



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

December 27, 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 Corrected 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 November 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 13150-2021, on December 22, 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 27th day of December, 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
November 2021

		AVERAGE HOURLY NET OUTPUT (MWh)							
Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers	Duette
1	1	3,186.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	3,015.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	2,932.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	2,912.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	2,992.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	3,229.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	3,641.6	0.0	0.0	0.1	0.0	0.1	0.0	0.0
8	8	4,044.2	5.5	0.0	5.6	7.5	5.9	6.5	5.2
9	9	4,224.2	29.4	0.0	24.5	27.0	23.1	26.3	29.3
10	10	4,291.4	39.4	0.0	31.5	39.3	37.7	39.2	39.5
11	11	4,313.8	43.0	0.0	33.5	45.0	48.0	43.9	44.3
12	12	4,332.7	42.9	0.0	33.0	45.4	50.2	44.3	44.6
13	13	4,391.1	42.5	0.0	34.0	45.4	48.1	44.3	44.2
14	14	4,444.0	43.0	0.0	34.9	44.6	42.9	44.9	44.5
15	15	4,500.8	41.9	0.0	33.2	40.8	34.9	41.3	44.4
16	16	4,565.3	40.7	0.0	28.0	34.0	24.0	34.6	43.7
17	17	4,672.0	21.8	0.2	15.5	17.6	9.6	18.0	23.7
18	18	4,835.9	1.3	0.0	1.2	1.8	0.5	1.3	1.6
19	19	5,017.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	20	4,903.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	21	4,657.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	4,338.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	3,950.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	3,498.5	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:
November 2021

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	10,540	19.5%	0.4%	2,923,296
LAKE PLACID	45.0	5	0.0%	0.0%	
TRENTON	74.9	8,245	15.3%	0.3%	
COLUMBIA	74.9	10,455	19.4%	0.4%	
DEBARY	74.5	9,748	18.2%	0.3%	
SANTA FE	74.9	10,342	19.2%	0.4%	
TWIN RIVERS	74.9	10,952	20.3%	0.4%	
DUETTE	74.5	10,107	18.8%	0.3%	
Total:	568.5	70,394	17.2%	2.4%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	76,390	\$5.43	0	\$106.49	179	\$145.38
LAKE PLACID	36	\$5.43	0	\$106.49	0	\$145.38
TRENTON	59,757	\$5.43	0	\$106.49	140	\$145.38
COLUMBIA	75,774	\$5.43	0	\$106.49	177	\$145.38
DEBARY	70,650	\$5.43	0	\$106.49	165	\$145.38
SANTA FE	74,955	\$5.43	0	\$106.49	175	\$145.38
TWIN RIVERS	79,376	\$5.43	0	\$106.49	185	\$145.38
DUETTE	73,252	\$5.43	0	\$106.49	171	\$145.38
Total:	510,189	\$2,772,306	0	\$0	1,192	\$173,321

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	5,000	1	0	0
LAKE PLACID	2	0	0	0
TRENTON	3,911	1	0	0
COLUMBIA	4,959	1	0	0
DEBARY	4,624	1	0	0
SANTA FE	4,906	1	0	0
TWIN RIVERS	5,195	1	0	0
DUETTE	4,794	1	0	0
Total:	33,392	8	0	0

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$62,134	\$673,696	\$305,882	\$16,388	\$0	\$1,058,099
LAKE PLACID	\$36,714	\$365,039	\$164,644	\$8,683	\$0	\$575,080
TRENTON	\$128,585	\$602,224	\$271,824	\$17,550	\$0	\$1,020,183
COLUMBIA	\$49,656	\$675,361	\$293,040	\$17,645	\$0	\$1,035,703
DEBARY	\$52,229	\$548,961	\$243,592	\$14,286	\$0	\$859,068
SANTA FE	\$65,082	\$683,166	\$280,151	\$17,384	\$0	\$1,045,784
TWIN RIVERS	\$30,350	\$615,018	\$249,167	\$15,572	\$0	\$910,106
DUETTE	\$0	\$637,850	\$267,953	\$20,420	\$0	\$926,222
Total:	\$424,750	\$4,801,315	\$2,076,252	\$127,928	\$0	\$7,430,245

Notes:

Santa Fe and Twin Rivers sites placed in service in March.
Lake Placid experienced impacts on generation into November from post-battery construction and the completion of remaining punch-list items.
Duette placed in service in October.

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

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	141,495	23.6%	0.4%	38,544,281
LAKE PLACID	45.0	53,312	14.8%	0.1%	
TRENTON	74.9	152,647	25.4%	0.4%	
COLUMBIA	74.9	154,032	25.7%	0.4%	
DEBARY	74.5	124,270	20.8%	0.3%	
SANTA FE	74.9	129,496	26.6%	0.3%	
TWIN RIVERS	74.9	77,838	17.0%	0.2%	
DUETTE	74.5	14,011	21.2%	0.0%	
Total:	568.5	847,101	22.6%	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	1,112,461	\$4.11	8,493	\$91.63	9,230	\$57.91
LAKE PLACID	392,554	\$3.38	2,850	\$88.38	4,548	\$36.61
TRENTON	1,205,119	\$4.10	9,380	\$91.66	10,060	\$58.34
COLUMBIA	1,214,835	\$4.12	9,348	\$91.68	10,030	\$58.73
DEBARY	975,283	\$4.21	7,231	\$91.59	7,901	\$61.46
SANTA FE	1,049,380	\$4.07	8,307	\$92.70	8,901	\$60.66
TWIN RIVERS	674,865	\$4.71	5,764	\$94.43	3,300	\$103.88
DUETTE	104,444	\$5.61	109	\$109.69	438	\$165.87
Total:	6,728,941	\$28,860,451	51,481	\$4,837,741	54,409	\$4,104,276

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	90,196	62	10	1
LAKE PLACID	34,381	18	5	0
TRENTON	97,916	68	11	1
COLUMBIA	98,429	68	11	1
DEBARY	78,586	52	9	1
SANTA FE	85,611	65	10	1
TWIN RIVERS	50,331	45	4	0
DUETTE	7,280	3	0	0
Total:	542,730	381	60	5

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$1,096,937	\$7,509,119	\$3,356,353	\$180,268	\$0	\$12,142,677
LAKE PLACID	\$765,782	\$4,077,884	\$1,811,081	\$95,513	\$0	\$6,750,260
TRENTON	\$1,306,700	\$6,726,481	\$2,989,741	\$193,050	\$0	\$11,215,973
COLUMBIA	\$1,004,607	\$7,536,835	\$3,217,599	\$194,095	\$0	\$11,953,136
DEBARY	\$741,260	\$6,129,239	\$2,681,067	\$157,146	\$0	\$9,708,712
SANTA FE	\$359,261	\$5,474,576	\$2,228,360	\$156,456	\$0	\$8,218,653
TWIN RIVERS	\$542,981	\$4,783,446	\$1,875,702	\$140,148	\$0	\$7,342,277
DUETTE	\$0	\$1,271,606	\$267,953	\$40,840	\$0	\$1,580,399
Total:	\$5,817,528	\$43,509,186	\$18,427,855	\$1,157,516	\$0	\$68,912,085

Notes:

Santa Fe and Twin Rivers sites placed in service in March - YTD Capacity Factors reflect in-service date.
 Lake Placid experienced impacts on generation into November from post-battery construction and the completion of remaining punch-list items.
 Duette placed in service in October - YTD Capacity Factors reflect in-service date.