



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

September 23, 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 August 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/cmck
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 23rd day of September, 2020.

/s/ Dianne M. Triplett

Attorney

<p>Charles Murphy Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 cmurphy@psc.state.fl.us</p> <p>J. Beasley / J. Wahlen / M. Means Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jbeasley@ausley.com jwahlen@ausley.com mmeans@ausley.com</p> <p>Russell A. Badders Gulf Power Company One Energy Place, Bin 100 Pensacola, FL 32520-0100 russell.badders@nexteraenergy.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p> <p>Maria Moncada / David Lee 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 maria.moncada@fpl.com david.lee@fpl.com</p>	<p>J.R. Kelly / P. Christensen / C. Rehwinkel / T. David / S. Morse / M. Fall-Fry Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 rehwinkel.charles@leg.state.fl.us kelly.jr@leg.state.fl.us christensen.patty@leg.state.fl.us david.tad@leg.state.fl.us fall-fry_mireille@leg.state.fl.us morse.stephanie@leg.state.fl.us</p> <p>Paula K. Brown Tampa Electric Company Regulatory Affairs P.O. Box 111 Tampa, FL 33601 regdept@tecoenergy.com</p> <p>James W. Brew / Laura W. Baker Stone Law Firm 1025 Thomas Jefferson Street, N.W. Eighth Floor, West Tower Washington, DC 20007 jbrew@smxblaw.com lwb@smxblaw.com</p> <p>Kenneth Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 ken_hoffman@fpl.com</p>
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Duke Energy Florida, LLC
 Actual Data for Solar Generation Facilities
 Solar Base Rate Adjustment (SoBRA) Reporting
August, 2020

		AVERAGE HOURLY NET OUTPUT (MWh)				
Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary
1	1	4,702.3	0.0	0.0	0.0	0.0
2	2	4,372.9	0.0	0.0	0.0	0.0
3	3	4,142.9	0.0	0.0	0.0	0.0
4	4	3,986.8	0.0	0.0	0.0	0.0
5	5	3,941.7	0.0	0.0	0.0	0.0
6	6	4,006.0	0.0	0.0	0.0	0.0
7	7	4,193.7	5.3	3.9	5.6	2.8
8	8	4,464.1	32.0	20.5	32.2	16.6
9	9	4,928.4	46.8	28.1	48.9	34.2
10	10	5,499.1	52.6	31.5	53.0	47.1
11	11	6,235.1	54.6	33.2	51.6	54.1
12	12	7,016.5	50.9	33.4	51.4	58.6
13	13	7,680.4	50.1	33.9	50.9	57.8
14	14	8,101.3	46.5	32.2	48.0	52.5
15	15	8,303.2	46.5	27.1	47.8	39.7
16	16	8,362.0	41.1	22.1	47.1	27.5
17	17	8,286.6	36.6	15.9	42.4	16.6
18	18	8,061.2	27.4	9.0	31.7	8.2
19	19	7,716.7	8.7	1.6	9.3	2.2
20	20	7,237.5	0.0	0.0	0.1	0.1
21	21	6,852.7	0.0	0.0	0.0	0.0
22	22	6,320.7	0.0	0.0	0.0	0.0
23	23	5,705.2	0.0	0.0	0.0	0.0
24	24	5,077.7	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:
August, 2020

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	15,470	27.8%	0.4%	4,234,599
LAKE PLACID	45.0	9,064	27.1%	0.2%	
TRENTON	74.9	16,120	28.9%	0.4%	
COLUMBIA	74.9	16,582	29.8%	0.4%	
DEBARY	74.5	12,960	23.4%	0.3%	
Total:	344.2	70,196.0	27.4%	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⁾
HAMILTON	118,885	\$2.52	180	\$59.11	1,269	\$33.63
LAKE PLACID	69,656	\$2.52	105	\$59.11	743	\$33.63
TRENTON	123,881	\$2.52	187	\$59.11	1,322	\$33.63
COLUMBIA	127,431	\$2.52	193	\$59.11	1,360	\$33.63
DEBARY	99,596	\$2.52	151	\$59.11	1,063	\$33.63
Total:	539,449	\$1,359,363	816	\$48,211	5,758	\$193,609

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	9,876	3	1	0
LAKE PLACID	5,787	2	1	0
TRENTON	10,291	4	1	0
COLUMBIA	10,586	4	1	0
DEBARY	8,274	3	1	0
Total:	44,815	16	6	1

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$64,607	\$703,052	\$304,530	\$16,388	\$0	\$1,088,577
LAKE PLACID	\$13,908	\$382,368	\$164,883	\$8,683	\$0	\$569,842
TRENTON	\$24,360	\$630,127	\$271,647	\$17,550	\$0	\$943,683
COLUMBIA	\$37,154	\$705,027	\$292,059	\$17,645	\$0	\$1,051,886
DEBARY	\$14,989	\$572,317	\$243,681	\$14,286	\$0	\$845,273
Total:	\$155,018	\$2,992,890	\$1,276,800	\$74,552	\$0	\$4,499,260

(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:
August, 2020

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	127,752	29.1%	0.5%	27,677,836
LAKE PLACID	45.0	70,087	26.6%	0.3%	
TRENTON	74.9	121,905	27.8%	0.4%	
COLUMBIA	74.9	96,927	22.1%	0.4%	
DEBARY	74.5	46,983	10.8%	0.2%	
Total:	344.2	463,654	23.0%	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⁾
HAMILTON	1,111,011	\$1.97	3,285	\$55.91	3,879	\$36.04
LAKE PLACID	610,554	\$1.98	1,837	\$55.82	2,120	\$36.01
TRENTON	1,062,013	\$1.97	3,149	\$55.87	3,687	\$36.03
COLUMBIA	844,631	\$1.96	2,741	\$54.62	3,934	\$35.99
DEBARY	407,883	\$2.03	1,418	\$56.24	2,637	\$35.50
Total:	4,036,090	\$7,998,552	12,431	\$692,320	16,257	\$583,919

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	76,838	40	5	0
LAKE PLACID	42,216	22	3	0
TRENTON	73,411	38	5	0
COLUMBIA	60,528	31	5	0
DEBARY	30,770	15	3	0
Total:	283,764	146	20	1

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$1,044,270	\$5,684,339	\$2,436,017	\$131,104	\$0	\$9,295,730
LAKE PLACID	\$381,721	\$2,683,127	\$1,144,977	\$69,464	\$0	\$4,279,289
TRENTON	\$600,689	\$4,921,032	\$2,109,262	\$140,400	\$0	\$7,771,382
COLUMBIA	\$572,853	\$4,127,630	\$1,436,980	\$105,870	\$0	\$6,243,333
DEBARY	\$33,118	\$1,986,927	\$725,947	\$57,144	\$0	\$2,803,136
Total:	\$2,632,651	\$19,403,055	\$7,853,182	\$503,982	\$0	\$30,392,870

(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, Debarry yet).