



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

November 20, 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 October 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 20th day of November, 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 / 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 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
October, 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	3,972.1	0.0	0.0	0.0	0.0
2	2	3,686.9	0.0	0.0	0.0	0.0
3	3	3,499.1	0.0	0.0	0.0	0.0
4	4	3,392.7	0.0	0.0	0.0	0.0
5	5	3,372.7	0.0	0.0	0.0	0.0
6	6	3,480.9	0.0	0.0	0.0	0.0
7	7	3,730.5	0.3	0.5	0.4	0.4
8	8	3,990.6	12.1	9.8	14.4	8.4
9	9	4,249.7	34.2	20.9	37.9	22.9
10	10	4,645.2	43.3	23.9	47.8	32.1
11	11	5,104.1	48.1	27.1	49.8	37.1
12	12	5,598.3	48.8	27.2	50.9	38.3
13	13	6,134.8	50.2	27.7	50.4	37.0
14	14	6,574.7	49.1	25.1	48.2	34.5
15	15	6,877.3	45.6	24.7	45.0	26.8
16	16	7,043.5	38.7	20.2	42.4	20.6
17	17	7,093.6	26.5	12.6	24.6	10.4
18	18	6,962.8	5.4	2.0	4.7	1.6
19	19	6,593.5	0.1	0.0	0.0	0.0
20	20	6,356.3	0.0	0.0	0.0	0.0
21	21	5,909.9	0.0	0.0	0.0	0.0
22	22	5,390.2	0.0	0.0	0.0	0.0
23	23	4,901.4	0.0	0.0	0.0	0.0
24	24	4,363.6	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:
October, 2020

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	12,471	22.4%	0.3%	3,674,954
LAKE PLACID	45.0	6,870	20.5%	0.2%	
TRENTON	74.9	12,913	23.2%	0.4%	
COLUMBIA	74.9	13,979	25.1%	0.4%	
DEBARY	74.5	8,373	15.1%	0.2%	
Total:	344.2	54,606.0	21.3%	1.5%	

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	109,334	\$2.42	659	\$56.02	483	\$34.62
LAKE PLACID	60,230	\$2.42	363	\$56.02	266	\$34.62
TRENTON	113,209	\$2.42	682	\$56.02	500	\$34.62
COLUMBIA	122,555	\$2.42	739	\$56.02	542	\$34.62
DEBARY	73,407	\$2.42	442	\$56.02	324	\$34.62
Total:	478,735	\$1,156,724	2,885	\$161,617	2,116	\$73,231

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	7,922	5	1	0
LAKE PLACID	4,364	3	0	0
TRENTON	8,203	5	1	0
COLUMBIA	8,880	5	1	0
DEBARY	5,319	3	0	0
Total:	34,690	21	2	0

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$49,429	\$698,722	\$304,534	\$16,388	\$0	\$1,069,072
LAKE PLACID	\$18,025	\$380,269	\$164,915	\$8,683	\$0	\$571,893
TRENTON	\$46,799	\$628,379	\$271,662	\$17,550	\$0	\$964,390
COLUMBIA	\$53,290	\$701,189	\$292,174	\$17,645	\$0	\$1,064,299
DEBARY	\$62,575	\$568,747	\$243,045	\$14,286	\$0	\$888,652
Total:	\$230,118	\$2,977,306	\$1,276,330	\$74,552	\$0	\$4,558,306

- (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:
October, 2020

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%) ⁽⁷⁾	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	152,804	27.9%	0.4%	35,164,199
LAKE PLACID	45.0	84,603	25.7%	0.2%	
TRENTON	74.9	147,711	26.9%	0.4%	
COLUMBIA	74.9	124,195	31.0%	0.4%	
DEBARY	74.5	65,508	21.4%	0.2%	
Total:	344.2	574,821	27.0%	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⁾
HAMILTON	1,304,201	\$2.03	4,604	\$55.83	6,159	\$35.40
LAKE PLACID	720,513	\$2.03	2,591	\$55.76	3,451	\$35.35
TRENTON	1,259,078	\$2.03	4,491	\$55.80	5,984	\$35.37
COLUMBIA	1,053,618	\$2.04	4,160	\$54.97	6,328	\$35.36
DEBARY	547,318	\$2.11	2,380	\$55.98	4,376	\$35.02
Total:	4,884,728	\$10,010,112	18,227	\$1,014,609	26,297	\$928,280

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	93,803	51	8	1
LAKE PLACID	51,943	28	4	0
TRENTON	90,656	49	7	1
COLUMBIA	78,729	42	7	1
DEBARY	43,209	23	5	0
Total:	358,342	194	31	2

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$1,156,610	\$7,083,948	\$3,045,084	\$163,880	\$0	\$11,449,521
LAKE PLACID	\$430,071	\$3,444,765	\$1,474,807	\$86,830	\$0	\$5,436,473
TRENTON	\$680,384	\$6,177,666	\$2,652,586	\$175,500	\$0	\$9,686,135
COLUMBIA	\$674,695	\$5,531,962	\$2,021,328	\$141,160	\$0	\$8,369,146
DEBARY	\$127,959	\$3,126,833	\$1,211,908	\$85,716	\$0	\$4,552,416
Total:	\$3,069,719	\$25,365,174	\$10,405,712	\$653,086	\$0	\$39,493,691

(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.