



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

July 29, 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 June 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.

Also enclosed is DEF's Revised Solar Plant Operation Report for the month of May 2019.

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 29th day of July, 2019.

/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
June, 2019

		AVERAGE HOURLY NET OUTPUT (MWh)	
	Hour of Day	System Firm Demand (MW)	HAMILTON
1	1	4,581.8	0.0
2	2	4,223.4	0.0
3	3	3,972.7	0.0
4	4	3,816.2	0.0
5	5	3,775.0	0.0
6	6	3,861.4	0.0
7	7	4,068.1	0.5
8	8	4,430.6	14.7
9	9	4,938.7	43.2
10	10	5,541.0	51.4
11	11	6,216.2	52.6
12	12	6,895.4	55.4
13	13	7,492.9	56.0
14	14	7,833.6	53.1
15	15	8,015.5	51.9
16	16	8,092.7	49.0
17	17	8,097.3	46.4
18	18	7,983.8	42.3
19	19	7,715.2	31.0
20	20	7,294.7	12.2
21	21	6,895.8	0.9
22	22	6,492.7	0.0
23	23	5,828.2	0.0
24	24	5,075.6	0.0

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

	Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
1	HAMILTON	74.9	16,816	31.2%	0.4%	4,054,714
2	Total:	74.9	16,816	31.2%	0.4%	

	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⁾
3	HAMILTON	147,714	\$2.54	1,281	\$84.59	1,003	\$46.78
4	Total:	147,714	\$375,890	1,281	\$108,366	1,003	\$46,905

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	11,594	8	2	0
6	Total:	11,594	8	2	0

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$52,985	\$714,247	\$298,126	\$16,388	\$0	\$1,081,746
8	Total:	\$52,985	\$714,247	\$298,126	\$16,388	\$0	\$1,081,746

- (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:
June, 2019

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%) ⁽⁷⁾	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
1 HAMILTON	74.9	88,385	27.2%	0.5%	19,506,867
2 Total:	74.9	88,385	27.2%	0.5%	

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⁾
3 HAMILTON	692,774	\$2.83	1,760	\$86.52	7,145	\$49.76
4 Total:	692,774	\$1,958,066	1,760	\$152,319	7,145	\$355,512

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5 HAMILTON	57,462	19	17	0
6 Total:	57,462	19	17	0

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7 HAMILTON	\$673,808	\$4,000,853	\$1,771,292	\$98,328	\$0	\$6,544,281
8 Total:	\$673,808	\$4,000,853	\$1,771,292	\$98,328	\$0	\$6,544,281

- (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.

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

		AVERAGE HOURLY NET OUTPUT (MWh)	
	Hour of Day	System Firm Demand (MW)	HAMILTON
1	1	4,181.3	0.0
2	2	3,799.9	0.0
3	3	3,558.3	0.0
4	4	3,403.2	0.0
5	5	3,362.7	0.0
6	6	3,483.6	0.0
7	7	3,768.1	0.4
8	8	4,084.6	14.9
9	9	4,519.6	48.4
10	10	5,041.9	62.8
11	11	5,598.2	63.9
12	12	6,104.6	64.0
13	13	6,585.1	64.5
14	14	6,988.5	65.1
15	15	7,281.8	61.1
16	16	7,482.6	58.8
17	17	7,589.5	58.5
18	18	7,551.9	56.4
19	19	7,314.7	42.5
20	20	6,876.6	13.7
21	21	6,542.9	0.3
22	22	6,104.0	0.0
23	23	5,475.0	0.0
24	24	4,763.7	0.0

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

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	20,929	37.6%	0.6%	3,748,304
Total:	74.9	20,929	37.6%	0.6%	

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	175,530	\$2.80	234	\$92.49	1,711	\$48.00
Total:	175,530	\$492,128	234	\$21,609	1,711	\$82,104

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	14,237	6	3	0
Total:	14,237	6	3	0

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$67,342	\$709,269	\$297,923	\$16,388	\$0	\$1,090,922
Total:	\$67,342	\$709,269	\$297,923	\$16,388	\$0	\$1,090,922

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

Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%) ⁽⁷⁾	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
HAMILTON	74.9	71,569	26.4%	0.5%	15,452,153
Total:	74.9	71,569	26.4%	0.5%	

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	545,060	\$2.90	479	\$91.67	6,142	\$50.24
Total:	545,060	\$1,582,176	479	\$43,952	6,142	\$308,608

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	45,867	11	15	0
Total:	45,867	11	15	0

Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$620,824	\$3,286,606	\$1,473,165	\$81,940	\$0	\$5,462,535
Total:	\$620,824	\$3,286,606	\$1,473,165	\$81,940	\$0	\$5,462,535

- (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.
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