



Stephanie A. Cuello
SENIOR COUNSEL

October 23, 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 September 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 23rd day of October, 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
September, 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	4,608.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,273.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	4,032.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	3,885.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	3,854.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	3,963.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	4,180.2	2.6	1.3	2.3	3.6	1.2	2.4	2.1	2.0	1.4
8	8	4,305.4	29.7	11.3	29.0	31.8	11.7	28.8	28.0	24.8	26.6
9	9	4,537.1	52.4	19.6	52.1	48.7	27.9	50.4	48.5	46.4	53.6
10	10	4,908.7	56.3	21.3	57.4	55.4	39.9	56.3	52.7	55.4	61.2
11	11	5,364.1	59.1	22.0	55.5	54.7	46.0	56.0	55.1	52.4	61.6
12	12	5,853.6	59.0	22.1	55.5	51.8	43.8	54.2	55.2	49.8	62.2
13	13	6,364.1	57.5	21.5	52.9	51.6	41.7	52.4	53.2	47.9	61.2
14	14	6,792.4	55.0	19.9	53.6	50.9	43.2	53.3	51.3	45.1	61.1
15	15	7,116.8	53.7	17.8	54.8	48.6	37.4	50.5	51.4	40.0	57.2
16	16	7,372.2	50.3	14.2	49.7	43.0	25.7	46.6	47.8	35.5	55.2
17	17	7,523.8	44.7	12.0	38.4	38.6	14.8	38.3	41.9	30.0	48.9
18	18	7,512.0	24.8	4.2	20.2	18.8	5.6	17.5	23.2	14.4	28.7
19	19	7,292.0	2.1	0.2	1.7	1.6	0.3	1.5	2.0	1.3	3.6
20	20	6,941.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	21	6,624.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	6,127.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	5,579.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	5,020.7	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:
September, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	16,417	30.4%	0.4%	4,099,984
1	LAKE PLACID	45.0	5,619	17.3%	0.1%	
1	TRENTON	74.9	15,694	29.1%	0.4%	
1	COLUMBIA	74.9	14,968	27.8%	0.4%	
1	DEBARY	74.5	10,174	19.0%	0.2%	
1	SANTA FE	74.9	15,246	28.3%	0.4%	
1	TWIN RIVERS	74.9	15,371	28.5%	0.4%	
1	DUETTE	74.5	13,346	24.9%	0.3%	
1	SANDY CREEK	74.9	17,481	32.4%	0.4%	
1	CHARLIE CREEK	74.9	13,758	25.5%	0.3%	
2	Total:	718.3	138,074.0	26.7%	3.4%	

	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	101,105	\$3.53	155	\$105.69	2,015	\$50.64
3	LAKE PLACID	34,605	\$3.53	53	\$105.69	690	\$50.64
3	TRENTON	96,652	\$3.53	148	\$105.69	1,926	\$50.64
3	COLUMBIA	92,181	\$3.53	141	\$105.69	1,837	\$50.64
3	DEBARY	62,657	\$3.53	96	\$105.69	1,249	\$50.64
3	SANTA FE	93,893	\$3.53	144	\$105.69	1,871	\$50.64
3	TWIN RIVERS	94,663	\$3.53	145	\$105.69	1,887	\$50.64
3	DUETTE	82,192	\$3.53	126	\$105.69	1,638	\$50.64
3	SANDY CREEK	107,657	\$3.53	165	\$105.69	2,146	\$50.64
3	CHARLIE CREEK	84,729	\$3.53	130	\$105.69	1,689	\$50.64
4	Total:	850,334	\$2,998,107	1,300	\$137,374	16,948	\$858,211

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	10,301	4	2	0
5	LAKE PLACID	3,526	1	1	0
5	TRENTON	9,847	4	2	0
5	COLUMBIA	9,391	4	2	0
5	DEBARY	6,384	3	1	0
5	SANTA FE	9,566	4	2	0
5	TWIN RIVERS	9,644	4	2	0
5	DUETTE	8,374	3	2	0
5	SANDY CREEK	10,968	4	2	0
5	CHARLIE CREEK	8,632	3	2	0
6	Total:	86,633	35	17	2

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	162,204	\$577,694	\$258,959	\$16,388	\$0	\$853,041
7	LAKE PLACID	93,910	\$264,256	\$118,732	\$8,683	\$0	\$391,671
7	TRENTON	110,097	\$535,077	\$231,104	\$17,550	\$0	\$783,732
7	COLUMBIA	114,140	\$592,855	\$246,589	\$17,645	\$0	\$857,090
7	DEBARY	121,211	\$486,580	\$202,579	\$14,286	\$0	\$703,445
7	SANTA FE	45,055	\$603,318	\$222,601	\$17,384	\$0	\$843,304
7	TWIN RIVERS	103,943	\$555,737	\$223,978	\$15,572	\$0	\$795,287
7	DUETTE	58,554	\$547,533	\$231,504	\$20,420	\$0	\$799,457
7	SANDY CREEK	59,989	\$540,216	\$209,874	\$16,083	\$0	\$766,173
7	CHARLIE CREEK	96,532	\$572,341	\$223,351	\$21,047	\$0	\$816,738
8	Total:	\$965,635	\$5,275,608	\$2,169,272	\$165,058	\$0	\$7,609,938

Notes:

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

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	144,902	29.5%	0.4%	34,988,373
1	LAKE PLACID	45.0	51,223	17.4%	0.1%	
1	TRENTON	74.9	140,724	28.7%	0.4%	
1	COLUMBIA	74.9	128,559	26.2%	0.4%	
1	DEBARY	74.5	96,863	19.8%	0.3%	
1	SANTA FE	74.9	129,899	26.5%	0.4%	
1	TWIN RIVERS	74.9	133,201	27.1%	0.4%	
1	DUETTE	74.5	132,232	27.1%	0.4%	
1	SANDY CREEK	74.9	133,086	27.1%	0.4%	
1	CHARLIE CREEK	74.9	139,801	28.5%	0.4%	
2	Total:	718.3	1,230,490	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	1,037,630	\$4.04	10,608	\$102.03	8,405	\$58.49
3	LAKE PLACID	367,238	\$4.02	3,413	\$102.01	2,992	\$57.78
3	TRENTON	1,011,115	\$4.02	10,348	\$101.72	8,232	\$58.42
3	COLUMBIA	920,974	\$4.03	9,151	\$102.26	7,455	\$57.98
3	DEBARY	691,662	\$4.08	6,641	\$102.21	5,436	\$58.44
3	SANTA FE	931,091	\$4.02	9,467	\$101.76	7,664	\$58.21
3	TWIN RIVERS	954,463	\$4.03	9,897	\$102.02	7,800	\$58.48
3	DUETTE	949,564	\$4.04	9,487	\$101.76	7,455	\$58.63
3	SANDY CREEK	951,581	\$4.02	9,608	\$101.83	7,947	\$58.19
3	CHARLIE CREEK	1,006,486	\$4.04	10,173	\$101.88	7,901	\$58.56
4	Total:	8,321,802	\$35,593,167	88,792	\$9,052,144	71,287	\$4,157,424

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	84,954	68	14	1
5	LAKE PLACID	29,945	23	5	0
5	TRENTON	82,873	67	13	1
5	COLUMBIA	75,271	60	12	1
5	DEBARY	56,091	44	9	1
5	SANTA FE	76,454	61	12	1
5	TWIN RIVERS	78,349	64	13	1
5	DUETTE	77,162	61	12	1
5	SANDY CREEK	78,339	62	13	1
5	CHARLIE CREEK	81,839	66	13	1
6	Total:	721,276	575	115	7

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	1,340,913	\$5,302,374	\$2,340,064	\$147,492	\$0	\$7,789,929
7	LAKE PLACID	833,743	\$2,428,361	\$1,105,292	\$78,147	\$0	\$3,611,800
7	TRENTON	1,239,720	\$4,895,320	\$2,093,662	\$157,950	\$0	\$7,146,931
7	COLUMBIA	825,809	\$5,400,652	\$2,217,075	\$158,805	\$0	\$7,776,532
7	DEBARY	532,930	\$4,431,332	\$1,823,560	\$128,574	\$0	\$6,383,466
7	SANTA FE	412,503	\$5,505,563	\$2,083,945	\$156,456	\$0	\$7,745,964
7	TWIN RIVERS	926,357	\$5,074,063	\$2,011,473	\$140,148	\$0	\$7,225,685
7	DUETTE	471,957	\$5,023,101	\$2,842,544	\$183,780	\$0	\$8,049,425
7	SANDY CREEK	1,550,677	\$5,008,130	\$1,908,195	\$144,747	\$0	\$7,061,072
7	CHARLIE CREEK	983,029	\$5,287,265	\$2,031,189	\$189,423	\$0	\$7,507,877
8		\$9,117,638.00	\$48,356,160	\$20,456,998	\$1,485,522	\$0	\$70,298,680

Notes: