



Stephanie A. Cuello
SENIOR COUNSEL

September 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 August 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 September, 2025.

/s/ Stephanie A. Cuello

Attorney

Adria Harper / Jacob Imig / Carlos Marquez Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 aharper@psc.state.fl.us jimig@psc.state.fl.us cmarquez@psc.state.fl.us J. Wahlen / M. Means / V. Ponder Ausley McMullen Tampa Electric Company P.O. Box 391 Tallahassee, FL 32302 jwahlen@ausley.com mmeans@ausley.com vponder@ausley.com Jon C. Moyle, Jr. Moyle Law Firm, P.A. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com Maria Jose Moncada / Joel T. Baker Florida Power & Light Company 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 maria.moncada@fpl.com joel.baker@fpl.com Kenneth A. Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 ken.hoffman@fpl.com	W. Trierweiler / P. Christensen / C. Rehwinkel / M. Wessling / O. Ponce / A. Watrous Office of Public Counsel 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 Trierweiler.walt@leg.state.fl.us christensen.patty@leg.state.fl.us rehwinkel.charles@leg.state.fl.us wessling.mary@leg.state.fl.us ponce.octavio@leg.state.fl.us watrous.austin@leg.state.fl.us Paula K. Brown Tampa Electric Company Regulatory Affairs P.O. Box 111 Tampa, FL 33601 regdept@tecoenergy.com James W. Brew / Laura Wynn Baker / Sarah B. Newman Stone Mattheis Xenopoulos & Brew, P.C. PCS Phosphate –White Springs 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 jbrew@smxblaw.com lwb@smxblaw.com sbn@smxblaw.com Peter J. Mattheis / Michael K. Lavanga / Joseph R. Briscar Stone Mattheis Xenopoulos & Brew, PC NUCOR 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 pjm@smxblaw.com mkl@smxblaw.com jrb@smxblaw.com
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Duke Energy Florida, LLC
Actual Data for Solar Generation Facilities
Solar Base Rate Adjustment (SoBRA) Reporting
August, 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	5,149.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,782.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	4,522.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	4,354.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	4,304.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	4,390.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	4,573.5	5.7	3.1	5.3	5.7	2.1	4.6	4.2	5.5	2.7
8	8	4,696.7	29.7	19.2	31.9	31.0	12.7	27.9	24.3	31.4	21.9
9	9	5,091.1	44.5	27.2	47.7	47.0	27.7	44.2	37.5	44.6	33.9
10	10	5,614.5	50.4	28.0	50.7	52.4	39.3	49.1	44.7	50.2	38.5
11	11	6,189.5	53.6	27.2	53.5	54.6	48.2	52.0	48.9	49.9	43.0
12	12	6,829.9	51.7	27.2	49.4	55.9	50.8	55.6	48.9	50.0	51.0
13	13	7,348.7	51.9	30.6	51.9	51.5	46.5	50.9	47.5	50.8	47.3
14	14	7,721.8	49.6	31.4	53.6	55.9	40.4	52.8	47.0	49.4	46.0
15	15	7,879.7	47.2	26.1	50.1	51.5	35.9	51.6	44.5	45.3	45.6
16	16	8,048.3	39.5	19.0	46.1	47.5	26.1	47.2	34.5	32.0	40.9
17	17	8,099.8	31.7	13.2	39.5	36.7	21.4	35.0	26.9	21.8	35.4
18	18	8,084.6	20.1	7.5	25.2	22.6	9.7	21.9	16.2	15.5	26.0
19	19	7,865.2	4.7	1.8	5.5	5.3	1.4	4.5	4.2	2.7	9.5
20	20	7,484.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.2
21	21	7,191.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	6,775.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	6,266.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	5,612.7	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:
August, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	14,892	26.7%	0.3%	4,595,311
1	LAKE PLACID	45.0	8,111	24.2%	0.2%	
1	TRENTON	74.9	15,825	28.4%	0.3%	
1	COLUMBIA	74.9	16,050	28.8%	0.3%	
1	DEBARY	74.5	11,224	20.2%	0.2%	
1	SANTA FE	74.9	15,420	27.7%	0.3%	
1	TWIN RIVERS	74.9	13,313	23.9%	0.3%	
1	DUETTE	74.5	13,925	25.1%	0.3%	
1	SANDY CREEK	74.9	13,696	24.6%	0.3%	
1	CHARLIE CREEK	74.9	16,443	29.5%	0.4%	
2	Total:	718.3	138,899.0	26.0%	3.0%	

	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	108,406	\$3.74	529	\$103.97	1,144	\$52.61
3	LAKE PLACID	59,044	\$3.74	288	\$103.97	623	\$52.61
3	TRENTON	115,198	\$3.74	562	\$103.97	1,216	\$52.61
3	COLUMBIA	116,836	\$3.74	570	\$103.97	1,233	\$52.61
3	DEBARY	81,705	\$3.74	399	\$103.97	862	\$52.61
3	SANTA FE	112,250	\$3.74	548	\$103.97	1,184	\$52.61
3	TWIN RIVERS	96,912	\$3.74	473	\$103.97	1,023	\$52.61
3	DUETTE	101,367	\$3.74	495	\$103.97	1,070	\$52.61
3	SANDY CREEK	99,700	\$3.74	486	\$103.97	1,052	\$52.61
3	CHARLIE CREEK	119,697	\$3.74	584	\$103.97	1,263	\$52.61
4	Total:	1,011,115	\$3,785,181	4,934	\$512,946	10,669	\$561,346

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	9,148	5	1	0
5	LAKE PLACID	4,982	3	1	0
5	TRENTON	9,721	5	1	0
5	COLUMBIA	9,859	5	1	0
5	DEBARY	6,895	4	1	0
5	SANTA FE	9,472	5	1	0
5	TWIN RIVERS	8,178	4	1	0
5	DUETTE	8,554	5	1	0
5	SANDY CREEK	8,413	5	1	0
5	CHARLIE CREEK	10,100	5	1	0
6	Total:	85,321	46	12	1

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	170,600	\$579,565	\$258,957	\$16,388	\$0	\$854,910
7	LAKE PLACID	142,452	\$264,937	\$118,802	\$8,683	\$0	\$392,222
7	TRENTON	138,102	\$536,761	\$231,096	\$17,550	\$0	\$785,407
7	COLUMBIA	(367,922)	\$594,656	\$246,589	\$17,645	\$0	\$858,890
7	DEBARY	(4,308)	\$488,058	\$202,579	\$14,286	\$0	\$704,922
7	SANTA FE	92,050	\$604,964	\$222,601	\$17,384	\$0	\$844,950
7	TWIN RIVERS	105,839	\$557,396	\$223,987	\$15,572	\$0	\$796,955
7	DUETTE	56,305	\$549,249	\$231,504	\$20,420	\$0	\$801,173
7	SANDY CREEK	268,192	\$541,733	\$209,855	\$16,083	\$0	\$767,672
7	CHARLIE CREEK	(181,099)	\$574,011	\$223,351	\$21,047	\$0	\$818,408
8	Total:	\$420,211	\$5,291,329	\$2,169,123	\$165,058	\$0	\$7,625,510

Notes: Columbia, Charlie Creek - Lease / Debary - Material correction

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

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	128,485	29.4%	0.4%	30,888,389
1	LAKE PLACID	45.0	45,604	17.4%	0.1%	
1	TRENTON	74.9	125,030	28.6%	0.4%	
1	COLUMBIA	74.9	113,591	26.0%	0.4%	
1	DEBARY	74.5	86,689	20.0%	0.3%	
1	SANTA FE	74.9	114,653	26.2%	0.4%	
1	TWIN RIVERS	74.9	117,830	27.0%	0.4%	
1	DUETTE	74.5	118,886	27.4%	0.4%	
1	SANDY CREEK	74.9	115,605	26.5%	0.4%	
1	CHARLIE CREEK	74.9	126,043	28.9%	0.4%	
2	Total:	718.3	1,092,416	26.1%	3.5%	

	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	936,525	\$4.10	10,453	\$101.98	6,390	\$60.97
3	LAKE PLACID	332,633	\$4.08	3,360	\$101.95	2,303	\$59.92
3	TRENTON	914,463	\$4.07	10,200	\$101.66	6,306	\$60.80
3	COLUMBIA	828,793	\$4.09	9,010	\$102.21	5,618	\$60.38
3	DEBARY	629,005	\$4.13	6,545	\$102.16	4,187	\$60.77
3	SANTA FE	837,198	\$4.07	9,323	\$101.70	5,792	\$60.66
3	TWIN RIVERS	859,800	\$4.09	9,753	\$101.97	5,913	\$60.98
3	DUETTE	867,372	\$4.09	9,362	\$101.71	5,817	\$60.88
3	SANDY CREEK	843,923	\$4.08	9,443	\$101.76	5,801	\$60.99
3	CHARLIE CREEK	921,757	\$4.08	10,043	\$101.83	6,212	\$60.71
4	Total:	7,971,469	\$32,593,742	87,492	\$8,914,749	54,339	\$3,298,745

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	74,653	64	12	1
5	LAKE PLACID	26,420	21	4	0
5	TRENTON	73,026	63	11	1
5	COLUMBIA	65,879	56	10	1
5	DEBARY	49,708	41	7	0
5	SANTA FE	66,888	57	10	1
5	TWIN RIVERS	68,704	60	11	1
5	DUETTE	68,788	58	11	1
5	SANDY CREEK	67,371	58	11	1
5	CHARLIE CREEK	73,207	62	11	1
6	Total:	634,643	540	98	5

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	1,178,710	\$4,724,679	\$2,081,105	\$131,104	\$0	\$6,936,888
7	LAKE PLACID	739,833	\$2,164,105	\$986,559	\$69,464	\$0	\$3,220,129
7	TRENTON	1,129,623	\$4,360,242	\$1,862,557	\$140,400	\$0	\$6,363,200
7	COLUMBIA	711,669	\$4,807,797	\$1,970,486	\$141,160	\$0	\$6,919,442
7	DEBARY	411,719	\$3,944,752	\$1,620,981	\$114,288	\$0	\$5,680,021
7	SANTA FE	367,449	\$4,902,245	\$1,861,343	\$139,072	\$0	\$6,902,660
7	TWIN RIVERS	822,414	\$4,518,326	\$1,787,495	\$124,576	\$0	\$6,430,398
7	DUETTE	413,403	\$4,475,568	\$2,611,040	\$163,360	\$0	\$7,249,968
7	SANDY CREEK	1,490,688	\$4,467,914	\$1,698,321	\$128,664	\$0	\$6,294,899
7	CHARLIE CREEK	886,497	\$4,714,924	\$1,807,839	\$168,376	\$0	\$6,691,139
8		\$8,152,005.00	\$43,080,552	\$18,287,727	\$1,320,464	\$0	\$62,688,743

Notes: