



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

September 28, 2022

**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. 20220007-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 August 2022, 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 and if you have any questions, please feel free to contact me.

Sincerely,

*s/ Dianne M. Triplett*

Dianne M. Triplett

DMT/vr  
Attachment

**CERTIFICATE OF SERVICE**

*Docket No. 20220007-EI*

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 28<sup>th</sup> day of September, 2022.

/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  
August, 2022

Hour of Day	System Firm Demand (MW)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)	AVERAGE HOURLY NET OUTPUT (MWh)
		Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers	Duette	Sandy Creek	Charlie Creek
1	5,328.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4,856.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4,524.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4,300.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	4,249.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	4,382.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	4,677.2	4.9	2.6	5.7	6.5	2.8	4.9	4.2	6.0	3.5	5.1
8	4,961.3	28.0	14.9	33.3	30.5	15.6	26.1	24.2	35.0	25.5	28.9
9	5,461.1	48.2	23.5	47.1	47.5	31.6	41.5	40.2	49.8	44.9	44.2
10	6,071.8	55.9	26.4	53.2	53.0	46.9	47.1	46.5	53.2	56.0	46.4
11	6,718.5	57.9	29.7	55.3	57.0	55.7	51.6	49.4	53.9	56.5	45.7
12	7,368.9	61.0	30.8	54.4	57.1	58.5	49.0	52.7	50.7	54.1	45.5
13	7,929.4	60.1	31.0	56.5	56.9	52.2	48.8	50.8	49.8	50.6	43.6
14	8,340.6	53.5	28.2	49.0	53.2	45.1	45.9	48.4	47.5	43.6	39.5
15	8,597.2	49.6	24.8	44.5	50.2	42.0	43.3	43.7	44.8	43.4	33.9
16	8,725.6	38.5	19.0	39.2	38.7	31.9	32.9	35.6	34.4	41.5	27.3
17	8,751.5	29.3	12.0	38.1	30.3	19.9	26.3	25.9	26.6	35.5	18.9
18	8,591.7	16.4	5.4	25.4	17.2	9.0	15.3	14.3	14.2	26.9	9.5
19	8,301.5	5.0	1.0	6.3	4.6	1.9	3.9	4.5	3.2	9.1	1.7
20	7,911.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
21	7,605.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	7,140.9	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	6,538.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	5,860.8	0.0	0.0	0.0	0.0	0.0	0.0	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:  
**August, 2022**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	15,760	28.3%	0.3%	4,667,101
LAKE PLACID	45.0	7,770	23.2%	0.2%	
TRENTON	74.9	15,747	28.3%	0.3%	
COLUMBIA	74.9	15,584	28.0%	0.3%	
DEBARY	74.5	12,812	23.1%	0.3%	
SANTA FE	74.9	13,536	24.3%	0.3%	
TWIN RIVERS	74.9	13,652	24.5%	0.3%	
DUETTE	74.5	14,546	26.2%	0.3%	
SANDY CREEK	74.9	15,233	27.3%	0.3%	
CHARLIE CREEK	74.9	12,100	30.6%	0.3%	
<b>Total:</b>	<b>718.3</b>	<b>136,740.0</b>	<b>25.6%</b>	<b>2.9%</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	133,313	\$10.53	2,159	\$158.04	1,018	\$267.03
LAKE PLACID	65,726	\$10.53	1,064	\$158.04	502	\$267.03
TRENTON	133,203	\$10.53	2,157	\$158.04	1,017	\$267.03
COLUMBIA	131,824	\$10.53	2,135	\$158.04	1,007	\$267.03
DEBARY	108,376	\$10.53	1,755	\$158.04	828	\$267.03
SANTA FE	114,500	\$10.53	1,854	\$158.04	874	\$267.03
TWIN RIVERS	115,482	\$10.53	1,870	\$158.04	882	\$267.03
DUETTE	123,044	\$10.53	1,992	\$158.04	940	\$267.03
SANDY CREEK	128,855	\$10.53	2,087	\$158.04	984	\$267.03
CHARLIE CREEK	139,818	\$10.53	2,264	\$158.04	1,068	\$267.03
<b>Total:</b>	<b>1,194,143</b>	<b>\$12,569,008</b>	<b>19,336</b>	<b>\$3,055,959</b>	<b>9,118</b>	<b>\$2,434,768</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	11,156	13	3	0
LAKE PLACID	5,500	7	1	0
TRENTON	11,147	13	3	0
COLUMBIA	11,032	13	2	0
DEBARY	9,070	11	2	0
SANTA FE	9,582	11	2	0
TWIN RIVERS	9,664	12	2	0
DUETTE	10,297	12	2	0
SANDY CREEK	10,783	13	2	0
CHARLIE CREEK	11,701	14	3	0
<b>Total:</b>	<b>99,933</b>	<b>119</b>	<b>23</b>	<b>1</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$63,896	\$657,854	\$313,151	\$16,388	\$0	\$1,051,288
LAKE PLACID	\$55,388	\$354,839	\$167,654	\$8,683	\$0	\$586,564
TRENTON	\$137,540	\$585,003	\$277,505	\$17,550	\$0	\$1,017,598
COLUMBIA	\$78,404	\$659,109	\$295,284	\$17,645	\$0	\$1,050,442
DEBARY	\$88,549	\$533,859	\$245,835	\$14,286	\$0	\$882,529
SANTA FE	\$84,522	\$663,380	\$288,888	\$17,384	\$0	\$1,054,174
TWIN RIVERS	\$59,775	\$610,786	\$251,929	\$15,572	\$0	\$938,063
DUETTE	\$59,968	\$642,401	\$275,115	\$20,420	\$0	\$997,903
SANDY CREEK	\$8,925	\$490,986	\$251,689	\$16,083	\$0	\$767,684
CHARLIE CREEK	\$0	\$498,995	\$0	\$21,047	\$0	\$520,042
<b>Total:</b>	<b>\$636,967</b>	<b>\$5,697,212</b>	<b>\$2,367,050</b>	<b>\$165,058</b>	<b>\$0</b>	<b>\$8,866,287</b>

Notes:  
Sandy Creek Renewable Energy Center was placed in service as of 5/17/2022  
Charlie Creek Renewable Energy Center was placed in service as of 8/10/2022

Duke Energy Florida, LLC  
 Actual Data for Solar Generation Facilities  
 Solar Base Rate Adjustment (SoBRA) Reporting  
 YEAR-TO-DATE THROUGH:  
August, 2022

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	119,841	27.4%	0.4%	30,866,025
LAKE PLACID	45.0	61,747	23.5%	0.2%	
TRENTON	74.9	118,764	27.2%	0.4%	
COLUMBIA	74.9	130,124	29.8%	0.4%	
DEBARY	74.5	102,291	23.5%	0.3%	
SANTA FE	74.9	117,842	27.0%	0.4%	
TWIN RIVERS	74.9	121,039	27.7%	0.4%	
DUETTE	74.5	123,744	28.5%	0.4%	
SANDY CREEK	74.9	61,694	32.1%	0.2%	
CHARLIE CREEK	74.9	12,100	30.6%	0.0%	
<b>Total:</b>	<b>718.3</b>	<b>969,186</b>	<b>27.4%</b>	<b>3.1%</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	923,313	\$8.33	12,818	\$166.49	8,881	\$180.10
LAKE PLACID	472,909	\$7.99	5,913	\$165.76	4,354	\$172.37
TRENTON	907,951	\$8.01	11,378	\$165.50	8,509	\$172.65
COLUMBIA	998,967	\$8.10	12,972	\$166.20	9,391	\$174.87
DEBARY	782,896	\$8.01	9,926	\$165.46	7,165	\$173.03
SANTA FE	904,743	\$8.06	11,523	\$166.19	8,535	\$172.59
TWIN RIVERS	926,988	\$8.06	11,937	\$166.13	8,780	\$172.94
DUETTE	946,396	\$8.00	11,870	\$165.84	8,707	\$170.39
SANDY CREEK	505,620	\$9.87	10,456	\$167.78	4,420	\$255.43
CHARLIE CREEK	139,818	\$10.53	2,264	\$158.04	1,068	\$267.03
<b>Total:</b>	<b>7,509,602</b>	<b>\$63,799,676</b>	<b>101,058</b>	<b>\$16,708,758</b>	<b>69,809</b>	<b>\$13,343,371</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	80,000	87	15	1
LAKE PLACID	40,279	41	7	0
TRENTON	77,649	79	13	1
COLUMBIA	85,700	90	15	1
DEBARY	66,658	69	12	1
SANTA FE	77,573	80	14	1
TWIN RIVERS	79,612	83	14	1
DUETTE	80,611	82	14	1
SANDY CREEK	44,497	65	10	0
CHARLIE CREEK	11,701	14	3	0
<b>Total:</b>	<b>644,281</b>	<b>691</b>	<b>116</b>	<b>6</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$987,684	\$5,323,669	\$2,506,033	\$131,104	\$0	\$8,948,490
LAKE PLACID	\$716,731	\$2,871,049	\$1,341,233	\$69,464	\$0	\$4,998,477
TRENTON	\$1,162,109	\$4,733,921	\$2,220,041	\$140,400	\$0	\$8,256,471
COLUMBIA	\$919,618	\$5,320,035	\$2,362,254	\$141,160	\$0	\$8,743,067
DEBARY	\$517,035	\$4,318,096	\$1,966,471	\$114,288	\$0	\$6,915,890
SANTA FE	\$421,880	\$5,373,485	\$2,311,093	\$139,072	\$0	\$8,245,530
TWIN RIVERS	\$733,998	\$4,941,438	\$2,015,422	\$124,576	\$0	\$7,815,434
DUETTE	\$338,890	\$5,182,477	\$2,197,027	\$163,360	\$0	\$7,881,754
SANDY CREEK	\$111,294	\$1,469,301	\$501,044	\$48,249	\$0	\$2,129,888
CHARLIE CREEK	\$0	\$498,995	\$0	\$21,047	\$0	\$520,042
<b>Total:</b>	<b>\$5,909,239</b>	<b>\$40,032,466</b>	<b>\$17,420,618</b>	<b>\$1,092,720</b>	<b>\$0</b>	<b>\$64,455,043</b>

Notes:  
 Sandy Creek Renewable Energy Center was placed in service as of 5/17/2022  
 Charlie Creek Renewable Energy Center was placed in service as of 8/10/2022