



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

November 10, 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 September 2021, in accordance with Paragraph 15a. of the 2017 Second Revised and Restated Settlement Agreement, which was approved in FPSC Order No. PSC-2017-0451-AS-EU, dated November 20, 2017. This filing is correcting previously filed DN 12428-2021, on October 27, 2021, to include the attachment that was not included in the initial filing.

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.

Respectfully,

/s/ Dianne M. Triplett

Dianne M. Triplett

DMT/cmw
Enclosure

CERTIFICATE OF SERVICE

Docket No. 20210007-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 10th day of November, 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
September 2021

		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)
Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers
1	1	4,382.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,071.6	0.0	0.0	0.0	0.0	0.0	0.0
3	3	3,861.5	0.0	0.0	0.0	0.0	0.0	0.0
4	4	3,733.5	0.0	0.0	0.0	0.0	0.0	0.0
5	5	3,705.6	0.0	0.0	0.0	0.0	0.0	0.0
6	6	3,820.5	0.0	0.0	0.0	0.0	0.0	0.0
7	7	4,058.0	1.4	2.0	2.5	1.5	1.8	1.5
8	8	4,293.0	19.0	23.3	21.0	13.7	17.8	21.8
9	9	4,575.3	34.2	42.8	39.5	31.5	34.9	39.3
10	10	5,065.2	42.1	49.1	48.0	42.7	45.2	49.0
11	11	5,691.5	42.8	50.0	50.0	47.8	48.0	49.1
12	12	6,315.1	46.2	46.6	52.6	51.7	51.0	54.7
13	13	6,909.5	44.6	44.1	49.6	47.9	46.9	51.7
14	14	7,365.0	42.8	48.1	51.4	42.0	48.2	48.8
15	15	7,638.8	40.8	47.2	50.9	35.2	47.7	46.9
16	16	7,792.8	35.8	43.7	42.8	28.5	39.6	43.7
17	17	7,856.5	32.2	37.4	33.4	16.9	29.6	37.8
18	18	7,763.3	15.0	16.9	15.2	6.2	13.2	18.1
19	19	7,460.8	1.2	1.3	1.1	0.4	0.9	1.4
20	20	7,051.4	0.0	0.0	0.0	0.0	0.0	0.0
21	21	6,686.6	0.0	0.0	0.0	0.0	0.0	0.0
22	22	6,122.4	0.0	0.0	0.0	0.0	0.0	0.0
23	23	5,483.5	0.0	0.0	0.0	0.0	0.0	0.0
24	24	4,787.0	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:
September 2021

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	11,943	22.1%	0.3%	3,837,699
LAKE PLACID	45.0	0	0.0%	0.0%	
TRENTON	74.9	13,578	25.2%	0.4%	
COLUMBIA	74.9	13,738	25.5%	0.4%	
DEBARY	74.5	10,982	20.5%	0.3%	
SANTA FE	74.9	12,743	23.6%	0.3%	
TWIN RIVERS	74.9	13,912	25.8%	0.4%	
Total:	494.0	76,896	21.6%	2.0%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	110,146	\$5.46	95	\$97.45	464	\$148.75
LAKE PLACID	0	\$5.46	0	\$97.45	0	\$148.75
TRENTON	125,225	\$5.46	108	\$97.45	527	\$148.75
COLUMBIA	126,701	\$5.46	109	\$97.45	534	\$148.75
DEBARY	101,283	\$5.46	87	\$97.45	427	\$148.75
SANTA FE	117,524	\$5.46	101	\$97.45	495	\$148.75
TWIN RIVERS	128,305	\$5.46	111	\$97.45	540	\$148.75
Total:	709,185	\$3,875,688	611	\$59,567	2,987	\$444,270

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	7,672	4	0	0
LAKE PLACID	0	0	0	0
TRENTON	8,723	4	0	0
COLUMBIA	8,825	4	0	0
DEBARY	7,055	3	0	0
SANTA FE	8,186	4	0	0
TWIN RIVERS	8,937	4	0	0
Total:	49,398	23	1	0

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$75,881	\$677,977	\$305,821	\$16,388	\$0	\$1,076,066
LAKE PLACID	\$59,910	\$367,310	\$164,644	\$8,683	\$0	\$600,546
TRENTON	\$70,546	\$606,008	\$271,868	\$17,550	\$0	\$965,972
COLUMBIA	\$63,349	\$678,867	\$292,468	\$17,645	\$0	\$1,052,328
DEBARY	\$67,465	\$552,306	\$243,592	\$14,286	\$0	\$877,649
SANTA FE	\$56,724	\$687,059	\$280,151	\$17,384	\$0	\$1,041,318
TWIN RIVERS	\$61,241	\$612,248	\$244,317	\$15,572	\$0	\$933,378
Total:	\$455,116	\$4,181,775	\$1,802,860	\$107,508	\$0	\$6,547,259

Notes:
 Santa Fe and Twin Rivers sites became active in March.
 Lake Placid Out of Service the Month of September for a planned outage during the battery storage construction period.

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

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%) ¹	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	119,457	24.3%	0.4%	31,947,523
LAKE PLACID	45.0	53,307	18.1%	0.2%	
TRENTON	74.9	131,104	26.7%	0.4%	
COLUMBIA	74.9	130,442	26.6%	0.4%	
DEBARY	74.5	102,243	20.9%	0.3%	
SANTA FE	74.9	106,477	28.2%	0.3%	
TWIN RIVERS	74.9	53,888	15.5%	0.2%	
Total:	494.0	696,918	23.5%	2.2%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	944,204	\$3.82	8,172	\$90.92	8,265	\$44.50
LAKE PLACID	392,517	\$3.38	2,850	\$88.38	4,548	\$36.61
TRENTON	1,039,113	\$3.83	9,008	\$90.92	9,011	\$44.81
COLUMBIA	1,034,114	\$3.84	8,981	\$90.94	8,954	\$44.95
DEBARY	806,525	\$3.88	6,888	\$90.69	6,896	\$45.14
SANTA FE	873,137	\$3.72	7,952	\$91.94	7,858	\$45.71
TWIN RIVERS	491,637	\$4.32	5,401	\$93.40	2,226	\$70.41
Total:	5,581,247	\$21,361,023	49,251	\$4,483,277	47,759	\$2,266,050

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	77,874	56	10	1
LAKE PLACID	34,379	18	5	0
TRENTON	85,536	62	11	1
COLUMBIA	85,105	62	11	1
DEBARY	66,143	46	8	1
SANTA FE	72,632	59	10	1
TWIN RIVERS	36,858	39	4	0
Total:	458,527	342	59	4

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$964,486	\$6,159,624	\$2,744,651	\$147,492	\$0	\$10,016,253
LAKE PLACID	\$702,215	\$3,346,671	\$1,481,793	\$78,147	\$0	\$5,608,826
TRENTON	\$1,063,511	\$5,520,138	\$2,446,049	\$157,950	\$0	\$9,187,648
COLUMBIA	\$919,075	\$6,184,711	\$2,632,091	\$158,805	\$0	\$9,894,682
DEBARY	\$614,527	\$5,029,628	\$2,193,882	\$128,574	\$0	\$7,966,611
SANTA FE	\$241,163	\$4,106,256	\$1,668,057	\$121,688	\$0	\$6,137,164
TWIN RIVERS	\$480,707	\$3,557,796	\$1,382,201	\$109,004	\$0	\$5,529,708
Total:	\$4,985,684	\$33,904,824	\$14,548,724	\$901,660	\$0	\$54,340,892

Notes:

1) Santa Fe and Twin Rivers sites became active in March - YTD Capacity Factors reflect in service date.
Lake Placid Out of Service August & September for a planned outage during the battery storage construction period.