

Dianne M. Triplett DEPUTY GENERAL COUNSEL

December 16, 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 November 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/cmk 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 16th day of December, 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 November, 2020

_			AVERAGE HOURLY NET OUTPUT (MWh)				
	Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary
1	1	3,303.8	0.0	0.0	0.0	0.0	0.0
2	2	3,106.0	0.0	0.0	0.0	0.0	0.0
3	3	2,967.6	0.0	0.0	0.0	0.0	0.0
4	4	2,911.7	0.0	0.0	0.0	0.0	0.0
5	5	2,928.8	0.0	0.0	0.0	0.0	0.0
6	6	3,062.7	0.0	0.0	0.0	0.0	0.0
7	7	3,325.7	0.0	0.1	0.0	0.0	0.1
8	8	3,615.2	6.5	5.2	6.7	8.2	3.8
9	9	3,905.9	29.1	19.1	31.4	32.2	15.6
10	10	4,210.9	41.5	22.2	41.3	42.6	29.2
11	11	4,511.5	46.1	23.2	43.3	46.8	35.1
12	12	4,799.7	46.5	24.4	44.7	46.8	39.7
13	13	5,067.0	45.7	25.0	46.0	45.9	40.1
14	14	5,260.9	46.0	24.9	43.6	48.4	36.1
15	15	5,373.6	45.9	23.5	43.4	45.8	31.2
16	16	5,399.3	41.4	20.3	38.3	40.3	20.7
17	17	5,345.7	22.4	10.2	20.8	23.2	8.1
18	18	5,310.4	1.6	0.6	1.7	2.0	0.5
19	19	5,340.2	0.0	0.0	0.0	0.0	0.0
20	20	5,045.3	0.0	0.0	0.0	0.0	0.0
21	21	4,699.6	0.0	0.0	0.0	0.0	0.0
22	22	4,356.8	0.0	0.0	0.0	0.0	0.0
23	23	3,974.7	0.0	0.0	0.0	0.0	0.0
24	24	3,554.7	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, 2020

	Facility	Net Capability (MW)	Net Generation (MWh) (1)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
1	HAMILTON	74.9	11,181	20.7%	0.4%	2,851,486
1	LAKE PLACID	45.0	5,958	18.4%	0.2%	
1	TRENTON	74.9	10,840	20.1%	0.4%	
1	COLUMBIA	74.9	11,462	21.3%	0.4%	
1	DEBARY	74.5	7,802	14.5%	0.3%	
2	Total:	344.2	47,243.0	19.1%	1.7%	

	Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) (3)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) (3)	Coal Displaced (Tons)	Cost of Coal (\$/Ton) (3)
3	HAMILTON	95,960	\$2.78	0	\$59.68	65	\$35.21
3	LAKE PLACID	51,134	\$2.78	0	\$59.68	35	\$35.21
3	TRENTON	93,033	\$2.78	0	\$59.68	63	\$35.21
3	COLUMBIA	98,372	\$2.78	0	\$59.68	67	\$35.21
3	DEBARY	66,960	\$2.78	0	\$59.68	46	\$35.21
4	Total:	405,459	\$1,126,837	0	\$0	276	\$9,705

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	5,958	2	0	0
5	LAKE PLACID	3,175	1	0	0
5	TRENTON	5,776	2	0	0
5	COLUMBIA	6,108	2	0	0
5	DEBARY	4,157	1	0	0
6	Total:	25,174	7	0	0

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$49,346	\$696,553	\$304,534	\$16,388	\$0	\$1,066,820
7	LAKE PLACID	\$15,216	\$378,898	\$173,400	\$8,683	\$0	\$576,197
7	TRENTON	\$30,953	\$624,279	\$271,488	\$17,550	\$0	\$944,270
7	COLUMBIA	\$33,683	\$698,935	\$292,042	\$17,645	\$0	\$1,042,305
7	DEBARY	\$63,847	\$567,041	\$242,899	\$14,286	\$0	\$888,072
8	Total:	\$193,045	\$2,965,705	\$1,284,362	\$74,552	\$0	\$4,517,664

- (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. 1 Month lag for Debary
- (6) Other Cost data represents dismantlement costs and amortization on ITC (no ITC amortization for Hamilton, Lake Placid, Trenton, Columbia, Debary yet).

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

November, 2020

	Facility	Net Capability (MW)	Net Generation (MWh) (1)	Capacity Factor (%) ⁽⁷⁾	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
1	HAMILTON	74.9	163,985	27.2%	0.4%	38,015,685
1	LAKE PLACID	45.0	90,561	25.0%	0.2%	
1	TRENTON	74.9	158,551	26.3%	0.4%	
1	COLUMBIA	74.9	135,657	29.8%	0.4%	
1	DEBARY	74.5	73,310	20.4%	0.2%	
2	Total:	344.2	622,064	26.1%	1.6%	

	Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) (3)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) (3)	Coal Displaced (Tons)	Cost of Coal (\$/Ton) (3)
3	HAMILTON	1,400,161	\$2.08	4,604	\$55.83	6,224	\$35.40
3	LAKE PLACID	771,647	\$2.08	2,591	\$55.76	3,486	\$35.35
3	TRENTON	1,352,112	\$2.09	4,491	\$55.80	6,047	\$35.37
3	COLUMBIA	1,151,989	\$2.10	4,160	\$54.97	6,394	\$35.35
3	DEBARY	614,278	\$2.18	2,380	\$55.98	4,421	\$35.02
4	Total:	5,290,187	\$11,145,897	18,227	\$1,014,609	26,573	\$937,985

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	99,761	52	8	1
5	LAKE PLACID	55,118	29	4	0
5	TRENTON	96,433	51	7	1
5	COLUMBIA	84,837	44	8	1
5	DEBARY	47,367	24	5	0
6	Total:	383,515	201	32	2

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$1,205,956	\$7,780,500	\$3,349,617	\$180,268	\$0	\$12,516,342
7	LAKE PLACID	\$445,286	\$3,823,663	\$1,648,207	\$95,513	\$0	\$6,012,669
7	TRENTON	\$711,337	\$6,801,945	\$2,924,074	\$193,050	\$0	\$10,630,405
	COLUMBIA	\$708,377	\$6,230,897	\$2,313,370	\$158,805	\$0	\$9,411,449
	DEBARY	\$191,806	\$3,693,874	\$1,454,807	\$100,002	\$0	\$5,440,488
8	Total:	\$3,262,762	\$28,330,878	\$11,690,075	\$727,638	\$0	\$44,011,353

- (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, Trenton, Columbia, Debary yet).
- (7) YTD Capacity Factors adjusted for Columbia and Debary mid 2020 start up dates.