



Stephanie A. Cuello  
SENIOR COUNSEL

February 27, 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 January 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 27th day of February, 2025.

/s/ Stephanie A. Cuello

Attorney

<p>Adria Harper / Jacob Imig / Saad Farooqi Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:aharper@psc.state.fl.us">aharper@psc.state.fl.us</a> <a href="mailto:jimig@psc.state.fl.us">jimig@psc.state.fl.us</a> <a href="mailto:sfarooqi@psc.state.fl.us">sfarooqi@psc.state.fl.us</a></p> <p>J. Wahlen / M. Means / V. Ponder Ausley McMullen Tampa Electric Company P.O. Box 391 Tallahassee, FL 32302 <a href="mailto:jwahlen@ausley.com">jwahlen@ausley.com</a> <a href="mailto:mmeans@ausley.com">mmeans@ausley.com</a> <a href="mailto:vponder@ausley.com">vponder@ausley.com</a></p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 <a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a></p> <p>Maria Jose Moncada / Joel T. Baker Florida Power &amp; Light Company 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 <a href="mailto:maria.moncada@fpl.com">maria.moncada@fpl.com</a> <a href="mailto:joel.baker@fpl.com">joel.baker@fpl.com</a></p> <p>Kenneth A. Hoffman Florida Power &amp; Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 <a href="mailto:ken.hoffman@fpl.com">ken.hoffman@fpl.com</a></p>	<p>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 <a href="mailto:Trierweiler.walt@leg.state.fl.us">Trierweiler.walt@leg.state.fl.us</a> <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a> <a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a> <a href="mailto:wessling.mary@leg.state.fl.us">wessling.mary@leg.state.fl.us</a> <a href="mailto:ponce.octavio@leg.state.fl.us">ponce.octavio@leg.state.fl.us</a> <a href="mailto:watrous.austin@leg.state.fl.us">watrous.austin@leg.state.fl.us</a></p> <p>Paula K. Brown Tampa Electric Company Regulatory Affairs P.O. Box 111 Tampa, FL 33601 <a href="mailto:regdept@tecoenergy.com">regdept@tecoenergy.com</a></p> <p>James W. Brew / Laura Wynn Baker / Sarah B. Newman Stone Mattheis Xenopoulos &amp; Brew, P.C. PCS Phosphate –White Springs 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:lwb@smxblaw.com">lwb@smxblaw.com</a> <a href="mailto:sbn@smxblaw.com">sbn@smxblaw.com</a></p> <p>Peter J. Mattheis / Michael K. Lavanga / Joseph R. Briscar Stone Mattheis Xenopoulos &amp; Brew, PC NUCOR 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 <a href="mailto:pjm@smxblaw.com">pjm@smxblaw.com</a> <a href="mailto:mkl@smxblaw.com">mkl@smxblaw.com</a> <a href="mailto:jrb@smxblaw.com">jrb@smxblaw.com</a></p>
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Duke Energy Florida, LLC  
 Actual Data for Solar Generation Facilities  
 Solar Base Rate Adjustment (SoBRA) Reporting  
January, 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	4,211.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	2	4,101.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	3	4,081.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	4	4,134.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	5	4,294.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	6	4,636.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	7	5,179.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	8	5,575.6	1.0	0.6	0.9	1.3	1.0	0.9	0.6	1.6	0.3	2.0
9	9	5,609.1	20.5	6.9	16.9	21.1	10.8	18.1	18.1	19.9	12.2	22.1
10	10	5,386.1	43.9	11.8	34.4	38.0	26.3	36.9	39.6	35.3	29.3	35.8
11	11	5,065.4	48.0	13.0	38.8	41.3	38.4	39.8	43.7	39.2	36.4	39.3
12	12	4,741.1	46.9	14.6	38.1	40.6	44.6	38.5	41.7	42.3	36.1	42.1
13	13	4,538.6	44.9	15.5	37.8	39.4	44.9	37.4	39.4	41.9	37.8	39.9
14	14	4,402.2	42.9	14.5	35.6	37.3	43.7	35.8	37.4	38.6	37.6	36.5
15	15	4,317.9	39.9	13.4	33.0	33.7	36.5	32.5	35.2	36.0	38.2	29.6
16	16	4,379.5	39.4	11.4	31.2	30.1	24.9	30.5	34.3	33.0	36.9	27.7
17	17	4,575.7	34.4	7.9	23.6	22.4	13.1	21.6	29.8	24.2	29.2	20.0
18	18	4,870.2	6.2	1.5	4.6	5.0	2.1	4.6	6.0	4.5	9.1	4.0
19	19	5,241.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	20	5,276.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	21	5,170.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	4,976.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	4,681.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	4,378.0	0.0	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:  
January, 2025

	Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
1	HAMILTON	74.9	11,404	20.5%	0.3%	3,478,004
1	LAKE PLACID	45.0	3,443	10.3%	0.1%	
1	TRENTON	74.9	9,141	16.4%	0.3%	
1	COLUMBIA	74.9	9,613	17.3%	0.3%	
1	DEBARY	74.5	8,876	16.0%	0.3%	
1	SANTA FE	74.9	9,202	16.5%	0.3%	
1	TWIN RIVERS	74.9	10,102	18.1%	0.3%	
1	DUETTE	74.5	9,811	17.7%	0.3%	
1	SANDY CREEK	74.9	9,397	16.9%	0.3%	
1	CHARLIE CREEK	74.9	9,273	16.6%	0.3%	
2	<b>Total:</b>	<b>718.3</b>	<b>90,262.0</b>	<b>16.9%</b>	<b>2.6%</b>	

	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	64,614	\$5.41	583	\$110.66	566	\$63.69
3	LAKE PLACID	19,508	\$5.41	176	\$110.66	171	\$63.69
3	TRENTON	51,792	\$5.41	467	\$110.66	453	\$63.69
3	COLUMBIA	54,466	\$5.41	491	\$110.66	477	\$63.69
3	DEBARY	50,290	\$5.41	454	\$110.66	440	\$63.69
3	SANTA FE	52,137	\$5.41	470	\$110.66	456	\$63.69
3	TWIN RIVERS	57,237	\$5.41	516	\$110.66	501	\$63.69
3	DUETTE	55,588	\$5.41	502	\$110.66	487	\$63.69
3	SANDY CREEK	53,242	\$5.41	480	\$110.66	466	\$63.69
3	CHARLIE CREEK	52,540	\$5.41	474	\$110.66	460	\$63.69
4	<b>Total:</b>	<b>511,414</b>	<b>\$2,768,356</b>	<b>4,614</b>	<b>\$510,633</b>	<b>4,477</b>	<b>\$285,136</b>

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	5,340	3	1	0
5	LAKE PLACID	1,612	1	0	0
5	TRENTON	4,280	3	1	0
5	COLUMBIA	4,501	3	1	0
5	DEBARY	4,156	3	1	0
5	SANTA FE	4,309	3	1	0
5	TWIN RIVERS	4,730	3	1	0
5	DUETTE	4,594	3	1	0
5	SANDY CREEK	4,400	3	1	0
5	CHARLIE CREEK	4,342	3	1	0
6	<b>Total:</b>	<b>42,266</b>	<b>26</b>	<b>6</b>	<b>0</b>

	Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$113,221	\$591,075	\$260,415	\$16,388	\$0	\$981,099
7	LAKE PLACID	\$95,826	\$272,215	\$122,186	\$8,683	\$0	\$498,909
7	TRENTON	\$297,071	\$544,455	\$234,032	\$17,550	\$0	\$1,093,108
7	COLUMBIA	\$110,338	\$598,693	\$245,640	\$17,645	\$0	\$972,316
7	DEBARY	\$59,878	\$496,460	\$203,757	\$14,286	\$0	\$774,380
7	SANTA FE	\$38,756	\$610,868	\$241,999	\$17,384	\$0	\$909,007
7	TWIN RIVERS	\$116,676	\$561,373	\$222,675	\$15,572	\$0	\$916,296
7	DUETTE	\$47,359	\$561,244	\$366,770	\$20,420	\$0	\$995,793
7	SANDY CREEK	\$162,922	\$564,111	\$214,542	\$16,083	\$0	\$957,658
7	CHARLIE CREEK	\$371,112	\$593,375	\$227,846	\$21,047	\$0	\$1,213,381
8	<b>Total:</b>	<b>\$1,413,159</b>	<b>\$5,393,869</b>	<b>\$2,339,862</b>	<b>\$165,058</b>	<b>\$0</b>	<b>\$9,311,948</b>

Notes:

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

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