



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

March 30, 2021

**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. 20210007-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 2021, 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 30<sup>th</sup> day of March, 2021.

/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, 2021**

		AVERAGE HOURLY NET OUTPUT (MWh)				
Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary
1	1	3,388.6	0.0	0.0	0.0	0.0
2	2	3,215.9	0.0	0.0	0.0	0.0
3	3	3,140.4	0.0	0.0	0.0	0.0
4	4	3,116.6	0.0	0.0	0.0	0.0
5	5	3,191.8	0.0	0.0	0.0	0.0
6	6	3,426.0	0.0	0.0	0.0	0.0
7	7	3,818.1	0.0	0.0	0.0	0.0
8	8	4,166.4	3.0	2.8	3.3	3.4
9	9	4,334.0	23.1	17.3	24.0	17.8
10	10	4,375.8	34.4	26.7	37.4	34.0
11	11	4,414.2	39.0	28.3	45.2	47.6
12	12	4,483.1	43.1	30.9	49.6	53.6
13	13	4,588.6	42.3	30.2	49.1	55.3
14	14	4,673.1	41.4	31.2	47.0	52.2
15	15	4,758.3	39.2	30.5	43.9	48.2
16	16	4,834.4	36.4	28.0	40.8	34.4
17	17	4,920.0	31.9	19.1	35.2	22.5
18	18	4,983.8	14.0	6.2	14.6	6.6
19	19	5,105.2	0.3	0.1	0.4	0.0
20	20	5,048.4	0.0	0.0	0.0	0.0
21	21	4,779.7	0.0	0.0	0.0	0.0
22	22	4,464.0	0.0	0.0	0.0	0.0
23	23	4,088.6	0.0	0.0	0.0	0.0
24	24	3,709.1	0.0	0.0	0.0	0.0

Duke Energy Florida, LLC  
Actual Data for Solar Generation Facilities  
Solar Base Rate Adjustment (SoBRA) Reporting  
PERIOD:  
**February, 2021**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	9,739	19.3%	0.4%	2,737,966
LAKE PLACID	45.0	7,032	23.3%	0.3%	
TRENTON	74.9	10,934	21.7%	0.4%	
COLUMBIA	74.9	10,701	21.3%	0.4%	
DEBARY	74.5	10,517	21.0%	0.4%	
<b>Total:</b>	<b>344.2</b>	<b>48,923</b>	<b>21.2%</b>	<b>1.8%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	79,105	\$5.41	752	\$80.85	107	\$35.21
LAKE PLACID	57,118	\$5.41	543	\$80.85	77	\$35.21
TRENTON	88,812	\$5.41	844	\$80.85	120	\$35.21
COLUMBIA	86,919	\$5.41	826	\$80.85	118	\$35.21
DEBARY	85,425	\$5.41	812	\$80.85	116	\$35.21
<b>Total:</b>	<b>397,379</b>	<b>\$2,151,070</b>	<b>3,776</b>	<b>\$305,259</b>	<b>539</b>	<b>\$18,975</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	5,367	0	0	0
LAKE PLACID	3,875	0	0	0
TRENTON	6,026	0	0	0
COLUMBIA	5,897	0	0	0
DEBARY	5,796	0	0	0
<b>Total:</b>	<b>26,961</b>	<b>2</b>	<b>1</b>	<b>0</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$74,815	\$690,046	\$304,534	\$16,388	\$0	\$1,085,783
LAKE PLACID	\$30,390	\$375,257	\$164,644	\$8,683	\$0	\$578,973
TRENTON	\$37,795	\$618,785	\$271,797	\$17,550	\$0	\$945,927
COLUMBIA	\$37,404	\$693,474	\$292,446	\$17,645	\$0	\$1,040,968
DEBARY	\$31,554	\$563,715	\$243,789	\$14,286	\$0	\$853,344
<b>Total:</b>	<b>\$211,958</b>	<b>\$2,941,277</b>	<b>\$1,277,208</b>	<b>\$74,552</b>	<b>\$0</b>	<b>\$4,504,996</b>

Duke Energy Florida, LLC  
Actual Data for Solar Generation Facilities  
Solar Base Rate Adjustment (SoBRA) Reporting  
YEAR-TO-DATE THROUGH:  
**February, 2021**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	19,466	18.4%	0.3%	5,674,576
LAKE PLACID	45.0	13,652	21.4%	0.2%	
TRENTON	74.9	20,840	19.6%	0.4%	
COLUMBIA	74.9	20,681	19.5%	0.4%	
DEBARY	74.5	21,094	20.0%	0.4%	
<b>Total:</b>	<b>344.2</b>	<b>95,733</b>	<b>19.6%</b>	<b>1.7%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	136,711	\$4.31	752	\$80.85	1,031	\$34.76
LAKE PLACID	96,323	\$4.35	543	\$80.85	706	\$34.76
TRENTON	147,478	\$4.38	844	\$80.85	1,061	\$34.76
COLUMBIA	146,023	\$4.36	826	\$80.85	1,066	\$34.76
DEBARY	148,064	\$4.31	812	\$80.85	1,120	\$34.76
<b>Total:</b>	<b>674,599</b>	<b>\$2,928,563</b>	<b>3,776</b>	<b>\$305,259</b>	<b>4,985</b>	<b>\$173,275</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	10,740	1	1	0
LAKE PLACID	7,532	1	1	0
TRENTON	11,497	1	1	0
COLUMBIA	11,410	1	1	0
DEBARY	11,638	1	1	0
<b>Total:</b>	<b>52,817</b>	<b>5</b>	<b>5</b>	<b>0</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$464,498	\$1,382,261	\$609,067	\$32,776	\$0	\$2,488,602
LAKE PLACID	\$216,985	\$751,662	\$329,287	\$17,366	\$0	\$1,315,300
TRENTON	\$98,545	\$1,239,103	\$543,307	\$35,100	\$0	\$1,916,055
COLUMBIA	\$73,513	\$1,388,905	\$584,891	\$35,290	\$0	\$2,082,599
DEBARY	\$103,598	\$1,129,382	\$487,436	\$28,572	\$0	\$1,748,989
<b>Total:</b>	<b>\$957,139</b>	<b>\$5,891,313</b>	<b>\$2,553,989</b>	<b>\$149,104</b>	<b>\$0</b>	<b>\$9,551,546</b>