



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

January 28, 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 December 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/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 28<sup>th</sup> day of January, 2020.

/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  
December, 2019

		AVERAGE HOURLY NET OUTPUT (MWh)	
	Hour of Day	System Firm Demand (MW)	HAMILTON
1	1	3,216.6	0.0
2	2	3,034.4	0.0
3	3	2,936.7	0.0
4	4	2,909.8	0.0
5	5	2,973.9	0.0
6	6	3,209.7	0.0
7	7	3,617.1	0.0
8	8	3,946.7	1.6
9	9	4,112.5	20.1
10	10	4,198.5	38.1
11	11	4,248.7	44.8
12	12	4,287.3	45.3
13	13	4,325.5	43.3
14	14	4,358.8	39.1
15	15	4,376.9	37.2
16	16	4,389.2	33.1
17	17	4,428.2	18.4
18	18	4,616.7	1.1
19	19	4,855.9	0.0
20	20	4,752.3	0.0
21	21	4,544.3	0.0
22	22	4,271.7	0.0
23	23	3,918.7	0.0
24	24	3,516.7	0.0

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

PERIOD:

**December, 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>
1 HAMILTON	74.9	9,982	17.9%	0.3%	2,871,305
2 <b>Total:</b>	<b>74.9</b>	<b>9,982</b>	<b>17.9%</b>	<b>0.3%</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	83,068	\$2.37	0	\$88.15	0	\$42.64
4 <b>Total:</b>	<b>83,068</b>	<b>\$196,484</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5 HAMILTON	5,043	2	0	0
6 <b>Total:</b>	<b>5,043</b>	<b>2</b>	<b>0</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 (\$)
7 HAMILTON	\$81,837	\$720,230	\$305,777	\$16,388	\$0	\$1,124,231
8 <b>Total:</b>	<b>\$81,837</b>	<b>\$720,230</b>	<b>\$305,777</b>	<b>\$16,388</b>	<b>\$0</b>	<b>\$1,124,231</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:  
**December, 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	179,769	27.4%	0.4%	40,824,183
2	<b>Total:</b>	<b>74.9</b>	<b>179,769</b>	<b>27.4%</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	1,480,856	\$2.70	6,929	\$86.79	13,792	\$46.98
4	<b>Total:</b>	<b>1,480,856</b>	<b>\$3,996,606</b>	<b>6,929</b>	<b>\$601,387</b>	<b>13,792</b>	<b>\$647,924</b>

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	121,185	51	23	1
6	<b>Total:</b>	<b>121,185</b>	<b>51</b>	<b>23</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	\$1,151,614	\$8,289,082	\$3,582,826	\$196,656	\$0	\$13,220,178
8	<b>Total:</b>	<b>\$1,151,614</b>	<b>\$8,289,082</b>	<b>\$3,582,826</b>	<b>\$196,656</b>	<b>\$0</b>	<b>\$13,220,178</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.