



Stephanie A. Cuello
SENIOR COUNSEL

April 30, 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 March 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 30th day of April, 2025.

/s/ Stephanie A. Cuello

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Duke Energy Florida, LLC
Actual Data for Solar Generation Facilities
Solar Base Rate Adjustment (SoBRA) Reporting
March, 2025

		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)
Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers	Duette	Sandy Creek	Charlie Creek
1	1	3,327.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	3,092.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	2,965.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	2,910.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	2,954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	3,160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	3,552.2	0.4	0.1	0.4	0.5	0.4	0.3	0.2	0.4	0.0
8	8	3,827.5	16.3	6.2	16.0	16.5	8.7	13.0	14.5	17.2	8.7
9	9	3,985.4	46.6	17.4	43.9	40.1	25.2	36.6	42.2	49.5	30.2
10	10	3,979.0	54.3	21.9	52.4	48.1	41.4	46.4	51.4	57.8	42.7
11	11	3,954.5	57.2	23.2	52.4	49.9	50.8	48.0	53.4	61.2	48.2
12	12	4,020.7	57.6	23.9	55.3	53.3	55.7	51.3	53.9	62.7	53.8
13	13	4,116.5	61.5	24.0	55.6	54.6	53.9	53.6	57.6	61.5	57.1
14	14	4,227.4	60.5	23.3	55.8	57.6	50.4	55.1	57.3	60.1	55.3
15	15	4,379.5	58.3	22.4	56.9	54.7	46.9	52.9	55.5	57.6	55.0
16	16	4,598.2	55.0	20.7	55.5	49.3	37.1	49.4	52.4	53.7	54.0
17	17	4,852.0	50.0	17.9	51.4	44.4	23.9	43.1	46.5	48.7	49.0
18	18	5,072.0	29.4	9.5	29.1	25.7	9.8	22.3	27.3	23.7	33.1
19	19	5,128.3	2.3	0.9	2.3	2.5	0.8	1.9	2.4	1.6	4.5
20	20	5,072.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	21	4,931.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	4,623.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	4,227.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	3,734.9	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:
March, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	17,028	30.6%	0.6%	3,044,781
1	LAKE PLACID	45.0	6,554	19.6%	0.2%	
1	TRENTON	74.9	16,339	29.3%	0.5%	
1	COLUMBIA	74.9	15,418	27.7%	0.5%	
1	DEBARY	74.5	12,556	22.7%	0.4%	
1	SANTA FE	74.9	14,689	26.4%	0.5%	
1	TWIN RIVERS	74.9	15,953	28.6%	0.5%	
1	DUETTE	74.5	17,227	31.1%	0.6%	
1	SANDY CREEK	74.9	15,239	27.3%	0.5%	
1	CHARLIE CREEK	74.9	18,058	32.4%	0.6%	
2	Total:	718.3	149,061.0	27.9%	4.9%	

	Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
3	HAMILTON	126,565	\$4.42	45	\$102.19	0	\$67.45
3	LAKE PLACID	48,714	\$4.42	17	\$102.19	0	\$67.45
3	TRENTON	121,444	\$4.42	43	\$102.19	0	\$67.45
3	COLUMBIA	114,598	\$4.42	40	\$102.19	0	\$67.45
3	DEBARY	93,326	\$4.42	33	\$102.19	0	\$67.45
3	SANTA FE	109,180	\$4.42	38	\$102.19	0	\$67.45
3	TWIN RIVERS	118,575	\$4.42	42	\$102.19	0	\$67.45
3	DUETTE	128,044	\$4.42	45	\$102.19	0	\$67.45
3	SANDY CREEK	113,268	\$4.42	40	\$102.19	0	\$67.45
3	CHARLIE CREEK	134,220	\$4.42	47	\$102.19	0	\$67.45
4	Total:	1,107,932	\$4,894,424	390	\$39,884	0	\$0

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	7,704	2	0	0
5	LAKE PLACID	2,965	1	0	0
5	TRENTON	7,392	2	0	0
5	COLUMBIA	6,975	2	0	0
5	DEBARY	5,681	1	0	0
5	SANTA FE	6,646	2	0	0
5	TWIN RIVERS	7,217	2	0	0
5	DUETTE	7,794	2	0	0
5	SANDY CREEK	6,894	2	0	0
5	CHARLIE CREEK	8,170	2	0	0
6	Total:	67,438	17	0	0

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	159036	\$595,491	\$260,407	\$16,388	\$0	\$872,286
7	LAKE PLACID	73590	\$273,161	\$122,203	\$8,683	\$0	\$404,047
7	TRENTON	512045	\$549,095	\$234,065	\$17,550	\$0	\$800,709
7	COLUMBIA	85,565	\$603,660	\$245,602	\$17,645	\$0	\$866,907
7	DEBARY	56428	\$500,703	\$203,758	\$14,286	\$0	\$718,747
7	SANTA FE	33690	\$616,193	\$241,999	\$17,384	\$0	\$875,576
7	TWIN RIVERS	79,369	\$566,269	\$222,676	\$15,572	\$0	\$804,518
7	DUETTE	52,390	\$564,098	\$367,619	\$20,420	\$0	\$952,138
7	SANDY CREEK	245,645	\$562,583	\$214,560	\$16,083	\$0	\$793,226
7	CHARLIE CREEK	112,049	\$598,588	\$227,846	\$21,047	\$0	\$847,481
8	Total:	\$1,409,807	\$5,429,840	\$2,340,736	\$165,058	\$0	\$7,935,634

Notes:

OM - Trenton - Lease Payment

OM - Sandy Creek - Inverter Repairs

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

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	40,152	24.8%	0.4%	9,295,824
1	LAKE PLACID	45.0	14,096	14.5%	0.2%	
1	TRENTON	74.9	36,661	22.7%	0.4%	
1	COLUMBIA	74.9	35,448	21.9%	0.4%	
1	DEBARY	74.5	30,661	19.1%	0.3%	
1	SANTA FE	74.9	33,952	21.0%	0.4%	
1	TWIN RIVERS	74.9	35,388	21.9%	0.4%	
1	DUETTE	74.5	38,558	24.0%	0.4%	
1	SANDY CREEK	74.9	35,003	21.6%	0.4%	
1	CHARLIE CREEK	74.9	39,160	24.2%	0.4%	
2	Total:	718.3	339,079	21.9%	3.6%	

	Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
3	HAMILTON	276,916	\$4.70	619	\$110.06	684	\$64.17
3	LAKE PLACID	98,208	\$4.66	190	\$109.91	212	\$64.23
3	TRENTON	255,029	\$4.67	502	\$109.95	567	\$64.25
3	COLUMBIA	245,269	\$4.69	524	\$110.02	582	\$64.19
3	DEBARY	211,130	\$4.70	480	\$110.09	534	\$64.18
3	SANTA FE	234,918	\$4.69	501	\$110.02	558	\$64.20
3	TWIN RIVERS	244,086	\$4.69	551	\$110.03	596	\$64.13
3	DUETTE	267,906	\$4.67	538	\$109.96	603	\$64.23
3	SANDY CREEK	242,349	\$4.69	512	\$110.01	571	\$64.20
3	CHARLIE CREEK	273,295	\$4.66	512	\$109.89	580	\$64.26
4	Total:	2,349,106	\$10,998,601	4,929	\$542,102	5,488	\$352,329

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	18,486	7	1	0
5	LAKE PLACID	6,481	2	0	0
5	TRENTON	16,864	6	1	0
5	COLUMBIA	16,314	6	1	0
5	DEBARY	14,122	5	1	0
5	SANTA FE	15,626	6	1	0
5	TWIN RIVERS	16,281	6	1	0
5	DUETTE	17,737	6	1	0
5	SANDY CREEK	16,108	6	1	0
5	CHARLIE CREEK	18,004	6	1	0
6	Total:	156,023	57	8	1

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	429,680	\$1,792,945	\$781,230	\$49,164	\$0	\$2,623,338
7	LAKE PLACID	267,835	\$824,626	\$366,592	\$26,049	\$0	\$1,217,267
7	TRENTON	909,583	\$1,652,145	\$702,131	\$52,650	\$0	\$2,406,927
7	COLUMBIA	279,230	\$1,816,498	\$736,822	\$52,935	\$0	\$2,606,255
7	DEBARY	159,550	\$1,506,553	\$611,272	\$42,858	\$0	\$2,160,683
7	SANTA FE	101,503	\$1,853,893	\$725,996	\$52,152	\$0	\$2,632,041
7	TWIN RIVERS	323,390	\$1,703,687	\$668,028	\$46,716	\$0	\$2,418,431
7	DUETTE	149,301	\$1,700,236	\$1,101,847	\$61,260	\$0	\$2,863,342
7	SANDY CREEK	577,604	\$1,126,694	\$429,102	\$48,249	\$0	\$1,604,045
7	CHARLIE CREEK	354,183	\$1,800,865	\$683,539	\$63,141	\$0	\$2,547,545
8		\$3,551,859.00	\$15,778,142	\$6,806,559	\$495,174	\$0	\$23,079,875

Notes: