



Stephanie A. Cuello
SENIOR COUNSEL

July 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 June 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 July, 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
June, 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	4,567.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,185.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	3,921.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	3,752.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	3,695.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	3,788.1	0.5	0.0	0.4	0.4	0.3	0.2	0.2	0.0	0.3
7	7	4,000.6	15.0	3.9	16.6	16.8	4.1	13.4	13.9	12.5	10.3
8	8	4,180.5	41.6	11.2	42.1	31.0	14.4	35.1	37.7	39.3	36.5
9	9	4,564.5	52.4	15.1	54.5	36.0	26.3	45.9	48.8	48.9	49.7
10	10	5,008.8	57.9	17.2	58.0	34.1	37.4	48.7	54.7	54.3	49.6
11	11	5,432.8	60.1	18.9	52.9	35.3	43.6	49.4	56.6	55.3	53.5
12	12	6,009.5	57.8	19.9	54.0	35.6	44.9	49.3	55.7	55.7	52.1
13	13	6,548.8	55.9	19.7	50.5	36.9	46.5	48.8	51.5	54.5	53.0
14	14	7,016.9	47.5	19.8	50.6	35.9	42.4	48.0	43.2	50.5	51.0
15	15	7,374.7	41.9	19.1	50.2	32.9	37.6	43.7	39.5	44.9	48.3
16	16	7,647.6	43.0	15.4	49.0	33.8	29.0	40.9	40.4	38.9	48.8
17	17	7,818.2	41.6	9.9	41.4	29.4	19.0	29.7	37.5	29.1	40.9
18	18	7,869.4	33.6	6.2	31.3	22.4	8.3	20.4	30.3	21.0	31.9
19	19	7,674.4	13.8	1.8	11.8	12.5	2.8	9.6	12.5	6.0	14.2
20	20	7,298.3	0.6	0.0	0.8	0.5	0.1	0.3	0.7	0.3	0.8
21	21	6,951.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	6,521.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	5,881.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	5,170.0	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:
June, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	16,902	31.3%	0.4%	4,418,790
1	LAKE PLACID	45.0	5,344	16.5%	0.1%	
1	TRENTON	74.9	16,920	31.4%	0.4%	
1	COLUMBIA	74.9	11,810	21.9%	0.3%	
1	DEBARY	74.5	10,703	20.0%	0.2%	
1	SANTA FE	74.9	14,504	26.9%	0.3%	
1	TWIN RIVERS	74.9	15,699	29.1%	0.4%	
1	DUETTE	74.5	15,335	28.6%	0.3%	
1	SANDY CREEK	74.9	16,219	30.1%	0.4%	
1	CHARLIE CREEK	74.9	15,998	29.7%	0.4%	
2	Total:	718.3	139,434.0	27.0%	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	122,370	\$4.14	1,436	\$102.48	1,392	\$65.47
3	LAKE PLACID	38,690	\$4.14	454	\$102.48	440	\$65.47
3	TRENTON	122,500	\$4.14	1,438	\$102.48	1,393	\$65.47
3	COLUMBIA	85,504	\$4.14	1,004	\$102.48	973	\$65.47
3	DEBARY	77,490	\$4.14	910	\$102.48	881	\$65.47
3	SANTA FE	105,009	\$4.14	1,233	\$102.48	1,194	\$65.47
3	TWIN RIVERS	113,660	\$4.14	1,334	\$102.48	1,293	\$65.47
3	DUETTE	111,025	\$4.14	1,303	\$102.48	1,263	\$65.47
3	SANDY CREEK	117,425	\$4.14	1,378	\$102.48	1,336	\$65.47
3	CHARLIE CREEK	115,825	\$4.14	1,360	\$102.48	1,317	\$65.47
4	Total:	1,009,500	\$4,176,936	11,850	\$1,214,350	11,482	\$751,746

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	10,918	10	2	0
5	LAKE PLACID	3,452	3	1	0
5	TRENTON	10,929	10	2	0
5	COLUMBIA	7,629	7	1	0
5	DEBARY	6,914	6	1	0
5	SANTA FE	9,369	8	2	0
5	TWIN RIVERS	10,141	9	2	0
5	DUETTE	9,906	9	2	0
5	SANDY CREEK	10,477	9	2	0
5	CHARLIE CREEK	10,334	9	2	0
6	Total:	90,067	80	17	1

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	103,896	\$588,573	\$419,334	\$16,388	\$0	\$1,024,295
7	LAKE PLACID	263,085	\$268,547	\$256,903	\$8,683	\$0	\$534,133
7	TRENTON	130,409	\$540,935	\$231,086	\$17,550	\$0	\$789,572
7	COLUMBIA	80,993	\$598,257	\$246,589	\$17,645	\$0	\$862,491
7	DEBARY	42,754	\$494,691	\$202,712	\$14,286	\$0	\$711,689
7	SANTA FE	48,518	\$609,652	\$241,559	\$17,384	\$0	\$868,595
7	TWIN RIVERS	98,642	\$560,703	\$362,257	\$15,572	\$0	\$938,532
7	DUETTE	58,216	\$558,906	\$477,968	\$20,420	\$0	\$1,057,294
7	SANDY CREEK	(304,028)	\$543,855	\$478,611	\$16,083	\$0	\$1,038,549
7	CHARLIE CREEK	91,410	\$579,703	\$361,621	\$21,047	\$0	\$962,370
8	Total:	\$613,895	\$5,343,822	\$3,278,640	\$165,058	\$0	\$8,787,521

Notes: Sandy Creek lease journal entry

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

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	94,672	29.1%	0.4%	21,474,798
1	LAKE PLACID	45.0	31,887	16.3%	0.1%	
1	TRENTON	74.9	91,898	28.2%	0.4%	
1	COLUMBIA	74.9	80,009	24.6%	0.4%	
1	DEBARY	74.5	63,960	19.8%	0.3%	
1	SANTA FE	74.9	83,410	25.6%	0.4%	
1	TWIN RIVERS	74.9	86,683	26.6%	0.4%	
1	DUETTE	74.5	89,287	27.6%	0.4%	
1	SANDY CREEK	74.9	85,730	26.3%	0.4%	
1	CHARLIE CREEK	74.9	91,761	28.2%	0.4%	
2	Total:	718.3	799,297	25.6%	3.7%	

	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	683,109	\$4.13	6,886	\$98.73	4,297	\$62.86
3	LAKE PLACID	230,625	\$4.14	2,172	\$98.77	1,398	\$62.65
3	TRENTON	666,625	\$4.09	6,859	\$98.49	4,222	\$62.81
3	COLUMBIA	577,593	\$4.13	5,624	\$98.63	3,506	\$62.58
3	DEBARY	459,126	\$4.19	4,299	\$99.05	2,748	\$62.97
3	SANTA FE	603,682	\$4.10	6,234	\$98.52	3,814	\$62.78
3	TWIN RIVERS	626,209	\$4.11	6,416	\$98.68	3,996	\$62.79
3	DUETTE	645,880	\$4.13	6,350	\$98.64	3,961	\$62.79
3	SANDY CREEK	620,228	\$4.11	6,358	\$98.63	3,938	\$62.91
3	CHARLIE CREEK	665,343	\$4.11	6,594	\$98.52	4,054	\$62.84
4	Total:	5,778,420	\$23,834,572	\$7,792	\$5,702,068	35,935	\$2,256,595

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	53,373	42	8	0
5	LAKE PLACID	17,843	14	3	0
5	TRENTON	52,208	42	8	0
5	COLUMBIA	44,778	35	6	0
5	DEBARY	35,436	27	5	0
5	SANTA FE	47,270	38	7	0
5	TWIN RIVERS	49,091	39	7	0
5	DUETTE	50,184	39	7	0
5	SANDY CREEK	48,583	39	7	0
5	CHARLIE CREEK	51,667	41	8	0
6	Total:	450,431	354	67	3

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	783,368	\$3,565,783	\$1,763,445	\$98,328	\$0	\$5,427,556
7	LAKE PLACID	706,053	\$1,634,011	\$916,273	\$52,098	\$0	\$2,602,382
7	TRENTON	903,082	\$3,285,019	\$1,400,375	\$105,300	\$0	\$4,790,694
7	COLUMBIA	521,961	\$3,616,684	\$1,477,307	\$105,870	\$0	\$5,199,861
7	DEBARY	324,800	\$2,967,029	\$1,215,690	\$85,716	\$0	\$4,268,435
7	SANTA FE	226,593	\$3,690,670	\$1,454,056	\$104,304	\$0	\$5,249,030
7	TWIN RIVERS	636,154	\$3,391,890	\$1,506,470	\$93,432	\$0	\$4,991,792
7	DUETTE	311,714	\$2,820,598	\$2,314,979	\$122,520	\$0	\$5,258,098
7	SANDY CREEK	1,079,290	\$3,380,418	\$1,706,699	\$96,498	\$0	\$5,183,614
7	CHARLIE CREEK	674,139	\$3,565,925	\$1,528,086	\$126,282	\$0	\$5,220,293
8		\$6,167,154.00	\$31,918,028	\$15,283,380	\$990,348	\$0	\$48,191,756

Notes: