



FILED 11/30/2022
DOCUMENT NO. 11773-2022
FPSC - COMMISSION CLERK

Stephanie A. Cuello
SENIOR COUNSEL

November 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 October 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 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. 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 November, 2022.

/s/ Stephanie A. Cuello

Attorney

<p>Adria Harper / Jacob Imig 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</p> <p>J. Wahlen / M. Means / V. Ponder Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jwahlen@ausley.com mmeans@ausley.com vponder@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 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 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>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 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>
--	--

Duke Energy Florida, LLC
 Actual Data for Solar Generation Facilities
 Solar Base Rate Adjustment (SoBRA) Reporting
October, 2022

Hour of Day	System Firm Demand (MW)	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)
		Hamilton	Lake Placid	Trenton	Columbia	Debary	Santa Fe	Twin Rivers	Duette	Sandy Creek	Charlie Creek
1	3,720.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	3,397.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3,196.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	3,095.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	3,105.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	3,278.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	3,620.0	0.6	0.3	0.6	1.1	0.7	0.6	0.3	0.3	0.3	0.3
8	3,975.7	22.0	3.0	21.8	22.6	11.4	17.8	17.7	10.1	18.9	5.8
9	4,219.5	50.2	7.2	49.1	48.5	28.5	40.8	41.7	24.6	50.0	13.2
10	4,518.6	56.3	9.0	53.1	54.2	42.0	46.1	47.8	31.8	59.6	19.8
11	4,842.3	58.9	12.1	55.1	56.3	49.8	47.7	50.1	35.2	60.6	23.0
12	5,178.2	61.5	15.9	55.6	57.7	54.0	49.3	52.9	37.4	61.7	23.7
13	5,544.8	62.2	18.4	56.2	58.8	52.2	51.1	53.2	38.5	60.4	22.7
14	5,867.1	62.5	17.9	55.6	57.7	46.4	50.7	53.9	37.1	61.4	20.4
15	6,164.4	63.0	17.6	53.3	53.9	40.5	48.4	53.9	33.4	62.4	17.8
16	6,401.5	61.1	15.6	52.1	49.4	31.3	43.5	53.0	26.9	56.7	11.4
17	6,616.5	46.2	8.9	41.1	37.7	16.7	33.1	40.5	17.9	47.0	4.9
18	6,607.4	10.6	1.0	8.8	9.0	3.0	7.8	9.4	3.9	16.1	0.9
19	6,388.6	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0
20	6,187.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	5,843.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5,375.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4,852.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4,189.5	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:
October, 2022

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	17,211	30.9%	0.5%	3,561,123
LAKE PLACID	45.0	3,931	11.7%	0.1%	
TRENTON	74.9	15,576	28.0%	0.4%	
COLUMBIA	74.9	15,720	28.2%	0.4%	
DEBARY	74.5	11,673	21.1%	0.3%	
SANTA FE	74.9	13,547	24.3%	0.4%	
TWIN RIVERS	74.9	14,710	26.4%	0.4%	
DUETTE	74.5	9,209	16.6%	0.3%	
SANDY CREEK	74.9	17,210	30.9%	0.5%	
CHARLIE CREEK	74.9	5,083	9.1%	0.1%	
Total:	718.3	123,870.0	23.2%	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)
HAMILTON	149,445	\$6.02	669	\$168.97	718	\$151.12
LAKE PLACID	34,133	\$6.02	153	\$168.97	164	\$151.12
TRENTON	135,248	\$6.02	605	\$168.97	650	\$151.12
COLUMBIA	136,499	\$6.02	611	\$168.97	656	\$151.12
DEBARY	101,358	\$6.02	454	\$168.97	487	\$151.12
SANTA FE	117,630	\$6.02	527	\$168.97	565	\$151.12
TWIN RIVERS	127,729	\$6.02	572	\$168.97	614	\$151.12
DUETTE	79,963	\$6.02	358	\$168.97	384	\$151.12
SANDY CREEK	149,436	\$6.02	669	\$168.97	718	\$151.12
CHARLIE CREEK	44,136	\$6.02	198	\$168.97	212	\$151.12
Total:	1,075,577	\$6,480,320	4,815	\$813,639	5,167	\$780,786

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	10,839	7	1	0
LAKE PLACID	2,476	2	0	0
TRENTON	9,809	6	1	0
COLUMBIA	9,900	7	1	0
DEBARY	7,351	5	1	0
SANTA FE	8,531	6	1	0
TWIN RIVERS	9,264	6	1	0
DUETTE	5,799	4	1	0
SANDY CREEK	10,838	7	1	0
CHARLIE CREEK	3,201	2	0	0
Total:	78,008	52	9	0

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$65,026	\$653,318	\$313,151	\$16,388	\$0	\$1,047,883
LAKE PLACID	\$30,108	\$352,529	\$167,654	\$8,683	\$0	\$558,974
TRENTON	\$91,608	\$581,138	\$277,505	\$17,550	\$0	\$967,801
COLUMBIA	\$22,679	\$654,880	\$295,284	\$17,645	\$0	\$990,488
DEBARY	\$36,983	\$530,451	\$245,835	\$14,286	\$0	\$827,555
SANTA FE	\$56,666	\$659,353	\$288,888	\$17,384	\$0	\$1,022,291
TWIN RIVERS	\$97,119	\$607,173	\$263,364	\$15,572	\$0	\$983,229
DUETTE	\$76,458	\$638,525	\$275,171	\$20,420	\$0	\$1,010,575
SANDY CREEK	\$65,817	\$488,678	\$252,014	\$16,083	\$0	\$822,591
CHARLIE CREEK	\$5,598	\$504,693	\$260,001	\$0	\$0	\$770,292
Total:	\$548,062	\$5,670,738	\$2,638,868	\$144,011	\$0	\$9,001,678

Notes:

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

Facility	Net Capability (MW)	Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh)
HAMILTON	74.9	152,443	27.9%	0.4%	38,417,481
LAKE PLACID	45.0	71,480	21.8%	0.2%	
TRENTON	74.9	147,129	26.9%	0.4%	
COLUMBIA	74.9	159,353	29.2%	0.4%	
DEBARY	74.5	124,532	22.9%	0.3%	
SANTA FE	74.9	142,434	26.1%	0.4%	
TWIN RIVERS	74.9	148,288	27.1%	0.4%	
DUETTE	74.5	142,702	26.3%	0.4%	
SANDY CREEK	74.9	95,061	31.5%	0.2%	
CHARLIE CREEK	74.9	29,760	19.9%	0.1%	
Total:	718.3	1,213,182	26.5%	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)
HAMILTON	1,203,415	\$8.13	15,771	\$164.42	10,635	\$184.94
LAKE PLACID	556,297	\$7.97	6,927	\$164.05	4,909	\$177.83
TRENTON	1,151,767	\$7.88	13,882	\$163.73	10,020	\$177.89
COLUMBIA	1,250,146	\$7.97	15,588	\$164.41	10,956	\$179.67
DEBARY	973,968	\$7.91	11,948	\$163.75	8,364	\$178.29
SANTA FE	1,116,137	\$7.93	13,689	\$164.53	9,844	\$177.19
TWIN RIVERS	1,161,163	\$7.94	14,371	\$164.34	10,238	\$177.97
DUETTE	1,109,120	\$7.94	13,675	\$164.40	9,747	\$174.98
SANDY CREEK	792,217	\$9.01	13,523	\$164.95	6,226	\$242.42
CHARLIE CREEK	290,723	\$9.32	4,329	\$155.70	2,126	\$248.62
Total:	9,604,953	\$78,759,885	123,705	\$20,216,858	83,065	\$15,946,772

Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
HAMILTON	101,930	110	18	1
LAKE PLACID	46,936	49	8	0
TRENTON	96,674	99	17	1
COLUMBIA	105,334	110	18	1
DEBARY	81,625	84	14	1
SANTA FE	94,064	97	16	1
TWIN RIVERS	97,912	102	17	1
DUETTE	93,436	96	16	1
SANDY CREEK	66,978	88	14	1
CHARLIE CREEK	23,965	29	5	0
Total:	808,852	866	144	8

Facility	O&M (\$)	Carrying Costs (\$)	Capital (\$)	Other (\$)	Fuel Costs (\$)	Total Cost of Generation (\$)
HAMILTON	\$1,113,907	\$6,632,532	\$3,132,334	\$163,880	\$0	\$11,042,654
LAKE PLACID	\$800,360	\$3,577,261	\$1,676,541	\$86,830	\$0	\$6,140,992
TRENTON	\$1,337,963	\$5,898,130	\$2,775,051	\$175,500	\$0	\$10,186,644
COLUMBIA	\$1,007,436	\$6,631,909	\$2,952,822	\$176,450	\$0	\$10,768,617
DEBARY	\$610,536	\$5,380,702	\$2,458,141	\$142,860	\$0	\$8,592,238
SANTA FE	\$555,857	\$6,694,239	\$2,888,869	\$173,840	\$0	\$10,312,804
TWIN RIVERS	\$893,405	\$6,157,612	\$2,530,716	\$155,720	\$0	\$9,737,452
DUETTE	\$474,206	\$6,461,496	\$2,747,365	\$204,200	\$0	\$9,887,268
SANDY CREEK	\$177,111	\$2,447,833	\$1,004,953	\$80,415	\$0	\$3,710,311
CHARLIE CREEK	\$0	\$1,510,756	\$515,863	\$0	\$0	\$2,026,619
Total:	\$6,970,781	\$51,392,470	\$22,682,655	\$1,359,695	\$0	\$82,405,600

Notes: