



Stephanie A. Cuello  
SENIOR COUNSEL

August 30, 2024

**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. 20240007-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 July 2024, 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 and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

*/s/ Stephanie A. Cuello*

Stephanie A. Cuello

SAC/vr  
Attachment

**CERTIFICATE OF SERVICE**

*Docket No. 20240007-EI*

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 30th day of August, 2024.

/s/ Stephanie A. Cuello

Attorney

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Duke Energy Florida, LLC  
 Actual Data for Solar Generation Facilities  
 Solar Base Rate Adjustment (SoBRA) Reporting  
July, 2024

Hour of Day	System Firm Demand (MW)	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)	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)	
		Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers	Duette	Sandy Creek	Charlie Creek	
1	1	5,198.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,814.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	4,535.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	4,360.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	4,301.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	4,352.5	0.2	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
7	7	4,488.1	10.9	4.6	9.9	10.4	3.0	10.1	9.6	9.3	7.8	10.2
8	8	4,724.2	36.9	17.4	38.6	33.5	12.8	34.0	32.7	32.7	31.1	34.3
9	9	5,179.8	51.6	24.6	47.3	47.1	26.5	48.8	46.5	50.1	44.4	47.0
10	10	5,775.4	55.7	26.8	47.5	50.0	37.1	50.8	50.5	56.2	47.7	56.7
11	11	6,417.4	59.0	28.4	48.5	50.7	44.3	51.1	53.5	55.8	49.7	60.8
12	12	7,173.1	56.2	28.9	52.0	52.2	47.8	48.1	51.7	55.8	46.7	61.4
13	13	7,807.8	55.7	27.2	50.6	49.2	47.5	51.4	52.7	54.9	43.0	58.7
14	14	8,302.8	48.7	26.4	43.6	48.1	41.4	46.9	45.6	54.2	43.6	56.2
15	15	8,593.2	43.8	23.1	41.1	37.6	32.0	36.5	40.4	48.5	47.6	46.8
16	16	8,766.8	38.9	17.0	36.5	30.9	24.7	30.9	37.7	37.5	46.2	37.7
17	17	8,765.9	35.9	12.2	26.0	23.3	16.6	24.0	34.8	23.7	42.7	25.5
18	18	8,633.8	24.8	7.7	19.3	18.1	7.6	18.7	23.3	13.4	37.6	13.1
19	19	8,347.9	9.2	2.1	9.8	6.5	2.0	5.9	9.0	4.0	17.3	2.8
20	20	7,974.3	0.5	0.0	0.6	0.4	0.0	0.3	0.5	0.1	1.2	0.1
21	21	7,645.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	7,213.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	6,631.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	5,844.1	0.0	0.0	0.0	0.0	0.0	0.0	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:  
**July, 2024**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	16,374	29.4%	0.3%	4,858,987
LAKE PLACID	45.0	7,640	22.8%	0.2%	
TRENTON	74.9	14,614	26.2%	0.3%	
COLUMBIA	74.9	14,205	25.5%	0.3%	
DEBARY	74.5	10,647	19.2%	0.2%	
SANTA FE	74.9	14,189	25.5%	0.3%	
TWIN RIVERS	74.9	15,156	27.2%	0.3%	
DUETTE	74.5	15,381	27.7%	0.3%	
SANDY CREEK	74.9	15,707	28.2%	0.3%	
CHARLIE CREEK	74.9	15,848	28.4%	0.3%	
<b>Total:</b>	<b>718.3</b>	<b>139,761.0</b>	<b>26.2%</b>	<b>2.9%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	120,098	\$2.89	1,721	\$113.12	1,494	\$46.88
LAKE PLACID	56,037	\$2.89	803	\$113.12	697	\$46.88
TRENTON	107,189	\$2.89	1,536	\$113.12	1,334	\$46.88
COLUMBIA	104,189	\$2.89	1,493	\$113.12	1,296	\$46.88
DEBARY	78,092	\$2.89	1,119	\$113.12	972	\$46.88
SANTA FE	104,072	\$2.89	1,492	\$113.12	1,295	\$46.88
TWIN RIVERS	111,164	\$2.89	1,593	\$113.12	1,383	\$46.88
DUETTE	112,815	\$2.89	1,617	\$113.12	1,404	\$46.88
SANDY CREEK	115,206	\$2.89	1,651	\$113.12	1,434	\$46.88
CHARLIE CREEK	116,240	\$2.89	1,666	\$113.12	1,446	\$46.88
<b>Total:</b>	<b>1,025,101</b>	<b>\$2,965,852</b>	<b>14,692</b>	<b>\$1,661,982</b>	<b>12,756</b>	<b>\$597,969</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	11,120	12	3	0
LAKE PLACID	5,188	5	1	0
TRENTON	9,924	10	3	0
COLUMBIA	9,647	10	3	0
DEBARY	7,230	8	2	0
SANTA FE	9,636	10	3	0
TWIN RIVERS	10,293	11	3	0
DUETTE	10,445	11	3	0
SANDY CREEK	10,667	11	3	0
CHARLIE CREEK	10,762	11	3	0
<b>Total:</b>	<b>94,913</b>	<b>99</b>	<b>27</b>	<b>1</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$173,591	\$603,711	\$313,656	\$16,388	\$0	\$1,107,346
LAKE PLACID	(\$10,332)	\$340,684	\$172,043	\$8,683	\$0	\$511,078
TRENTON	\$167,004	\$554,930	\$280,606	\$17,550	\$0	\$1,020,090
COLUMBIA	\$593,563	\$611,278	\$297,137	\$17,645	\$0	\$1,519,623
DEBARY	\$49,285	\$507,258	\$245,835	\$14,286	\$0	\$816,664
SANTA FE	\$57,447	\$623,102	\$289,784	\$17,384	\$0	\$987,716
TWIN RIVERS	\$62,833	\$572,400	\$263,321	\$15,572	\$0	\$914,127
DUETTE	\$79,493	\$578,093	\$404,305	\$20,420	\$0	\$1,082,311
SANDY CREEK	\$133,396	\$574,825	\$252,819	\$16,083	\$0	\$977,123
CHARLIE CREEK	\$381,102	\$604,848	\$266,154	\$21,047	\$0	\$1,273,151
<b>Total:</b>	<b>\$1,687,382</b>	<b>\$5,571,130</b>	<b>\$2,785,660</b>	<b>\$165,058</b>	<b>\$0</b>	<b>\$10,209,230</b>

Notes: Lake Placid Allocation Adjustment - Lease Payment

Duke Energy Florida, LLC  
Actual Data for Solar Generation Facilities  
Solar Base Rate Adjustment (SoBRA) Reporting  
YEAR-TO-DATE THROUGH:  
**July, 2024**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	89,687	23.4%	0.3%	25,724,797
LAKE PLACID	45.0	50,115	21.8%	0.2%	
TRENTON	74.9	91,338	23.9%	0.4%	
COLUMBIA	74.9	94,049	24.6%	0.4%	
DEBARY	74.5	72,657	19.1%	0.3%	
SANTA FE	74.9	92,352	24.1%	0.4%	
TWIN RIVERS	74.9	97,681	25.5%	0.4%	
DUETTE	74.5	95,919	25.2%	0.4%	
SANDY CREEK	74.9	103,632	27.1%	0.4%	
CHARLIE CREEK	74.9	95,776	25.0%	0.4%	
<b>Total:</b>	<b>718.3</b>	<b>883,206</b>	<b>24.1%</b>	<b>3.4%</b>	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	651,548	\$2.60	8,541	\$111.15	5,019	\$46.35
LAKE PLACID	365,627	\$2.59	4,835	\$111.01	2,884	\$47.04
TRENTON	667,176	\$2.63	9,691	\$110.96	5,467	\$47.69
COLUMBIA	676,758	\$2.69	9,730	\$110.93	5,628	\$47.80
DEBARY	526,997	\$2.61	6,557	\$111.05	4,098	\$46.57
SANTA FE	671,453	\$2.65	9,416	\$110.95	5,508	\$47.53
TWIN RIVERS	709,775	\$2.66	9,593	\$110.98	5,853	\$47.53
DUETTE	695,211	\$2.68	10,002	\$110.95	5,740	\$47.63
SANDY CREEK	750,759	\$2.68	10,466	\$110.95	6,225	\$47.51
CHARLIE CREEK	696,713	\$2.66	10,015	\$111.00	5,616	\$47.55
<b>Total:</b>	<b>6,412,016</b>	<b>\$16,962,024</b>	<b>88,844</b>	<b>\$9,861,231</b>	<b>52,039</b>	<b>\$2,462,494</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	53,687	50	12	0
LAKE PLACID	30,284	29	7	0
TRENTON	56,077	56	13	1
COLUMBIA	57,004	57	13	1
DEBARY	43,339	39	9	0
SANTA FE	56,292	55	13	1
TWIN RIVERS	59,401	57	14	1
DUETTE	58,476	58	14	1
SANDY CREEK	63,047	61	15	1
CHARLIE CREEK	58,322	58	13	1
<b>Total:</b>	<b>535,930</b>	<b>520</b>	<b>123</b>	<b>5</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$985,659	\$4,271,269	\$2,195,594	\$114,716	\$0	\$7,567,238
LAKE PLACID	\$759,668	\$2,408,683	\$1,201,505	\$60,781	\$0	\$4,430,637
TRENTON	\$846,634	\$3,926,472	\$1,964,051	\$122,850	\$0	\$6,860,007
COLUMBIA	\$1,076,413	\$4,323,255	\$2,079,957	\$123,515	\$0	\$7,603,140
DEBARY	\$374,268	\$3,587,499	\$1,720,845	\$100,002	\$0	\$5,782,614
SANTA FE	\$363,482	\$4,405,115	\$2,028,487	\$121,688	\$0	\$6,918,772
TWIN RIVERS	\$551,728	\$4,045,330	\$1,843,379	\$109,004	\$0	\$6,549,441
DUETTE	\$460,094	\$4,105,840	\$2,779,389	\$142,940	\$0	\$7,488,263
SANDY CREEK	\$847,694	\$4,061,937	\$1,769,959	\$112,581	\$0	\$6,792,172
CHARLIE CREEK	\$1,011,094	\$4,274,541	\$1,863,078	\$147,329	\$0	\$7,296,042
<b>Total:</b>	<b>\$7,276,734</b>	<b>\$39,409,941</b>	<b>\$19,446,244</b>	<b>\$1,155,406</b>	<b>\$0</b>	<b>\$67,288,325</b>

Notes: Lake Placid Allocation Adjustment - Lease Payment