



Stephanie A. Cuello
SENIOR COUNSEL

August 29, 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 July 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 29th day of August, 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
July, 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	5,258.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,875.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	4,579.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	4,389.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	4,305.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	4,357.0	0.2	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.1
7	7	4,486.9	11.8	2.9	10.5	12.2	2.9	7.8	10.7	9.4	6.6
8	8	4,651.6	42.2	10.3	39.4	39.4	13.0	29.3	39.2	35.6	28.5
9	9	5,117.9	60.7	16.4	53.1	56.6	26.7	47.1	53.6	51.8	46.0
10	10	5,704.3	62.7	18.5	59.2	60.0	38.5	54.5	57.2	54.9	52.5
11	11	6,325.8	62.7	19.6	56.4	61.2	44.5	58.4	58.3	53.7	54.0
12	12	7,039.3	59.1	21.0	55.1	59.5	48.1	56.4	57.5	51.9	56.8
13	13	7,665.1	59.6	21.3	56.6	54.1	48.5	52.5	59.5	53.3	56.8
14	14	8,181.5	61.5	17.9	52.6	55.6	46.1	52.1	59.4	50.7	52.3
15	15	8,410.2	56.2	17.2	47.5	49.4	41.9	49.0	52.8	45.5	45.9
16	16	8,600.2	51.0	15.3	45.7	43.3	30.5	40.4	48.3	38.1	43.9
17	17	8,713.2	42.8	11.0	40.0	35.7	19.3	33.0	40.3	30.4	34.3
18	18	8,723.2	28.9	7.2	28.9	27.1	8.5	21.4	27.7	21.7	27.3
19	19	8,497.7	10.4	2.1	12.6	10.9	2.5	8.3	10.2	8.3	15.5
20	20	8,109.1	0.5	0.0	0.6	0.5	0.1	0.4	0.5	0.3	1.5
21	21	7,758.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	7,274.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	6,670.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	5,932.5	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, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	18,921	34.0%	0.4%	4,818,280
1	LAKE PLACID	45.0	5,606	16.7%	0.1%	
1	TRENTON	74.9	17,307	31.1%	0.4%	
1	COLUMBIA	74.9	17,532	31.5%	0.4%	
1	DEBARY	74.5	11,505	20.8%	0.2%	
1	SANTA FE	74.9	15,823	28.4%	0.3%	
1	TWIN RIVERS	74.9	17,834	32.0%	0.4%	
1	DUETTE	74.5	15,674	28.3%	0.3%	
1	SANDY CREEK	74.9	16,179	29.0%	0.3%	
1	CHARLIE CREEK	74.9	17,839	32.0%	0.4%	
2	Total:	718.3	154,220.0	28.9%	3.2%	

	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	145,009	\$4.22	3,039	\$109.00	949	\$62.50
3	LAKE PLACID	42,964	\$4.22	900	\$109.00	281	\$62.50
3	TRENTON	132,640	\$4.22	2,779	\$109.00	868	\$62.50
3	COLUMBIA	134,364	\$4.22	2,815	\$109.00	879	\$62.50
3	DEBARY	88,174	\$4.22	1,848	\$109.00	577	\$62.50
3	SANTA FE	121,267	\$4.22	2,541	\$109.00	794	\$62.50
3	TWIN RIVERS	136,679	\$4.22	2,864	\$109.00	894	\$62.50
3	DUETTE	120,125	\$4.22	2,517	\$109.00	786	\$62.50
3	SANDY CREEK	123,995	\$4.22	2,598	\$109.00	811	\$62.50
3	CHARLIE CREEK	136,717	\$4.22	2,865	\$109.00	895	\$62.50
4	Total:	1,181,933	\$4,988,454	24,766	\$2,699,630	7,735	\$483,467

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	12,133	17	2	0
5	LAKE PLACID	3,595	5	1	0
5	TRENTON	11,098	16	2	0
5	COLUMBIA	11,242	16	2	0
5	DEBARY	7,377	10	1	0
5	SANTA FE	10,146	14	2	0
5	TWIN RIVERS	11,436	16	2	0
5	DUETTE	10,051	14	2	0
5	SANDY CREEK	10,374	15	2	0
5	CHARLIE CREEK	11,439	16	2	0
6	Total:	98,891	140	20	1

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	224,742	\$585,627	\$423,828	\$16,388	\$0	\$1,025,843
7	LAKE PLACID	(108,672)	\$266,723	\$261,334	\$8,683	\$0	\$536,740
7	TRENTON	88,440	\$538,494	\$231,086	\$17,550	\$0	\$787,130
7	COLUMBIA	557,629	\$596,456	\$246,589	\$17,645	\$0	\$860,691
7	DEBARY	91,227	\$489,665	\$202,712	\$14,286	\$0	\$706,664
7	SANTA FE	48,806	\$606,610	\$241,559	\$17,384	\$0	\$865,554
7	TWIN RIVERS	80,421	\$558,110	\$366,688	\$15,572	\$0	\$940,370
7	DUETTE	45,384	\$552,361	\$482,400	\$20,420	\$0	\$1,055,181
7	SANDY CREEK	143,207	\$539,320	\$483,042	\$16,083	\$0	\$1,038,445
7	CHARLIE CREEK	393,456	\$577,075	\$366,052	\$21,047	\$0	\$964,175
8	Total:	\$1,564,640	\$5,310,441	\$3,305,292	\$165,058	\$0	\$8,780,791

Notes: Lake Placid lease journal entry

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

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	113,593	29.8%	0.4%	26,293,078
1	LAKE PLACID	45.0	37,493	16.4%	0.1%	
1	TRENTON	74.9	109,205	28.7%	0.4%	
1	COLUMBIA	74.9	97,541	25.6%	0.4%	
1	DEBARY	74.5	75,465	19.9%	0.3%	
1	SANTA FE	74.9	99,233	26.0%	0.4%	
1	TWIN RIVERS	74.9	104,517	27.4%	0.4%	
1	DUETTE	74.5	104,961	27.7%	0.4%	
1	SANDY CREEK	74.9	101,909	26.7%	0.4%	
1	CHARLIE CREEK	74.9	109,600	28.8%	0.4%	
2	Total:	718.3	953,517	26.1%	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	828,119	\$4.14	9,924	\$101.87	5,246	\$62.79
3	LAKE PLACID	273,589	\$4.15	3,072	\$101.77	1,680	\$62.63
3	TRENTON	799,264	\$4.12	9,638	\$101.52	5,090	\$62.76
3	COLUMBIA	711,957	\$4.15	8,440	\$102.09	4,385	\$62.56
3	DEBARY	547,300	\$4.19	6,147	\$102.04	3,325	\$62.89
3	SANTA FE	724,948	\$4.12	8,775	\$101.55	4,608	\$62.73
3	TWIN RIVERS	762,888	\$4.13	9,280	\$101.87	4,891	\$62.73
3	DUETTE	766,005	\$4.14	8,867	\$101.58	4,747	\$62.74
3	SANDY CREEK	744,223	\$4.13	8,957	\$101.64	4,749	\$62.84
3	CHARLIE CREEK	802,061	\$4.13	9,459	\$101.70	4,949	\$62.78
4	Total:	6,960,353	\$28,819,689	82,559	\$8,401.416	43,670	\$2,740,090

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	65,505	59	10	0
5	LAKE PLACID	21,437	19	3	0
5	TRENTON	63,305	57	10	0
5	COLUMBIA	56,020	51	9	0
5	DEBARY	42,813	37	6	0
5	SANTA FE	57,416	52	9	0
5	TWIN RIVERS	60,527	55	10	0
5	DUETTE	60,234	53	9	0
5	SANDY CREEK	58,958	53	9	0
5	CHARLIE CREEK	63,106	57	10	0
6	Total:	549,322	494	86	4

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	1,008,110	\$4,151,410	\$2,187,273	\$114,716	\$0	\$6,453,398
7	LAKE PLACID	597,382	\$1,900,734	\$1,177,607	\$60,781	\$0	\$3,139,122
7	TRENTON	991,521	\$3,823,513	\$1,631,461	\$122,850	\$0	\$5,577,824
7	COLUMBIA	1,079,591	\$4,213,141	\$1,723,896	\$123,515	\$0	\$6,060,552
7	DEBARY	416,027	\$3,456,694	\$1,418,402	\$100,002	\$0	\$4,975,098
7	SANTA FE	275,399	\$4,297,280	\$1,695,616	\$121,688	\$0	\$6,114,584
7	TWIN RIVERS	716,575	\$3,950,000	\$1,873,158	\$109,004	\$0	\$5,932,163
7	DUETTE	357,098	\$3,928,587	\$2,797,379	\$142,940	\$0	\$6,868,906
7	SANDY CREEK	1,222,497	\$3,919,737	\$2,189,741	\$112,581	\$0	\$6,222,059
7	CHARLIE CREEK	1,067,595	\$4,143,000	\$1,894,138	\$147,329	\$0	\$6,184,467
8		\$7,731,795.00	\$37,784,097	\$18,588,671	\$1,155,406	\$0	\$57,528,174

Notes: