



Stephanie A. Cuello
SENIOR COUNSEL

May 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 April 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 May, 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
April, 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	6.6	1.4	6.6	6.2	2.3	5.8	5.8	5.5	2.7
8	8	3,827.5	41.2	12.1	41.5	33.5	12.6	33.7	38.3	34.2	23.3
9	9	3,985.4	59.7	19.9	60.0	49.3	27.1	50.4	56.8	52.6	40.7
10	10	3,979.0	64.8	22.2	65.7	58.9	38.8	59.1	63.3	58.0	51.4
11	11	3,954.5	66.6	22.8	67.0	64.2	45.7	62.8	65.7	60.0	56.7
12	12	4,020.7	65.8	24.0	66.2	64.2	49.8	63.0	64.7	60.9	58.0
13	13	4,116.5	64.3	24.5	65.2	64.9	49.7	63.5	62.0	64.1	59.0
14	14	4,227.4	63.0	25.1	64.0	62.9	46.7	62.4	62.5	65.1	61.1
15	15	4,379.5	61.0	24.6	62.9	59.3	43.0	57.8	59.7	64.8	62.7
16	16	4,598.2	56.6	24.2	59.7	53.7	35.1	56.2	54.2	62.7	60.5
17	17	4,852.0	53.1	21.0	55.4	45.6	22.9	45.9	51.0	54.5	56.0
18	18	5,072.0	36.4	13.4	37.1	30.2	10.1	29.9	34.0	32.8	38.6
19	19	5,128.3	6.3	2.0	6.4	5.4	1.2	5.2	6.3	4.3	9.3
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:
April, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	19,362	35.9%	0.6%	3,489,849
1	LAKE PLACID	45.0	7,117	22.0%	0.2%	
1	TRENTON	74.9	19,733	36.6%	0.6%	
1	COLUMBIA	74.9	17,950	33.3%	0.5%	
1	DEBARY	74.5	11,546	21.5%	0.3%	
1	SANTA FE	74.9	17,871	33.1%	0.5%	
1	TWIN RIVERS	74.9	18,728	34.7%	0.5%	
1	DUETTE	74.5	18,582	34.6%	0.5%	
1	SANDY CREEK	74.9	17,396	32.3%	0.5%	
1	CHARLIE CREEK	74.9	18,616	34.5%	0.5%	
2	Total:	718.3	166,901.0	32.3%	4.8%	

	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	143,647	\$3.68	1,550	\$97.67	1,293	\$58.75
3	LAKE PLACID	52,801	\$3.68	570	\$97.67	475	\$58.75
3	TRENTON	146,399	\$3.68	1,579	\$97.67	1,317	\$58.75
3	COLUMBIA	133,171	\$3.68	1,437	\$97.67	1,198	\$58.75
3	DEBARY	85,660	\$3.68	924	\$97.67	771	\$58.75
3	SANTA FE	132,585	\$3.68	1,430	\$97.67	1,193	\$58.75
3	TWIN RIVERS	138,943	\$3.68	1,499	\$97.67	1,250	\$58.75
3	DUETTE	137,860	\$3.68	1,487	\$97.67	1,241	\$58.75
3	SANDY CREEK	129,061	\$3.68	1,392	\$97.67	1,161	\$58.75
3	CHARLIE CREEK	138,112	\$3.68	1,490	\$97.67	1,243	\$58.75
4	Total:	1,238,237	\$4,558,385	13,358	\$1,304,765	11,143	\$654,587

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	12,060	10	2	0
5	LAKE PLACID	4,433	4	1	0
5	TRENTON	12,291	10	2	0
5	COLUMBIA	11,181	9	2	0
5	DEBARY	7,192	6	1	0
5	SANTA FE	11,132	9	2	0
5	TWIN RIVERS	11,665	10	2	0
5	DUETTE	11,574	9	2	0
5	SANDY CREEK	10,836	9	2	0
5	CHARLIE CREEK	11,596	9	2	0
6	Total:	103,960	85	18	1

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	128,401	\$593,734	\$260,407	\$16,388	\$0	\$870,529
7	LAKE PLACID	87,424	\$270,298	\$143,624	\$8,683	\$0	\$422,605
7	TRENTON	87,798	\$547,778	\$234,118	\$17,550	\$0	\$799,445
7	COLUMBIA	85,486	\$635,964	\$245,602	\$17,645	\$0	\$899,211
7	DEBARY	146,631	\$500,915	\$201,978	\$14,286	\$0	\$717,179
7	SANTA FE	39,418	\$614,758	\$241,999	\$17,384	\$0	\$874,140
7	TWIN RIVERS	118,286	\$616,386	\$222,676	\$15,572	\$0	\$854,634
7	DUETTE	51,638	\$569,745	\$365,613	\$20,420	\$0	\$955,777
7	SANDY CREEK	158,411	\$567,600	\$231,149	\$16,083	\$0	\$814,831
7	CHARLIE CREEK	98,090	\$599,062	\$227,846	\$21,047	\$0	\$847,955
8	Total:	\$1,001,583	\$5,516,238	\$2,375,012	\$165,058	\$0	\$8,056,307

Notes:

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

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	59,514	27.6%	0.5%	12,785,673
1	LAKE PLACID	45.0	21,213	16.4%	0.2%	
1	TRENTON	74.9	56,394	26.1%	0.4%	
1	COLUMBIA	74.9	53,398	24.8%	0.4%	
1	DEBARY	74.5	42,207	19.7%	0.3%	
1	SANTA FE	74.9	51,823	24.0%	0.4%	
1	TWIN RIVERS	74.9	54,116	25.1%	0.4%	
1	DUETTE	74.5	57,140	26.6%	0.4%	
1	SANDY CREEK	74.9	52,399	24.3%	0.4%	
1	CHARLIE CREEK	74.9	57,776	26.8%	0.5%	
2	Total:	718.3	505,980	24.5%	4.0%	

	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	420,562	\$4.35	2,168	\$101.21	1,977	\$60.62
3	LAKE PLACID	151,009	\$4.32	760	\$100.73	687	\$60.44
3	TRENTON	401,428	\$4.31	2,081	\$100.63	1,884	\$60.40
3	COLUMBIA	378,440	\$4.33	1,961	\$100.97	1,781	\$60.53
3	DEBARY	296,790	\$4.41	1,404	\$101.92	1,305	\$60.97
3	SANTA FE	367,503	\$4.32	1,932	\$100.88	1,751	\$60.48
3	TWIN RIVERS	383,029	\$4.33	2,050	\$101.00	1,846	\$60.48
3	DUETTE	405,766	\$4.34	2,025	\$100.94	1,844	\$60.54
3	SANDY CREEK	371,410	\$4.34	1,905	\$100.99	1,733	\$60.54
3	CHARLIE CREEK	411,407	\$4.33	2,002	\$100.80	1,823	\$60.50
4	Total:	3,587,343	\$15,560,515	18,287	\$1,847.093	16,630	\$1,006,986

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	30,546	17	3	0
5	LAKE PLACID	10,914	6	1	0
5	TRENTON	29,155	16	3	0
5	COLUMBIA	27,494	15	3	0
5	DEBARY	21,314	11	2	0
5	SANTA FE	26,758	15	3	0
5	TWIN RIVERS	27,947	16	3	0
5	DUETTE	29,311	16	3	0
5	SANDY CREEK	26,944	15	3	0
5	CHARLIE CREEK	29,600	16	3	0
6	Total:	259,983	142	26	2

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	558,081	\$2,388,360	\$1,041,637	\$65,552	\$0	\$3,495,549
7	LAKE PLACID	355,259	\$1,092,997	\$510,216	\$34,732	\$0	\$1,637,945
7	TRENTON	997,381	\$2,201,021	\$936,249	\$70,200	\$0	\$3,207,470
7	COLUMBIA	364,716	\$2,554,753	\$982,425	\$70,580	\$0	\$3,607,758
7	DEBARY	306,181	\$2,010,689	\$807,906	\$57,144	\$0	\$2,875,738
7	SANTA FE	140,921	\$2,469,658	\$967,995	\$69,536	\$0	\$3,507,189
7	TWIN RIVERS	441,675	\$2,475,302	\$890,705	\$62,288	\$0	\$3,428,295
7	DUETTE	200,939	\$2,294,844	\$1,467,459	\$81,680	\$0	\$3,843,983
7	SANDY CREEK	736,015	\$2,279,824	\$924,577	\$64,332	\$0	\$3,268,733
7	CHARLIE CREEK	452,273	\$2,406,450	\$911,385	\$84,188	\$0	\$3,402,022
8		\$4,553,441.00	\$22,173,898	\$9,440,553	\$660,232	\$0	\$32,274,683

Notes: