



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

July 29, 2022

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. 20220007-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 2022, 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. Please feel free to call me at (727) 820-4692 should you have any questions concerning this filing.

Sincerely,

/s/ Dianne M. Triplett

Dianne M. Triplett

DMT/ts
Enclosures

CERTIFICATE OF SERVICE

Docket No. 20220007-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 29th day of July, 2022.

/s/ Dianne M. Triplett

Attorney

<p>Jacob Imig Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 jimig@psc.state.fl.us</p> <p>J. Wahlen / M. Means / V. Ponder Tampa Electric Company Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jwahlen@ausley.com mmeans@ausley.com vponder@ausley.com</p> <p>Jon C. Moyle, Jr. Florida Industrial Power Users Group Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p> <p>Corey Allain Nucor Steel Florida, Inc. 22 Nucor Drive Frostproof FL 33843 corey.allain@nucor.com</p> <p>Maria Jose Moncada 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 maria.moncada@fpl.com</p>	<p>Richard Gentry / P. Christensen / C. Rehwinkel / S. Morse / Steven Baird Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 christensen.patty@leg.state.fl.us gentry.richard@leg.state.fl.us morse.stephanie@leg.state.fl.us rehwinkel.charles@leg.state.fl.us baird.steven@leg.state.fl.us</p> <p>Paula K. Brown Tampa Electric Company Regulatory Affairs P.O. Box 111 Tampa, FL 33601 regdept@tecoenergy.com</p> <p>James W. Brew / Laura Wynn Baker / Peter J. Mattheis / Michael K. Lavanga / Joseph R. Briscar PCS Phosphate-White Springs c/o Stone Law Firm 1025 Thomas Jefferson Street, N.W. Eighth Floor, West Tower Washington, DC 20007 jbrew@smxblaw.com lwb@smxblaw.com jrb@smxblaw.com mkl@smxblaw.com pjm@smxblaw.com</p> <p>Kenneth Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 ken.hoffman@fpl.com</p>
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Duke Energy Florida, LLC
 Actual Data for Solar Generation Facilities
 Solar Base Rate Adjustment (SoBRA) Reporting
June, 2022

		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
1	1	5,418.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	4,898.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	4,520.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	4,279.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	4,199.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	4,302.5	0.5	0.1	0.4	0.7	0.5	0.5	0.1	0.2
7	7	4,509.5	15.4	6.9	16.1	19.0	4.8	16.7	14.2	13.0
8	8	4,911.1	40.1	19.6	44.8	46.2	19.0	42.8	37.5	38.6
9	9	5,486.3	53.7	26.0	54.6	56.7	35.1	53.2	50.8	50.7
10	10	6,138.8	62.4	29.5	57.7	61.8	48.2	58.4	58.3	54.6
11	11	6,797.3	65.0	32.4	59.4	63.4	54.7	58.7	61.6	52.9
12	12	7,405.7	63.6	32.9	57.0	64.8	56.0	59.0	59.3	51.3
13	13	7,947.0	64.6	32.9	58.6	66.3	55.1	58.5	61.8	50.7
14	14	8,312.5	61.5	29.7	54.9	62.0	47.7	56.9	59.5	48.2
15	15	8,530.1	59.7	26.3	52.7	60.6	44.4	53.7	56.9	45.4
16	16	8,639.0	55.3	20.0	50.5	56.1	36.3	46.2	53.3	39.6
17	17	8,635.9	48.9	13.8	46.1	49.5	25.8	40.9	45.6	31.0
18	18	8,525.1	37.4	9.3	31.9	34.7	14.4	30.1	34.9	20.3
19	19	8,317.1	15.3	2.9	13.6	13.9	3.8	11.3	14.5	6.7
20	20	7,949.3	1.0	0.0	1.2	0.7	0.1	0.6	0.8	0.1
21	21	7,613.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	7,240.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	6,672.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	6,010.9	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, 2022

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAM LTON	74.9	19,326	35.8%	0.4%	4,571,984
LAKE PLAC D	45.0	8,470	26.1%	0.2%	
TRENTON	74.9	17,982	33.3%	0.4%	
COLUMBIA	74.9	19,695	36.5%	0.4%	
DEBARY	74.5	13,371	24.9%	0.3%	
SANTA FE	74.9	17,624	32.7%	0.4%	
TWIN RIVERS	74.9	18,268	33.9%	0.4%	
DUETTE	74.5	15,099	28.1%	0.3%	
SANDY CREEK	74.9	17,417	32.3%	0.4%	
Total	643.4	147,252	31.8%	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)
HAM LTON	146,398	\$8.90	3,242	\$170.00	1,879	\$251.40
LAKE PLAC D	64,162	\$8.90	1,421	\$170.00	823	\$251.40
TRENTON	136,217	\$8.90	3,017	\$170.00	1,748	\$251.40
COLUMBIA	149,194	\$8.90	3,304	\$170.00	1,915	\$251.40
DEBARY	101,288	\$8.90	2,243	\$170.00	1,300	\$251.40
SANTA FE	133,505	\$8.90	2,957	\$170.00	1,713	\$251.40
TWIN RIVERS	138,384	\$8.90	3,065	\$170.00	1,776	\$251.40
DUETTE	114,378	\$8.90	2,533	\$170.00	1,468	\$251.40
SANDY CREEK	131,937	\$8.90	2,922	\$170.00	1,693	\$251.40
Total	1,115,464	\$9,924,795	24,704	\$4,199,617	14,316	\$3,599,004

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAM LTON	14,199	21	4	0
LAKE PLAC D	6,223	9	2	0
TRENTON	13,212	20	3	0
COLUMBIA	14,470	22	4	0
DEBARY	9,824	15	2	0
SANTA FE	12,949	19	3	0
TWIN RIVERS	13,422	20	3	0
DUETTE	11,093	17	3	0
SANDY CREEK	12,797	19	3	0
Total	108,188	162	27	1

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAM LTON	\$72,719	\$662,089	\$313,350	\$16,388	\$0	\$1,064,547
LAKE PLAC D	\$174,999	\$357,111	\$167,654	\$8,683	\$0	\$708,447
TRENTON	\$106,636	\$588,752	\$277,505	\$17,550	\$0	\$990,443
COLUMBIA	\$45,025	\$661,241	\$295,284	\$17,645	\$0	\$1,019,195
DEBARY	\$29,938	\$537,217	\$245,835	\$14,286	\$0	\$827,276
SANTA FE	\$35,454	\$668,933	\$288,888	\$17,384	\$0	\$1,010,659
TWIN RIVERS	\$62,987	\$615,734	\$251,929	\$15,572	\$0	\$946,222
DUETTE	\$39,503	\$646,212	\$275,115	\$20,420	\$0	\$981,250
SANDY CREEK	\$0	\$488,373	\$0	\$16,083	\$0	\$504,456
Total	\$567,261	\$5,225,662	\$2,115,560	\$144,011	\$0	\$8,052,495

Notes:
Sandy Creek Renewable Energy Center was placed in service as of 5/17/2022

Duke Energy Florida, LLC
Actual Data for Solar Generation Facilities
Solar Base Rate Adjustment (SoBRA) Reporting
YEAR-TO-DATE THROUGH:
June, 2022

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAM LTON	74.9	86,242	26.5%	0.4%	21,448,040
LAKE PLAC D	45.0	45,978	23.5%	0.2%	
TRENTON	74.9	89,790	27.6%	0.4%	
COLUMBIA	74.9	96,980	29.8%	0.5%	
DEBARY	74.5	75,638	23.4%	0.4%	
SANTA FE	74.9	89,438	27.5%	0.4%	
TWIN RIVERS	74.9	91,442	28.1%	0.4%	
DUETTE	74.5	91,746	28.3%	0.4%	
SANDY CREEK	74.9	30,321	37.5%	0.1%	
Total	643.4	697,575	27.4%	3.3%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAM LTON	646,423	\$7.21	6,171	\$166.85	6,606	\$147.46
LAKE PLAC D	342,803	\$6.88	2,836	\$165.61	3,289	\$139.27
TRENTON	668,290	\$6.99	5,894	\$165.65	6,561	\$142.59
COLUMBIA	725,811	\$7.03	6,420	\$166.25	7,147	\$143.48
DEBARY	563,121	\$6.88	4,689	\$164.82	5,363	\$138.85
SANTA FE	670,578	\$7.05	5,929	\$166.29	6,613	\$142.89
TWIN RIVERS	683,173	\$7.03	6,056	\$166.02	6,775	\$142.73
DUETTE	682,890	\$6.86	5,487	\$165.29	6,538	\$135.65
SANDY CREEK	246,862	\$8.76	4,309	\$170.35	2,300	\$237.69
Total	5,229,952	\$37,588,095	47,790	\$7,949,726	51,191	\$7,795,972

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAM LTON	55,504	50	8	1
LAKE PLAC D	28,797	24	4	0
TRENTON	56,611	48	8	1
COLUMBIA	61,537	53	9	1
DEBARY	47,239	39	6	0
SANTA FE	56,873	49	8	1
TWIN RIVERS	58,025	50	8	1
DUETTE	57,264	46	8	1
SANDY CREEK	21,645	30	4	0
Total	443,495	387	62	5

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAM LTON	\$814,426	\$4,005,734	\$1,879,732	\$98,328	\$0	\$6,798,220
LAKE PLAC D	\$616,659	\$2,160,217	\$1,005,925	\$52,098	\$0	\$3,834,898
TRENTON	\$944,320	\$3,561,982	\$1,665,031	\$105,300	\$0	\$6,276,632
COLUMBIA	\$334,052	\$3,999,701	\$1,771,687	\$105,870	\$0	\$6,211,310
DEBARY	\$356,978	\$3,248,675	\$1,474,801	\$85,716	\$0	\$5,166,170
SANTA FE	\$260,775	\$4,044,746	\$1,733,316	\$104,304	\$0	\$6,143,141
TWIN RIVERS	\$640,477	\$3,718,079	\$1,511,563	\$93,432	\$0	\$5,963,551
DUETTE	\$223,791	\$3,895,763	\$1,646,798	\$122,520	\$0	\$5,888,872
SANDY CREEK	\$0	\$488,373	\$0	\$16,083	\$0	\$504,456
Total	\$4,191,478	\$29,123,270	\$12,688,852	\$783,651	\$0	\$46,787,251

Notes:
Sandy Creek Renewable Energy Center was placed in service as of 5/17/2022