

Dianne M. Triplett

January 25, 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 December 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 25th day of January, 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 <u>December</u>, 2020

_			AVERAGE HOURLY NET OUTPUT (MWh)				
	Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary
1	1	3,593.0	0.0	0.0	0.0	0.0	0.0
2	2	3,467.5	0.0	0.0	0.0	0.0	0.0
3	3	3,431.0	0.0	0.0	0.0	0.0	0.0
4	4	3,466.5	0.0	0.0	0.0	0.0	0.0
5	5	3,599.0	0.0	0.0	0.0	0.0	0.0
6	6	3,888.6	0.0	0.0	0.0	0.0	0.0
7	7	4,331.3	0.0	0.0	0.0	0.0	0.0
8	8	4,733.6	1.9	1.8	2.0	2.9	2.3
9	9	4,856.3	23.8	15.7	24.6	27.2	15.5
10	10	4,738.1	43.1	24.0	40.3	42.0	34.4
11	11	4,557.4	48.0	26.1	44.3	45.2	45.6
12	12	4,386.6	48.4	27.3	45.6	47.1	52.4
13	13	4,273.6	48.0	26.0	47.6	47.5	52.0
14	14	4,183.7	47.0	26.6	45.3	44.9	46.7
15	15	4,144.1	48.8	24.7	44.9	41.8	39.5
16	16	4,153.2	46.3	21.7	41.8	40.8	28.6
17	17	4,241.8	24.5	10.5	24.8	25.3	11.0
18	18	4,533.6	1.3	0.6	1.6	2.0	0.7
19	19	4,857.2	0.0	0.0	0.0	0.0	0.0
20	20	4,800.5	0.0	0.0	0.0	0.0	0.0
21	21	4,670.5	0.0	0.0	0.0	0.0	0.0
22	22	4,458.0	0.0	0.0	0.0	0.0	0.0
23	23	4,151.7	0.0	0.0	0.0	0.0	0.0
24	24	3,822.1	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:

December, 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	11,819	21.2%	0.4%	3,037,435
1	LAKE PLACID	45.0	6,360	19.0%	0.2%	_
1	TRENTON	74.9	11,246	20.2%	0.4%	
1	COLUMBIA	74.9	11,367	20.4%	0.4%	
1	DEBARY	74.5	10,194	18.4%	0.3%	
2	Total:	344.2	50,986.0	19.9%	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	82,077	\$2.75	226	\$67.81	577	\$35.41
3	LAKE PLACID	44,167	\$2.75	122	\$67.81	310	\$35.41
3	TRENTON	78,098	\$2.75	215	\$67.81	549	\$35.41
3	COLUMBIA	78,938	\$2.75	218	\$67.81	555	\$35.41
3	DEBARY	70,792	\$2.75	195	\$67.81	497	\$35.41
4	Total:	354,073	\$973,012	976	\$66,212	2,488	\$88,076

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	6,258	1	1	0
5	LAKE PLACID	3,367	0	0	0
5	TRENTON	5,955	1	1	0
5	COLUMBIA	6,019	1	1	0
5	DEBARY	5,398	0	1	0
6	Total:	26,996	2	3	0

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$110,591	\$694,384	\$304,534	\$16,388	\$0	\$1,125,896
7	LAKE PLACID	\$33,694	\$377,527	\$164,644	\$8,683	\$0	\$584,548
7	TRENTON	\$41,562	\$622,179	\$271,470	\$17,550	\$0	\$952,761
7	COLUMBIA	\$31,062	\$697,034	\$292,332	\$17,645	\$0	\$1,038,073
7	DEBARY	\$46,969	\$566,469	\$244,009	\$14,286	\$0	\$871,733
8	Total:	\$263,878	\$2,957,594	\$1,276,988	\$74,552	\$0	\$4,573,012

- (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:

December, 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	175,804	26.7%	0.4%	41,053,120
1	LAKE PLACID	45.0	96,921	24.5%	0.2%	
1	TRENTON	74.9	169,797	25.8%	0.4%	
1	COLUMBIA	74.9	147,024	28.8%	0.4%	
1	DEBARY	74.5	83,504	20.1%	0.2%	
2	Total:	344.2	673,050	25.5%	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	1,482,238	\$2.12	4,831	\$56.39	6,801	\$35.40
3	LAKE PLACID	815,814	\$2.12	2,713	\$56.30	3,796	\$35.36
3	TRENTON	1,430,210	\$2.12	4,707	\$56.35	6,595	\$35.37
3	COLUMBIA	1,230,928	\$2.14	4,377	\$55.61	6,949	\$35.36
3	DEBARY	685,071	\$2.24	2,576	\$56.87	4,919	\$35.06
4	Total:	5,644,261	\$12,127,725	19,203	\$1,081,206	29,060	\$1,026,092

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	106,019	53	8	1
5	LAKE PLACID	58,485	29	5	0
5	TRENTON	102,387	51	8	1
5	COLUMBIA	90,855	44	8	1
5	DEBARY	52,764	25	5	0
6	Total:	410,511	203	34	3

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$1,316,547	\$8,474,884	\$3,654,151	\$196,656	\$0	\$13,642,238
7	LAKE PLACID	\$478,980	\$4,201,190	\$1,812,851	\$104,196	\$0	\$6,597,217
7	TRENTON	\$752,899	\$7,424,124	\$3,195,543	\$210,600	\$0	\$11,583,166
	COLUMBIA	\$739,440	\$6,927,931	\$2,605,703	\$176,450	\$0	\$10,449,524
	DEBARY	\$238,774	\$4,260,343	\$1,698,815	\$114,288	\$0	\$6,312,220
8	Total:	\$3,526,640	\$31,288,472	\$12,967,062	\$802,190	\$0	\$48,584,365

- (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.