



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

September 20, 2019

**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. 20190007-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 2019, 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 20<sup>th</sup> day of September, 2019.

/s/ Dianne M. Triplett

Attorney

<p>Charles Murphy / Ashley Weisenfeld Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:cmurphy@psc.state.fl.us">cmurphy@psc.state.fl.us</a> <a href="mailto:awaisenf@psc.state.fl.us">awaisenf@psc.state.fl.us</a></p> <p>J. Beasley / J. Wahlen / M. Means Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 <a href="mailto:jbeasley@ausley.com">jbeasley@ausley.com</a> <a href="mailto:jwahlen@ausley.com">jwahlen@ausley.com</a> <a href="mailto:mmeans@ausley.com">mmeans@ausley.com</a></p> <p>Steven R. Griffin Beggs &amp; Lane P.O. Box 12950 Pensacola, FL 32591 <a href="mailto:srg@beggslane.com">srg@beggslane.com</a></p> <p>Russell A. Badders Gulf Power Company One Energy Place Pensacola, FL 32520 <a href="mailto:russell.badders@nexteraenergy.com">russell.badders@nexteraenergy.com</a></p> <p>Holly Henderson Gulf Power Company 215 S. Monroe St., Ste. 618 Tallahassee, FL 32301 <a href="mailto:holly.henderson@nexteraenergy.com">holly.henderson@nexteraenergy.com</a></p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 <a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a> <a href="mailto:mqualls@moylelaw.com">mqualls@moylelaw.com</a></p>	<p>Maria Moncada Florida Power &amp; Light Company 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 <a href="mailto:maria.moncada@fpl.com">maria.moncada@fpl.com</a></p> <p>J.R. Kelly / P. Christensen / C. Rehwinkel / T. David / S. Morse Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 <a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a> <a href="mailto:kelly.jr@leg.state.fl.us">kelly.jr@leg.state.fl.us</a> <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a> <a href="mailto:david.tad@leg.state.fl.us">david.tad@leg.state.fl.us</a> <a href="mailto:morse.stephanie@leg.state.fl.us">morse.stephanie@leg.state.fl.us</a></p> <p>Paula K. Brown Tampa Electric Company P.O. Box 111 Tampa, FL 33601 <a href="mailto:regdept@tecoenergy.com">regdept@tecoenergy.com</a></p> <p>James W. Brew / Laura A. Wynn Stone Law Firm 1025 Thomas Jefferson Street, N.W. Eighth Floor, West Tower Washington, DC 20007 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:law@smxblaw.com">law@smxblaw.com</a></p> <p>George Cavros 120 E. Oakland Park Blvd., Ste. 105 Fort Lauderdale, FL 33334 <a href="mailto:george@cavros-law.com">george@cavros-law.com</a></p> <p>Kenneth Hoffman Florida Power &amp; Light Company 215 S. Monroe Street, Suite 810 Tallahassee, FL 32301-1858 <a href="mailto:ken.hoffman@fpl.com">ken.hoffman@fpl.com</a></p>
---	---

Duke Energy Florida, LLC  
 Actual Data for Solar Generation Facilities  
 Solar Base Rate Adjustment (SoBRA) Reporting  
August, 2019

		AVERAGE HOURLY NET OUTPUT (MWh)	
	Hour of Day	System Firm Demand (MW)	HAMILTON
1	1	4,578.2	0.0
2	2	4,256.7	0.0
3	3	4,034.5	0.0
4	4	3,892.6	0.0
5	5	3,858.0	0.0
6	6	3,978.0	0.0
7	7	4,249.1	6.3
8	8	4,551.3	35.8
9	9	4,934.4	53.5
10	10	5,473.1	58.7
11	11	6,088.2	60.3
12	12	6,727.7	61.0
13	13	7,348.2	58.1
14	14	7,784.9	54.7
15	15	8,044.4	52.0
16	16	8,121.7	47.7
17	17	8,084.2	38.7
18	18	7,862.0	24.3
19	19	7,552.5	7.5
20	20	7,127.2	0.1
21	21	6,826.2	0.0
22	22	6,325.4	0.0
23	23	5,709.8	0.0
24	24	5,043.9	0.0

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

PERIOD:  
**August, 2019**

Facility	Net Capability (MW)	Net Generation (MWh) <sup>(1)</sup>	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) <sup>(2)</sup>
HAMILTON	74.9	17,322	31.1%	0.4%	4,123,796
<b>Total:</b>	<b>74.9</b>	<b>17,322</b>	<b>31.1%</b>	<b>0.4%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) <sup>(3)</sup>	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) <sup>(3)</sup>	Coal Displaced (Tons)	Cost of Coal (\$/Ton) <sup>(3)</sup>
HAMILTON	159,110	\$2.40	834	\$83.97	919	\$44.70
<b>Total:</b>	<b>159,110</b>	<b>\$382,570</b>	<b>834</b>	<b>\$70,065</b>	<b>919</b>	<b>\$41,057</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	11,909	10	2	0
<b>Total:</b>	<b>11,909</b>	<b>10</b>	<b>2</b>	<b>0</b>

Facility	O&M (\$)	Carrying Costs (\$) <sup>(4)</sup>	Capital (\$) <sup>(5)</sup>	Other (\$) <sup>(6)</sup>	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$91,501	\$710,323	\$298,153	\$16,388	\$0	\$1,116,365
<b>Total:</b>	<b>\$91,501</b>	<b>\$710,323</b>	<b>\$298,153</b>	<b>\$16,388</b>	<b>\$0</b>	<b>\$1,116,365</b>

(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 yet).

Duke Energy Florida, LLC  
Actual Data for Solar Generation Facilities  
Solar Base Rate Adjustment (SoBRA) Reporting  
YEAR-TO-DATE THROUGH:  
**August, 2019**

Facility	Net Capability (MW)	Net Generation (MWh) <sup>(1)</sup>	Capacity Factor (%) <sup>(7)</sup>	Percent of Total Generation (%)	Total System Net Generation (MWh) <sup>(2)</sup>
1 HAMILTON	74.9	124,579	28.5%	0.4%	27,746,291
2 <b>Total:</b>	<b>74.9</b>	<b>124,579</b>	<b>28.5%</b>	<b>0.4%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) <sup>(3)</sup>	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) <sup>(3)</sup>	Coal Displaced (Tons)	Cost of Coal (\$/Ton) <sup>(3)</sup>
3 HAMILTON	1,025,971	\$2.67	5,393	\$84.78	8,726	\$48.76
4 <b>Total:</b>	<b>1,025,971</b>	<b>\$2,738,185</b>	<b>5,393</b>	<b>\$457,262</b>	<b>8,726</b>	<b>\$425,482</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5 HAMILTON	82,576	40	21	1
6 <b>Total:</b>	<b>82,576</b>	<b>40</b>	<b>21</b>	<b>1</b>

Facility	O&M (\$)	Carrying Costs (\$) <sup>(4)</sup>	Capital (\$) <sup>(5)</sup>	Other (\$) <sup>(6)</sup>	Fuel Costs (\$)	Total Cost of Generation (\$)
7 HAMILTON	\$844,944	\$5,423,591	\$2,367,610	\$131,104	\$0	\$8,767,249
8 <b>Total:</b>	<b>\$844,944</b>	<b>\$5,423,591</b>	<b>\$2,367,610</b>	<b>\$131,104</b>	<b>\$0</b>	<b>\$8,767,249</b>

- (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 yet).  
(7) January 2019 included outages for further equipment and controls optimization.