

Dianne M. Triplett

May 27, 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 April 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 27th day of May, 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 <u>April, 2020</u>

			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
1	1	3,548.3	0.0	0.0	0.0	0.0
2	2	3,270.8	0.0	0.0	0.0	0.0
3	3	3,093.7	0.0	0.0	0.0	0.0
4	4	2,991.5	0.0	0.0	0.0	0.0
5	5	2,962.4	0.0	0.0	0.0	0.0
6	6	3,029.4	0.0	0.0	0.0	0.0
7	7	3,174.8	5.1	2.7	4.3	5.9
8	8	3,363.1	28.0	15.8	29.3	32.4
9	9	3,648.8	42.1	27.2	43.7	45.6
10	10	3,961.9	52.9	29.6	51.1	51.8
11	11	4,274.5	58.0	31.7	53.0	56.1
12	12	4,619.7	59.9	31.3	52.8	57.1
13	13	4,989.9	59.2	31.2	55.3	56.1
14	14	5,333.1	61.1	30.8	56.4	59.1
15	15	5,619.6	57.4	31.0	56.4	55.7
16	16	5,865.5	55.0	30.6	55.3	53.8
17	17	6,062.7	46.0	25.6	41.2	48.1
18	18	6,151.8	32.0	16.4	26.5	30.9
19	19	5,978.5	6.2	2.0	5.0	6.5
20	20	5,577.2	0.0	0.0	0.0	0.0
21	21	5,357.9	0.0	0.0	0.0	0.0
22	22	4,897.8	0.0	0.0	0.0	0.0
23	23	4,410.0	0.0	0.0	0.0	0.0
24	24	3,873.7	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:

April, 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	16,885	31.3%	0.6%	3,053,871
1	LAKE PLACID	45.0	9,173	28.3%	0.3%	_
1	TRENTON	74.9	15,912	29.5%	0.5%	
1	COLUMBIA	74.9	16,775	31.1%	0.5%	
2	Total:	269.7	58,745.0	30.3%	1.9%	

	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	140,471	\$1.80	405	\$44.23	157	\$40.15
3	LAKE PLACID	76,313	\$1.80	220	\$44.23	85	\$40.15
3	TRENTON	132,377	\$1.80	382	\$44.23	148	\$40.15
3	COLUMBIA	139,556	\$1.80	403	\$44.23	156	\$40.15
4	Total:	488,717	\$881,832	1,410	\$62,357	545	\$21,877

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	9,033	5	0	0
5	LAKE PLACID	4,907	3	0	0
5	TRENTON	8,512	5	0	0
5	COLUMBIA	8,974	5	0	0
6	Total:	31,425	18	1	0

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$88,664	\$711,637	\$304,493	\$16,388	\$0	\$1,121,182
7	LAKE PLACID	\$468	\$383,947	\$162,210	\$8,683	\$0	\$555,308
7	TRENTON	\$452,703	\$618,892	\$264,657	\$17,550	\$0	\$1,353,802
7	COLUMBIA	\$0	\$667,565	\$275,317	\$17,645	\$0	\$960,527
8	Total:	\$541,835	\$2,382,041	\$1,006,677	\$60,266	\$0	\$3,990,819

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

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

April, 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	56,392	25.9%	0.5%	12,051,873
1	LAKE PLACID	45.0	31,131	23.8%	0.3%	
1	TRENTON	74.9	53,067	24.4%	0.4%	
	COLUMBIA	74.9	23,725	10.9%	0.2%	
2	Total:	269.7	164,315	21.0%	1.4%	

	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	489,777	\$1.94	1,346	\$55.50	199	\$40.41
3	LAKE PLACID	271,490	\$1.94	776	\$55.44	111	\$40.43
3	TRENTON	463,213	\$1.94	1,332	\$55.63	191	\$40.42
	COLUMBIA	207,326	\$1.83	755	\$50.70	174	\$40.28
4	Total:	1,431,805	\$2,739,847	4,210	\$228,663	674	\$27,220

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	30,757	18	1	0
5	LAKE PLACID	17,064	10	1	0
5	TRENTON	29,122	17	1	0
	COLUMBIA	13,288	8	1	0
6	Total:	90,231	53	3	0

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$731,690	\$2,859,453	\$1,217,945	\$65,552	\$0	\$4,874,640
7	LAKE PLACID	\$156,628	\$1,533,873	\$650,605	\$34,732	\$0	\$2,375,838
7	TRENTON	\$460,807	\$2,429,955	\$1,036,360	\$70,200	\$0	\$3,997,322
	COLUMBIA	\$0	\$1,331,268	\$275,317	\$35,290	\$0	\$1,641,876
8	Total:	\$1,349,125	\$8,154,550	\$3,180,227	\$205,774	\$0	\$12,889,676

- (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 yet).