



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

March 25, 2020

**VIA ELECTRONIC FILING**

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

Re: *Duke Energy Florida, LLC's Solar Plant Operation Status Report*  
Docket No. 20200007-EI

Dear Mr. Teitzman:

Enclosed for filing on behalf of Duke Energy Florida, LLC ("DEF") is DEF's Solar Plant Operation Status Report for the month of February 2020, in accordance with Paragraph 15a. of the 2017 Second Revised and Restated Settlement Agreement, which was approved in Order No. PSC-2017-0451-AS-EU, dated November 20, 2017.

Thank you for your assistance in this matter. Please feel free to call me at (727) 820-4692 should you have any questions concerning this filing.

Sincerely,

*/s/ Dianne M. Triplett*

Dianne M. Triplett

DMT/cmck  
Enclosures

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 25<sup>th</sup> day of March, 2020.

/s/ Dianne M. Triplett

Attorney

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Duke Energy Florida, LLC  
 Actual Data for Solar Generation Facilities  
 Solar Base Rate Adjustment (SoBRA) Reporting  
February, 2020

		AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)
Hour of Day	System Firm Demand (MW)	HAMILTON	Lake Placid	Trenton
1	1	3,336.5	0.0	0.0
2	2	3,158.9	0.0	0.0
3	3	3,083.2	0.0	0.0
4	4	3,062.7	0.0	0.0
5	5	3,141.2	0.0	0.0
6	6	3,413.1	0.0	0.0
7	7	3,907.5	0.0	0.0
8	8	4,325.1	3.5	2.3
9	9	4,463.2	25.3	13.4
10	10	4,440.9	38.4	20.0
11	11	4,422.2	45.6	21.7
12	12	4,406.1	49.0	21.8
13	13	4,445.6	50.1	22.7
14	14	4,494.7	49.5	22.6
15	15	4,548.6	47.8	22.9
16	16	4,617.3	45.0	22.5
17	17	4,683.1	38.1	17.3
18	18	4,734.6	17.9	5.4
19	19	4,906.6	2.2	0.1
20	20	4,912.7	0.0	0.0
21	21	4,700.4	0.0	0.0
22	22	4,407.2	0.0	0.0
23	23	4,053.5	0.0	0.0
24	24	3,637.6	0.0	0.0

Duke Energy Florida, LLC  
Actual Data for Solar Generation Facilities  
Solar Base Rate Adjustment (SoBRA) Reporting

PERIOD:

**February, 2020**

Facility	Net Capability (MW)	Net Generation (MWh) <sup>(1)</sup>	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) <sup>(2)</sup>
1 HAMILTON	74.9	11,960	22.9%	0.4%	2,804,700
1 LAKE PLACID	45.0	5,590	17.8%	0.2%	
1 TRENTON	74.9	11,290	21.7%	0.4%	
2 <b>Total:</b>	<b>194.8</b>	<b>28,840.0</b>	<b>21.3%</b>	<b>1.0%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) <sup>(3)</sup>	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) <sup>(3)</sup>	Coal Displaced (Tons)	Cost of Coal (\$/Ton) <sup>(3)</sup>
3 HAMILTON	101,304	\$2.02	128	\$74.90	0	\$42.72
3 LAKE PLACID	47,349	\$2.02	60	\$74.90	0	\$42.72
3 TRENTON	95,629	\$2.02	120	\$74.90	0	\$42.72
4 <b>Total:</b>	<b>244,283</b>	<b>\$493,976</b>	<b>308</b>	<b>\$23,038</b>	<b>0</b>	<b>\$0</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5 HAMILTON	6,209	3	0	0
5 LAKE PLACID	2,902	2	0	0
5 TRENTON	5,861	3	0	0
6 <b>Total:</b>	<b>14,971</b>	<b>8</b>	<b>0</b>	<b>0</b>

Facility	O&M (\$)	Carrying Costs (\$) <sup>(4)</sup>	Capital (\$) <sup>(5)</sup>	Other (\$) <sup>(6)</sup>	Fuel Costs (\$)	Total Cost of Generation (\$)
7 HAMILTON	\$99,745	\$715,939	\$304,493	\$16,388	\$0	\$1,136,565
7 LAKE PLACID	\$432	\$382,253	\$161,826	\$8,683	\$0	\$553,194
7 TRENTON	\$1,664	\$600,699	\$254,515	\$17,550	\$0	\$874,428
8 <b>Total:</b>	<b>\$101,841</b>	<b>\$1,698,890</b>	<b>\$720,835</b>	<b>\$42,621</b>	<b>\$0</b>	<b>\$2,564,187</b>

(1) Net Generation data represents a calendar month.

(2) Total System Net Generation from Monthly Operating Report.

(3) Fuel Cost per unit data from Schedules A3 & A4.

(4) Carrying Cost data represents return on average net investment.

(5) Capital Cost data represents depreciation expense on net investment.

(6) Other Cost data represents dismantlement costs and amortization on ITC (no ITC amortization for Hamilton, Lake Placid, and Trenton yet).

Duke Energy Florida, LLC  
Actual Data for Solar Generation Facilities  
Solar Base Rate Adjustment (SoBRA) Reporting  
YEAR-TO-DATE THROUGH:  
**February, 2020**

Facility	Net Capability (MW)	Net Generation (MWh) <sup>(1)</sup>	Capacity Factor (%) <sup>(7)</sup>	Percent of Total Generation (%)	Total System Net Generation (MWh) <sup>(2)</sup>
1 HAMILTON	74.9	23,486	21.8%	0.4%	5,749,960
1 LAKE PLACID	45.0	12,176	18.8%	0.2%	
1 TRENTON	74.9	20,799	19.3%	0.4%	
2 <b>Total:</b>	<b>194.8</b>	<b>56,461</b>	<b>20.1%</b>	<b>1.0%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) <sup>(3)</sup>	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) <sup>(3)</sup>	Coal Displaced (Tons)	Cost of Coal (\$/Ton) <sup>(3)</sup>
3 HAMILTON	193,085	\$2.09	128	\$74.90	0	\$42.72
3 LAKE PLACID	99,793	\$2.10	60	\$74.90	0	\$42.72
3 TRENTON	171,349	\$2.09	120	\$74.90	0	\$42.72
4 <b>Total:</b>	<b>464,226</b>	<b>\$971,148</b>	<b>308</b>	<b>\$23,038</b>	<b>0</b>	<b>\$0</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5 HAMILTON	11,780	6	0	0
5 LAKE PLACID	6,086	3	0	0
5 TRENTON	10,457	5	0	0
6 <b>Total:</b>	<b>28,323</b>	<b>14</b>	<b>0</b>	<b>0</b>

Facility	O&M (\$)	Carrying Costs (\$) <sup>(4)</sup>	Capital (\$) <sup>(5)</sup>	Other (\$) <sup>(6)</sup>	Fuel Costs (\$)	Total Cost of Generation (\$)
7 HAMILTON	\$535,243	\$1,434,011	\$608,958	\$16,390	\$0	\$2,594,602
7 LAKE PLACID	\$155,555	\$765,304	\$323,417	\$17,366	\$0	\$1,261,643
7 TRENTON	\$6,281	\$1,202,348	\$508,847	\$35,100	\$0	\$1,752,576
8 <b>Total:</b>	<b>\$697,079</b>	<b>\$3,401,663</b>	<b>\$1,441,222</b>	<b>\$68,856</b>	<b>\$0</b>	<b>\$5,608,820</b>

(1) Net Generation data represents a year-to-date value.

(2) Total System Net Generation from Monthly Operating Reports.

(3) Fuel Cost per unit data from Schedules A3 & A4.

(4) Carrying Cost data represents return on average net investment.

(5) Capital Cost data represents depreciation expense on net investment.

(6) Other Cost data represents dismantlement costs and amortization on ITC (no ITC amortization for Hamilton, Lake Placid, and Trenton yet).