



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

March 30, 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 February 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/mw
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 30th day of March, 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
February, 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	3,546.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	3,374.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	3,305.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	3,327.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	3,460.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	3,776.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	4,295.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8	4,743.6	3.2	2.4	3.4	3.9	2.3	3.3	2.6
9	9	4,862.0	26.2	15.4	27.5	29.8	15.4	24.3	25.8
10	10	4,807.6	40.1	22.3	43.7	45.6	29.8	40.0	40.7
11	11	4,711.6	44.4	24.8	47.6	50.0	38.2	44.1	45.8
12	12	4,653.8	45.9	26.9	51.0	51.5	41.3	47.2	47.6
13	13	4,670.8	44.9	26.6	50.6	51.2	44.9	46.1	45.9
14	14	4,720.6	42.8	25.5	48.5	49.2	42.9	44.7	45.0
15	15	4,811.8	42.1	24.4	44.6	46.4	38.0	42.9	44.5
16	16	4,949.9	40.6	22.2	41.4	42.9	30.9	39.2	42.4
17	17	5,097.2	33.9	17.8	38.0	35.8	19.8	30.0	35.5
18	18	5,230.6	13.6	5.7	14.5	14.6	5.8	12.1	14.5
19	19	5,386.6	0.5	0.6	0.3	0.5	0.0	0.4	0.4
20	20	5,333.7	0.0	0.6	0.0	0.0	0.0	0.0	0.0
21	21	5,061.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0
22	22	4,679.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	23	4,247.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	24	3,801.4	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:
February, 2022

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	10,589	21.0%	0.4%	2,969,178
LAKE PLACID	45.0	6,028	19.9%	0.2%	
TRENTON	74.9	11,516	22.9%	0.4%	
COLUMBIA	74.9	11,795	23.4%	0.4%	
DEBARY	74.5	8,658	17.3%	0.3%	
SANTA FE	74.9	10,478	20.8%	0.4%	
TWIN RIVERS	74.9	10,940	21.7%	0.4%	
DUETTE	74.5	12,823	25.6%	0.4%	
Total:	568.5	82,827	21.7%	2.8%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	64,594	\$5.09	0	\$124.45	927	\$63.69
LAKE PLACID	36,772	\$5.09	0	\$124.45	528	\$63.69
TRENTON	70,249	\$5.09	0	\$124.45	1,008	\$63.69
COLUMBIA	71,951	\$5.09	0	\$124.45	1,033	\$63.69
DEBARY	52,815	\$5.09	0	\$124.45	758	\$63.69
SANTA FE	63,917	\$5.09	0	\$124.45	917	\$63.69
TWIN RIVERS	66,735	\$5.09	0	\$124.45	958	\$63.69
DUETTE	78,222	\$5.09	0	\$124.45	1,123	\$63.69
Total:	505,256	\$2,572,597	0	\$0	7,252	\$461,862

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	5,804	1	1	0
LAKE PLACID	3,304	1	0	0
TRENTON	6,312	1	1	0
COLUMBIA	6,465	2	1	0
DEBARY	4,745	1	1	0
SANTA FE	5,743	1	1	0
TWIN RIVERS	5,996	1	1	0
DUETTE	7,028	2	1	0
Total:	45,396	11	6	1

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$60,350	\$670,764	\$313,233	\$16,388	\$0	\$1,060,735
LAKE PLACID	\$36,050	\$361,731	\$167,654	\$8,683	\$0	\$574,118
TRENTON	\$69,514	\$596,482	\$277,505	\$17,550	\$0	\$961,051
COLUMBIA	\$59,962	\$669,709	\$295,284	\$17,645	\$0	\$1,042,600
DEBARY	\$103,487	\$543,872	\$245,767	\$14,286	\$0	\$907,412
SANTA FE	\$43,786	\$677,100	\$288,888	\$17,384	\$0	\$1,027,158
TWIN RIVERS	\$39,970	\$622,865	\$251,928	\$15,572	\$0	\$930,335
DUETTE	\$11,088	\$649,705	\$273,334	\$20,420	\$0	\$954,547
Total:	\$424,207	\$4,792,228	\$2,113,593	\$127,928	\$0	\$7,457,957

Notes:

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

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	19,306	18.2%	0.3%	6,409,133
LAKE PLACID	45.0	11,730	18.4%	0.2%	
TRENTON	74.9	23,370	22.0%	0.4%	
COLUMBIA	74.9	22,678	21.4%	0.4%	
DEBARY	74.5	19,929	18.9%	0.3%	
SANTA FE	74.9	20,376	19.2%	0.3%	
TWIN RIVERS	74.9	21,855	20.6%	0.3%	
DUETTE	74.5	24,735	23.4%	0.4%	
Total:	568.5	163,979	20.4%	2.6%	

Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
HAMILTON	118,613	\$4.89	306	\$112.95	1,284	\$66.11
LAKE PLACID	72,106	\$4.87	200	\$112.95	761	\$66.36
TRENTON	143,707	\$4.86	416	\$112.95	1,494	\$66.52
COLUMBIA	139,392	\$4.88	382	\$112.95	1,479	\$66.32
DEBARY	122,660	\$4.84	395	\$112.95	1,220	\$66.99
SANTA FE	125,254	\$4.87	347	\$112.95	1,323	\$66.36
TWIN RIVERS	134,374	\$4.87	383	\$112.95	1,405	\$66.46
DUETTE	152,039	\$4.88	418	\$112.95	1,611	\$66.33
Total:	1,008,145	\$4,909,021	2,845	\$321,371	10,577	\$702,673

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	9,949	3	1	0
LAKE PLACID	6,016	2	1	0
TRENTON	11,949	4	1	0
COLUMBIA	11,640	4	1	0
DEBARY	10,106	4	1	0
SANTA FE	10,450	4	1	0
TWIN RIVERS	11,187	4	1	0
DUETTE	12,693	4	2	0
Total:	83,991	29	10	1

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$451,734	\$1,343,761	\$626,466	\$32,776	\$0	\$2,454,736
LAKE PLACID	\$220,832	\$724,554	\$335,308	\$17,366	\$0	\$1,298,060
TRENTON	\$228,760	\$1,194,897	\$555,010	\$35,100	\$0	\$2,013,767
COLUMBIA	\$108,827	\$1,341,561	\$590,575	\$35,290	\$0	\$2,076,253
DEBARY	\$164,468	\$1,089,447	\$491,534	\$28,572	\$0	\$1,774,021
SANTA FE	\$76,251	\$1,356,230	\$577,764	\$34,768	\$0	\$2,045,013
TWIN RIVERS	\$444,534	\$1,243,978	\$503,846	\$31,144	\$0	\$2,223,502
DUETTE	\$29,874	\$1,301,758	\$546,568	\$40,840	\$0	\$1,919,040
Total:	\$1,725,280	\$9,596,185	\$4,227,071	\$255,856	\$0	\$15,804,392

Notes: