



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

February 28, 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 January 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/cmw
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 28th day of February, 2022.

/s/ Dianne M. Triplett

Attorney

<p>Ashley Weisenfeld / Jacob Imig Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 AWeisenf@psc.state.fl.us jimig@psc.state.fl.us</p> <p>J. Wahlen / M. Means Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jwahlen@ausley.com mmeans@ausley.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p> <p>Corey Allain 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 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</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 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
January 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)
Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers	Duette
1	1	3,962.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	3,830.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	3,789.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	3,817.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	3,943.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	4,245.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	4,763.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8	5,253.3	0.8	0.9	1.1	1.5	1.4	1.0	0.8
9	9	5,395.1	15.5	12.3	21.8	21.7	14.7	16.6	18.9
10	10	5,274.3	31.8	19.4	45.2	39.2	35.5	34.9	40.1
11	11	5,088.7	34.5	23.3	49.3	43.1	46.5	39.8	43.7
12	12	4,910.0	35.3	24.2	47.7	44.4	52.7	41.4	44.6
13	13	4,802.7	35.4	24.1	46.9	44.1	55.4	42.2	44.5
14	14	4,685.0	35.0	22.9	46.6	43.7	54.0	41.8	44.0
15	15	4,626.9	33.9	21.8	46.6	42.2	46.5	38.6	41.9
16	16	4,652.3	32.5	19.9	41.5	38.6	36.3	35.2	40.1
17	17	4,780.1	22.5	13.3	30.5	27.4	18.0	23.6	28.2
18	18	5,030.5	3.9	2.0	5.2	5.3	2.5	4.1	5.3
19	19	5,402.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20	20	5,369.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	21	5,219.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	22	4,960.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	4,605.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	4,234.8	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 2022

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	8,717	15.6%	0.3%	3,439,955
LAKE PLACID	45.0	5,702	17.0%	0.2%	
TRENTON	74.9	11,854	21.3%	0.3%	
COLUMBIA	74.9	10,883	19.5%	0.3%	
DEBARY	74.5	11,271	20.3%	0.3%	
SANTA FE	74.9	9,898	17.8%	0.3%	
TWIN RIVERS	74.9	10,915	19.6%	0.3%	
DUETTE	74.5	11,912	21.5%	0.3%	
Total:	568.5	81,152	19.2%	2.4%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	54,018	\$4.65	306	\$112.95	357	\$72.39
LAKE PLACID	35,335	\$4.65	200	\$112.95	234	\$72.39
TRENTON	73,458	\$4.65	416	\$112.95	486	\$72.39
COLUMBIA	67,441	\$4.65	382	\$112.95	446	\$72.39
DEBARY	69,845	\$4.65	395	\$112.95	462	\$72.39
SANTA FE	61,337	\$4.65	347	\$112.95	406	\$72.39
TWIN RIVERS	67,639	\$4.65	383	\$112.95	447	\$72.39
DUETTE	73,817	\$4.65	418	\$112.95	488	\$72.39
Total:	502,889	\$2,336,302	2,845	\$321,371	3,326	\$240,776

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	4,146	2	0	0
LAKE PLACID	2,712	1	0	0
TRENTON	5,638	3	1	0
COLUMBIA	5,176	2	1	0
DEBARY	5,360	3	1	0
SANTA FE	4,707	2	0	0
TWIN RIVERS	5,191	2	1	0
DUETTE	5,665	3	1	0
Total:	38,595	18	4	0

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$391,384	\$672,996	\$313,233	\$16,388	\$0	\$1,394,001
LAKE PLACID	\$184,783	\$362,822	\$167,654	\$8,683	\$0	\$723,943
TRENTON	\$159,245	\$598,415	\$277,505	\$17,550	\$0	\$1,052,715
COLUMBIA	\$48,865	\$671,852	\$295,291	\$17,645	\$0	\$1,033,653
DEBARY	\$60,981	\$545,575	\$245,767	\$14,286	\$0	\$866,609
SANTA FE	\$32,466	\$679,131	\$288,876	\$17,384	\$0	\$1,017,856
TWIN RIVERS	\$404,564	\$621,113	\$251,918	\$15,572	\$0	\$1,293,167
DUETTE	\$18,787	\$652,052	\$273,234	\$20,420	\$0	\$964,494
Total:	\$1,301,075	\$4,803,957	\$2,113,478	\$127,928	\$0	\$8,346,438

Notes:

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

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
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