



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

July 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 June 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 28<sup>th</sup> day of July, 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  
June, 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	4,449.3	0.0	0.0	0.0	0.0
2	2	4,102.7	0.0	0.0	0.0	0.0
3	3	3,860.8	0.0	0.0	0.0	0.0
4	4	3,696.8	0.0	0.0	0.0	0.0
5	5	3,627.1	0.0	0.0	0.0	0.0
6	6	3,669.3	0.4	0.2	0.4	0.3
7	7	3,802.0	13.3	9.5	12.5	10.5
8	8	4,112.9	32.5	25.4	34.7	38.5
9	9	4,568.2	45.8	31.2	47.9	51.7
10	10	5,111.3	52.6	33.7	53.2	55.7
11	11	5,684.9	56.4	35.7	55.9	57.8
12	12	6,316.3	58.3	34.7	57.7	61.1
13	13	6,960.6	58.8	32.8	56.8	60.0
14	14	7,456.4	54.9	30.6	51.5	56.0
15	15	7,775.0	54.7	27.6	46.1	53.6
16	16	7,946.8	49.6	25.1	47.5	49.4
17	17	7,986.3	43.1	21.1	43.2	42.3
18	18	7,880.0	32.7	11.9	36.2	40.4
19	19	7,571.1	12.7	3.6	14.0	19.9
20	20	7,051.1	0.8	0.1	0.9	1.8
21	21	6,577.2	0.0	0.0	0.0	0.1
22	22	6,128.1	0.0	0.0	0.0	0.0
23	23	5,542.3	0.0	0.0	0.0	0.0
24	24	4,929.0	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:  
**June, 2020**

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	16,998	31.5%	0.4%	3,869,070
LAKE PLACID	45.0	9,691	29.9%	0.3%	
TRENTON	74.9	16,748	31.1%	0.4%	
COLUMBIA	74.9	17,981	33.3%	0.5%	
DEBARY	74.5	12,869	24.0%	0.3%	
<b>Total:</b>	<b>344.2</b>	<b>74,287.0</b>	<b>30.0%</b>	<b>1.9%</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	166,475	\$1.78	989	\$54.13	522	\$38.77
LAKE PLACID	94,912	\$1.78	564	\$54.13	298	\$38.77
TRENTON	164,027	\$1.78	975	\$54.13	515	\$38.77
COLUMBIA	176,102	\$1.78	1,047	\$54.13	553	\$38.77
DEBARY	126,036	\$1.78	749	\$54.13	395	\$38.77
<b>Total:</b>	<b>727,552</b>	<b>\$1,297,690</b>	<b>4,324</b>	<b>\$234,048</b>	<b>2,283</b>	<b>\$88,507</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	11,623	8	1	0
LAKE PLACID	6,627	5	1	0
TRENTON	11,453	8	1	0
COLUMBIA	12,296	9	1	0
DEBARY	8,800	6	1	0
<b>Total:</b>	<b>50,798</b>	<b>37</b>	<b>4</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	\$72,366	\$707,329	\$304,506	\$16,388	\$0	\$1,100,589
LAKE PLACID	\$171,868	\$384,411	\$164,801	\$8,683	\$0	\$729,763
TRENTON	\$27,636	\$617,682	\$264,841	\$17,550	\$0	\$927,710
COLUMBIA	\$12,947	\$701,309	\$291,896	\$17,645	\$0	\$1,023,798
DEBARY	\$259	\$565,206	\$239,797	\$14,286	\$0	\$819,548
<b>Total:</b>	<b>\$285,076</b>	<b>\$2,975,938</b>	<b>\$1,265,842</b>	<b>\$74,552</b>	<b>\$0</b>	<b>\$4,601,407</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. 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:  
**June, 2020**

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	93,632	28.6%	0.5%	19,240,807
LAKE PLACID	45.0	51,577	26.2%	0.3%	
TRENTON	74.9	90,093	27.5%	0.5%	
COLUMBIA	74.9	62,329	19.1%	0.3%	
DEBARY	74.5	21,202	6.5%	0.1%	
<b>Total:</b>	<b>344.2</b>	<b>318,833</b>	<b>21.2%</b>	<b>1.7%</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	832,648	\$1.90	2,375	\$54.74	1,157	\$39.50
LAKE PLACID	460,124	\$1.89	1,362	\$54.72	640	\$39.49
TRENTON	803,948	\$1.89	2,347	\$54.81	1,142	\$39.50
COLUMBIA	563,144	\$1.83	1,843	\$52.50	1,170	\$39.44
DEBARY	198,653	\$1.81	766	\$53.91	575	\$39.14
<b>Total:</b>	<b>2,858,516</b>	<b>\$5,329,019</b>	<b>8,692</b>	<b>\$470,565</b>	<b>4,684</b>	<b>\$184,597</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	53,992	30	2	0
LAKE PLACID	29,861	17	1	0
TRENTON	52,206	29	2	0
COLUMBIA	37,413	21	2	0
DEBARY	13,580	8	1	0
<b>Total:</b>	<b>187,052</b>	<b>105</b>	<b>8</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	\$908,824	\$4,276,266	\$1,826,956	\$98,328	\$0	\$7,110,374
LAKE PLACID	\$335,514	\$2,300,759	\$980,094	\$52,098	\$0	\$3,668,465
TRENTON	\$529,005	\$3,666,950	\$1,565,972	\$105,300	\$0	\$5,867,227
COLUMBIA	\$34,715	\$2,715,682	\$852,917	\$70,580	\$0	\$3,673,895
DEBARY	\$4,050	\$845,212	\$239,797	\$28,572	\$0	\$1,117,631
<b>Total:</b>	<b>\$1,812,108</b>	<b>\$13,804,870</b>	<b>\$5,465,737</b>	<b>\$354,878</b>	<b>\$0</b>	<b>\$21,437,592</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, Lake Placid, Trenton, Columbia, Debarry yet).