



Stephanie A. Cuello  
SENIOR COUNSEL

March 31, 2025

**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. 20250007-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 February 2025, 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. 20250007-EI*

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 31st day of March, 2025.

/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  
**February, 2025**

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	4,211.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,101.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	4,081.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	4,134.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	4,294.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	4,636.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	5,179.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8	5,575.6	2.9	1.2	2.9	3.2	3.0	2.5	2.1	3.8	1.3	5.5
9	9	5,609.1	25.0	8.5	20.3	20.8	14.6	19.3	19.7	25.6	15.8	30.6
10	10	5,386.1	38.7	14.2	35.6	33.4	27.6	32.1	30.8	42.9	32.4	44.5
11	11	5,065.4	45.1	17.6	43.9	41.5	37.9	39.8	36.1	47.5	38.5	51.2
12	12	4,741.1	49.0	18.4	46.7	45.3	44.8	43.6	38.6	50.7	40.8	51.9
13	13	4,538.6	49.7	18.1	49.3	46.6	46.7	45.0	39.7	51.6	45.1	48.0
14	14	4,402.2	49.3	17.3	49.5	46.1	47.2	45.1	40.0	49.3	47.4	46.1
15	15	4,317.9	49.2	16.8	48.4	43.5	45.1	43.0	39.1	47.0	46.6	46.2
16	16	4,379.5	49.1	16.0	45.5	42.2	34.5	40.9	39.4	44.5	42.1	47.3
17	17	4,575.7	43.7	13.6	41.4	34.9	21.6	34.7	34.1	36.2	39.4	38.6
18	18	4,870.2	16.5	4.7	15.5	14.3	6.5	13.1	13.3	12.3	19.9	12.3
19	19	5,241.2	0.3	0.1	0.5	0.3	0.1	0.4	0.5	0.3	0.9	0.2
20	20	5,276.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	21	5,170.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	4,976.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	4,681.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	4,378.0	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:  
**February, 2025**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	11,720	23.3%	0.4%	2,773,039
LAKE PLACID	45.0	4,099	13.6%	0.1%	
TRENTON	74.9	11,181	22.2%	0.4%	
COLUMBIA	74.9	10,417	20.7%	0.4%	
DEBARY	74.5	9,229	18.4%	0.3%	
SANTA FE	74.9	10,061	20.0%	0.4%	
TWIN RIVERS	74.9	9,333	18.5%	0.3%	
DUETTE	74.5	11,520	23.0%	0.4%	
SANDY CREEK	74.9	10,367	20.6%	0.4%	
CHARLIE CREEK	74.9	11,829	23.5%	0.4%	
<b>Total:</b>	<b>718.3</b>	<b>99,756.0</b>	<b>20.7%</b>	<b>3.6%</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	85,737	\$4.57	0	\$110.26	119	\$66.46
LAKE PLACID	29,986	\$4.57	0	\$110.26	42	\$66.46
TRENTON	81,794	\$4.57	0	\$110.26	113	\$66.46
COLUMBIA	76,205	\$4.57	0	\$110.26	106	\$66.46
DEBARY	67,514	\$4.57	0	\$110.26	94	\$66.46
SANTA FE	73,601	\$4.57	0	\$110.26	102	\$66.46
TWIN RIVERS	68,275	\$4.57	0	\$110.26	95	\$66.46
DUETTE	84,274	\$4.57	0	\$110.26	117	\$66.46
SANDY CREEK	75,839	\$4.57	0	\$110.26	105	\$66.46
CHARLIE CREEK	86,534	\$4.57	0	\$110.26	120	\$66.46
<b>Total:</b>	<b>729,760</b>	<b>\$3,337,316</b>	<b>0</b>	<b>\$0</b>	<b>1,011</b>	<b>\$67,179</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	5,442	2	0	0
LAKE PLACID	1,903	1	0	0
TRENTON	5,191	2	0	0
COLUMBIA	4,837	1	0	0
DEBARY	4,285	1	0	0
SANTA FE	4,671	1	0	0
TWIN RIVERS	4,333	1	0	0
DUETTE	5,349	2	0	0
SANDY CREEK	4,814	1	0	0
CHARLIE CREEK	5,492	2	0	0
<b>Total:</b>	<b>46,318</b>	<b>14</b>	<b>1</b>	<b>0</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$157,423	\$589,246	\$260,407	\$16,388	\$0	\$1,023,464
LAKE PLACID	\$98,418	\$271,360	\$122,203	\$8,683	\$0	\$500,664
TRENTON	\$100,467	\$542,812	\$234,035	\$17,550	\$0	\$894,864
COLUMBIA	\$83,328	\$596,791	\$245,580	\$17,645	\$0	\$943,344
DEBARY	\$43,244	\$494,999	\$203,757	\$14,286	\$0	\$756,286
SANTA FE	\$29,056	\$609,122	\$241,999	\$17,384	\$0	\$897,561
TWIN RIVERS	\$127,345	\$559,770	\$222,676	\$15,572	\$0	\$925,364
DUETTE	\$49,552	\$558,637	\$367,457	\$20,420	\$0	\$996,066
SANDY CREEK	\$169,037	\$562,583	\$214,560	\$16,083	\$0	\$962,263
CHARLIE CREEK	(\$128,978)	\$591,699	\$227,846	\$21,047	\$0	\$711,614
<b>Total:</b>	<b>\$728,892</b>	<b>\$5,377,020</b>	<b>\$2,340,520</b>	<b>\$165,058</b>	<b>\$0</b>	<b>\$8,611,490</b>

Notes: Charlie Creek Corporate Lease Adjustment

Duke Energy Florida, LLC  
 Actual Data for Solar Generation Facilities  
 Solar Base Rate Adjustment (SoBRA) Reporting  
 YEAR-TO-DATE THROUGH:  
**February, 2025**

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	23,124	21.8%	0.4%	6,251,043
LAKE PLACID	45.0	7,542	11.8%	0.1%	
TRENTON	74.9	20,322	19.2%	0.3%	
COLUMBIA	74.9	20,030	18.9%	0.3%	
DEBARY	74.5	18,105	17.2%	0.3%	
SANTA FE	74.9	19,263	18.2%	0.3%	
TWIN RIVERS	74.9	19,435	18.3%	0.3%	
DUETTE	74.5	21,331	20.2%	0.3%	
SANDY CREEK	74.9	19,764	18.6%	0.3%	
CHARLIE CREEK	74.9	21,102	19.9%	0.3%	
<b>Total:</b>	<b>718.3</b>	<b>190,018</b>	<b>18.7%</b>	<b>3.0%</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	150,351	\$4.93	574	\$110.67	684	\$64.17
LAKE PLACID	49,494	\$4.90	173	\$110.67	212	\$64.23
TRENTON	133,586	\$4.90	459	\$110.67	567	\$64.25
COLUMBIA	130,671	\$4.92	483	\$110.67	582	\$64.19
DEBARY	117,805	\$4.93	447	\$110.67	534	\$64.18
SANTA FE	125,738	\$4.92	463	\$110.67	558	\$64.20
TWIN RIVERS	125,512	\$4.96	509	\$110.67	596	\$64.13
DUETTE	139,862	\$4.91	493	\$110.67	603	\$64.23
SANDY CREEK	129,082	\$4.92	472	\$110.67	571	\$64.20
CHARLIE CREEK	139,074	\$4.89	465	\$110.67	580	\$64.26
<b>Total:</b>	<b>1,241,174</b>	<b>\$6,104,972</b>	<b>4,538</b>	<b>\$502,252</b>	<b>5,488</b>	<b>\$352,329</b>

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	10,782	5	1	0
LAKE PLACID	3,515	2	0	0
TRENTON	9,472	4	1	0
COLUMBIA	9,338	4	1	0
DEBARY	8,441	4	1	0
SANTA FE	8,980	4	1	0
TWIN RIVERS	9,064	4	1	0
DUETTE	9,943	4	1	0
SANDY CREEK	9,214	4	1	0
CHARLIE CREEK	9,835	4	1	0
<b>Total:</b>	<b>88,584</b>	<b>40</b>	<b>7</b>	<b>1</b>

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$270,644	\$1,180,320	\$520,822	\$32,776	\$0	\$2,004,563
LAKE PLACID	\$194,245	\$543,575	\$244,389	\$17,366	\$0	\$999,575
TRENTON	\$397,537	\$1,087,268	\$468,067	\$35,100	\$0	\$1,987,971
COLUMBIA	\$193,666	\$1,195,484	\$491,220	\$35,290	\$0	\$1,915,660
DEBARY	\$103,122	\$991,459	\$407,513	\$28,572	\$0	\$1,530,666
SANTA FE	\$67,813	\$1,219,990	\$483,998	\$34,768	\$0	\$1,806,569
TWIN RIVERS	\$244,021	\$1,121,143	\$445,352	\$31,144	\$0	\$1,841,660
DUETTE	\$96,911	\$1,119,881	\$734,227	\$40,840	\$0	\$1,991,859
SANDY CREEK	\$331,959	\$1,126,694	\$429,102	\$32,166	\$0	\$1,919,921
CHARLIE CREEK	\$242,134	\$1,185,075	\$455,692	\$42,094	\$0	\$1,924,995
<b>Total:</b>	<b>\$2,142,052</b>	<b>\$10,770,888</b>	<b>\$4,680,382</b>	<b>\$330,116</b>	<b>\$0</b>	<b>\$17,923,439</b>

Notes: Charlie Creek Corporate Lease Adjustment