811	814	831	906	1011	1065	1094	1113	1147	1143	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	
2/13/2021	999	946	925	913	922	956	999	1060	1148	1238	1296	1294	1279	1228	1207	1207	1204	1252	1337	1390	1376	1350	1304	1248	
2/14/2021	1185	1145	1128	1119	1127	1145	1195	1267	1346	1441	1481	1457	1390	1330	1273	1242	1225	1267	1386	1414	1397	1353	1312	1233	
2/15/2021	1174	1121	1093	1084	1096	1134	1210	1310	1356	1372	1383	1387	1396	1370	1335	1332	1301	1328	1465	1395	1554	1522	1501	1452	
2/16/2021	1447	1460	1519	1587	1665	1753	1929	1916	2080	2185	2216	2199	2100	1939	1783	1660	1560	1524	1573	1766	1951	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	1634	1742	1760	1837	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</												

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	
3/3/2021	1135	1085	1062	1060	1078	1117	1230	1371	1429	1417	1352	1275	1209	1149	1093	1069	1054	1095	1164	1280	1276	1249	1190	1116	
3/4/2021	1043	1016	1007	1013	1038	1098	1220	1353	1330	1244	1163	1099	1063	1038	1031	1028	1051	1078	1124	1212	1197	1154	1089	1004	
3/5/2021	940	895	890	908	939	988	1109	1236	1245	1182	1121	1071	1053	1044	1035	1030	1043	1059	1102	1166	1131	1090	1040	975	
3/6/2021	904	849	822	801	820	834	883	947	1014	1049	1053	1026	1007	889	899	1003	1003	1019	1046	1089	1138	1122	1081	1041	994
3/7/2021	930	899	890	891	905	942	1003	1071	1129	1151	1129	1077	1038	1010	996	995	1012	1054	1108	1212	1202	1164	1117	1051	
3/8/2021	995	974	970	983	1022	1078	1220	1369	1362	1267	1171	1107	1069	1043	1038	1033	1051	1089	1134	1236	1227	1183	1126	1042	
3/9/2021	988	951	956	971	1000	1062	1181	1330	1297	1209	1126	1107	1082	1045	1189	1030	1040	1049	1086	1135	1217	1212	1148	1079	981
3/10/2021	908	873	854	858	877	923	1021	1131	1135	1101	1073	1070	1071	1065	1078	1087	1099	1124	1150	1225	1203	1147	1068	968	
3/11/2021	889	838	816	816	835	882	968	1073	1098	1091	1083	1094	1098	1113	1129	1151	1178	1192	1211	1278	1248	1187	1094	992	
3/12/2021	902	832	807	793	796	825	912	1002	1052	1063	1078	1103	1117	1139	1166	1189	1229	1228	1228	1264	1217	1156	1085	1007	
3/13/2021	911	846	812	779	766	777	802	835	904	979	1034	1077	1113	1141	1161	1179	1203	1211	1207	1244	1199	1134	1066	985	
3/14/2021	909	842	799	780	784	797	828	853	936	1005	1049	1086	1117	1161	1183	1215	1254	1290	1278	1307	1257	1182	1084	960	
3/15/2021	876	821	794	773	793	852	943	990	1046	1110	1154	1183	1208	1223	1229	1245	1261	1266	1290	1317	1276	1208	1111	1014	
3/16/2021	941	900	869	861	872	927	1016	1060	1114	1195	1256	1309	1356	1388	1411	1442	1467	1478	1453	1465	1414	1327	1217	1098	
3/17/2021	1015	962	918	916	923	977	1061	1111	1174	1225	1277	1336	1384	1407	1419	1445	1460	1467	1448	1456	1406	1321	1217	1113	
3/18/2021	1026	969	930	906	901	926	991	1020	1076	1124	1159	1175	1186	1196	1206	1223	1238	1241	1218	1235	1207	1130	1028	933	
3/19/2021	869	821	804	802	826	888	985	1047	1114	1148	1159	1156	1130	1121	1103	1104	1121	1154	1191	1230	1201	1149	1074	995	
3/20/2021	951	903	875	869	876	912	902	963	1016	1095	1148	1160	1141	1102	1059	1027	1026	1035	1072	1108	1158	1138	1104	1036	978
3/21/2021	925	900	887	909	931	976	1048	1123	1164	1154	1095	1052	1031	1015	1012	1031	1063	1103	1138	1191	1168	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	840	804	788	777	800	876	938	984	1029	1062	1086	1113	1136	1138	1140	1135	1151	1176	1211	1239	1239	1191	1114	1011	916
3/24/2021	843	805	787	778	800	866	975	1026	1069	1113	1136	1160	1157	1144	1141	1159	1190	1222	1250	1273	1220	1160	1050	951	
3/25/2021	877	836	812	814	826	898	1008	1060	1119	1180	1232	1261	1286	1306	1310	1323	1347	1356	1363	1394	1364	1287	1179	1068	
3/26/2021	983	935	897	889	906	970	1076	1129	1184	1238	1292	1343	1393	1445	1481	1507	1523	1520	1481	1471	1420	1344	1249	1142	
3/27/2021	1044	979	935	902	903	912	948	1000	1093	1178	1239	1301	1339	1366	1376	1377	1384	1385	1363	1374	1335	1287	1197	1107	
3/28/2021	1015	957	917	896	885	905	929	980	1108	1233	1328	1396	1462	1503	1507	1471	1455	1429	1365	1349	1269	1174	1042	929	
3/29/2021	835	804	783	763	758	775	844	1108	1057	1075	1079	1082	1108	1125	1158	1218	1290	1320	1306	1323	1278	1188	1065	953	
3/30/2021	875	827	809	804	825	889	1001	1056	1116	1163	1208	1260	1301	1321	1341	1356	1395	1412	1420	1442	1405	1316	1180	1067	
3/31/2021	972	921	896	886	906	967	1075	1139	1209	1271	1362	1419	1468	1523	1573	1607	1618	1610	1567	1492	1400	1260	1112	974	
4/1/2021	882	835	806	805	832	922	1051	1144	1182	1184	1156	1127	1092	1063	1047	1040	1059	1089	1131	1091	1211	1223	1176	1103	1028
4/2/2021	975	963	958	983	1038	1135	1271	1352	1383	1347	1276	1205	1149	1093	1053	1045	1070	1100	1131	1189	1192	1160	1107	1048	
4/3/2021	999	982	982	995	1034	1086	1162	1218	1228	1185	1113	1073	1018	1162	985	998	1039	1070	1095	1148	1145	1105	1043	969	
4/4/2021	910	884	878	887	928	967	1034	1113	1156	1134	1090	1060	1039	1026	1025	1043	1089	1125	1129	1171	1156	1087	986	891	
4/5/2021	822	800	794	805	846	944	1067	1116	1121	1103	1097	1093	1103	1115	1144	1182	1232	1268	1269	1284	1257	1161	1034	926	
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	
4/7/2021	881	839	806	800	825	898	994	1058	1112	1157	1196	1235	1267	1311	1354	1384	1407	1434	1403	1412	1373	1280	1163	1031	
4/8/2021	944	887	859	848	860	919	1016	1095	1151	1195	1222	1235	1265	1299	1338	1381	1432	1456	1438	1444	1410	1319	1196	1074	
4/9/2021	976	928	898	884	905	955	1058	1124	1157	1185	1220	1222	1204	1201	1194	1154	1223	1223	1219	1239	1201	1180	1105	1018	
4/10/2021	941	890	856	846	857	862	874	908	979	1005	1059	1090	1091	1083	1063	1065	1095	1132	1148	1174	1170	1103	1032	948	
4/11/2021	874	825	793	774	784	801	823	879	967	1042	1087	1120	1139	1152	1197	1269	1334	1368	1347	1332	1287	1191	1060	940	
4/12/2021	845	797	759	755	773	840	938	988	1025	1050	1094	1147	1195	1268	1328	1375	1405	1416	1391	1357	1302	1186	1050	930	
4/13/2021	840	798	781	765	784	851	954	1002	1040	1075	1137	1202	1267	1327	1345	1347	1338	1336	1323	1336	1306	1207	1076	970	
4/14/2021	885	839	811	798	818	877	973	1031	1093	1159	1223	1279	1314	1303	1266	1249	1259	1260	1262	1272	1249	1179	1075	967	
4/15/2021	898	847	831	812	833	891	1000	1072	1124	1161	1192	1183	1173	1165	1156	1166	1168	1193	1214	1258	1228	1163	1055	956	
4/16/2021	888	835	814	812	829	885	969	1006	1055	1090	1115	1097	1070	1065	1087	1113	1133	1146	1136	1161	1141	1091	1014	933	
4/17/2021	861	803	776	765	768	787	817	870	946	1026	1064	1083	1085	1078	1080	1087	1104	1111	1107	1139	1121	1060	998	925	
4/18/2021	856	814	786	774	768	787	813	862	950	1036	1032	1052	1076	1089	1093	1110	1134	1167	1174	1206	1196	1119	1008	909	
4/19/2021	826	784	757	752	776	841	932	983	1016	1018	1049	1052	1074	1107	1141	1182	1227	1257	1253	1241	1215	1119	996	893	
4/20/2021	826	779	761	761	773	843	933	985	1024	1042	1087	1107	1136	1170	1223	1262	1312	1323	1313	1278	1250	1156	1034	914	
4/21/2021	838	792	764	759	784	845	935	984	1016	1033	1063	1089	1111	1149	1177	1205	1229	1243	1211	1194	1168	1084	971	870	
4/22/2021	809	783	769	783	814	902	1016	1080	1087	1070	1060	1019	1022	1021	1019	1047	1083	1123	1129	1155	1151	1107	976	885	
4/23/2021	827	796	780	791	814	890	985	1037	1065	1053	1062	1068	1078	1075	1088	1106	1127	1142	1152	1172	1166	1111	1042	961	
4/24/2021	904	859																							

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	912	849	813	794	790	798	821	893	1009	1109	1173	1237	1297	1360	1427	1474	1522	1552	1505	1436	1394	1305	1168	1033	
5/17/2021	935	872	837	835	842	910	996	1093	1189	1272	1347	1423	1489	1547	1583	1630	1670	1661	1620	1551	1515	1404	1275	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	
5/21/2021	1085	1019	972	949	953	994	1071	1165	1266	1353	1430	1508	1548	1611	1668	1712	1745	1747	1693	1595	1548	1449	1337	1215	
5/22/2021	1115	1046	993	964	962	956	985	1079	1222	1319	1401	1469	1517	1570	1625	1675	1713	1713	1658	1554	1504	1399	1267	1135	
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	1728	1794	1851	1899	1886	1908	1843	1731	1667	1540	1368	1204	
5/26/2021	1086	999	955	929	939	990	1072	1176	1297	1425	1537	1638	1726	1808	1874	1923	1941	1934	1887	1792	1727	1600	1445	1280	
5/27/2021	1155	1075	1035	1006	1010	1059	1131	1254	1391	1511	1615	1724	1804	1858	1913	1941	1950	1939	1885	1782	1757	1645	1490	1337	
5/28/2021	1223	1136	1088	1066	1064	1099	1163	1291	1425	1542	1637	1712	1797	1861	1901	1933	1942	1911	1847	1751	1707	1622	1517	1374	
5/29/2021	1243	1139	1075	1031	1013	1004	1023	1129	1265	1401	1518	1636	1720	1806	1866	1886	1885	1847	1783	1684	1642	1525	1388	1231	
5/30/2021	1097	1003	938	900	881	865	878	967	1003	1176	1272	1355	1439	1407	1497	1582	1660	1727	1758	1715	1599	1454	1424	1289	1132
5/31/2021	1014	936	896	866	837	875	895	989	1117	1257	1385	1509	1597	1693	1759	1833	1892	1907	1853	1752	1694	1577	1411	1248	
6/1/2021	1116	1041	987	967	970	1019	1119	1248	1389	1524	1621	1716	1793	1838	1865	1892	1919	1907	1846	1765	1722	1610	1460	1307	
6/2/2021	1185	1110	1057	1032	1038	1060	1138	1257	1398	1517	1637	1745	1831	1877	1941	1970	1996	1948	1875	1786	1744	1633	1476	1338	
6/3/2021	1217	1137	1082	1060	1062	1114	1180	1269	1362	1467	1561	1669	1768	1843	1883	1904	1924	1903	1848	1767	1725	1630	1496	1356	
6/4/2021	1243	1165	1112	1086	1098	1123	1187	1289	1408	1517	1625	1701	1760	1788	1839	1884	1860	1809	1729	1637	1613	1534	1430	1311	
6/5/2021	1192	1118	1065	1046	1040	1048	1070	1161	1279	1376	1436	1480	1501	1523	1519	1529	1556	1583	1570	1546	1552	1503	1423	1328	
6/6/2021	1252	1191	1155	1131	1134	1145	1165	1247	1371	1488	1585	1670	1745	1804	1846	1867	1865	1864	1822	1781	1758	1672	1526	1385	
6/7/2021	1261	1195	1141	1120	1137	1192	1278	1364	1478	1622	1735	1835	1914	1994	2039	2063	2085	2073	2024	1936	1894	1788	1642	1497	
6/8/2021	1389	1305	1253	1218	1217	1252	1322	1449	1596	1716	1798	1833	1819	1848	1913	1947	1978	1979	1924	1856	1813	1715	1585	1442	
6/9/2021	1321	1240	1192	1164	1166	1200	1267	1404	1559	1692	1808	1909	1979	2044	2087	2126	2151	2138	2084	1961	1906	1791	1631	1467	
6/10/2021	1335	1255	1200	1161	1177	1213	1283	1415	1573	1705	1828	1923	2011	2057	2098	2111	2124	2107	2030	1932	1880	1786	1643	1499	
6/11/2021	1375	1304	1257	1223	1240	1267	1333	1455	1589	1716	1812	1928	2000	2038	2080	2104	2117	2105	2046	1941	1888	1794	1684	1550	
6/12/2021	1436	1364	1308	1283	1259	1274	1299	1418	1582	1741	1867	1954	1979	1986	1934	1928	1876	1798	1769	1687	1635	1578	1480	1356	
6/13/2021	1247	1178	1127	1104	1087	1075	1093	1174	1325	1478	1639	1791	1936	2039	2105	2146	2137	2099	1992	1891	1817	1700	1546	1388	
6/14/2021	1253	1175	1116	1081	1092	1119	1204	1335	1485	1644	1792	1932	2029	2113	2159	2225	2204	2167	2060	2113	1982	1870	1695	1548	
6/15/2021	1411	1319	1264	1227	1232	1246	1309	1438	1609	1790	1943	2081	2180	2212	2148	1969	1839	1816	1805	1768	1777	1721	1603	1474	
6/16/2021	1378	1309	1260	1245	1242	1269	1323	1415	1536	1658	1773	1885	1971	2051	2112	2151	2178	2166	2108	1981	1900	1775	1600	1421	
6/17/2021	1265	1166	1103	1067	1063	1087	1146	1249	1402	1544	1695	1824	1970	2013	2089	2144	2170	2156	2098	1989	1941	1845	1688	1542	
6/18/2021	1409	1324	1268	1245	1243	1262	1305	1410	1531	1637	1711	1770	1808	1748	1696	1669	1645	1638	1614	1561	1544	1494	1405	1317	
6/19/2021	1239	1202	1169	1161	1179	1221	1271	1329	1415	1463	1512	1590	1642	1627	1632	1698	1748	1765	1758	1718	1717	1679	1600	1500	
6/20/2021	1410	1332	1287	1262	1236	1244	1245	1346	1492	1646	1771	1862	1892	1850	1809	1771	1806	1833	1791	1731	1727	1656	1534	1399	
6/21/2021	1279	1201	1166	1139	1147	1189	1251	1325	1399	1439	1558	1653	1654	1643	1653	1678	1742	1774	1785	1740	1709	1640	1494	1354	
6/22/2021	1242	1164	1114	1064	1079	1135	1209	1271	1336	1464	1521	1635	1715	1767	1889	1902	1870	1872	1828	1762	1720	1650	1518	1388	
6/23/2021	1275	1204	1154	1132	1133	1177	1251	1383	1512	1651	1748	1809	1911	1963	2026	2091	2123	2113	2038	1935	1885	1783	1639	1482	
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	
6/25/2021	1269	1200	1150	1122	1125	1147	1200	1296	1425	1556	1690	1784	1866	1953	1986	2038	2058	2058	1964	1854	1781	1672	1560	1417	
6/26/2021	1296	1190	1139	1106	1088	1096	1117	1216	1376	1521	1650	1749	1833	1901	1958	2009	2038	2050	1996	1897	1847	1749	1621	1472	
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	
6/30/2021	1303	1223	1160	1123	1126	1158	1218	1312	1417	1557	1693	1830	1899	1892	1863	1832	1830	1837	1807	1749	1725	1646	1525	1379	
7/1/2021	1274	1200	1154	1129	1136	1174	1229	1310	1425	1554	1674	1793	1878	1967	2010	2063	2073	2047	1978	1885	1843	1752	1617	1474	
7/2/2021	1348	1267	1214	1187	1189	1219	1261	1386	1547	1705	1839	1938	2033	2084	2060	1973	1877	1813	1737	1654	1640	1601	1523	1426	
7/3/2021	1317	1251	1208	1178	1166	1166	1182	1288	1439	1587	1707	1824	1874	1866	1832	1802	1796	1768	1714	1682	1670	1607	1514	1397	
7/4/2021	1288	1207	1161	1126	1119	1128	1139	1246	1397	1531	1650	1754	1826	1866	1877	1862	1856	1866	1799	1702	1628	1573	1550	1449	
7/5/2021	1320	1246	1194	1162	1163	1178	1183	1255	1356	1464	1531	1538	1534	1559	1631	1668	1723	1789	1792	1739	1714	1636	152		

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	
7/29/2021	1346	1258	1213	1189	1188	1204	1272	1271	1403	1560	1726	1885	2051	2177	2290	2352	2406	2477	2338	2255	2146	2042	1930	1777	1634
7/30/2021	1505	1421	1360	1331	1339	1370	1420	1534	1720	1900	2081	2199	2286	2339	2373	2421	2438	2390	2306	2219	2159	2067	1942	1795	
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	1616	1528	1466	1427	1420	1444	1476	1571	1716	1864	2028	2154	2250	2271	2230	2208	2214	2152	2025	1906	1815	1697	1563	1430	
8/3/2021	1319	1257	1214	1187	1194	1236	1302	1364	1442	1534	1636	1734	1851	1924	1902	1865	1858	1867	1847	1791	1759	1662	1534	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	
8/5/2021	1252	1196	1154	1127	1151	1183	1251	1330	1461	1607	1734	1857	1940	2026	2107	2164	2195	2143	2039	1949	1881	1758	1628	1479	
8/6/2021	1351	1257	1197	1168	1163	1195	1241	1339	1472	1610	1708	1842	1939	2034	2102	2148	2171	2141	2054	1973	1908	1809	1702	1560	
8/7/2021	1437	1342	1292	1228	1210	1200	1216	1309	1492	1660	1808	1930	2024	2081	2111	2127	2153	2153	2092	2000	1940	1828	1703	1568	
8/8/2021	1440	1350	1281	1245	1218	1219	1223	1331	1535	1713	1860	1971	2070	2123	2191	2247	2250	2206	2142	2076	2015	1897	1759	1594	
8/9/2021	1472	1379	1320	1291	1289	1324	1380	1471	1649	1812	1971	2050	2142	2222	2276	2301	2298	2284	2240	2151	2086	1944	1759	1596	
8/10/2021	1466	1371	1309	1276	1281	1332	1385	1486	1647	1813	1968	2094	2202	2295	2363	2390	2377	2300	2094	2218	2127	2043	1881	1664	1505
8/11/2021	1390	1310	1263	1234	1243	1296	1365	1455	1582	1745	1895	1991	2031	2059	2103	2145	2201	2215	2162	2070	1997	1866	1707	1547	
8/12/2021	1418	1329	1280	1250	1249	1287	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	1412	1317	1255	1219	1196	1214	1212	1313	1500	1688	1860	2017	2115	2174	2201	2205	2189	2088	1936	1853	1779	1680	1548	1425	
8/15/2021	1318	1231	1187	1182	1135	1142	1147	1239	1405	1582	1742	1890	1970	1981	1968	1987	1987	2004	1999	1959	1889	1813	1703	1573	1428
8/16/2021	1313	1246	1184	1168	1174	1222	1283	1336	1416	1481	1534	1567	1588	1610	1629	1586	1608	1651	1641	1609	1586	1507	1409	1286	
8/17/2021	1202	1135	1116	1092	1101	1153	1222	1321	1434	1587	1730	1864	1987	2086	2168	2221	2247	2241	2186	2088	2007	1862	1698	1553	
8/18/2021	1424	1353	1290	1262	1260	1298	1297	1351	1462	1609	1775	1891	1988	2048	2131	2210	2273	2293	2295	2231	2145	2073	1926	1761	1606
8/19/2021	1488	1396	1343	1300	1300	1350	1409	1499	1666	1819	1968	2093	2186	2242	2285	2294	2298	2273	2198	2120	2029	1892	1742	1586	
8/20/2021	1462	1388	1327	1287	1295	1339	1394	1486	1619	1769	1924	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	1353	1285	1238	1208	1206	1226	1221	1287	1434	1606	1755	1900	2009	2095	2167	2213	2243	2242	2186	2120	2045	1917	1774	1620	
8/23/2021	1493	1415	1353	1323	1322	1368	1427	1467	1568	1678	1819	1960	2091	2166	2219	2232	2156	2061	1990	1940	1892	1771	1633	1496	
8/24/2021	1401	1311	1254	1227	1247	1295	1365	1452	1560	1708	1871	2012	2042	2095	2132	2196	2210	2160	2112	2042	1985	1918	1792	1647	1507
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	1281	1210	1178	1150	1155	1210	1287	1350	1468	1634	1739	1865	1991	2074	2137	2193	2208	2144	2055	1955	1850	1706	1548	1420	
8/27/2021	1305	1249	1197	1179	1183	1235	1307	1387	1474	1535	1589	1683	1813	1941	1987	2032	2115	2126	2094	2021	1936	1830	1683	1547	1424
8/28/2021	1319	1250	1208	1167	1159	1169	1184	1258	1392	1500	1697	1712	1801	1896	1977	2059	2118	2094	2032	1975	1892	1799	1674	1544	
8/29/2021	1433	1356	1323	1310	1300	1314	1321	1387	1479	1550	1559	1559	1582	1621	1590	1577	1592	1613	1637	1663	1645	1601	1521	1440	
8/30/2021	1375	1329	1302	1292	1317	1361	1440	1480	1546	1620	1668	1688	1700	1664	1634	1619	1628	1631	1639	1650	1646	1593	1512	1417	
8/31/2021	1371	1345	1327	1342	1349	1371	1436	1479	1509	1569	1637	1699	1758	1855	1928	1972	1997	2002	1967	1945	1897	1798	1664	1539	
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	
9/2/2021	1317	1224	1169	1131	1119	1155	1232	1288	1372	1496	1621	1772	1894	1968	2059	2113	2136	2119	2024	1948	1850	1742	1585	1451	
9/3/2021	1334	1258	1200	1166	1166	1199	1258	1332	1472	1600	1745	1879	2004	2091	2137	2156	2145	2085	1977	1919	1818	1718	1596	1483	
9/4/2021	1376	1291	1229	1191	1172	1164	1165	1231	1371	1541	1686	1825	1942	1996	2041	2049	2065	2000	1924	1876	1904	1703	1582	1467	
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	
9/7/2021	1297	1218	1182	1154	1160	1218	1297	1387	1524	1678	1810	1922	2022	2098	2116	2143	2158	2126	2046	1998	1908	1790	1639	1504	
9/8/2021	1400	1335	1292	1260	1260	1293	1361	1395	1437	1483	1500	1514	1560	1603	1619	1623	1615	1631	1636	1638	1579	1496	1366	1261	
9/9/2021	1184	1115	1080	1068	1096	1150	1248	1308	1395	1471	1565	1645	1721	1797	1893	1949	1956	1910	1837	1793	1682	1555	1410	1270	
9/10/2021	1141	1066	1018	980	1000	1027	1113	1155	1233	1327	1438	1544	1636	1754	1833	1888	1927	1894	1796	1693	1582	1464	1339	1213	
9/11/2021	1103	1039	985	959	952	957	977	1019	1139	1281	1424	1562	1696	1816	1885	1944	1939	1913	1842	1793	1701	1613	1503	1395	
9/12/2021	1279	1194	1148	1116	1101	1107	1113	1169	1309	1457	1610	1759	1870	1940	1944	1929	1910	1877	1811	1775	1684	1574	1438	1310	
9/13/2021	1227	1170	1145	1109	1127	1188	1258	1319	1377	1456	1527	1589	1605	1635	1677	1730	1788	1806	1792	1779	1687	1588	1456	1343	
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	
9/15/2021	1193	1146	1118	1106	1118	1174	1265	1306	1355	1381	1405	1422	1448	1454	1466	1454	1468	1477	1501	1519	1468	1418	1335	1249	
9/16/2021	1179	1143	1117	1091	1115	1189	1287	1352	1416	1458	1490	1546	1589	1624	1639	1682	1689	1712	1722	1709	1712	1637	1548	1429	1316
9/17/2021	1244	1187	1148	1140	1159	1221	1313	1355																	



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		
10/10/2021	1113	1050	996	967	956	968	982	1031	1170	1306	1419	1528	1638	1718	1799	1853	1878	1846	1763	1691	1569	1451	1323	1191		
10/11/2021	1106	1037	1000	979	984	1031	1106	1156	1272	1391	1499	1595	1691	1756	1819	1867	1879	1847	1802	1752	1632	1500	1358	1226		
10/12/2021	1136	1072	1028	1013	999	1068	1155	1217	1310	1397	1507	1615	1723	1800	1862	1897	1920	1892	1838	1775	1658	1527	1384	1241		
10/13/2021	1140	1071	1020	1009	1015	1068	1170	1214	1306	1419	1525	1637	1728	1806	1880	1910	1918	1859	1826	1756	1647	1519	1373	1242		
10/14/2021	1141	1073	1034	1020	1021	1074	1181	1213	1314	1412	1533	1660	1772	1862	1940	1979	1983	1926	1892	1817	1708	1604	1458	1325		
10/15/2021	1224	1168	1116	1103	1107	1166	1250	1298	1399	1512	1646	1772	1869	1941	1999	2022	2013	1958	1881	1804	1708	1611	1499	1390		
10/16/2021	1293	1222	1191	1166	1157	1167	1193	1237	1353	1456	1516	1542	1548	1552	1554	1550	1529	1468	1413	1345	1273	1178	1102	1006		
10/17/2021	930	879	849	837	839	859	870	912	879	998	1029	1056	1068	1087	1119	1157	1209	1261	1288	1280	1263	1196	1108	1014	919	
10/18/2021	843	810	800	796	824	899	1001	1042	1058	1070	1089	1093	1107	1131	1157	1185	1215	1239	1292	1276	1204	1117	1007	928		
10/19/2021	860	827	812	815	831	906	1009	1043	1067	1089	1125	1171	1249	1309	1378	1437	1476	1467	1487	1462	1400	1299	1169	1070		
10/20/2021	986	939	907	914	926	990	1096	1129	1183	1254	1340	1439	1512	1567	1590	1609	1611	1574	1592	1559	1485	1379	1259	1140		
10/21/2021	1050	1002	963	953	964	1014	1121	1159	1225	1303	1400	1470	1531	1561	1564	1555	1575	1584	1594	1559	1474	1381	1257	1144		
10/22/2021	1063	996	966	955	962	1026	1134	1168	1238	1320	1425	1522	1626	1710	1765	1798	1799	1730	1652	1559	1432	1318	1212	1095		
10/23/2021	992	934	882	862	852	859	892	932	1022	1099	1156	1233	1311	1401	1470	1510	1501	1442	1410	1350	1256	1183	1090	1003		
10/24/2021	927	873	846	816	821	834	865	902	982	1072	1127	1180	1197	1219	1234	1260	1282	1314	1356	1351	1308	1228	1136	1051		
10/25/2021	977	933	912	907	932	1001	1103	1163	1216	1295	1388	1492	1580	1670	1728	1783	1795	1761	1731	1663	1549	1433	1296	1171		
10/26/2021	1073	1012	968	938	930	973	1055	1081	1105	1131	1168	1217	1278	1347	1420	1473	1499	1456	1436	1380	1288	1184	1073	975		
10/27/2021	896	854	829	818	834	899	995	1023	1030	1059	1087	1115	1135	1199	1265	1339	1383	1374	1412	1400	1352	1287	1188	1086		
10/28/2021	1016	991	984	987	996	1050	1140	1145	971	1173	1219	1298	1266	1270	1278	1277	1277	1297	1308	1281	1202	1109	1001	903		
10/29/2021	834	789	771	765	783	850	950	983	1023	1029	1032	1039	1043	1046	1050	1039	1052	1077	1121	1097	1060	1010	945	881		
10/30/2021	828	785	776	771	782	803	850	888	952	987	1000	1015	1010	1003	1005	1017	1034	1065	1109	1083	1049	1000	944	882		
10/31/2021	826	786	778	769	776	793	835	868	939	975	985	1004	1020	1056	1093	1138	1176	1152	1135	1097	1096	1042	964	878		
11/1/2021	811	783	768	772	805	884	999	1035	1050	1041	1059	1070	1091	1121	1131	1149	1184	1219	1262	1232	1157	1072	965	873		
11/2/2021	819	787	766	773	797	875	997	1037	1040	1038	1047	1060	1090	1130	1173	1220	1256	1269	1295	1268	1188	1103	986	898		
11/3/2021	823	823	794	774	771	806	873	1069	1035	1036	1038	1031	1047	1068	1104	1144	1195	1232	1242	1247	1240	1174	1083	974	884	
11/4/2021	821	802	803	796	827	891	1019	1062	1078	1084	1080	1078	1085	1095	1107	1124	1133	1170	1223	1197	1147	1065	969	880		
11/5/2021	821	793	781	781	808	883	993	1053	1077	1102	1106	1095	1079	1056	1049	1057	1071	1119	1193	1176	1153	1093	1055	980		
11/6/2021	934	897	895	896	920	980	1042	1110	1159	1158	1116	1106	1057	1000	979	974	988	1019	1069	1057	1137	1106	1073	1022	975	
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	909	879	882	816	916	965	1084	1216	1223	1158	1104	1067	1053	1059	1065	1090	1109	1138	1238	1239	1184	1136	1055	964		
11/9/2021	906	863	857	862	865	921	1037	1028	1149	1155	1101	1059	1026	1037	1049	1079	1096	1119	1151	1096	1119	1151	1058	972		
11/10/2021	898	860	839	835	850	889	987	1091	1119	1080	1078	1079	1085	1108	1148	1157	1165	1196	1276	1260	1208	1168	1096	1012		
11/11/2021	945	880	848	825	832	852	904	959	1023	1085	1127	1194	1217	1226	1201	1208	1213	1234	1312	1296	1256	1222	1130	1032		
11/12/2021	948	884	837	828	828	843	1116	931	1008	1058	1070	1084	1101	1116	1145	1180	1209	1204	1195	1236	1208	1153	1106	1050	986	
11/13/2021	918	874	840	837	837	847	889	930	995	1021	1030	1023	1014	1005	1010	1021	1040	1083	1165	1174	1156	1137	1100	1065		
11/14/2021	1022	998	987	997	1018	1058	1110	1190	1231	1222	1160	1122	1056	1038	1029	1031	1058	1123	1230	1245	1233	1174	1120	1051		
11/15/2021	979	947	932	943	955	1004	1111	1224	1227	1179	1095	1081	1063	1063	1070	1090	1108	1149	1259	1249	1208	1157	1096	1011		
11/16/2021	948	902	894	894	910	964	1061	1178	1186	1140	1098	1084	1089	1095	1120	1142	1164	1188	1266	1265	1230	1171	1093	1000		
11/17/2021	925	894	870	869	878	914	1135	991	1076	1103	1080	1086	1103	1115	991	1172	1200	1218	1245	1244	1297	1305	1256	1196	1122	1009
11/18/2021	932	881	850	837	838	867	942	1027	1047	1079	1099	1142	1184	1242	1282	1281	1286	1287	1346	1323	1277	1212	1137	1024		
11/19/2021	931	866	827	810	820	849	943	1043	1102	1077	1087	1077	1061	1079	1059	1080	1106	1133	1209	1193	1159	1117	1114	1041		
11/20/2021	988	932	916	903	907	926	956	972	1022	1070	1075	1092	1065	1055	1055	1072	1094	1119	1146	1208	1191	1158	1135	1066	1009	
11/21/2021	947	885	861	845	840	851	875	907	963	1004	1046	1058	1068	1100	1124	1153	1178	1181	1254	1239	1205	1130	1055	1004		
11/22/2021	909	858	824	811	821	841	909	988	1051	1076	1131	1128	1119	1131	1120	1130	1139	1163	1236	1253	1199	1157	1099	1032		
11/23/2021	975	944	924	939	956	1022	1134	1262	1310	1301	1257	1203	1138	1113	1092	1097	1125	1207	1318	1351	1345	1331	1294	1221		
11/24/2021	1175	1134	1123	1122	1151	1199	1286	1379	1363	1296	1239	1173	1113	1097	1068	1052	1078	1166	1257	1268	1251	1234	1196	1142		
11/25/2021	1086	1052	1022	1003	1012	1027	1063	1103	1150	1186	1195	1194	1203	1182	1146	1115	1087	1074	1117	1094	1072	1049	1011	950		
11/26/2021	889	848	815	797	793	813	813	818	878	929	992	1020	1018	1018	1004	1002	1012	1032	1029	1018	1096	1000	1192	1170	1133	
11/27/2021	1088	1069	1057	1068	1101	1147	1220	1287	1341	1328	1272	1192	1113	1070	1044	1037	1053	1120	1204	1207	1217	1187	1133	1072		
11/28/2021	1001	952	930	902	908	920	952	996	1054	1131	1174	1189	1191	1191	1178	1176	1191	1223	1304	1301	1277	1229	1146	1059		
11/29/2021	992	953	946	954	986	1044	1116	1169	1309	1317	1275	1227	1164	1116	1087	1077	1073	1098	1175	1309	1356	1354	1330	1269	1202	
11/30/2021	1150	1129	1121	1140	1187	1248	1387	1534	1519	1389	1281	1181	1123	1086	1068	1069	1095	1165	1283	1320	1317	1292	1234	1156		
12/1/2021	1093	1062	1048	1066	1087	1144	1265	1396																		

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							
Year	Month	Actual	Demand	Estimated	Day	Hour	System-Average
		Peak Demand	Response Activated	Peak Demand			Temperature
		(MW)	(MW)	(MW)			(Degrees F)
2021	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
	6	22373	0	22373	21	1700	89
	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
2020	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
	6	24499	0	24499	24	1700	91
	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
2019	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
	6	24241	0	24241	25	1600	93
	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
Notes							
(Include Notes Here)							

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 2 of 2

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

GULF							
Year	Month	Actual	Demand	Estimated	Day	Hour	System-Average
		Peak Demand	Response Activated	Peak Demand			Temperature
		(MW)	(MW)	(MW)			(Degrees F)
2021	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
	6	2225	0	2225	14	1700	91
	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
2020	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
	6	2318	0	2318	30	1700	92
	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
2019	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
	6	2444	0	2444	25	1600	95
	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)							





**TOTAL AVERAGE ANNUAL CUSTOMERS**

YEAR	ACTUAL	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
		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	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																	
2006	415,183	413,955	410,930	412,571	412,857	422,626	417,879																
2007	425,791		417,915	420,934	420,309	431,955	428,429	427,761															
2008	429,300			430,540	428,738	441,220	437,181	438,233	438,259														
2009	428,204			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	440,243											
2014	442,369							486,729	450,506	450,623	447,009	443,350	441,150										
2015	447,556								459,909	458,491	454,702	450,788	445,631	446,458									
2016	453,139									466,319	462,249	459,363	452,374	452,313	452,162								
2017	459,049										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			

**FORECAST ERROR  
(PERCENT)**

YEAR	WN Actual	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
		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	381,520	-1.3%	-0.2%																				
2003	389,807	-0.9%	0.0%	0.3%																			
2004	398,198	-0.5%	0.2%	0.2%	0.1%																		
2005	404,084	-0.7%	0.0%	-0.3%	-0.4%	-1.9%																	
2006	415,183	0.3%	1.0%	0.6%	0.6%	-1.8%	-0.6%																
2007	425,791		1.9%	1.2%	1.3%	-1.4%	-0.6%	-0.5%															
2008	429,300			-0.3%	0.1%	-2.7%	-1.8%	-2.0%	-2.0%														
2009	428,204				-2.3%	-5.0%	-4.0%	-4.2%	-4.5%	-2.0%													
2010	430,028					-6.7%	-5.6%	-5.9%	-6.1%	-3.3%	0.2%												
2011	432,401						-7.1%	-7.5%	-7.6%	-4.8%	0.2%	0.0%											
2012	434,440							-9.1%	-9.3%	-6.5%	-0.2%	-0.5%	-0.3%										
2013	437,697							-10.8%	-8.0%	-0.9%	-1.2%	-0.6%	-0.1%										
2014	442,369								-9.1%	-1.8%	-1.8%	-1.0%	-0.2%	0.3%									
2015	447,556									-2.7%	-2.4%	-1.6%	-0.7%	0.4%	0.2%								
2016	453,139									-2.8%	-2.0%	-1.4%	-0.7%	0.2%	0.2%	0.2%							
2017	459,049										-2.2%	-1.9%	-0.3%	0.0%	0.1%	0.1%	0.2%						
2018	464,681												-2.3%	-0.7%	-0.3%	-0.2%	0.2%	-0.2%					
2019	464,883													-2.1%	-1.6%	-1.4%	-0.9%	-1.5%	-1.5%				
2020	470,680														-1.6%	-1.2%	-0.7%	-1.4%	-1.8%	-1.8%	-0.3%		
2021	477672															-0.5%	-0.1%	-1.0%	-1.7%	-0.5%			0.6%
1 yr		-1.3%	-0.2%	0.3%	0.1%	-1.9%	-0.6%	-0.5%	-2.0%	-2.0%	0.2%	0.0%	-0.3%	-0.1%	0.3%	0.2%	0.2%	0.2%	-0.2%	-1.5%	-0.3%		0.6%
2 yr		-0.9%	0.0%	0.2%	-0.4%	-1.8%	-0.6%	-2.0%	-4.5%	-3.3%	0.2%	-0.5%	-0.6%	-0.2%	0.4%	0.2%	0.1%	0.2%	-1.5%	-1.8%	-0.5%		
3 yr		-0.5%	0.2%	-0.3%	0.6%	-1.4%	-1.8%	-4.2%	-6.1%	-4.8%	-0.2%	-1.2%	-1.0%	-0.7%	0.2%	0.0%	-0.2%	-0.9%	-1.4%	-1.7%			
4 yr		-0.7%	0.0%	0.6%	1.3%	-2.7%	-4.0%	-5.9%	-7.6%	-6.5%	-0.9%	-1.8%	-1.6%	-1.4%	-0.3%	-0.3%	-1.4%	-0.7%	-1.0%				
5 yr		0.3%	1.0%	1.2%	0.1%	-5.0%	-5.6%	-7.5%	-9.3%	-8.0%	-1.8%	-2.4%	-2.0%	-1.9%	-0.7%	-1.6%	-1.2%	-0.1%					
6 yr			1.9%	-0.3%	-2.3%	-6.7%	-7.1%	-9.1%	-10.8%	-9.1%	-2.7%	-2.8%	-2.2%	-2.3%	-2.1%	-1.6%	-0.5%						

**Retail Energy with DSM  
(GWH)**

Year	WN Actual	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
		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	10,377	10,266																				
2003	10,958	10,541	10,337	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	11,167	11,023	10,830					
2018	10,822													11,632	11,347	11,275	11,147	10,907	10,730				
2019	10,795														11,443	11,292	11,272	10,978	10,770	10,924			
2020	10,671															11,364	11,326	11,079	10,796	10,951	10,803		
2021	10,730																11,447	11,339	11,144	10,806	10,953	10,730	10,846

**FORECAST ERROR  
(PERCENT)**

YEAR	WN Actual	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
		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%																				
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%				
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	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%	-0.9%	-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%						



ACTUAL SUMMER PEAK VARIANCE

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)

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	18,877	18,008																					
2002	19,316	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	22,120	20,045	20,409	20,611	20,611	20,488																	
2006	21,793	20,466	20,811	21,078	21,078	20,995	21,779																
2007	21,886	20,875	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	21,594	21,572	21,698	22,337	22,337	22,533	23,442	23,158	22,516	20,983													
2010	21,878	22,052	22,092	22,825	22,825	23,013	23,975	23,649	23,200	20,927	21,715												
2011	21,388		22,511	23,314	23,314	23,491	24,453	24,176	23,754	21,065	21,532	21,560											
2012	21,770			23,810	23,810	23,980	24,949	24,593	24,314	21,544	21,825	21,606	21,533										
2013	21,654				24,315	24,459	24,949	24,979	24,803	21,771	21,954	21,757	21,749	21,694									
2014	23,043					24,967	25,987	25,396	25,872	22,964	23,130	22,892	22,963	22,736	22,670								
2015	23,126						26,586	25,974	26,443	23,479	23,414	23,458	23,407	23,069	23,221	23,216							
2016	23,613							26,558	27,052	24,016	23,775	23,751	23,835	23,345	23,640	23,681	24,118						
2017	23,062								27,660	24,552	24,151	24,047	23,950	23,635	24,047	24,131	24,256	23,979					
2018	23,781									25,263	24,657	24,177	23,995	23,908	24,395	24,502	24,501	24,241	23,984				
2019	23,238										25,068	24,501	24,262	24,218	24,739	24,874	24,763	24,416	24,405	24,277			
2020	24,308											24,945	24,640	24,546	25,075	25,172	25,050	24,498	24,635	24,470	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	

FORECAST ERROR  
 (PERCENT)

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	18,877	4.8%																					
2002	19,316	3.9%	1.6%																				
2003	20,183	4.9%	3.1%	2.4%																			
2004	20,789	5.9%	4.0%	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	21,886	4.8%	3.6%	1.6%	1.6%	1.6%		-1.1%															
2008	21,351	0.7%	-0.1%	-2.5%	-2.5%	-3.0%	-6.8%	-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	21,388		-5.0%	-8.3%	-8.3%	-9.0%	-12.5%	-11.5%	-10.0%	1.5%	-0.7%	-0.8%											
2012	21,770			-8.6%	-8.6%	-9.2%	-12.7%	-11.5%	-10.5%	1.0%	-0.3%	0.8%	1.1%										
2013	21,654				-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	23,126						-13.0%	-11.0%	-12.5%	-1.5%	-1.2%	-1.4%	-1.2%	0.2%	-0.4%	-0.4%							
2016	23,613							-11.1%	-12.7%	-1.7%	-0.7%	-0.6%	-0.9%	1.2%	-0.1%	-0.3%	-2.1%						
2017	23,062								-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	23,238										-7.3%	-4.2%	-4.0%	-4.0%	-6.1%	-6.2%	-6.2%	-4.8%	-4.8%	-4.3%			
2020	24,308											-2.6%	-1.3%	-1.0%	-3.1%	-3.4%	-3.0%	-0.8%	-1.3%	-0.7%	-1.2%		
2021	24,141												-3.6%	-2.4%	-4.5%	-4.5%	-3.9%	-1.8%	-2.7%	-2.0%	-2.3%	-1.8%	
1 yr		4.8%	1.6%	2.4%	3.1%	8.0%	0.1%	-1.1%	-3.6%	2.9%	0.8%	-0.8%	1.1%	-0.2%	1.6%	-0.4%	-2.1%	-3.8%	-0.8%	-4.3%	-1.2%	-1.8%	
2 yr		3.9%	3.1%	3.1%	7.3%	3.8%	-2.0%	-5.4%	-4.1%	4.5%	-0.7%	0.8%	-0.4%	1.4%	-0.4%	-0.3%	-4.9%	-1.9%	-4.8%	-0.7%	-2.3%		
3 yr		4.9%	4.0%	7.3%	3.4%	1.6%	-6.8%	-6.8%	-5.7%	1.5%	-0.3%	-0.5%	0.3%	0.2%	-0.1%	-4.4%	-2.9%	-4.8%	-1.3%	-2.0%			
4 yr		5.9%	8.4%	3.4%	1.6%	-3.0%	-7.9%	-7.5%	-10.0%	1.0%	-1.4%	0.7%	-1.2%	1.2%	-4.1%	-2.9%	-6.2%	-0.8%	-2.7%				
5 yr		10.4%	4.7%	1.6%	-2.5%	-4.2%	-8.7%	-11.5%	-10.5%	-0.5%	-0.4%	-1.4%	-0.9%	-2.4%	-2.5%	-6.6%	-3.0%	-1.8%					
6 yr		6.5%	3.6%	-2.5%	-3.3%	-4.9%	-12.5%	-11.5%	-12.7%	0.3%	-1.2%	-0.6%	-3.7%	-0.5%	-6.1%	-3.4%	-3.9%						
7 yr		4.8%	-0.1%	-3.3%	-4.2%	-9.0%	-12.7%	-13.3%	-10.9%	-1.5%	-4.1%	-0.9%	-4.0%	-3.1%	-4.5%								
8 yr		0.7%	-0.5%	-4.2%	-8.3%	-9.2%	-13.2%	-9.3%	-12.5%	-1.7%	-4.5%	-1.6%	-4.2%	-1.0%	-4.5%								
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%										



ACTUAL SUMMER PEAK VARIANCE

SUMMER PEAK with DSM  
(MW)

YEAR	WN Actual	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
		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	
2001	2,206	2,265																					
2002	2,406	2,322	2,224																				
2003	2,344	2,322	2,231	2,264																			
2004	2,440	2,341	2,251	2,296	2,391																		
2005	2,458	2,364	2,275	2,346	2,440	2,417																	
2006	2,525	2,397	2,308	2,386	2,459	2,473	2,470																
2007	2,606	2,423	2,335	2,424	2,502	2,531	2,531	2,535															
2008	2,514	2,456	2,368	2,456	2,476	2,576	2,576	2,559	2,576														
2009	2,451	2,488	2,401	2,483	2,513	2,625	2,627	2,595	2,627	2,608													
2010	2,482	2,526	2,439	2,523	2,550	2,677	2,677	2,641	2,685	2,670	2,589												
2011	2,545		2,488	2,556	2,583	2,725	2,718	2,702	2,735	2,754	2,559	2,592											
2012	2,385			2,590	2,611	2,758	2,744	2,738	2,760	2,794	2,570	2,642	2,601										
2013	2,381				2,661	2,803	2,787	2,800	2,820	2,857	2,577	2,675	2,628	2,514									
2014	2,491					2,860	2,836	2,871	2,891	2,917	2,568	2,706	2,664	2,522	2,512								
2015	2,530						2,889	2,937	2,959	2,979	2,619	2,712	2,695	2,545	2,501	2,449							
2016	2,466							2,978	3,003	3,026	2,671	2,722	2,718	2,584	2,526	2,471	2,450						
2017	2,516								3,080	3,107	2,737	2,754	2,753	2,604	2,545	2,499	2,491	2,433					
2018	2,454									3,196	2,790	2,787	2,787	2,612	2,556	2,518	2,520	2,453	2,383				
2019	2,416										2,855	2,830	2,822	2,628	2,575	2,516	2,546	2,469	2,400	2,402			
2020	2,448											2,880	2,871	2,656	2,610	2,531	2,552	2,485	2,405	2,347	2,458		
2021	2,443												2,913	2,687	2,641	2,550	2,554	2,499	2,415	2,348	2,481	2,455	

FORECAST ERROR  
(PERCENT)

Year	WN Actual	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	TYSP	
		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	
2001	2,206	-2.6%																					
2002	2,406	3.6%	8.2%																				
2003	2,344	1.0%	5.1%	3.5%																			
2004	2,440	4.2%	8.4%	6.3%	2.0%																		
2005	2,458	4.0%	8.0%	4.8%	0.7%	1.7%																	
2006	2,525	5.4%	9.4%	5.8%	2.7%	2.1%	2.2%																
2007	2,606	7.5%	11.6%	7.5%	4.1%	3.0%	3.0%	2.8%															
2008	2,514	2.3%	6.2%	2.3%	1.5%	-2.4%	-2.4%	-1.8%	-2.4%														
2009	2,451	-1.5%	2.1%	-1.3%	-2.5%	-6.6%	-6.7%	-5.5%	-6.7%	-6.0%													
2010	2,482	-1.8%	1.7%	-1.6%	-2.7%	-7.3%	-7.3%	-6.0%	-7.6%	-7.1%	-4.1%												
2011	2,545		2.3%	-0.4%	-1.5%	-6.6%	-6.4%	-5.8%	-6.9%	-7.6%	-0.5%	-1.8%											
2012	2,385			-7.9%	-8.6%	-13.5%	-13.1%	-12.9%	-13.6%	-14.6%	-7.2%	-9.7%	-8.3%										
2013	2,381				-10.5%	-15.1%	-14.6%	-15.0%	-15.6%	-16.7%	-7.6%	-11.0%	-9.4%	-5.3%									
2014	2,491					-12.2%	-13.2%	-13.8%	-14.6%	-14.6%	-3.0%	-7.9%	-6.5%	-1.2%									
2015	2,530						-12.4%	-13.8%	-14.5%	-15.1%	-3.4%	-6.7%	-6.1%	-0.6%	1.2%	3.3%							
2016	2,466							-17.2%	-17.9%	-18.5%	-7.7%	-9.4%	-9.3%	-4.6%	-2.4%	-0.2%	0.7%						
2017	2,516								-18.3%	-19.0%	-8.1%	-8.6%	-8.6%	-3.4%	-1.1%	0.7%	1.0%	3.4%					
2018	2,454									-23.2%	-12.1%	-12.0%	-12.0%	-6.1%	-4.0%	-2.6%	-2.6%	0.0%	3.0%				
2019	2,416										-15.4%	-14.6%	-14.4%	-8.1%	-6.2%	-4.0%	-5.1%	-2.1%	0.7%	0.6%			
2020	2,448											-15.0%	-14.7%	-7.8%	-6.2%	-3.3%	-4.1%	-1.5%	1.8%	4.3%	-0.4%		
2021	2,443												-16.1%	-9.1%	-7.5%	-4.2%	-4.4%	-2.3%	1.1%	4.0%	-1.6%	-0.5%	
1 yr		-2.6%	8.2%	3.5%	2.0%	1.7%	2.2%	2.8%	-2.4%	-6.0%	-4.1%	-1.8%	-8.3%	-5.3%	-0.8%	3.3%	0.7%	3.4%	3.0%	0.6%	-0.4%	-0.5%	
2 yr		3.6%	5.1%	6.3%	0.7%	2.1%	3.0%	-1.8%	-6.7%	-7.1%	-0.5%	-9.7%	-9.4%	-1.2%	1.2%	-0.2%	1.0%	0.0%	0.7%	4.3%	-1.6%		
3 yr		1.0%	8.4%	4.8%	2.7%	3.0%	-2.4%	-5.5%	-7.6%	-7.6%	-7.2%	-11.0%	-6.5%	-0.6%	-2.4%	0.7%	-2.6%	-2.1%	1.8%	4.0%			
4 yr		4.2%	8.0%	5.8%	4.1%	-2.4%	-6.7%	-6.0%	-6.9%	-14.6%	-7.9%	-9.3%	-6.1%	-4.6%	-1.1%	-2.6%	-5.1%	-1.5%	1.1%				
5 yr		4.0%	9.4%	7.5%	1.5%	-6.6%	-7.3%	-5.8%	-13.6%	-16.7%	-3.0%	-6.7%	-9.3%	-3.4%	-4.0%	-4.0%	-4.1%	-2.3%					
6 yr		5.4%	11.6%	2.3%	-2.5%	-7.3%	-6.4%	-12.9%	-15.6%	-14.6%	-3.4%	-9.4%	-8.6%	-6.1%	-6.2%	-3.3%	-4.4%						
7 yr		7.5%	6.2%	-1.3%	-2.7%	-6.0%	-13.1%	-15.0%	-13.8%	-15.1%	-7.7%	-8.6%	-12.0%	-8.1%	-6.2%	-4.2%							
8 yr		2.3%	2.1%	-1.6%	-1.5%	-13.5%	-14.6%	-13.2%	-14.5%	-18.5%	-8.1%	-12.0%	-14.4%	-7.8%	-7.5%								
9 yr		-1.5%	1.7%	-0.4%	-8.6%	-15.1%	-12.2%	-13.8%	-17.9%	-19.0%	-12.1%	-14.6%	-14.7%	-9.1%									
10 yr		-1.8%	2.3%	-7.9%	-10.5%	-12.9%	-12.4%	-17.2%	-18.3%	-23.2%	-15.4%	-15.0%	-16.1%										



**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
2022	27,310	27,745	26,874
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, cumulative 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**

Year	FPL Annual Solar Energy (MWh)			FPL Summer Peak Solar Capacity (MW)					FPL Winter Peak Solar Capacity (MW)				
	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**

Year	FPL Private Solar Customers		
	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

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 20  
Attachment No. 1 of 1  
Tab 1 of 1

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

Year	Number of PEVs <sup>(1)</sup>	Number of Public PEV Charging Stations <sup>(2)</sup>	Number of Public DCFC PEV Charging Stations. <sup>(2)</sup>	Cumulative Impact of PEVs <sup>(3)</sup>		
				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.



TYSP Year 2022  
Staff's Data Request 1  
Question No. 30

TABLE 30A - FPL Total Demand Response									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customer s Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customer s Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
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 Business On Call Program									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customer s Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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)									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customer s Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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

TABLE 30E - FPL Commercial/Industrial Demand Reduction Rider (CDR)									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customer s Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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

TABLE 30F - FPL Curtailable Service									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customer s Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2012	46	34	37	0	0	0	1	0	0
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

Notes

TYSP Year 2022  
Staff's Data Request # 1  
Question No. 30

TABLE 30A - Gulf Power Total Demand Response									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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

TABLE 30B - Gulf Power Energy Select Program									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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

TABLE 30C - Gulf Power Curtailable Load Program									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		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

TYSP Year 2022  
Staff's Data Request: 1  
Question No. 31

TABLE 31A - FPL Total Demand Response										
Year	Summer					Winter				
	Number of Events	Average		Maximum		Number of Events	Average		Maximum	
		(MW)	Number of Customers	(MW)	Number of Customers		(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 31B - FPL Residential On Call & Business On Call Programs										
Year	Summer					Winter				
	Number of Events	Average		Maximum		Number of Events	Average		Maximum	
		(MW)	Number of Customers	(MW)	Number of Customers		(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)										
Year	Summer					Winter				
	Number of Events	Average		Maximum		Number of Events	Average		Maximum	
		(MW)	Number of Customers	(MW)	Number of Customers		(MW)	Number of Customers	(MW)	Number of 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)



TYSP Year 2022  
Staff's Data Request : 1  
Question No. 32

TABLE 32A - FPL Total Demand Response							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		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	826,580	N	0	0	N	0	0
2013	839,817	N	0	0	N	0	0
2014	839,829	N	0	0	N	0	0
2015	828,315	N	0	0	N	0	0
2016	815,702	N	0	0	N	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	N	0	0
2020	720,618	N	0	0	N	0	0
2021	713,638	N	0	0	N	0	0

TABLE 32B - FPL Residential On Call and FPL Business On Call Programs							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		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	825,585	N	0	0	N	0	0
2013	838,816	N	0	0	N	0	0
2014	838,871	N	0	0	N	0	0
2015	827,395	N	0	0	N	0	0
2016	814,773	N	0	0	N	0	0
2017	788,825	N	0	0	N	0	0
2018	751,349	N	0	0	N	0	0
2019	727,248	N	0	0	N	0	0
2020	719,613	N	0	0	N	0	0
2021	712,620	N	0	0	N	0	0

TABLE 32C - FPL Commercial/Industrial Load Control (CILC), Commercial/Industrial Demand Reduction (CDR) & Curtailable Service (CS)							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		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	995	N	0	0	N	0	0
2013	1,002	N	0	0	N	0	0
2014	958	N	0	0	N	0	0
2015	920	N	0	0	N	0	0
2016	929	N	0	0	N	0	0
2017	942	N	0	0	N	0	0
2018	968	N	0	0	N	0	0
2019	989	N	0	0	N	0	0
2020	1,006	N	0	0	N	0	0
2021	1,018	N	0	0	N	0	0

Notes

Totals may not add due to rounding.

TYSP Year 2022  
Staff's Data Request # 1  
Question No. 32

TABLE 32A - Gulf Power Total Demand Response							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		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	N	0	0	N	0	0
2014	13,504	N	0	0	N	0	0
2015	15,314	N	0	0	N	0	0
2016	16,984	N	0	0	N	0	0
2017	18,439	N	0	0	N	0	0
2018	19,479	N	0	0	N	0	0
2019	20,007	N	0	0	N	0	0
2020	20,159	N	0	0	N	0	0
2021	20,115	N	0	0	N	0	0

TABLE 32B - Gulf Power Energy Select Program							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		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	N	0	0	N	0	0
2014	13,504	N	0	0	N	0	0
2015	15,314	N	0	0	N	0	0
2016	16,984	N	0	0	N	0	0
2017	18,439	N	0	0	N	0	0
2018	19,479	N	0	0	N	0	0
2019	19,983	N	0	0	N	0	0
2020	20,135	N	0	0	N	0	0
2021	20,091	N	0	0	N	0	0

TABLE 32C - Gulf Power Curtailable Load Program							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		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	N	0	0	N	0	0
2020	24	N	0	0	N	0	0
2021	24	N	0	0	N	0	0

Florida Power & Light Company  
 Docket No. 20220000-OT  
 Ten-Year Site Plan  
 Staff's First Data Request  
 Request No. 33  
 Attachment No. 1 of 1  
 Tab 1 of 1

TYSP Year 2022  
 Staff's Data Request # 1  
 Question No. 33

**Recommended Plan**

**Loss of Load Probability, Reserve Margin, and Expected Unserved Energy  
 Base Case Load Forecast (P50)**

Year	Annual Isolated			Annual Assisted*		
	Summer			Summer		
	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (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

\* 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 Probability, Reserve Margin, and Expected Unserved Energy  
 Base Case Load Forecast (P50)**

Year	Annual Isolated			Annual Assisted*		
	Summer			Summer		
	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (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.

## Florida Power &amp; Light Company

Docket No. 20220000-OT

Ten-Year Site Plan

Staff's First Data Request

Request No. 34

Attachment No. 1 of 1

Tab 1 of 1

TYSP Year 2022  
 Staff's Data Request # 1  
 Question No. 34

## Existing Generating Unit Operating Performance

Plant Name	Unit No.	Planned Outage Factor (POF)		Forced Outage Factor (FOF)		Equivalent Availability Factor (EAF)		Average Net Operating Heat Rate (ANOHR)	
		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 <sup>4</sup>	4	3.2%	2.2%	5.2%	0.7%	86.3%	91.6%	13,400	12,873
GCEC <sup>5</sup>	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 <sup>9</sup>	8	n/a	7.7%	n/a	0.7%	n/a	86.1%	n/a	10,385
Daniel <sup>3</sup>	1	6.8%	1.3%	0.9%	0.9%	83.3%	92.3%	10,695	10,788
Daniel <sup>3</sup>	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 <sup>6</sup> CT	3A	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 <sup>1</sup>	1	0.0%	n/a	0.7%	n/a	94.7%	n/a	11,200	N/A
Manatee <sup>1</sup>	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 <sup>2</sup>	1	9.1%	7.5%	1.8%	1.5%	75.5%	85.5%	6,359	6,200
Pea Ridge <sup>7</sup>	1-3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15,000
Perdido <sup>8</sup>	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 <sup>10</sup>	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%	0.6%	83.3%	87.5%	7,121	6,848
West County Energy Center	1	9.6%	5.0%	0.7%	0.8%	83.4%	88.7%	7,050	6,623
West County Energy Center	2	5.8%	6.1%	0.7%	0.8%	89.2%	87.6%	6,892	6,627
West County Energy Center	3	5.0%	5.9%	0.8%	0.8%	86.6%	87.8%	6,953	6,622

Historical - average of past three years

Projected - average of next ten years

## Notes:

<sup>1</sup> Assumes conversion to Extreme Winter-only operation<sup>2</sup> Historical average based on commercial in-service date of 4/1/19<sup>3</sup> Assumes first quarter 2024 retirement<sup>4</sup> Gulf Clean Energy Center (formerly known as Crist Plant). Assumes conversion to Extreme Winter-only operation in 2025<sup>5</sup> Gulf Clean Energy Center (formerly known as Crist Plant). Assumes conversion to Extreme Winter-only operation in 2025<sup>6</sup> Assumes conversion to Winter-only operation in 2025<sup>7</sup> Assumes fourth quarter 2024 retirement<sup>8</sup> Assumes fourth quarter 2029 retirement<sup>9</sup> COD 12/31/2021<sup>10</sup> Retired 12/31/2021



Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 35  
Attachment No. 1 of 1  
Tab 1 of 1

TYSP Year 2022  
Staff's Data Request # 1  
Question No. 35

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
Cape Canaveral	3	Brevard County	CC	NG	Apr	2013	1307	1410	1290	1393	1290	1393	52.11
Fort Myers	2	Lee County	CC	NG	Jun	2002	1834	1809	1812	1787	1812	1787	64.37
Fort Myers	3A	Lee County	CT	NG	Jun	2003	196	202	195	201	195	201	3.18
Fort Myers	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	1, 9	Lee County	GT	FO2	May	1974	109	124	108	123	108	123	0.11
Fort Lauderdale	6A	Broward County	CT	NG	Dec	2016	232	226	231	225	231	225	2.02
Fort Lauderdale	6B	Broward County	CT	NG	Dec	2016	232	226	231	225	231	225	2.41
Fort Lauderdale	6C	Broward County	CT	NG	Dec	2016	232	226	231	225	231	225	4.65
Fort Lauderdale	6D	Broward County	CT	NG	Dec	2016	232	226	231	225	231	225	5.63
Fort Lauderdale	6E	Broward County	CT	NG	Dec	2016	232	226	231	225	231	225	4.45
Fort Lauderdale	3, 5	Broward County	GT	NG	Aug	1970	70	74	69	73	69	73	2.00
Manatee	1	Manatee County	ST	NG	Oct	1976	0	854	0	819	0	819	17.42
Manatee	2	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	SUB	Jul	1989	694	695	634	635	634	635	47.26
St. Lucie	1	St. Lucie County	ST	Nuc	May	1976	1025	1047	981	1003	981	1003	89.70
St. Lucie	2	St. Lucie County	ST	Nuc	Jun	1983	885	905	840	860	840	860	91.39
Turkey Point	3	Miami Dade County	ST	Nuc	Nov	1972	872	894	837	859	837	859	86.13
Turkey Point	4	Miami Dade County	ST	Nuc	Jun	1973	879	901	844	866	844	866	102.65
Turkey Point	5	Miami Dade County	CC	NG	May	2007	1295	1336	1270	1311	1270	1311	49.41
West County	1	Palm Beach County	CC	NG	Aug	2009	1281	1391	1259	1369	1259	1369	62.56
West County	2	Palm Beach County	CC	NG	Nov	2009	1281	1391	1259	1369	1259	1369	66.45
West County	3	Palm Beach County	CC	NG	May	2011	1281	1391	1259	1369	1259	1369	60.47
<b>FPL NWFL (Former Gulf Units)</b>													
Daniel	1	Jackson County	FS	Coal	Sep	1977	273	273	251	251	251	251	65.97
Daniel	2	Jackson County	FS	Coal	Jun	1981	273	273	251	251	251	251	29.15
Gulf Clean Energy Center	4	Escambia County	FS	Coal	Jul	1959	82	82	75	75	75	75	0.06
Gulf Clean Energy Center	5	Escambia County	FS	Coal	Jun	1961	82	82	75	75	75	75	0
Gulf Clean Energy Center	6	Escambia County	FS	Coal/NG	May	1970	330	330	315	315	315	315	25.87
Gulf Clean Energy Center	7	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	A	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**  
Capacity factor is based on actual unit performance from 2021.

**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 Capacity (MW)		Firm Capacity (MW)		Projected Capacity Factor*
					Mo	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 were calculated by taking the average of the projected capacity factors starting from the first year the unit is in service (Dania Beach Clean EC, 2022) through the year 2031.

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

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
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 County	PV	Solar	Dec	2016	74.5	74.5	74.5	74.5	41.9	2.1	24.5
Manatee Solar	1	Manatee County	PV	Solar	Dec	2016	74.5	74.5	74.5	74.5	41.7	1.6	24.7
Coral Farms Solar	1	Putnam County	PV	Solar	Jan	2018	74.5	74.5	74.5	74.5	40.2	1.2	21.1
Horizon Solar	1	Alachua / 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 County	PV	Solar	Mar	2018	74.5	74.5	74.5	74.5	35.8	2.7	24.1
Miami Dade Solar	1	Miami-Dade County	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	39.2	3.5	23.3
Pioneer Trail Solar	1	Volusia County	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	38.4	1.8	22.7
Interstate Solar	1	St. Lucie County	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	39.5	3.0	23.8
Sunshine Gateway Solar	1	Columbia County	PV	Solar	Jan	2019	74.5	74.5	74.5	74.5	41.7	0.9	22.0
Sweetbay Solar	1	Martin 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	PV	Solar	January	2020	74.5	74.5	74.5	74.5	33.0	0.5	19.9
Cattle Ranch Solar	1	Desoto County	PV	Solar	January	2020	74.5	74.5	74.5	74.5	34.8	1.5	24.6
Twin Lakes Solar	1	Putnam 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 County	PV	Solar	December	2020	74.5	74.5	74.5	74.5	34.7	0.6	21.9
Magnolia Springs Solar	1	Clay County	PV	Solar	March	2021	74.5	74.5	74.5	74.5	36	1.1	23.6
Pelican Solar	1	St. Lucie County	PV	Solar	February	2021	74.5	74.5	74.5	74.5	36	1.3	25.2
Palm Bay Solar	1	Brevard County	PV	Solar	March	2021	74.5	74.5	74.5	74.5	36	0.9	25.6
Rodeo Solar	1	DeSoto County	PV	Solar	March	2021	74.5	74.5	74.5	74.5	36	1.5	24.7
Sabal Palm Solar	1	Palm Beach County	PV	Solar	April	2021	74.5	74.5	74.5	74.5	36	1.6	24.6
Willow Solar	1	Manatee County	PV	Solar	May	2021	74.5	74.5	74.5	74.5	36	0.9	24.1
Discovery Solar	1	Brevard County	PV	Solar	May	2021	74.5	74.5	74.5	74.5	36	1.0	21.8
Orange Blossom Solar	1	Indian River 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 Battery Storage*	1	Columbia County	BS	N/A	4th Q	2021	30	30	30	30	30	30	N/A
Echo River Battery Storage*	1	Suwannee County	BS	N/A	4th Q	2021	30	30	30	30	30	30	N/A

**Notes**  
Capacity factors are actuals for 2021 for all units except Blue Springs and Cotton Creek. These units were placed into service during December 2021, and the capacity factors provided are forecasted capacity factors for the first year of operation.  
(1) The Martin Solar Thermal unit is a 75MW unit capable of producing steam to be used in the Martin 8 Combined Cycle unit and is not an electrical generator.  
(2) The FPL Living Lab research assets reflects removal of assets from the FPL Juno Beach location in 2021.  
(3) C&I Solar Partnership assets reflects removal of the Daytona Kennel Club assets in 2021.  
\*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. 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	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (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
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2024	223.5	223.5	223.5	223.5	97.67	13.2	27.5
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2025	1490	1490	1490	1490	542.36	87.91	27.3
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2026	596	596	596	596	178.2	35.16	25.5
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2027	596	596	596	596	156.15	35.16	25.5
Unsitd Battery Storage**	1	Unknown	BS	N/A	1st Q	2027	300	300	300	300	300	300	N/A
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2028	745	745	745	745	195	44.0	25.5
Unsitd Battery Storage**	1	Unknown	BS	N/A	1st Q	2028	400	400	400	400	360	400	N/A
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2029	894	894	894	894	190	53	25.5
Unsitd Battery Storage**	1	Unknown	BS	N/A	1st Q	2029	900	900	900	900	637	900	N/A
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2030	894	894	894	894	58	53	25.5
Unsitd Battery Storage**	1	Unknown	BS	N/A	1st Q	2030	600	600	600	600	372	600	N/A
Unsitd Solar PV	1	Unknown	PV	Solar	1st Q	2031	969	969	969	969	63	57	25.5
Unsitd Battery Storage**	1	Unknown	BS	N/A	1st Q	2031	1000	1000	1000	1000	500	500	N/A

**Notes**

The capacity values shown for solar units are for the first year of operation. These capacity values and the associated energy output of the solar sites degrade over time, and this degradation is accounted for in these 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**

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

**Notes**

No default escalation is assumed. Pricing forecast is the weighted average of contract pricing from existing firm energy PPAs.

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

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
Shell Energy NA	Tenaska		Autauga	CC	Gas	NA	NA	765	765	885	885	11/09	05/23
<b>Notes</b>													

**Florida Power & Light Company**  
**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 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
<b>Notes</b>													
There are no Planned New Traditional Generator PPAs in the current planning 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 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
<b>Notes</b>													

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
<b>Notes</b>													
There are no Planned New Renewable Generator PPAs in the current planning 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 Year 2022  
Staff's Data Request # 1  
Question No. 46

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
Lee County Full Requirements Agreement <sup>1</sup>	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 <sup>2</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>4</sup>	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 <sup>4</sup>	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 <sup>4</sup>	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 <sup>4</sup>	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	Gadsden	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 Beach <sup>5</sup>	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 <sup>5</sup>	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
<b>Notes</b>													
(1) The contract includes an option to extend the agreement through December 31, 2053.													
(2) The contract includes an option to extend the agreement through December 31, 2051.													
(3) The contract includes an option to extend the agreement through December 31, 2028.													
(4) The contract includes an option to extend the agreement through December 31, 2030.													
(5) The contract includes an option to extend the agreement through December 31, 2027.													

**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 Year                    2022  
 Staff's Data Request #        1  
 Question 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
<b>Notes</b>													
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

Renewable Source	Annual Renewable Generation (GWh)										
	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
<b>Total</b>	<b>8,657</b>	<b>11,097</b>	<b>13,874</b>	<b>17,731</b>	<b>21,543</b>	<b>23,616</b>	<b>25,260</b>	<b>27,323</b>	<b>29,654</b>	<b>32,106</b>	<b>34,704</b>
<b>Notes</b>											
All energy for FPL-owned renewables is being considered non-firm for the purposes of this table. However, FPL, accounts for a percentage of the nameplate rating of PV facilities as firm capacity in reliability analysis. 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
<b>NOTE:</b> 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)	Y	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	N	12/21	409	900	84%
Sunshine Gateway Energy Storage Center	N	12/21	30	75	88%
Echo River Energy Storage Center	N	12/21	30	75	88%
Resi. Living Lab (8 locations)	Y	5/21-8/21	0.04	0.09	90%
Innovation Way (7 locations)	N	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 Name	Pilot Program (Y/N)	In-Service/ Pilot Start Date (MM/YY)	Projected Max Capacity Output (MW)	Projected Max Energy Stored (MWh)	Projected Conversion 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	N	1/27	100	400	TBD
Unsited 2027 Battery 3	N	1/27	100	400	TBD
Unsited 2028 Battery 1	N	1/28	100	400	TBD
Unsited 2028 Battery 2	N	1/28	100	400	TBD
Unsited 2028 Battery 3	N	1/28	100	400	TBD
Unsited 2028 Battery 4	N	1/28	100	400	TBD
Unsited 2029 Battery 1	N	1/29	100	400	TBD
Unsited 2029 Battery 2	N	1/29	100	400	TBD
Unsited 2029 Battery 3	N	1/29	100	400	TBD
Unsited 2029 Battery 4	N	1/29	100	400	TBD
Unsited 2029 Battery 5	N	1/29	100	400	TBD
Unsited 2029 Battery 6	N	1/29	100	400	TBD
Unsited 2029 Battery 7	N	1/29	100	400	TBD
Unsited 2029 Battery 8	N	1/29	100	400	TBD
Unsited 2029 Battery 9	N	1/29	100	400	TBD
Unsited 2030 Battery 1	N	1/30	100	400	TBD
Unsited 2030 Battery 2	N	1/30	100	400	TBD
Unsited 2030 Battery 3	N	1/30	100	400	TBD
Unsited 2030 Battery 4	N	1/30	100	400	TBD
Unsited 2030 Battery 5	N	1/30	100	400	TBD
Unsited 2030 Battery 6	N	1/30	100	400	TBD
Unsited 2031 Battery 1	N	1/31	500	2000	TBD
Unsited 2031 Battery 2	N	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.



TYSP Year 2022  
Staff's Data Request 1  
Question No. 64

Year		Zonal As-Available Pricing																				
		As-Available Energy (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)	NORTHEAST <sup>(1)</sup>			NE-SOUTH <sup>(1)</sup>			SOUTHEAST			SOUTH			WEST			NORTHWEST <sup>(2)</sup>		
					As-Available Energy (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)	As-Available (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)	As-Available (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)	As-Available (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)	As-Available (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)	As-Available (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)
Actual	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
	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
	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
Projected <sup>(3)</sup>	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																		
	2025	22.09	21.40	21.69																		
	2026	20.98	23.31	22.34																		
	2027	22.68	20.93	21.66																		
	2028	22.35	23.02	22.74																		
	2029	24.07	25.11	24.68																		
	2030	25.47	25.92	25.73																		
	2031	25.46	27.04	26.38																		

Notes  
1) In 2020, FPL consolidated its NE North and NE South zones into a single Northeast zone as a result of the elimination of a point of system export at New Smyrna Beach.  
2) 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

Generating Unit Name	Summer Capacity (MW)	Certification Dates (if Applicable)		In-Service Date (MM/YY)
		Need Approved (Commission)	PPSA Certified	
<b>Nuclear Unit Additions</b>				
N/A	N/A	N/A	N/A	N/A
<b>Combustion Turbine Unit Additions</b>				
N/A	N/A	N/A	N/A	N/A
<b>Combined Cycle Unit Additions</b>				
Dania Beach Clean Energy Center	1258	March, 2018	December, 2018	June, 2022
<b>Steam Turbine Unit Additions</b>				
N/A	N/A	N/A	N/A	N/A
<b>Notes</b>				
(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**

**(Dates shown are approximate and are subject to change)**

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 2 of 17**

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

**(Dates shown are approximate and are subject to change)**

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**

**(Dates shown are approximate and are subject to change)**

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**

**(Dates shown are approximate and are subject to change)**

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**

**(Dates shown are approximate and are subject to change)**

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
	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**

**(Dates shown are approximate and are subject to change)**

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																									█											

**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	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**

**(Dates shown are approximate and are subject to change)**

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
	2026												2027												2028											
Permitting/Engineering/Fabrication	█												█																							
Construction															█																					
Unit In-Service																									█											

**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	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**

**(Dates shown are approximate and are subject to change)**

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
	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**

**(Dates shown are approximate and are subject to change)**

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
	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**

**(Dates shown are approximate and are subject to change)**

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
	2029												2030												2031											
Permitting/Engineering/Fabrication	█												█																							
Construction													█																							
Unit In-Service																									█											





Echo River Solar	1	PV	SUN	24.1%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%	28.2%
Hibiscus Solar	1	PV	SUN	24.6%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%	24.3%
Okeechobee Solar	1	PV	SUN	26.4%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
Magnolia Springs Solar	1	PV	SUN	21.6%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%	24.1%
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	SUN	21.1%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%
Blue Springs Solar	1	PV	SUN	1.5%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%
Cotton Creek Solar	1	PV	SUN	1.6%	23.4%	23.4%	23.4%	23.4%	23.4%	23.4%	23.4%	23.4%	23.4%	23.4%
Sundew Solar	1	PV	SUN	*	22.9%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%
Ghost Orchid Solar	1	PV	SUN	*	23.0%	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	SUN	*	*	28.0%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%
Everglades Solar	1	PV	SUN	*	*	25.1%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%	24.8%
First City Solar	1	PV	SUN	*	*	22.3%	21.8%	21.9%	21.9%	21.9%	21.9%	21.9%	21.9%	21.9%
Flowers Creek Solar	1	PV	SUN	*	*	23.6%	22.9%	22.9%	22.9%	22.9%	22.9%	22.9%	22.9%	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%	27.5%	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	SUN	*	*	*	28.5%	27.9%	27.9%	27.9%	27.9%	27.9%	27.9%	27.9%
Turnpike Solar	1	PV	SUN	*	*	*	25.5%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%	25.2%
Woodyard Solar	1	PV	SUN	*	*	*	26.0%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%
Big Juniper Creek Solar	1	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	1	PV	SUN	*	*	*	*	*	*	*	*	25.5%	25.5%	25.5%
2030 Solar	1	PV	SUN	*	*	*	*	*	*	*	*	*	25.5%	25.5%
2031 Solar	1	PV	SUN	*	*	*	*	*	*	*	*	*	*	25.5%

**Notes**

\* 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.

**Florida Power & Light Company**  
**Docket No. 20220000-OT**  
**Ten-Year Site Plan**  
**Staff's First Data Request**  
**Request No. 69**  
**Attachment No. 1 of 1**  
**Tab 1 of 1**

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

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYYY)	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
<b>Notes</b>					
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/YYYY)	Potential Conversion	Potential Issues
N/A					
<b>Notes</b>					
Coal fired or oil fired conventional steam generating units are capable of being switched to burn natural gas. There are not any remaining units in the FPL system that are potential candidates for fuel switching as they have already been switched to burn natural gas.					

**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

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



TYSP Year 2022  
Staff's Data Request # 1  
Question No. 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
<b>Nameplate Solar Additions (2022-2031):</b>			<b>4,843</b>	
<b>Storage Additions (2022-2031):</b>			<b>1,300</b>	

TYSP Year 2022  
Staff's Data Request # 1  
Question No. 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
<b>Nameplate Solar Additions (2022-2031):</b>			<b>4,843</b>	
<b>Storage Additions (2022-2031):</b>			<b>1,300</b>	

**Florida Power & Light Company**  
**Docket No. 20220000-OT**  
**Ten-Year Site Plan**  
**Staff's First Data Request**  
**Request No. 74**  
**Attachment No. 1 of 1**  
**Tab 1 of 1**

TYSP Year 2022  
 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
<b>Notes</b>				
(Include Notes Here)				

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 76  
Attachment No. 1 of 1  
Tab 1 of 1

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

Unit	Unit Type	Fuel Type	Net Summer Capacity (MW)	Estimated EPA Rule Impacts: Operational Effects						
				ELGS	ACE or replacement	MATS	CSAPR/CAIR	CWIS	CCR	
									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	CC	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	ESP Installation Completed 2013	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	ESP Installation Completed 2012	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 <sup>2</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 anticipated 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
Perdido	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

**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: <sup>1</sup> FPL Ownership Share only

<sup>2</sup>Unit capability also included in Martin Unit 8 Net Summer Capability

<sup>3</sup>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 FDEP proposed rules to

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

Unit	Unit Type	Fuel Type	Net Summer Capacity (MW)	Estimated EPA Rule Impacts: Cost Effects (CPVRR \$ millions)						
				ELGS	ACE or replacement	MATS	CSAPR/CAIR	CWIS	CCR	
									Non-Hazardous Waste	Special Waste
Cape Canaveral 3	CC	NG, ULSD	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
Fort Myers 2	CC	NG	1812	N/A	N/A	N/A	N/A	7.83	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	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
Riviera 5	CC	NG, ULSD	1290	N/A	N/A	N/A	N/A	0.83	N/A	N/A
Sanford 4	CC	NG	1176	N/A	N/A	N/A	N/A	0	N/A	N/A
Sanford 5	CC	NG, ULSD	1176	N/A	N/A	N/A	N/A	0	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	0	N/A	N/A
Manatee 2	ST	NG, RFO	813	N/A	N/A	ESP Project Complete 2012	800 MW Cycling Project Complete	0	N/A	N/A
Manatee 3	CC	NG	1249	N/A	N/A	N/A	N/A	0	N/A	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
Martin 8	CC	NG, ULSD	1235	N/A	N/A	N/A	N/A	0	N/A	N/A
Martin SOLAR	ST	SUN	75 <sup>2</sup>	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	0	N/A	N/A
St. Lucie 2	PWR	NUC	840 <sup>1</sup>	N/A	N/A	N/A	N/A	0	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 <sup>1</sup>		No additional Heat Rate Improvements anticipated	Completed 2010	Completed 2012			N/A
Indiantown Cogeneration	Unit retired December 2020			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gulf Clean Energy Center (formerly Plant Crist)	ST	NG	967	No additional controls anticipated due to gas conversion projects	N/A	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	6.5	N/A
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
Perdidio	IC	LFG	3	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	N/A	No Impacts Anticipated	No Impacts Anticipated	42.8	N/A
Daniel	ST	Coal	502 <sup>1</sup>	No Impacts Anticipated	None, Unit will be retired in 2024	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	9.6	N/A

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: <sup>1</sup> FPL Ownership Share only

<sup>2</sup> Unit capability also included in Martin Unit 8 Net Summer Capability

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

<sup>4</sup> 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 FDEP

Florida Power & Light Company  
Docket No. 20220000-OT  
Ten-Year Site Plan  
Staff's First Data Request  
Request No. 78  
Attachment No. 1 of 1  
Tab 1 of 1

TYSP Year 2022  
Staff's Data Request # 1  
Question No. 78

Unit	Unit Type	Fuel Type	Net Summer Capacity (MW)	Estimated EPA Rule Impacts: Unit Availability (Month/Year - Duration)						
				ELGS	ACE or replacement	MATS	CSAPR/CAIR	CWIS	CCR	
									Non-Hazardous Waste	Special Waste
Cape Canaveral 3	CC	NG, ULSD	1290	N/A	N/A	N/A	N/A	2022-2025 time frame for fine mesh screens, if required. <sup>3</sup>	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	2022-2025 time frame for modified traveling screens, fish return system and fine mesh screens, if required. <sup>3</sup>	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	1,163	N/A	N/A	N/A	N/A	2022-2025 time frame for fine mesh screens, if required. <sup>3</sup>	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	2022-2025 time frame for fine mesh screens, if required. <sup>3</sup>	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

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
Manatee 3	CC	NG	1249	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Martin 3	CC	NG	487	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Martin 4	CC	NG	487	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Martin 8	CC	NG, ULSD	1235	N/A	N/A	N/A	N/A	No Impacts are Anticipated	N/A	N/A
Martin SOLAR	ST	SUN	75 <sup>2</sup>	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	2022-2025 for velocity cap excluder device, if required. <sup>3</sup>	N/A	N/A
St. Lucie 2	PWR	NUC	840 <sup>1</sup>	N/A	N/A	N/A	N/A	2022-2025 for velocity cap excluder device, if required. <sup>3</sup>	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 <sup>1</sup>	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	N/A
Gulf Clean Energy Center (formerly Crist)	ST	Coal,NG	967	No additional controls anticipated due to gas conversion projects	N/A	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	N/A
Gulf Clean Energy Center (formerly Crist) 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
Perdidio	IC	LFG	3	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	N/A	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	N/A
Daniel	ST	Coal	502	No Impacts Anticipated	None, Unit will be retired in 2024	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	No Impacts Anticipated	N/A

**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: <sup>1</sup> FPL Ownership Share only  
<sup>2</sup> Unit capability also included in Martin Unit 8 Net Summer Capability  
<sup>3</sup> If additional controls are required for CWIS, most work would be done without any unit impacts and tie-in to existing systems would occur  
<sup>4</sup> 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 FDEP



TYSP Year 2022  
Staff's Data Request # 1  
Question No. 80

### FPL

Year		Uranium		Coal		Natural Gas		Residual Oil		Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
Actual	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
	2014	26,812	0.63	4,482	2.92	79,211	5.29	231	14.70	128	20.84
	2015	27,045	0.64	5,275	2.70	85,797	4.45	323	14.64	139	20.68
	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	11.83	129	16.01
	2019	27,791	0.53	2,488	2.59	93,401	3.90	106	11.53	224	17.01
	2020	28,221	0.48	1,636	2.75	95,278	3.45	53	11.53	66	16.70
	2021	28,341	0.49	2,089	2.85	90,903	5.39	75	11.68	94	16.04
Projected	2022	FPL and Gulf were modeled as individual systems through 2021. From 2022-2031, they are modeled as one system. See "Integrated System" below.									
	2023										
	2024										
	2025										
	2026										
	2027										
	2028										
	2029										
	2030										
	2031										
Notes											

### Gulf

Year		Uranium		Coal		Natural Gas		Residual Oil		Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
Actual	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
	2016	--	--	4,697	3.21	8,724	3.38	--	--	1	12.31
	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
Projected	2022	FPL and Gulf were modeled as individual systems through 2021. From 2022-2031, they are modeled as one system. See "Integrated System" below.									
	2023										
	2024										
	2025										
	2026										
	2027										
	2028										
	2029										
	2030										
	2031										
Notes											

### FPL System (including FPL NWFL)

Year		Uranium		Coal		Natural Gas		Residual Oil		Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
Projected	FPL	FPL and Gulf were modeled as individual systems through 2021. From 2022-2031, they are modeled as one system.									
	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
	2024	27,741	0.45	56	2.74	95,080	3.27	1	11.18	0	15.78
	2025	28,836	0.46	33	2.80	91,811	3.22	0	10.77	0	15.90
	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		Uranium		Coal		Natural Gas		Residual Oil		Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
2021 Projected Fuel Prices (2021 Ten Year Site Plan)	FPL	28,105	0.50	613	2.54	87,292	3.00	8	9.28	7	9.81
	GULF	--	--	1,906	2.82	11,241	2.95	--	--	2	10.03

Note: Projected fuel prices for natural gas do not include fixed transportation costs.

Year		Uranium		Coal		Natural Gas		Residual Oil		Distillate Oil	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
2021 Actual Delivered Fuel Prices (2021 A3 Schedules in Docket No. 20220001-EI)	FPL	28,341	0.49	2,089	2.85	90,903	5.39	75	11.68	94	16.04
	GULF	--	--	1,765	2.86	6,539	4.41	--	--	1	12.92

Note: Actual fuel prices for natural gas include fixed transportation costs.