



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

August 26, 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 July 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 26th day of August, 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>
--	--

Duke Energy Florida, LLC
 Actual Data for Solar Generation Facilities
 Solar Base Rate Adjustment (SoBRA) Reporting
July, 2020

		AVERAGE HOURLY NET OUTPUT (MWh)	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	Debary
1	1	4,672.2	0.0	0.0	0.0	0.0
2	2	4,336.7	0.0	0.0	0.0	0.0
3	3	4,101.5	0.0	0.0	0.0	0.0
4	4	3,948.2	0.0	0.0	0.0	0.0
5	5	3,893.4	0.0	0.0	0.0	0.0
6	6	3,946.2	0.1	0.2	0.1	0.2
7	7	4,087.6	12.0	7.1	10.8	16.3
8	8	4,393.2	44.1	24.8	38.4	46.0
9	9	4,870.4	58.0	32.7	48.1	56.5
10	10	5,464.6	58.3	33.7	49.4	56.9
11	11	6,192.1	61.3	35.9	45.4	58.7
12	12	6,981.9	61.5	32.8	51.3	57.7
13	13	7,653.2	61.8	28.7	49.9	55.0
14	14	8,045.4	57.1	25.9	47.4	51.5
15	15	8,197.7	53.2	28.6	47.0	51.7
16	16	8,226.2	45.5	25.2	39.5	46.3
17	17	8,221.3	41.9	15.8	37.3	37.5
18	18	8,118.8	30.9	10.0	28.6	32.5
19	19	7,841.3	15.2	3.2	12.4	13.6
20	20	7,349.1	0.8	0.1	0.6	0.7
21	21	6,888.5	0.0	0.0	0.0	0.0
22	22	6,428.3	0.0	0.0	0.0	0.0
23	23	5,782.4	0.0	0.0	0.0	0.0
24	24	5,118.7	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:
July, 2020

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	18,650	33.5%	0.4%	4,202,430
LAKE PLACID	45.0	9,446	28.2%	0.2%	
TRENTON	74.9	15,692	28.2%	0.4%	
COLUMBIA	74.9	18,016	32.3%	0.4%	
DEBARY	74.5	12,821	23.1%	0.3%	
Total:	344.2	74,625.0	29.1%	1.8%	

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	159,478	\$1.97	731	\$58.94	1,453	\$35.41
LAKE PLACID	80,774	\$1.97	370	\$58.94	736	\$35.41
TRENTON	134,184	\$1.97	615	\$58.94	1,223	\$35.41
COLUMBIA	154,056	\$1.97	706	\$58.94	1,404	\$35.41
DEBARY	109,633	\$1.97	502	\$58.94	999	\$35.41
Total:	638,125	\$1,257,298	2,923	\$172,273	5,816	\$205,920

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	12,970	6	2	0
LAKE PLACID	6,569	3	1	0
TRENTON	10,913	5	1	0
COLUMBIA	12,529	6	2	0
DEBARY	8,916	4	1	0
Total:	51,896	25	6	1

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$70,840	\$705,022	\$304,530	\$16,388	\$0	\$1,096,780
LAKE PLACID	\$32,299	\$383,407	\$164,799	\$8,683	\$0	\$589,188
TRENTON	\$47,325	\$623,956	\$271,643	\$17,550	\$0	\$960,474
COLUMBIA	\$500,984	\$706,921	\$292,003	\$17,645	\$0	\$1,517,552
DEBARY	\$14,079	\$569,398	\$242,469	\$14,286	\$0	\$840,232
Total:	\$665,527	\$2,988,702	\$1,275,444	\$74,552	\$0	\$5,004,225

(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:
July, 2020

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	112,282	29.3%	0.5%	23,443,237
LAKE PLACID	45.0	61,023	26.5%	0.3%	
TRENTON	74.9	105,785	27.6%	0.5%	
COLUMBIA	74.9	80,345	21.0%	0.3%	
DEBARY	74.5	34,023	8.9%	0.1%	
Total:	344.2	393,458	22.4%	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	992,125	\$1.91	3,106	\$55.73	2,610	\$37.22
LAKE PLACID	540,898	\$1.91	1,732	\$55.62	1,376	\$37.30
TRENTON	938,132	\$1.90	2,962	\$55.67	2,365	\$37.38
COLUMBIA	717,200	\$1.86	2,548	\$54.28	2,574	\$37.24
DEBARY	308,286	\$1.87	1,268	\$55.90	1,574	\$36.77
Total:	3,496,641	\$6,603,346	11,615	\$643,946	10,500	\$390,408

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	66,962	36	4	0
LAKE PLACID	36,430	20	2	0
TRENTON	63,119	35	3	0
COLUMBIA	49,942	27	3	0
DEBARY	22,496	12	2	0
Total:	238,949	130	15	1

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$979,664	\$4,981,288	\$2,131,486	\$114,716	\$0	\$8,207,154
LAKE PLACID	\$367,813	\$2,300,759	\$980,094	\$60,781	\$0	\$3,709,447
TRENTON	\$576,329	\$4,290,905	\$1,837,615	\$122,850	\$0	\$6,827,699
COLUMBIA	\$535,699	\$3,422,603	\$1,144,920	\$88,225	\$0	\$5,191,447
DEBARY	\$18,129	\$1,414,610	\$482,267	\$42,858	\$0	\$1,957,863
Total:	\$2,477,634	\$16,410,165	\$6,576,382	\$429,430	\$0	\$25,893,611

(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).