



Stephanie A. Cuello
SENIOR COUNSEL

March 16, 2022

VIA ELECTRONIC FILING

Adam J. Teitzman, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: *Fuel and Purchased Power Clause with Generating Performance Incentive Factor*; Docket No. 20220001-EI

Dear Mr. Teitzman:

On behalf of Duke Energy Florida, LLC (“DEF”), please find enclosed for electronic filing in the above referenced docket:

- DEF’s Generating Performance Incentive Factor (“GPIF”) True-Up Petition for the period January 2021 through December 2021; and
- Direct Testimony of M. Ingle Lewter with Exhibit No. (MIL-1T).

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/mw
Attachment

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Fuel and Purchased Power Cost
Recovery Clause with Generating
Performance Incentive Factor

Docket No. 20220001-EI

Filed: March 16, 2022

**PETITION FOR APPROVAL OF GPIF RESULTS
FOR THE PERIOD ENDING DECEMBER 2021**

Duke Energy Florida, LLC (“DEF”) hereby petitions this Commission for approval of its Generating Performance Incentive Factor (“GPIF”) results for the period ending December 2021. In support of this Petition, DEF states as follows:

1. DEF is a public utility subject to the jurisdiction of the Commission under Chapter 366, Florida Statutes. DEF's General Offices are located at 299 First Avenue North, St. Petersburg, FL 33701.

2. All notices, pleadings and other communications required to be served on the petitioner should be directed to:

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3. By Order No. PSC-2021-00442-FOF-EI, dated November 30, 2021 and Order No. PSC-2021-0442A-FOF-EI, dated December 13, 2021, the Commission approved DEF's GPIF Targets for the period January 2021 through December 2021. The application of the GPIF formula to DEF's performance during that period produces a penalty of \$206,463. Matters relating to the GPIF are contained in the prepared direct testimony of DEF witness M. Ingle Lewter which is being filed with and incorporated in this Petition.

WHEREFORE, DEF respectfully requests the Commission to approve this Petition and include the aforementioned amount in the calculation of the Fuel and Purchased Power Cost Recovery ("FCR") Factor for the period beginning January 2022.

Respectfully submitted,

s/Stephanie A. Cuello

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 16th day of March, 2022.

s/Stephanie A. Cuello
Attorney

<p>Suzanne Brownless Stefanie Jo Osborn Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@psc.state.fl.us sosborn@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>Kenneth A. Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 kenhoffman@fpl.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p> <p>Peter J. Mattheis Michael K. Lavanga Joseph R. Briscar Stone, Mattheis, Xenopoulos, & Brew P.C. Nucor 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 pjm@smxblaw.com mkl@smxblaw.com jrb@smxblaw.com</p> <p>Corey Allain Nucor Steel Florida, Inc. 22 Nucor Drive Frostproof, FL 33843 corey.allain@nucor.com</p>	<p>Anastacia Pirrello / Richard Gentry Office of Public Counsel 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 pirrello.anastacia@leg.state.fl.us gentry.richard@leg.state.fl.us</p> <p>Paula K. Brown Regulatory Affairs Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111 regdept@tecoenergy.com</p> <p>Maria Moncada / David Lee Florida Power & Light Company 700 Universe Blvd. (LAW/JB) Juno Beach, FL 33408-0420 david.lee@fpl.com maria.moncada@fpl.com</p> <p>James Brew / Laura W. Baker Stone Mattheis Xenopoulos & Brew, P.C. White Springs/PCS Phosphate 1025 Thomas Jefferson St., N.W. Eighth Floor, West Tower Washington, DC 20007 jbrew@smxblaw.com lwb@smxblaw.com</p> <p>Mike Cassel Florida Public Utilities Company 208 Wildlight Avenue Yulee, FL 32097 mcassel@fpuc.com</p> <p>Michelle D. Napier Florida Public Utilities Company 1635 Meathe Drive West Palm Beach, FL 33411 mnapier@fpuc.com</p> <p>Beth Keating Gunster, Yoakley & Stewart, P.A. FPUC 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com</p>
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DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20220001-EI

**GPIF Schedules for
January through December 2021**

**DIRECT TESTIMONY OF
MARY INGLE LEWTER**

March 16, 2022

1 **Q. Please state your name and business address.**

2 A. My name is M. Ingle Lewter. My business address is 526 South Church
3 Street, Charlotte, North Carolina 28202.

4

5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by Duke Energy Indiana, LLC (“DEI”) as Manager of Fuels
7 and Fleet Analytics for Fuels and Systems Optimization. DEI and Duke
8 Energy Florida, LLC (“DEF” or “Company”) are both wholly-owned
9 subsidiaries of Duke Energy Corporation (“Duke Energy”).

10

11 **Q. Describe your responsibilities as Manager of Fuels and Fleet Analytics.**

12 A. As Manager of Fuels and Fleet Analytics for Fuels and Systems
13 Optimization, I oversee the analysis and modeling of energy portfolios for
14 Duke Energy Corporation’s regulated utility subsidiaries, including DEF, as

1 well as Duke Energy Carolinas ("DEC"), Duke Energy Progress, LLC
2 ("DEP"), DEI, and Duke Energy Kentucky, Inc ("DEK"). My responsibilities
3 include oversight of planning and coordination associated with economic
4 system operations, including production cost modeling, outage coordination,
5 dispatch pricing, fuel burn forecasting, position analysis, and commodities
6 analytics.

7
8 **Q. Please describe your educational background and professional**
9 **experience.**

10 A. I earned a Bachelor of Science in Statistics from North Carolina State
11 University in 1995. I have worked with Progress Energy (Carolina Power &
12 Light) and Duke Energy combined since graduating from North Carolina
13 State University in 1995. I started with Carolina Power & Light (CP&L) in the
14 customer service area and then moved into payroll services in 1997. In 1999,
15 I joined the Bulk Power Marketing Department as a Business Analyst and
16 was responsible for data analysis, including load forecast metrics, external
17 market tracking and unit commitment modeling. In 2000, I took the role of
18 Power Scheduler and was responsible for scheduling, confirming and
19 tagging all short-term physical power transactions. In 2005, I was promoted
20 to Portfolio Analyst in the Portfolio Management group. In this role, I was
21 responsible for the short-term seven-day unit commitment plan for Progress
22 Energy Florida, which included load forecast development, generation
23 scheduling, unit commitment and the fuel burn forecast. In 2008, I moved
24 from the short-term seven-day unit commitment responsibilities to the mid-
25 term forecasting role and was promoted to Senior Portfolio Analyst. In 2012,

1 I was promoted to Lead Fuels & Fleet Analyst when Progress Energy
2 merged with Duke Energy. In these roles, I was responsible for the 5-year
3 mid-term forecast for Duke Energy Carolinas and Duke Energy Midwest
4 utilities, which are utilized for fuel planning, regulatory fuel filings, and budget
5 development. In December 2019, I became the Manager of Fuels & Fleet
6 Analytics, which is responsible for the mid-term forecast for all Duke Energy
7 Jurisdictions (DEC, DEP, DEI, DEK, and DEF).

8

9 **Q. What is the purpose of your testimony?**

10 A. The purpose of my testimony is to describe the calculation of DEF's
11 Generating Performance Incentive Factor ("GPIF") reward/(penalty) amount
12 for the period of January through December 2021. This calculation was
13 based on a comparison of the actual performance of DEF's Seven (7) GPIF
14 generating units for this period against the approved targets set for these
15 units prior to the actual performance period.

16

17 **Q. Do you have an exhibit to your testimony in this proceeding?**

18 A. Yes, I am sponsoring Exhibit No. _____ (MIL-1T), which consists of the
19 schedules required by the GPIF Implementation Manual to support the
20 development of the incentive amount. This 24-page exhibit is attached to
21 my prepared testimony and includes as its first page an index to the contents
22 of the exhibit.

23

24

25

1 **Q. What GPIF incentive amount has been calculated for this period?**

2 A. DEF's calculated GPIF incentive amount is a penalty of \$206,463. This
3 amount was developed in a manner consistent with the GPIF
4 Implementation Manual. Page 2 of my exhibit shows the system GPIF points
5 and the corresponding reward/(penalty). The summary of weighted
6 incentive points earned by each individual unit can be found on page 4 of
7 my exhibit.

8
9 **Q. How were the incentive points for equivalent availability and heat rate
10 calculated for the individual GPIF units?**

11 A. The calculation of incentive points was made by comparing the adjusted
12 actual performance data for equivalent availability and heat rate to the target
13 performance indicators for each unit. This comparison is shown on each
14 unit's Generating Performance Incentive Points Table found on pages 9
15 through 15 of my exhibit.

16
17 **Q. Why is it necessary to make adjustments to the actual performance
18 data for comparison with the targets?**

19 A. Adjustments to the actual equivalent availability and heat rate data are
20 necessary to allow their comparison with the "target" Point Tables exactly as
21 approved by the Commission. These adjustments are described in the
22 Implementation Manual and are further explained by a Staff memorandum,
23 dated October 23, 1981, directed to the GPIF utilities. The adjustments to
24 actual equivalent availability primarily concern the differences between
25 target and actual planned outage hours, and are shown on page 7 of my

1 exhibit. The heat rate adjustments concern the differences between the
2 target and actual Net Output Factor (NOF), and are shown on page 8. The
3 methodology for both the equivalent availability and heat rate adjustments
4 are explained in the Staff memorandum.

5
6 In addition, the Bartow CC unit had data excluded during the period in which
7 its steam turbine was in a planned outage. The Bartow CC unit has the
8 capability to be operated in simple cycle mode while the steam turbine is in
9 an outage. When operating in simple cycle mode, the unit's heat rate will
10 deviate significantly from its normal range. DEF's heat rate target setting
11 process for the Bartow CC unit excludes historical data from periods when
12 the unit operated in simple cycle mode. From mid-October until mid-
13 November 2021 the steam turbine was in a planned outage; during this
14 period the Bartow CC unit was operated in simple cycle. To be consistent
15 with the target setting process, simple cycle mode heat rate data was
16 excluded from actuals for the purposes of calculating the heat rate for the
17 Bartow CC in year 2021 during those times when the unit was being
18 operated in simple cycle mode as the result of a planned outage.

19
20 **Q. Have you provided the as-worked planned outage schedules for DEF's**
21 **GPIF units to support your adjustments to actual equivalent**
22 **availability?**

23 A. Yes. Page 23 of my exhibit summarizes the planned outages experienced
24 by DEF's GPIF units during the period. Page 24 presents an as-worked
25 schedule for each individual planned outage.

1 Q. Does this conclude your testimony?

2 A. Yes.

GPIF REWARD/PENALTY SCHEDULES

<u>Description</u>	<u>Sheet</u>
Index	1
Reward/Penalty Table (Actual)	2
Calculation of Maximum Incentive Dollars (Actual)	3
Calculation of System Actual GPIF Points	4
GPIF Unit Performance Summary	5
Actual Unit Performance Data	6
Adjustments to EAF Actual	7
Adjustments to ANOHR Actual	8
Generating Performance Incentive Points Table	9-15
Actual Unit Performance Data	16-22
Planned Outage Schedules (Actual)	23-24

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Duke Energy Florida
January 2021 - December 2021

Generating Performance Incentive Points (GPIF)	Fuel Savings/Loss (\$)	Generating Performance Incentive Factor (\$)
10	\$ 25,025,874	\$ 12,512,937
9	\$ 22,523,286	\$ 11,261,643
8	\$ 20,020,699	\$ 10,010,350
7	\$ 17,518,112	\$ 8,759,056
6	\$ 15,015,524	\$ 7,507,762
5	\$ 12,512,937	\$ 6,256,468
4	\$ 10,010,350	\$ 5,005,175
3	\$ 7,507,762	\$ 3,753,881
2	\$ 5,005,175	\$ 2,502,587
1	\$ 2,502,587	\$ 1,251,294
0	\$ -	\$ -
**** -0.165	\$ (473,081)	\$ (206,463)
-1	\$ (2,867,156)	\$ (1,251,294)
-2	\$ (5,734,311)	\$ (2,502,587)
-3	\$ (8,601,467)	\$ (3,753,881)
-4	\$ (11,468,622)	\$ (5,005,175)
-5	\$ (14,335,778)	\$ (6,256,468)
-6	\$ (17,202,933)	\$ (7,507,762)
-7	\$ (20,070,089)	\$ (8,759,056)
-8	\$ (22,937,244)	\$ (10,010,350)
-9	\$ (25,804,400)	\$ (11,261,643)
-10	\$ (28,671,556)	\$ (12,512,937)

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

Duke Energy Florida
January 2021 - December 2021

1	Beginning of period balance of common equity	\$ 7,558,921,452	
	END OF MONTH BALANCE OF COMMON EQUITY:		
2	Month of JANUARY 2021	\$ 7,607,970,392	
3	Month of FEBRUARY 2021	\$ 7,633,557,298	
4	Month of MARCH 2021	\$ 7,679,178,379	
5	Month of APRIL 2021	\$ 7,733,056,941	
6	Month of MAY 2021	\$ 7,820,536,674	
7	Month of JUNE 2021	\$ 7,892,151,225	
8	Month of JULY 2021	\$ 7,999,871,406	
9	Month of AUGUST 2021	\$ 8,101,598,171	
10	Month of SEPTEMBER 2021	\$ 8,180,521,515	
11	Month of OCTOBER 2021	\$ 8,254,590,412	
12	Month of NOVEMBER 2021	\$ 8,277,531,473	
13	Month of DECEMBER 2021	\$ 8,294,963,301	
14	Average common equity for the period	\$ 7,925,726,818	
15	25 Basis Points	0.0025	
16	Revenue Expansion Factor	75.9022%	
17	Maximum allowed incentive dollars	\$ 26,105,073	
18	Jurisdictional Sales *	39,453,609	MWH
19	Total Sales *	39,682,027	MWH
20	Jurisdictional Separation Factor	99.4200%	
21	Maximum allowed jurisdictional incentive dollars	\$ 25,953,663	
22	Incentive Cap (50% of Projected Fuel Savings at 10 GPIF Point Level) From Sheet No. 6.101.1	\$ 12,512,937	
23	Maximum Allowed GPIF Reward (Lesser of Line 21 and Line 22)	\$ 12,512,937	
*	Net sales (Sales - Interruptible)		

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Duke Energy Florida
January 2021 - December 2021

<u>Plant/Unit</u>	<u>Performance Indicator EAF or ANOHR</u>	<u>Weighting Factor %</u>	<u>Unit Points</u>	<u>Weighted Unit Points</u>
Bartow CC	EAF	2.09	-10.000	-0.209
	ANOHR	17.65	5.727	1.011
Crystal River 4	EAF	8.74	-10.000	-0.874
	ANOHR	23.32	-2.158	-0.503
Crystal River 5	EAF	6.50	9.662	0.628
	ANOHR	20.20	-2.335	-0.472
Hines 1	EAF	0.77	-3.068	-0.024
	ANOHR	2.48	9.759	0.242
Hines 2	EAF	0.16	10.000	0.016
	ANOHR	4.69	0.000	0.000
Hines 3	EAF	0.80	-5.540	-0.045
	ANOHR	4.84	0.236	0.011
Hines 4	EAF	1.27	4.270	0.054
	ANOHR	6.49	0.000	0.000
GPIF System		100.00		-0.165

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GENERATION PERFORMANCE INCENTIVE FACTOR
GPIF UNIT PERFORMANCE SUMMARY

Duke Energy Florida
January 2021 - December 2021

Plant/Unit	Weighting Factor (%)	EAF Target (%)	EAF RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	EAF Adjusted Actual (%)	Estimated
			Max. (%)	Min. (%)				Fuel Savings/ Loss (\$000)
Bartow CC	2.09	91.05	93.10	86.85	\$523	(\$656)	78.51	(\$656)
Crystal River 4	8.74	86.11	92.55	73.41	\$2,187	(\$3,743)	68.31	(\$3,743)
Crystal River 5	6.50	81.01	86.28	70.54	\$1,626	(\$2,954)	86.10	\$1,571
Hines 1	0.77	84.13	85.91	80.55	\$193	(\$643)	83.03	(\$197)
Hines 2	0.16	94.71	95.40	93.30	\$41	(\$222)	95.69	\$41
Hines 3	0.80	73.66	74.45	72.02	\$201	(\$148)	72.75	(\$82)
Hines 4	1.27	93.68	94.85	91.21	\$317	(\$367)	94.18	\$135

GPIF System	20.33				\$5,087.4	(\$8,733.1)		(\$2,932.1)
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Plant/Unit	Weighting Factor (%)	ANOHR Target (BTU/KWH)	NOF	ANOHR RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	ANOHR Adjusted Actual (Btu/kwh)	Estimated
				Min. (Btu/kwh)	Max. (Btu/kwh)				Fuel Savings/ Loss (\$000)
Bartow CC	17.65	7,705	75.1	7,461	7,950	\$4,418	(\$4,418)	7,533	\$2,530
Crystal River 4	23.32	10,299	69.3	9,714	10,885	\$5,836	(\$5,836)	10,484	(\$1,259)
Crystal River 5	20.20	10,434	60.5	9,810	11,058	\$5,056	(\$5,056)	10,637	(\$1,181)
Hines 1	2.48	7,470	80.8	7,341	7,599	\$621	(\$621)	7,342	\$606
Hines 2	4.69	7,402	86.3	7,204	7,599	\$1,173	(\$1,173)	7,381	\$0
Hines 3	4.84	7,174	85.9	6,974	7,373	\$1,210	(\$1,210)	7,096	\$29
Hines 4	6.49	6,999	89.1	6,824	7,173	\$1,625	(\$1,625)	7,044	\$0

GPIF System	79.67				\$19,938.4	(\$19,938.4)		\$724.2
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GENERATION PERFORMANCE INCENTIVE FACTOR
ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida
January 2021 - December 2021

Plant/Unit	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	ADJUSTED ACTUAL EAF %
Bartow CC	75.41	3.10	78.51
Crystal River 4	68.29	0.01	68.31
Crystal River 5	82.19	3.91	86.10
Hines 1	78.87	4.16	83.03
Hines 2	95.83	-0.14	95.69
Hines 3	64.83	7.92	72.75
Hines 4	91.84	2.34	94.18

Plant/Unit	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ADJUSTED ACTUAL ANOHR BTU/KWH
Bartow CC	7,534.0	-0.8	7,533.2
Crystal River 4	10,897.2	-412.8	10,484.4
Crystal River 5	10,632.5	4.5	10,637.0
Hines 1	7,311.2	30.6	7,341.8
Hines 2	7,453.9	-72.5	7,381.4
Hines 3	7,163.5	-67.8	7,095.7
Hines 4	7,069.8	-26.1	7,043.7

(1) For documentation of adjustments to actual EAF, see sheet 7 of 24.

(2) For documentation of adjustments to actual ANOHR, see sheet 8 of 24.

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GENERATION PERFORMANCE INCENTIVE FACTOR
ADJUSTMENTS TO EAF ACTUAL

Duke Energy Florida
January 2021 - December 2021

EAF adjustments for			Bartow CC	Crystal River 4	Crystal River 5	Hines 1	Hines 2	Hines 3	Hines 4
<u>Planned Outage Hours</u>			<u>BA4</u>	<u>CR4</u>	<u>CR5</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Actual POH	Hrs.	732.38	1.83	1,039.23	1,441.87	323.63	2,878.52	545.31
2	Target POH	Hrs.	402.00	0.00	672.00	1,056.00	336.00	2,160.00	336.00
3	Adj. Factor (PH-POHT/PH-POHA)		1.04	1.00	1.05	1.05	1.00	1.12	1.03
4	Actual EUOH	Hrs.	1,422.00	2,775.83	521.00	409.08	41.29	202.35	169.63
5	Adj. EUOH (3*4)	Hrs.	1,480.52	2,776.41	545.78	430.65	41.23	227.07	173.95
6	Actual EAF	%	75.41	68.29	82.19	78.87	95.83	64.83	91.84
7	Adjusted EAF (using 2 & 5)	%	78.51	68.31	86.10	83.03	95.69	72.75	94.18
8	Difference (7-6)	%	3.10	0.01	3.91	4.16	-0.14	7.92	2.34
9	Total adj. to EAF	%	3.10	0.01	3.91	4.16	-0.14	7.92	2.34

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GENERATION PERFORMANCE INCENTIVE FACTOR
ADJUSTMENTS TO ANOHR ACTUAL

Duke Energy Florida
January 2021 - December 2021

ANOHR adjustments for			Bartow CC	Crystal River 4	Crystal River 5	Hines 1	Hines 2	Hines 3	Hines 4
<u>Target NOF</u>			<u>BA4</u>	<u>CR4</u>	<u>CR5</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Target NOF	%	75.1	69.3	60.5	80.8	86.3	85.9	89.1
2	Target ANOHR	Btu/kwh	7705.5	10299.3	10433.9	7470.0	7401.8	7173.6	6998.5
3	Actual NOF	%	74.8	54.9	60.7	82.6	81.0	81.5	85.7
4	Calc. ANOHR (using 3)	Btu/kwh	7,706.3	10,712.2	10,429.4	7,439.4	7,474.4	7,241.4	7,024.6
5	Total adj. to ANOHR (2-4)	Btu/kwh	-0.8	-412.8	4.5	30.6	-72.5	-67.8	-26.1

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Bartow CC

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$522,961	93.10	10	\$4,417,564	7,460.6
9	\$470,665	92.90	9	\$3,975,807	7,477.6
8	\$418,369	92.69	8	\$3,534,051	7,494.5
7	\$366,073	92.49	7	\$3,092,294	7,511.5
6	\$313,777	92.28	6	\$2,650,538	7,528.5
5	\$261,481	92.08	5.727	\$2,529,939	7,533.2 ****
4	\$209,184	91.87	5	\$2,208,782	7,545.5
3	\$156,888	91.67	4	\$1,767,025	7,562.5
2	\$104,592	91.46	3	\$1,325,269	7,579.5
1	\$52,296	91.26	2	\$883,513	7,596.5
	\$0	91.05	1	\$441,756	7,613.5
0	\$0	91.05	0	\$0	7,630.5
	\$0	91.05	0	\$0	7,705.5
-1	(\$65,645)	90.63	0	\$0	7,780.5
-2	(\$131,290)	90.21	-1	(\$441,756)	7,797.5
-3	(\$196,935)	89.79	-2	(\$883,513)	7,814.5
-4	(\$262,580)	89.37	-3	(\$1,325,269)	7,831.5
-5	(\$328,225)	88.95	-4	(\$1,767,025)	7,848.5
-6	(\$393,870)	88.53	-5	(\$2,208,782)	7,865.4
-7	(\$459,515)	88.11	-6	(\$2,650,538)	7,882.4
-8	(\$525,160)	87.69	-7	(\$3,092,294)	7,899.4
-9	(\$590,805)	87.27	-8	(\$3,534,051)	7,916.4
-10	(\$656,450)	86.85	-9	(\$3,975,807)	7,933.4
****	(\$656,450)	86.85	-10	(\$4,417,564)	7,950.4

Equivalent Availability
Weighting Factor:

2.09%

Heat Rate
Weighting Factor:

17.65%

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Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Crystal River 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$2,187,129	92.55	10	\$5,835,797	9,714.1
9	\$1,968,416	91.90	9	\$5,252,217	9,765.1
8	\$1,749,703	91.26	8	\$4,668,638	9,816.1
7	\$1,530,990	90.62	7	\$4,085,058	9,867.1
6	\$1,312,277	89.97	6	\$3,501,478	9,918.2
5	\$1,093,564	89.33	5	\$2,917,899	9,969.2
4	\$874,851	88.69	4	\$2,334,319	10,020.2
3	\$656,139	88.04	3	\$1,750,739	10,071.2
2	\$437,426	87.40	2	\$1,167,159	10,122.3
1	\$218,713	86.76	1	\$583,580	10,173.3
	\$0	86.11	0	\$0	10,224.3
0	\$0	86.11	0	\$0	10,299.3
	\$0	86.11	0	\$0	10,374.3
-1	(\$374,281)	84.84	-1	(\$583,580)	10,425.4
-2	(\$748,561)	83.57	-2	(\$1,167,159)	10,476.4
-3	(\$1,122,842)	82.30	-2.158	(\$1,259,365)	10,484.4 ****
-4	(\$1,497,122)	81.03	-3	(\$1,750,739)	10,527.4
-5	(\$1,871,403)	79.76	-4	(\$2,334,319)	10,578.4
-6	(\$2,245,684)	78.49	-5	(\$2,917,899)	10,629.5
-7	(\$2,619,964)	77.22	-6	(\$3,501,478)	10,680.5
-8	(\$2,994,245)	75.95	-7	(\$4,085,058)	10,731.5
-9	(\$3,368,525)	74.68	-8	(\$4,668,638)	10,782.5
-10	(\$3,742,806)	73.41	-9	(\$5,252,217)	10,833.6
****			-10	(\$5,835,797)	10,884.6

Equivalent Availability
Weighting Factor:

8.74%

Heat Rate
Weighting Factor:

23.32%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Crystal River 5

	Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
	-----	-----	-----	-----	-----	-----
	10	\$1,625,520	86.28	10	\$5,055,932	9,810.2
****	9.662	\$1,570,577	86.10	9	\$4,550,339	9,865.1
	9	\$1,462,968	85.75	8	\$4,044,746	9,919.9
	8	\$1,300,416	85.22	7	\$3,539,152	9,974.8
	7	\$1,137,864	84.70	6	\$3,033,559	10,029.7
	6	\$975,312	84.17	5	\$2,527,966	10,084.5
	5	\$812,760	83.64	4	\$2,022,373	10,139.4
	4	\$650,208	83.12	3	\$1,516,780	10,194.3
	3	\$487,656	82.59	2	\$1,011,186	10,249.1
	2	\$325,104	82.07	1	\$505,593	10,304.0
	1	\$162,552	81.54	0	\$0	10,358.9
		\$0	81.01	0	\$0	10,433.9
	0	\$0	81.01	0	\$0	10,508.9
		\$0	81.01	-1	(\$505,593)	10,563.7
	-1	(\$295,406)	79.97	-2	(\$1,011,186)	10,618.6
	-2	(\$590,812)	78.92	-2.335	(\$1,180,560)	10,637.0 ****
	-3	(\$886,217)	77.87	-3	(\$1,516,780)	10,673.5
	-4	(\$1,181,623)	76.82	-4	(\$2,022,373)	10,728.3
	-5	(\$1,477,029)	75.77	-5	(\$2,527,966)	10,783.2
	-6	(\$1,772,435)	74.73	-6	(\$3,033,559)	10,838.1
	-7	(\$2,067,841)	73.68	-7	(\$3,539,152)	10,892.9
	-8	(\$2,363,246)	72.63	-8	(\$4,044,746)	10,947.8
	-9	(\$2,658,652)	71.58	-9	(\$4,550,339)	11,002.7
	-10	(\$2,954,058)	70.54	-10	(\$5,055,932)	11,057.5

Equivalent Availability
Weighting Factor:

6.50%

Heat Rate
Weighting Factor:

20.20%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Hines 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)	
10	\$192,952	85.91	10	\$620,607	7,340.5	
9	\$173,657	85.73	9.759	\$605,651	7,341.8 ****	
8	\$154,362	85.55	9	\$558,547	7,346.0	
7	\$135,066	85.38	8	\$496,486	7,351.4	
6	\$115,771	85.20	7	\$434,425	7,356.9	
5	\$96,476	85.02	6	\$372,364	7,362.3	
4	\$77,181	84.84	5	\$310,304	7,367.8	
3	\$57,886	84.66	4	\$248,243	7,373.2	
2	\$38,590	84.48	3	\$186,182	7,378.6	
1	\$19,295	84.31	2	\$124,121	7,384.1	
	\$0	84.13	1	\$62,061	7,389.5	
0	\$0	84.13	0	\$0	7,395.0	
	\$0	84.13	0	\$0	7,470.0	
-1	(\$64,260)	83.77	0	\$0	7,545.0	
-2	(\$128,520)	83.41	-1	(\$62,061)	7,550.4	
-3	(\$192,780)	83.05	-2	(\$124,121)	7,555.9	
****	-3.068	(\$197,150)	83.03	-3	(\$186,182)	7,561.3
	-4	(\$257,040)	82.70	-4	(\$248,243)	7,566.8
	-5	(\$321,300)	82.34	-5	(\$310,304)	7,572.2
	-6	(\$385,560)	81.98	-6	(\$372,364)	7,577.7
	-7	(\$449,820)	81.62	-7	(\$434,425)	7,583.1
	-8	(\$514,080)	81.26	-8	(\$496,486)	7,588.5
	-9	(\$578,340)	80.91	-9	(\$558,547)	7,594.0
	-10	(\$642,600)	80.55	-10	(\$620,607)	7,599.4

Equivalent Availability
Weighting Factor:

0.77%

Heat Rate
Weighting Factor:

2.48%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Hines 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)

10	\$40,503	95.40	10	\$1,173,063	7,204.5
10	\$40,503	95.40	9	\$1,055,757	7,216.7
9	\$36,452	95.33	8	\$938,451	7,228.9
8	\$32,402	95.26	7	\$821,144	7,241.2
7	\$28,352	95.19	6	\$703,838	7,253.4
6	\$24,302	95.13	5	\$586,532	7,265.6
5	\$20,251	95.06	4	\$469,225	7,277.9
4	\$16,201	94.99	3	\$351,919	7,290.1
3	\$12,151	94.92	2	\$234,613	7,302.3
2	\$8,101	94.85	1	\$117,306	7,314.6
1	\$4,050	94.78	0	\$0	7,326.8
	\$0	94.71	0.000	\$0	7,381.4 ****
0	\$0	94.71	0	\$0	7,401.8
	\$0	94.71	0	\$0	7,476.8
-1	(\$22,203)	94.57	-1	(\$117,306)	7,489.1
-2	(\$44,406)	94.43	-2	(\$234,613)	7,501.3
-3	(\$66,609)	94.29	-3	(\$351,919)	7,513.5
-4	(\$88,812)	94.15	-4	(\$469,225)	7,525.8
-5	(\$111,015)	94.01	-5	(\$586,532)	7,538.0
-6	(\$133,218)	93.86	-6	(\$703,838)	7,550.2
-7	(\$155,421)	93.72	-7	(\$821,144)	7,562.5
-8	(\$177,624)	93.58	-8	(\$938,451)	7,574.7
-9	(\$199,827)	93.44	-9	(\$1,055,757)	7,586.9
-10	(\$222,030)	93.30	-10	(\$1,173,063)	7,599.2

Equivalent Availability
Weighting Factor:

0.16%

Heat Rate
Weighting Factor:

4.69%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Hines 3

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)	
10	\$201,411	74.45	10	\$1,210,451	6,974.4	
9	\$181,270	74.37	9	\$1,089,406	6,986.9	
8	\$161,129	74.29	8	\$968,361	6,999.3	
7	\$140,988	74.21	7	\$847,316	7,011.7	
6	\$120,847	74.13	6	\$726,271	7,024.1	
5	\$100,706	74.06	5	\$605,226	7,036.5	
4	\$80,564	73.98	4	\$484,180	7,049.0	
3	\$60,423	73.90	3	\$363,135	7,061.4	
2	\$40,282	73.82	2	\$242,090	7,073.8	
1	\$20,141	73.74	1	\$121,045	7,086.2	
	\$0	73.66	0.236	\$28,567	7,095.7 ****	
0	\$0	73.66	0	\$0	7,098.6	
	\$0	73.66	0	\$0	7,173.6	
-1	(\$14,830)	73.49	0	\$0	7,248.6	
-2	(\$29,660)	73.33	-1	(\$121,045)	7,261.0	
-3	(\$44,490)	73.17	-2	(\$242,090)	7,273.5	
-4	(\$59,320)	73.00	-3	(\$363,135)	7,285.9	
-5	(\$74,149)	72.84	-4	(\$484,180)	7,298.3	
****	-5.54	(\$82,158)	72.75	-5	(\$605,226)	7,310.7
	-6	(\$88,979)	72.67	-6	(\$726,271)	7,323.1
	-7	(\$103,809)	72.51	-7	(\$847,316)	7,335.6
	-8	(\$118,639)	72.35	-8	(\$968,361)	7,348.0
	-9	(\$133,469)	72.18	-9	(\$1,089,406)	7,360.4
	-10	(\$148,299)	72.02	-10	(\$1,210,451)	7,372.8

Equivalent Availability
Weighting Factor:

0.80%

Heat Rate
Weighting Factor:

4.84%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2021 - December 2021

Unit: Hines 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$316,970	94.85	10	\$1,625,014	6,824.3
9	\$285,273	94.74	9	\$1,462,513	6,834.3
8	\$253,576	94.62	8	\$1,300,011	6,844.2
7	\$221,879	94.50	7	\$1,137,510	6,854.1
6	\$190,182	94.38	6	\$975,008	6,864.0
5	\$158,485	94.26	5	\$812,507	6,873.9
**** 4.27	\$135,346	94.18	4	\$650,006	6,883.8
4	\$126,788	94.15	3	\$487,504	6,893.8
3	\$95,091	94.03	2	\$325,003	6,903.7
2	\$63,394	93.91	1	\$162,501	6,913.6
1	\$31,697	93.79	0	\$0	6,923.5
	\$0	93.68	0.000	\$0	7,043.7 ****
0	\$0	93.68	0	\$0	6,998.5
	\$0	93.68	0	\$0	7,073.5
-1	(\$36,688)	93.43	-1	(\$162,501)	7,083.4
-2	(\$73,377)	93.18	-2	(\$325,003)	7,093.4
-3	(\$110,065)	92.94	-3	(\$487,504)	7,103.3
-4	(\$146,753)	92.69	-4	(\$650,006)	7,113.2
-5	(\$183,442)	92.44	-5	(\$812,507)	7,123.1
-6	(\$220,130)	92.20	-6	(\$975,008)	7,133.0
-7	(\$256,819)	91.95	-7	(\$1,137,510)	7,142.9
-8	(\$293,507)	91.70	-8	(\$1,300,011)	7,152.9
-9	(\$330,195)	91.46	-9	(\$1,462,513)	7,162.8
-10	(\$366,884)	91.21	-10	(\$1,625,014)	7,172.7

Equivalent Availability
Weighting Factor:

1.27%

Heat Rate
Weighting Factor:

6.49%

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Bartow CC	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	76.62	75.31	82.47	85.28	79.43	75.76	67.86	62.46	76.15	72.59	65.12	85.85	75.41
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	491.2	468.1	606.8	613.7	593.6	548.1	507.6	466.9	550.4	524.3	348.7	559.7	5,717.7
4. RSH	80.7	40.0	8.7	0.7	0.0	0.0	0.0	0.2	0.6	17.8	120.8	79.1	348.4
5. UH	172.1	164.0	127.5	105.7	150.4	171.9	236.4	277.0	169.0	201.9	251.5	105.2	2,132.5
6. POH	0.0	0.0	0.0	57.1	2.9	46.5	120.0	120.0	53.7	80.7	218.9	32.7	732.4
7. FOH	172.1	115.3	127.5	48.6	147.5	112.7	116.4	157.0	115.4	117.6	32.6	4.2	1,266.7
8. MOH	0.0	48.7	0.0	0.0	0.0	12.7	0.0	0.0	0.0	3.7	0.0	68.4	133.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	165.7	223.6	247.2	28.3	238.6	239.6	247.6	211.8	237.8	176.8	0.0	0.0	2,017.1
12. LR PF (MW)	13.0	10.2	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	0.0	0.0	12.7
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
16. OPER MBTU	3,009,590	3,248,580	4,027,760	4,164,210	3,801,770	3,423,480	2,777,720	2,714,880	3,397,700	2,827,576	982,651	3,305,100	37,681,017
17. NET GEN (MWH)	371,666	405,079	545,492	567,154	509,059	459,979	370,554	346,447	458,292	391,502	131,068	445,176	5,001,468
18. ANOHR (BTU/KWH)	8,097.6	8,019.6	7,383.7	7,342.3	7,468.2	7,442.7	7,496.1	7,836.4	7,413.8	7,222.4	7,497.3	7,424.3	7,534.0
19. NOF (%)	64.72	74.03	76.90	79.06	73.36	71.79	62.44	63.48	71.23	75.49	74.30	68.04	74.83
20. NPC (MW)	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169
ANOHR EQUATION:	ANOHR=	-3.674	x NOF +	7,981.22									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Crystal River 4	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	0.00	0.00	13.64	95.58	85.86	77.24	67.12	99.86	92.61	86.53	97.22	100.00	68.29
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	0.0	0.0	137.6	713.3	654.5	675.6	633.3	744.0	674.9	656.9	530.9	158.8	5,579.8
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.1	585.2	775.3
5. UH	744.0	672.0	605.4	6.7	89.5	44.4	110.7	0.0	45.1	87.1	0.0	0.0	2,404.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	744.0	672.0	605.4	6.7	20.7	41.6	21.7	0.0	45.1	0.0	0.0	0.0	2,157.2
8. MOH	0.0	0.0	0.0	0.0	68.8	2.8	89.0	0.0	0.0	87.1	0.0	0.0	247.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	14.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	93.0
11. PFOH	0.0	0.0	72.9	91.6	86.2	235.6	287.5	7.9	47.0	84.5	22.0	0.0	935.2
12. LR PF (MW)	0.0	0.0	353.7	182.8	129.4	309.0	331.6	93.0	122.4	95.2	437.0	0.0	263.0
13. PMOH	0.0	0.0	0.0	12.6	0.0	37.6	0.0	0.0	0.0	0.0	50.0	0.0	100.2
14. LR PM (MW)	0.0	0.0	0.0	92.8	0.0	326.8	0.0	0.0	0.0	0.0	93.0	0.0	180.7
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
16. OPER MBTU	0	0	529,940	3,452,550	3,288,630	3,358,340	2,976,900	4,074,820	2,093,530	1,920,180	1,350,320	702,630	23,747,840
17. NET GEN (MWH)	0	0	41,724	335,824	319,517	320,470	281,351	397,073	163,964	150,076	106,408	62,844	2,179,251
18. ANOHR (BTU/KWH)	0.0	0.0	12,701.1	10,280.8	10,292.5	10,479.4	10,580.7	10,262.1	12,768.2	12,794.7	12,690.0	11,180.5	10,897.2
19. NOF (%)	0.00	0.00	42.59	66.12	68.57	66.62	62.40	74.96	34.12	32.09	28.15	55.57	54.85
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
ANOHR EQUATION:	ANOHR=	-28.596	x NOF +	12,280.75									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Crystal River 5	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	94.97	93.80	98.56	87.06	94.17	80.00	93.15	88.07	99.48	99.38	19.97	37.52	82.19
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	615.0	664.0	743.0	654.0	703.7	590.5	744.0	673.3	551.1	607.9	0.0	98.5	6,645.0
4. RSH	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.9	136.1	144.0	201.7	755.7
5. UH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	70.7	0.0	0.0	577.0	443.8	1,359.3
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	577.0	443.8	1,020.8
7. FOH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	4.2	0.0	0.0	0.0	0.0	272.0
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	0.0	0.0	0.0	0.0	66.5
9. PPOH	0.0	31.7	0.0	0.0	0.0	3.7	0.0	0.0	0.0	8.0	0.0	0.0	43.4
10. LR PP (MW)	0.0	298.2	0.0	0.0	0.0	90.9	0.0	0.0	0.0	410.0	0.0	0.0	301.3
11. PFOH	33.8	61.6	24.9	91.7	12.9	77.4	201.3	52.3	12.5	0.0	0.0	53.0	621.3
12. LR PF (MW)	281.9	216.4	306.0	153.3	168.0	129.0	179.8	244.2	213.2	0.0	0.0	282.0	198.3
13. PMOH	0.0	11.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0
14. LR PM (MW)	0.0	101.8	0.0	290.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.6
15. NSC (MW)	710	710	710	710	710	710	710	710	710	710	710	710	710
16. OPER MBTU	2,554,180	3,923,300	3,466,340	2,929,150	3,368,810	3,285,230	3,835,560	3,467,060	1,638,820	1,731,960	0	240,900	30,441,310
17. NET GEN (MWH)	243,139	409,436	341,957	268,825	321,255	312,461	360,468	327,290	128,103	130,993	0	19,125	2,863,052
18. ANOHR (BTU/KWH)	10,505.0	9,582.2	10,136.8	10,896.1	10,486.4	10,514.0	10,640.5	10,593.2	12,793.0	13,221.8	0.0	12,596.1	10,632.5
19. NOF (%)	55.68	86.85	64.82	57.89	64.30	74.53	68.24	68.47	32.74	30.35	0.00	27.34	60.68
20. NPC (MW)	710	710	710	710	710	710	710	710	710	710	710	710	710
ANOHR EQUATION:	ANOHR=	-27.456	x NOF +	12,095.55									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 1	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	98.70	86.94	100.00	33.17	0.00	51.25	93.61	89.82	94.25	100.00	98.24	100.00	78.87
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	734.3	515.0	743.0	238.9	0.0	346.3	695.6	668.0	679.8	737.3	668.6	744.0	6,771.0
4. RSH	0.0	70.2	0.0	0.0	0.0	22.7	3.1	10.7	4.4	6.7	41.4	0.0	159.1
5. UH	9.7	86.7	0.0	481.1	744.0	351.0	45.3	65.3	35.7	0.0	11.0	0.0	1,829.9
6. POH	0.0	0.0	0.0	481.1	744.0	215.1	0.0	0.0	0.0	0.0	0.0	0.0	1,440.2
7. FOH	9.7	86.7	0.0	0.0	0.0	135.9	25.9	65.3	35.7	0.0	11.0	0.0	370.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.0	0.0	19.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	10.9
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	75.7	0.0	0.0	0.0	0.0	0.0	75.7
11. PFOH	0.0	6.2	0.0	2.0	0.0	0.0	6.9	61.5	33.4	0.0	10.3	0.0	120.3
12. LR PF (MW)	0.0	78.0	0.0	23.9	0.0	0.0	41.4	83.0	82.9	0.0	78.0	0.0	78.9
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	490	490	490	490	490	490	490	490	490	490	490	490	490
16. OPER MBTU	2,447,180	1,470,070	2,348,430	716,040	0	943,010	2,042,930	1,953,750	1,969,470	2,160,730	1,898,220	2,089,710	20,039,540
17. NET GEN (MWH)	337,478	194,896	325,063	102,549	0	124,781	276,192	264,272	269,773	305,359	257,694	282,863	2,740,920
18. ANOHR (BTU/KWH)	7,251.4	7,542.8	7,224.5	6,982.4	0.0	7,557.3	7,396.8	7,393.0	7,300.5	7,076.0	7,366.2	7,387.7	7,311.2
19. NOF (%)	93.79	77.23	89.29	87.60	0.00	73.53	81.03	80.73	80.99	84.52	78.66	77.59	82.61
20. NPC (MW)	490	490	490	490	490	490	490	490	490	490	490	490	490
ANOHR EQUATION:	ANOHR=	-16.520	x NOF +	8,804.15									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 2	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	100.00	100.00	100.00	100.00	99.58	100.00	99.74	100.00	95.60	99.38	86.14	69.93	95.83
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	608.0	621.6	537.5	697.4	725.0	720.0	735.2	744.0	685.3	734.4	606.4	491.7	7,906.6
4. RSH	136.0	50.4	205.5	22.6	16.3	0.0	6.9	0.0	3.1	6.5	14.8	28.6	490.6
5. UH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.0	31.7	3.1	99.8	223.7	362.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8	223.7	323.5
7. FOH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.0	0.0	3.1	0.0	0.0	7.7
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	0.0	0.0	31.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	0.0	49.1
11. PFOH	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	13.5	0.0	0.0	16.0
12. LR PF (MW)	0.0	0.0	0.0	0.0	94.4	0.0	0.0	0.0	0.0	57.6	0.0	0.0	63.4
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	524	524	524	524	524	524	524	524	524	524	524	524	524
16. OPER MBTU	1,766,010	1,898,050	1,653,660	2,288,660	2,302,280	2,413,160	2,373,440	2,452,090	2,201,090	2,319,550	1,869,390	1,466,380	25,003,760
17. NET GEN (MWH)	235,715	249,585	220,637	313,833	313,341	321,959	316,304	327,132	293,801	318,746	248,008	195,373	3,354,434
18. ANOHR (BTU/KWH)	7,492.1	7,604.8	7,494.9	7,292.6	7,347.5	7,495.2	7,503.7	7,495.7	7,491.8	7,277.1	7,537.6	7,505.5	7,453.9
19. NOF (%)	73.98	76.62	78.33	85.88	82.48	85.34	82.11	83.91	81.82	82.83	78.05	75.83	80.97
20. NPC (MW)	524	524	524	524	524	524	524	524	524	524	524	524	524
ANOHR EQUATION:	ANOHR=	-13.633	x NOF +	8,578.16									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 3	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	97.33	42.86	0.00	0.00	0.00	41.53	100.00	100.00	93.99	99.23	100.00	100.00	64.83
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	360.5	68.6	0.0	0.0	0.0	299.0	744.0	744.0	670.5	705.3	677.6	744.0	5,013.5
4. RSH	363.6	219.4	0.0	0.0	0.0	0.0	0.0	0.0	9.5	33.9	43.4	0.0	669.8
5. UH	19.9	384.0	743.0	720.0	744.0	421.0	0.0	0.0	40.0	4.8	0.0	0.0	3,076.7
6. POH	0.0	384.0	743.0	720.0	744.0	287.4	0.0	0.0	0.0	0.0	0.0	0.0	2,878.4
7. FOH	19.9	0.0	0.0	0.0	0.0	133.6	0.0	0.0	26.3	4.8	0.0	0.0	184.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	13.8
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	0.0	0.0	80.3
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	4.7	0.0	0.0	24.2
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.3	86.6	0.0	0.0	86.4
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	521	521	521	521	521	521	521	521	521	521	521	521	521
16. OPER MBTU	942,250	191,430	0	0	0	919,460	2,347,470	2,400,960	2,109,940	2,127,730	1,985,750	2,233,840	15,258,830
17. NET GEN (MWH)	132,532	25,683	0	0	0	124,414	327,307	335,536	294,577	304,750	273,820	311,458	2,130,077
18. ANOHR (BTU/KWH)	7,109.6	7,453.6	0.0	0.0	0.0	7,390.3	7,172.1	7,155.6	7,162.6	6,981.9	7,252.0	7,172.2	7,163.5
19. NOF (%)	70.56	71.82	0.00	0.00	0.00	79.86	84.44	86.56	84.33	82.94	77.56	80.35	81.55
20. NPC (MW)	521	521	521	521	521	521	521	521	521	521	521	521	521
ANOHR EQUATION:	ANOHR=	-15.726	x NOF +	8,523.87									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 4	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-Dec Period
1. EAF	100.00	100.00	100.00	95.55	100.00	99.88	100.00	95.56	85.37	70.96	54.56	100.00	91.84
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	247.5	657.2	730.9	645.0	734.5	720.0	744.0	712.5	614.7	528.1	348.3	717.2	7,399.8
4. RSH	496.5	14.8	12.1	44.1	9.5	0.0	0.0	0.0	0.0	0.0	45.0	26.8	648.9
5. UH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	31.5	105.3	215.9	327.6	0.0	711.2
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	215.9	327.6	0.0	543.5
7. FOH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	31.5	105.3	0.0	0.1	0.0	167.7
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	7.5	0.0	7.5	0.0	1.3	0.0	0.0	16.3
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	57.9	0.0	58.4	0.0	58.0	0.0	0.0	58.1
11. PFOH	0.0	0.0	0.0	7.7	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	11.9
12. LR PF (MW)	0.0	0.0	0.0	79.6	0.0	0.0	0.0	85.9	0.0	0.0	0.0	0.0	81.8
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	519	519	519	519	519	519	519	519	519	519	519	519	519
16. OPER MBTU	667,790	2,091,980	2,329,870	1,987,870	2,317,060	2,376,670	2,383,620	2,303,390	1,955,770	1,642,590	1,085,780	2,132,920	23,275,310
17. NET GEN (MWH)	96,627	297,969	331,999	285,888	329,922	332,462	331,674	322,359	273,879	237,098	152,629	299,692	3,292,198
18. ANOHR (BTU/KWH)	6,911.0	7,020.8	7,017.7	6,953.3	7,023.1	7,148.7	7,186.6	7,145.4	7,141.0	6,927.9	7,113.9	7,117.0	7,069.8
19. NOF (%)	75.24	87.36	87.53	85.40	86.55	88.97	85.90	87.17	85.85	86.51	84.42	80.51	85.72
20. NPC (MW)	519	519	519	519	519	519	519	519	519	519	519	519	519
ANOHR EQUATION:	ANOHR=	-7.744	x NOF +	7,688.48									

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PLANNED OUTAGE SCHEDULES
ACTUAL

Duke Energy Florida
January 2021 - December 2021

<u>Plant/Unit</u>	<u>Planned Outage Dates</u>	<u>Reason for Outage</u>
Bartow CC	04/17 (0010) - 05/01 (1711)	4B: Gas Turbine - Boroscope Inspection
Bartow CC	06/18 (2331) - 09/14 (2051)	4D: Generator Rotor Windings
Bartow CC	10/23 (0320) - 11/23 (0752)	4S: Inspection
Bartow CC	10/30 (0000) - 11/09 (1624)	4A: Borescope Inspection
Bartow CC	12/03 (2236) - 12/11 (2301)	4B: Fuel piping & valves
Crystal River 5	11/07 (0000) - 12/19 (1149)	Major boiler overhaul
Hines 1	04/10 (2255) - 06/10 (1300)	General Gas Turbine Unit Inspection
Hines 2	11/26 (2008) - 12/11 (1633)	General Gas Turbine Unit Inspection
Hines 3	02/13 (0000) - 06/13 (1100)	General Gas Turbine Unit Inspection
Hines 3	06/13 (2317) - 06/14 (2329)	Gas Fuel System with Controls and Instruments
Hines 3	06/19 (2332) - 06/20 (0300)	Generator Voltage Control
Hines 4	10/22 (2332) - 11/16 (1503)	General Unit Inspection

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Planned Outage Schedule - Actual												
January 2021 - December 2021												Duke Energy Florida
	January	February	March	April	May	June	July	August	September	October	November	December
Bartow CC				Boroscope Inspection 4/17 [redacted] 5/1 15 days		6/18 [redacted] 9/14 89 days				Boroscope Inspection 10/23 [redacted] 11/23 32 days	12/3 [redacted] 12/11 9 days	Fuel Piping & Valves
Crystal River 4												
Crystal River 5											Major Boiler Overhaul 11/7 [redacted] 12/19 43 days	
Hines 1				General Gas Turbine Unit Inspection 4/10 [redacted] 6/10 62 days								
Hines 2											General Gas Turbine Unit Inspection 11/26 [redacted] 12/11 16 days	
Hines 3		General Gas Turbine Unit Inspection & Gas Fuel System w/ Controls and Instruments 2/13 [redacted] 6/14 122 days				6/14 Generator Voltage Control 6/19 [redacted] 6/20 2 days						
Hines 4										General Unit Inspection 10/22 [redacted] 11/16 26 days		

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