



Stephanie A. Cuello  
SENIOR COUNSEL

March 17, 2023

**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. 20230001-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 2022 through December 2022; and
- Direct Testimony of Adam R. Bingham with Exhibit No. (ARB-1T).

The Petition was inadvertently omitted from the filing submitted on March 16, 2023 (document number 02273-2023). There are no other changes to the filing. Please replace the aforementioned filing with the attached.

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  
Enclosures

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

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

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Docket No. 20230001-EI

Filed: March 16, 2023

**PETITION FOR APPROVAL OF GPIF RESULTS  
FOR THE PERIOD ENDING DECEMBER 2022**

Duke Energy Florida, LLC (“DEF”) hereby petitions this Commission for approval of its Generating Performance Incentive Factor (“GPIF”) results for the period ending December 2022. 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:

Dianne M. Triplett  
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3. By Order No. PSC-2023-00026-FOF-EI, dated January 6, 2023, the Commission approved DEF's GPIF Targets for the period January 2022 through December 2022. The application of the GPIF formula to DEF's performance during that period produces a reward of \$986,550. Matters relating to the GPIF are contained in the prepared direct testimony of DEF witness Adam R. Bingham 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 2023.

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 16<sup>th</sup> day of March, 2023.

s/Stephanie A. Cuello

Attorney

<p>Suzanne Brownless Ryan Sandy Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:sbrownle@psc.state.fl.us">sbrownle@psc.state.fl.us</a> <a href="mailto:rsandy@psc.state.fl.us">rsandy@psc.state.fl.us</a></p> <p>J. Wahlen / M. Means / V. Ponder Ausley McMullen Tampa Electric Company P.O. Box 391 Tallahassee, FL 32302 <a href="mailto:jwahlen@ausley.com">jwahlen@ausley.com</a> <a href="mailto:mmeans@ausley.com">mmeans@ausley.com</a> <a href="mailto:vponder@ausley.com">vponder@ausley.com</a></p> <p>Kenneth A. Hoffman Florida Power &amp; Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 <a href="mailto:ken.hoffman@fpl.com">ken.hoffman@fpl.com</a></p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 <a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a> <a href="mailto:mqualls@moylelaw.com">mqualls@moylelaw.com</a></p>	<p>P. Christensen/C. Rehwinkel/M. Wessling Office of Public Counsel 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a> <a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a> <a href="mailto:wessling.mary@leg.state.fl.us">wessling.mary@leg.state.fl.us</a></p> <p>Paula K. Brown Regulatory Affairs Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111 <a href="mailto:regdept@tecoenergy.com">regdept@tecoenergy.com</a></p> <p>Maria Moncada / David Lee Florida Power &amp; Light Company 700 Universe Blvd. (LAW/JB) Juno Beach, FL 33408-0420 <a href="mailto:david.lee@fpl.com">david.lee@fpl.com</a> <a href="mailto:maria.moncada@fpl.com">maria.moncada@fpl.com</a></p> <p>James Brew / Laura W. Baker Stone Mattheis Xenopoulos &amp; Brew, P.C. White Springs/PCS Phosphate 1025 Thomas Jefferson St., N.W. Eighth Floor, West Tower Washington, DC 20007 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:lwb@smxblaw.com">lwb@smxblaw.com</a></p> <p>George Cavros Southern Alliance for Clean Energy 120 E. Oakland Park Blvd., Suite 105 Fort Lauderdale, Florida 33334 <a href="mailto:george@cavros-law.com">george@cavros-law.com</a></p>	<p>Mike Cassel Florida Public Utilities Company 208 Wildlight Avenue Yulee, FL 32097 <a href="mailto:mcassel@fpuc.com">mcassel@fpuc.com</a></p> <p>Michelle D. Napier Florida Public Utilities Company 1635 Meathe Drive West Palm Beach, FL 33411 <a href="mailto:mnapier@fpuc.com">mnapier@fpuc.com</a></p> <p>Beth Keating Gunster, Yoakley &amp; Stewart, P.A. FPUC 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 <a href="mailto:bkeating@gunster.com">bkeating@gunster.com</a></p> <p>Robert Scheffel Wright John T. LaVia, III Florida Retail Federation Gardner, Bist, Bowden, Dec, LaVia, Wright, Perry, &amp; Harper, P.A. 1300 Thomaswood Drive Tallahassee, FL 32308 <a href="mailto:schef@gbwlegal.com">schef@gbwlegal.com</a> <a href="mailto:jlavia@gbwlegal.com">jlavia@gbwlegal.com</a></p> <p>Peter J. Mattheis / Michael K. Lavanga Joseph R. Briscar Nucor c/o Stone Mattheis Xenopoulos &amp; Brew, PC 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 <a href="mailto:pjm@smxblaw.com">pjm@smxblaw.com</a> <a href="mailto:mkl@smxblaw.com">mkl@smxblaw.com</a> <a href="mailto:jrb@smxblaw.com">jrb@smxblaw.com</a></p>
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**DUKE ENERGY FLORIDA, LLC**

**DOCKET NO. 20230001-EI**

**GPIF Schedules for  
January through December 2022**

**DIRECT TESTIMONY OF  
ADAM ROSS BINGHAM**

**March 16, 2023**

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

2 A. My name is Adam Bingham. 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 Florida, LLC (“DEF”) as a Lead Fuels and  
7 Fleet Analyst for Fuels and Systems Optimization.

8

9 **Q. Describe your responsibilities as a Lead Fuels and Fleet Analyst.**

10 A. As a Lead Fuels and Fleet Analyst for Fuels and Systems Optimization, I  
11 analyze and model energy portfolios for DEF. My responsibilities include  
12 planning and coordination associated with economic system operations,  
13 including production cost modeling, outage coordination, dispatch pricing,  
14 fuel burn forecasting, position analysis, and commodities analytics.

1 **Q. Please describe your educational background and professional**  
2 **experience.**

3 A. I earned Bachelor of Science and Master of Science degrees in Nuclear  
4 Engineering from Texas A&M University in 2007 and 2009, respectively.  
5 After graduation, I began working for Duke Energy in the Nuclear Fuels  
6 Engineering department located in Charlotte, NC, as an Engineer I in the  
7 Safety Analysis group. As a Safety Analysis engineer, my responsibilities  
8 included performing steady-state and transient computational analysis for a  
9 variety of nuclear reactor designs to support fuel reload activities and ensure  
10 plant changes comply with design and licensing basis requirements. In 2012,  
11 I acquired my Professional Engineer license for the state of North Carolina,  
12 which I actively hold today, and in 2013, I was promoted to Senior Engineer.  
13 In 2017, I moved to Nuclear Design within the Nuclear Fuels Engineering  
14 department as a Senior Engineer, where I performed quantitative analyses  
15 to support reload activities that design the fuel loading requirements for each  
16 nuclear plant. Additionally, I took on the role of fleet lead for developing and  
17 implementing new core monitoring software for all Westinghouse-designed  
18 nuclear power plants operated by Duke Energy and its subsidiaries. In 2019,  
19 I joined the Fuels and System Optimization department as a Senior Analyst  
20 in the Fuels and Fleet Analytics group. Within this role, I performed  
21 production cost modeling and system optimization analyses for DEF's  
22 portfolio of generating units, power purchases and sales. As part of this  
23 transition, I also became the coordinator of DEF's Generating Incentive  
24 Factor (GPIF) program. In 2022, I was promoted to the position of Lead  
25 Fuels & Fleet Analyst.

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

2 A. The purpose of my testimony is to describe the calculation of DEF's  
3 Generating Performance Incentive Factor ("GPIF") reward/(penalty) amount  
4 for the period of January through December 2022. This calculation was  
5 based on a comparison of the actual performance of DEF's Seven (7) GPIF  
6 generating units for this period against the approved targets set for these  
7 units prior to the actual performance period.

8

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

10 A. Yes, I am sponsoring Exhibit No. \_\_\_\_\_ (ARB-1T), which consists of the  
11 schedules required by the GPIF Implementation Manual to support the  
12 development of the incentive amount. This 24-page exhibit is attached to  
13 my prepared testimony and includes as its first page an index to the contents  
14 of the exhibit.

15

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

17 A. DEF's calculated GPIF incentive amount is a reward of \$986,550. This  
18 amount was developed in a manner consistent with the GPIF  
19 Implementation Manual. Page 2 of my exhibit shows the system GPIF points  
20 and the corresponding reward/(penalty). The summary of weighted  
21 incentive points earned by each individual unit can be found on page 4 of  
22 my exhibit.

23

24

1 **Q. How were the incentive points for equivalent availability and heat rate**  
2 **calculated for the individual GPIF units?**

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

8  
9 **Q. Why is it necessary to make adjustments to the actual performance**  
10 **data for comparison with the targets?**

11 A. Adjustments to the actual equivalent availability and heat rate data are  
12 necessary to allow their comparison with the "target" Point Tables exactly as  
13 approved by the Commission. These adjustments are described in the  
14 Implementation Manual and are further explained by a Staff memorandum,  
15 dated October 23, 1981, directed to the GPIF utilities. The adjustments to  
16 actual equivalent availability primarily concern the differences between  
17 target and actual planned outage hours and are shown on page 7 of my  
18 exhibit. The heat rate adjustments concern the differences between the  
19 target and actual Net Output Factor (NOF) and are shown on page 8. The  
20 methodology for both the equivalent availability and heat rate adjustments  
21 are explained in the Staff memorandum.

22  
23 In addition, the Bartow CC unit had data excluded during the period in which  
24 its steam turbine was in a planned outage. The Bartow CC unit has the  
25 capability to be operated in simple cycle mode while the steam turbine is in



1 an outage. When operating in simple cycle mode, the unit's heat rate will  
2 deviate significantly from its normal range. DEF's heat rate target setting  
3 process for the Bartow CC unit excludes historical data from periods when  
4 the unit operated in simple cycle mode. From mid-October until mid-  
5 November 2022 the steam turbine was in a planned outage; during this  
6 period the Bartow CC unit was operated in simple cycle. To be consistent  
7 with the target setting process, simple cycle mode heat rate data was  
8 excluded from actuals for the purposes of calculating the heat rate for the  
9 Bartow CC in year 2022 during those times when the unit was being  
10 operated in simple cycle mode as the result of a planned outage.

11  
12 **Q. Have you provided the as-worked planned outage schedules for DEF's**  
13 **GPIF units to support your adjustments to actual equivalent**  
14 **availability?**

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

18  
19 **Q. Does this conclude your testimony?**

20 A. Yes.

## **GPIF REWARD/PENALTY SCHEDULES**

<b><u>Description</u></b>	<b><u>Sheet</u></b>
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 2022 - December 2022

Generating Performance Incentive Points (GPIF)	Fuel Savings/Loss (\$)	Generating Performance Incentive Factor (\$)
10	\$ 35,296,962	\$ 17,648,481
9	\$ 31,767,266	\$ 15,883,633
8	\$ 28,237,570	\$ 14,118,785
7	\$ 24,707,873	\$ 12,353,937
6	\$ 21,178,177	\$ 10,589,089
5	\$ 17,648,481	\$ 8,824,241
4	\$ 14,118,785	\$ 7,059,392
3	\$ 10,589,089	\$ 5,294,544
2	\$ 7,059,392	\$ 3,529,696
1	\$ 3,529,696	\$ 1,764,848
**** 0.559	\$ 1,973,100	\$ 986,550
0	\$ -	\$ -
-1	\$ (4,382,269)	\$ (1,764,848)
-2	\$ (8,764,538)	\$ (3,529,696)
-3	\$ (13,146,808)	\$ (5,294,544)
-4	\$ (17,529,077)	\$ (7,059,392)
-5	\$ (21,911,346)	\$ (8,824,241)
-6	\$ (26,293,615)	\$ (10,589,089)
-7	\$ (30,675,885)	\$ (12,353,937)
-8	\$ (35,058,154)	\$ (14,118,785)
-9	\$ (39,440,423)	\$ (15,883,633)
-10	\$ (43,822,692)	\$ (17,648,481)

Issued by: Duke Energy Florida

Filed:  
Suspended:  
Effective:  
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Order No.:

GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

Duke Energy Florida  
January 2022 - December 2022

1	Beginning of period balance of common equity	\$ 8,294,963,301	
	END OF MONTH BALANCE OF COMMON EQUITY:		
2	Month of JANUARY 2022	\$ 8,628,786,649	
3	Month of FEBRUARY 2022	\$ 8,633,001,331	
4	Month of MARCH 2022	\$ 8,663,434,483	
5	Month of APRIL 2022	\$ 8,734,817,932	
6	Month of MAY 2022	\$ 8,791,909,391	
7	Month of JUNE 2022	\$ 8,722,046,903	
8	Month of JULY 2022	\$ 8,822,933,894	
9	Month of AUGUST 2022	\$ 8,956,068,437	
10	Month of SEPTEMBER 2022	\$ 9,034,103,871	
11	Month of OCTOBER 2022	\$ 9,104,330,013	
12	Month of NOVEMBER 2022	\$ 8,969,858,014	
13	Month of DECEMBER 2022	\$ 9,022,898,320	
14	Average common equity for the period	\$ 8,798,396,349	
15	25 Basis Points	0.0025	
16	Revenue Expansion Factor	74.4555%	
17	Maximum allowed incentive dollars	\$ 29,542,486	
18	Jurisdictional Sales *	40,510,215	MWH
19	Total Sales *	40,889,121	MWH
20	Jurisdictional Separation Factor	99.0700%	
21	Maximum allowed jurisdictional incentive dollars	\$ 29,267,741	
22	Incentive Cap (50% of Projected Fuel Savings at 10 GPIF Point Level) From Sheet No. 6.101.1	\$ 17,648,481	
23	Maximum Allowed GPIF Reward (Lesser of Line 21 and Line 22)	\$ 17,648,481	
*	Net sales (Sales - Interruptible)		

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Duke Energy Florida  
January 2022 - December 2022

<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	0.54	3.854	0.021
	ANOHR	19.09	0.000	0.000
Crystal River 4	EAF	19.40	5.402	1.048
	ANOHR	16.46	-3.495	-0.575
Crystal River 5	EAF	10.52	6.045	0.636
	ANOHR	16.70	-1.419	-0.237
Hines 1	EAF	0.86	3.023	0.026
	ANOHR	2.67	0.154	0.004
Hines 2	EAF	0.55	-10.000	-0.055
	ANOHR	2.13	-10.000	-0.213
Hines 3	EAF	0.48	-8.124	-0.039
	ANOHR	4.68	0.000	0.000
Hines 4	EAF	0.57	-10.000	-0.057
	ANOHR	5.35	0.000	0.000
GPIF System		100.00		0.559

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GENERATION PERFORMANCE INCENTIVE FACTOR  
GPIF UNIT PERFORMANCE SUMMARY

Duke Energy Florida  
January 2022 - December 2022

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	0.54	82.04	85.08	75.83	\$191	(\$1,689)	83.21	\$74
Crystal River 4	19.40	69.57	78.31	52.46	\$6,846	(\$11,103)	74.29	\$3,698
Crystal River 5	10.52	74.10	79.02	64.29	\$3,714	(\$5,719)	77.07	\$2,245
Hines 1	0.86	89.40	91.66	84.90	\$304	(\$509)	90.09	\$92
Hines 2	0.55	89.32	89.84	88.26	\$194	(\$97)	86.61	(\$97)
Hines 3	0.48	93.62	94.82	91.14	\$168	(\$403)	91.61	(\$328)
Hines 4	0.57	85.09	86.44	82.24	\$201	(\$625)	73.47	(\$625)
GPIF System	32.92				\$11,620.0	(\$20,145.7)		\$5,059.7

Plant/Unit	Weighting Factor (%)	ANOHR Target		ANOHR RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	ANOHR Adjusted Actual (Btu/kwh)	Estimated
		(BTU/KWH)	NOF	Min. (Btu/kwh)	Max. (Btu/kwh)				Fuel Savings/ Loss (\$000)
Bartow CC	19.09	7,758	67.5	7,441	8,075	\$6,738	(\$6,738)	7,751	\$0
Crystal River 4	16.46	9,472	92.3	8,963	9,980	\$5,809	(\$5,809)	9,698	(\$2,030)
Crystal River 5	16.70	9,802	80.0	9,208	10,397	\$5,895	(\$5,895)	9,951	(\$836)
Hines 1	2.67	7,705	67.5	7,538	7,871	\$944	(\$944)	7,628	\$15
Hines 2	2.13	7,550	71.7	7,436	7,664	\$751	(\$751)	7,779	(\$751)
Hines 3	4.68	7,394	70.6	7,219	7,570	\$1,653	(\$1,653)	7,341	\$0
Hines 4	5.35	7,057	81.5	6,878	7,237	\$1,888	(\$1,888)	7,120	\$0
GPIF System	67.08					\$23,677.0	(\$23,677.0)		(\$3,603.1)

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Original Sheet No. 6.101.5

GENERATION PERFORMANCE INCENTIVE FACTOR  
ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida  
January 2022 - December 2022

Plant/Unit	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	ADJUSTED ACTUAL EAF %
Bartow CC	88.47	-5.26	83.21
Crystal River 4	72.67	1.62	74.29
Crystal River 5	85.62	-8.55	77.07
Hines 1	95.57	-5.49	90.09
Hines 2	79.90	6.71	86.61
Hines 3	92.44	-0.83	91.61
Hines 4	78.01	-4.54	73.47

Plant/Unit	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ADJUSTED ACTUAL ANOHR BTU/KWH
Bartow CC	7,548.1	202.5	7,750.6
Crystal River 4	11,227.8	-1,529.8	9,698.0
Crystal River 5	10,898.9	-948.0	9,950.9
Hines 1	7,354.1	274.0	7,628.1
Hines 2	7,728.1	50.9	7,778.9
Hines 3	7,186.4	154.9	7,341.3
Hines 4	7,119.6	0.4	7,120.0

(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 2022 - December 2022

EAF adjustments for Planned Outage Hours			Bartow CC <u>BA4</u>	Crystal River 4 <u>CR4</u>	Crystal River 5 <u>CR5</u>	Hines 1 <u>HN1</u>	Hines 2 <u>HN2</u>	Hines 3 <u>HN3</u>	Hines 4 <u>HN4</u>
1	Actual POH	Hrs.	517.90	1,177.52	521.43	1.26	1,453.24	259.47	579.96
2	Target POH	Hrs.	1,008.00	1,008.00	1,344.00	504.00	840.00	336.00	1,056.00
3	Adj. Factor (PH-POHT/PH-POHA)		0.94	1.02	0.90	0.94	1.08	0.99	0.94
4	Actual EUOH	Hrs.	491.95	1,216.93	738.15	386.62	307.32	402.77	1,346.10
5	Adj. EUOH (3*4)	Hrs.	462.70	1,244.14	664.45	364.43	333.11	399.14	1,267.77
6	Actual EAF	%	88.47	72.67	85.62	95.57	79.90	92.44	78.01
7	Adjusted EAF (using 2 & 5)	%	83.21	74.29	77.07	90.09	86.61	91.61	73.47
8	Difference (7-6)	%	-5.26	1.62	-8.55	-5.49	6.71	-0.83	-4.54
9	Total adj. to EAF	%	-5.26	1.62	-8.55	-5.49	6.71	-0.83	-4.54

Issued by: Duke Energy Florida

Filed:  
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GENERATION PERFORMANCE INCENTIVE FACTOR  
ADJUSTMENTS TO ANOHR ACTUAL

Duke Energy Florida  
January 2022 - December 2022

ANOHR adjustments for			Bartow CC	Crystal River 4	Crystal River 5	Hines 1	Hines 2	Hines 3	Hines 4
Target NOF			<u>BA4</u>	<u>CR4</u>	<u>CR5</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Target NOF	%	67.5	92.3	80.0	67.5	71.7	70.6	81.5
2	Target ANOHR	Btu/kwh	7757.9	9471.6	9802.2	7704.5	7550.0	7394.4	7057.3
3	Actual NOF	%	83.1	47.6	51.5	82.2	77.2	82.3	81.5
4	Calc. ANOHR (using 3)	Btu/kwh	7,555.4	11,001.4	10,750.2	7,430.5	7,499.1	7,239.5	7,056.9
5	Total adj. to ANOHR (2-4)	Btu/kwh	202.5	-1529.8	-948.0	274.0	50.9	154.9	0.4

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

Unit: Bartow CC

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$191,204	85.08	10	\$6,737,723	7,441.0
9	\$172,083	84.77	9	\$6,063,951	7,465.2
8	\$152,963	84.47	8	\$5,390,178	7,489.4
7	\$133,843	84.17	7	\$4,716,406	7,513.6
6	\$114,722	83.86	6	\$4,042,634	7,537.8
5	\$95,602	83.56	5	\$3,368,861	7,562.0
4	\$76,481	83.26	4	\$2,695,089	7,586.2
**** 3.854	\$73,690	83.21	3	\$2,021,317	7,610.4
3	\$57,361	82.95	2	\$1,347,545	7,634.5
2	\$38,241	82.65	1	\$673,772	7,658.7
1	\$19,120	82.35	0	\$0	7,682.9
	\$0	82.04	0.000	\$0	7,750.6 ****
0	\$0	82.04	0	\$0	7,757.9
	\$0	82.04	0	\$0	7,832.9
-1	(\$168,908)	81.42	-1	(\$673,772)	7,857.1
-2	(\$337,817)	80.80	-2	(\$1,347,545)	7,881.3
-3	(\$506,725)	80.18	-3	(\$2,021,317)	7,905.5
-4	(\$675,634)	79.56	-4	(\$2,695,089)	7,929.7
-5	(\$844,542)	78.93	-5	(\$3,368,861)	7,953.9
-6	(\$1,013,451)	78.31	-6	(\$4,042,634)	7,978.1
-7	(\$1,182,359)	77.69	-7	(\$4,716,406)	8,002.2
-8	(\$1,351,268)	77.07	-8	(\$5,390,178)	8,026.4
-9	(\$1,520,176)	76.45	-9	(\$6,063,951)	8,050.6
-10	(\$1,689,084)	75.83	-10	(\$6,737,723)	8,074.8

Equivalent Availability  
Weighting Factor:  
-----  
0.54%

Heat Rate  
Weighting Factor:  
-----  
19.09%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

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	\$6,845,968	78.31	10	\$5,808,668	8,963.3
9	\$6,161,371	77.43	9	\$5,227,802	9,006.6
8	\$5,476,774	76.56	8	\$4,646,935	9,049.9
7	\$4,792,177	75.69	7	\$4,066,068	9,093.3
6	\$4,107,581	74.81	6	\$3,485,201	9,136.6
**** 5.402	\$3,698,192	74.29	5	\$2,904,334	9,179.9
5	\$3,422,984	73.94	4	\$2,323,467	9,223.3
4	\$2,738,387	73.07	3	\$1,742,601	9,266.6
3	\$2,053,790	72.19	2	\$1,161,734	9,309.9
2	\$1,369,194	71.32	1	\$580,867	9,353.2
1	\$684,597	70.44	0	\$0	9,396.6
	\$0	69.57	0	\$0	9,471.6
0	\$0	69.57	0	\$0	9,546.6
	\$0	69.57	-1	(\$580,867)	9,589.9
-1	(\$1,110,321)	67.86	-2	(\$1,161,734)	9,633.2
-2	(\$2,220,641)	66.15	-3	(\$1,742,601)	9,676.6
-3	(\$3,330,962)	64.44	-3.495	(\$2,030,130)	9,698.0 ****
-4	(\$4,441,282)	62.73	-4	(\$2,323,467)	9,719.9
-5	(\$5,551,603)	61.02	-5	(\$2,904,334)	9,763.2
-6	(\$6,661,923)	59.31	-6	(\$3,485,201)	9,806.5
-7	(\$7,772,244)	57.60	-7	(\$4,066,068)	9,849.9
-8	(\$8,882,564)	55.89	-8	(\$4,646,935)	9,893.2
-9	(\$9,992,885)	54.17	-9	(\$5,227,802)	9,936.5
-10	(\$11,103,205)	52.46	-10	(\$5,808,668)	9,979.9

Equivalent Availability  
Weighting Factor:  
-----  
19.40%

Heat Rate  
Weighting Factor:  
-----  
16.46%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

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	\$3,714,442	79.02	10	\$5,894,687	9,207.6
9	\$3,342,998	78.53	9	\$5,305,219	9,259.5
8	\$2,971,554	78.03	8	\$4,715,750	9,311.5
7	\$2,600,110	77.54	7	\$4,126,281	9,363.5
**** 6.045	\$2,245,380	77.07	6	\$3,536,812	9,415.4
6	\$2,228,665	77.05	5	\$2,947,344	9,467.4
5	\$1,857,221	76.56	4	\$2,357,875	9,519.3
4	\$1,485,777	76.07	3	\$1,768,406	9,571.3
3	\$1,114,333	75.58	2	\$1,178,937	9,623.2
2	\$742,888	75.08	1	\$589,469	9,675.2
1	\$371,444	74.59	0	\$0	9,727.2
	\$0	74.10	0	\$0	9,802.2
0	\$0	74.10	0	\$0	9,877.2
	\$0	74.10	-1	(\$589,469)	9,929.1
-1	(\$571,906)	73.12	-1.419	(\$836,456)	9,950.9 ****
-2	(\$1,143,812)	72.14	-2	(\$1,178,937)	9,981.1
-3	(\$1,715,717)	71.16	-3	(\$1,768,406)	10,033.0
-4	(\$2,287,623)	70.18	-4	(\$2,357,875)	10,085.0
-5	(\$2,859,529)	69.19	-5	(\$2,947,344)	10,136.9
-6	(\$3,431,435)	68.21	-6	(\$3,536,812)	10,188.9
-7	(\$4,003,340)	67.23	-7	(\$4,126,281)	10,240.8
-8	(\$4,575,246)	66.25	-8	(\$4,715,750)	10,292.8
-9	(\$5,147,152)	65.27	-9	(\$5,305,219)	10,344.8
-10	(\$5,719,058)	64.29	-10	(\$5,894,687)	10,396.7

Equivalent Availability  
Weighting Factor:  
-----  
10.52%

Heat Rate  
Weighting Factor:  
-----  
16.70%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

Unit: Hines 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$304,312	91.66	10	\$943,538	7,538.1
9	\$273,880	91.43	9	\$849,184	7,547.3
8	\$243,449	91.21	8	\$754,831	7,556.4
7	\$213,018	90.98	7	\$660,477	7,565.5
6	\$182,587	90.76	6	\$566,123	7,574.7
5	\$152,156	90.53	5	\$471,769	7,583.8
4	\$121,725	90.31	4	\$377,415	7,593.0
**** 3.023	\$91,993	90.09	3	\$283,061	7,602.1
3	\$91,293	90.08	2	\$188,708	7,611.2
2	\$60,862	89.86	1	\$94,354	7,620.4
1	\$30,431	89.63	0.154	\$14,530	7,628.1 ****
	\$0	89.40	0	\$0	7,629.5
0	\$0	89.40	0	\$0	7,704.5
	\$0	89.40	0	\$0	7,779.5
-1	(\$50,919)	88.95	-1	(\$94,354)	7,788.6
-2	(\$101,838)	88.50	-2	(\$188,708)	7,797.8
-3	(\$152,757)	88.05	-3	(\$283,061)	7,806.9
-4	(\$203,675)	87.60	-4	(\$377,415)	7,816.1
-5	(\$254,594)	87.15	-5	(\$471,769)	7,825.2
-6	(\$305,513)	86.70	-6	(\$566,123)	7,834.3
-7	(\$356,432)	86.25	-7	(\$660,477)	7,843.5
-8	(\$407,351)	85.80	-8	(\$754,831)	7,852.6
-9	(\$458,270)	85.35	-9	(\$849,184)	7,861.7
-10	(\$509,189)	84.90	-10	(\$943,538)	7,870.9

Equivalent Availability  
Weighting Factor:  
-----  
0.86%

Heat Rate  
Weighting Factor:  
-----  
2.67%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

Unit: Hines 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$194,494	89.84	10	\$751,048	7,436.3
9	\$175,044	89.79	9	\$675,943	7,440.2
8	\$155,595	89.74	8	\$600,839	7,444.0
7	\$136,145	89.68	7	\$525,734	7,447.9
6	\$116,696	89.63	6	\$450,629	7,451.8
5	\$97,247	89.58	5	\$375,524	7,455.6
4	\$77,797	89.53	4	\$300,419	7,459.5
3	\$58,348	89.48	3	\$225,314	7,463.4
2	\$38,899	89.43	2	\$150,210	7,467.2
1	\$19,449	89.38	1	\$75,105	7,471.1
	\$0	89.32	0	\$0	7,475.0
0	\$0	89.32	0	\$0	7,550.0
	\$0	89.32	0	\$0	7,625.0
-1	(\$9,690)	89.22	-1	(\$75,105)	7,628.8
-2	(\$19,381)	89.11	-2	(\$150,210)	7,632.7
-3	(\$29,071)	89.00	-3	(\$225,314)	7,636.6
-4	(\$38,762)	88.90	-4	(\$300,419)	7,640.4
-5	(\$48,452)	88.79	-5	(\$375,524)	7,644.3
-6	(\$58,143)	88.68	-6	(\$450,629)	7,648.2
-7	(\$67,833)	88.58	-7	(\$525,734)	7,652.0
-8	(\$77,524)	88.47	-8	(\$600,839)	7,655.9
-9	(\$87,214)	88.36	-9	(\$675,943)	7,659.8
-10	(\$96,905)	88.26	-10	(\$751,048)	7,663.7
****	(\$96,905)	88.26	-10	(\$751,048)	7,663.7 ****

Equivalent Availability  
Weighting Factor:  
-----  
0.55%

Heat Rate  
Weighting Factor:  
-----  
2.13%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

Unit: Hines 3

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$168,099	94.82	10	\$1,652,897	7,219.0
9	\$151,289	94.70	9	\$1,487,607	7,229.1
8	\$134,479	94.58	8	\$1,322,317	7,239.1
7	\$117,669	94.46	7	\$1,157,028	7,249.1
6	\$100,859	94.34	6	\$991,738	7,259.2
5	\$84,049	94.22	5	\$826,448	7,269.2
4	\$67,239	94.10	4	\$661,159	7,279.2
3	\$50,430	93.98	3	\$495,869	7,289.3
2	\$33,620	93.86	2	\$330,579	7,299.3
1	\$16,810	93.74	1	\$165,290	7,309.3
	\$0	93.62	0	\$0	7,319.4
0	\$0	93.62	0.000	\$0	7,341.3 ****
	\$0	93.62	0	\$0	7,394.4
-1	(\$40,313)	93.37	0	\$0	7,469.4
-2	(\$80,626)	93.13	-1	(\$165,290)	7,479.4
-3	(\$120,939)	92.88	-2	(\$330,579)	7,489.4
-4	(\$161,252)	92.63	-3	(\$495,869)	7,499.5
-5	(\$201,564)	92.38	-4	(\$661,159)	7,509.5
-6	(\$241,877)	92.13	-5	(\$826,448)	7,519.6
-7	(\$282,190)	91.89	-6	(\$991,738)	7,529.6
-8	(\$322,503)	91.64	-7	(\$1,157,028)	7,539.6
**** -8.124	(\$327,502)	91.61	-8	(\$1,322,317)	7,549.7
-9	(\$362,816)	91.39	-9	(\$1,487,607)	7,559.7
-10	(\$403,129)	91.14	-10	(\$1,652,897)	7,569.7

Equivalent Availability  
Weighting Factor:  
-----  
0.48%

Heat Rate  
Weighting Factor:  
-----  
4.68%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida  
January 2022 - December 2022

Unit: Hines 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$201,457	86.44	10	\$1,888,426	6,877.6
9	\$181,311	86.31	9	\$1,699,583	6,888.1
8	\$161,166	86.17	8	\$1,510,741	6,898.6
7	\$141,020	86.04	7	\$1,321,898	6,909.0
6	\$120,874	85.90	6	\$1,133,055	6,919.5
5	\$100,728	85.76	5	\$944,213	6,930.0
4	\$80,583	85.63	4	\$755,370	6,940.4
3	\$60,437	85.49	3	\$566,528	6,950.9
2	\$40,291	85.36	2	\$377,685	6,961.4
1	\$20,146	85.22	1	\$188,843	6,971.8
	\$0	85.09	0	\$0	6,982.3
0	\$0	85.09	0.000	\$0	7,120.0 ****
	\$0	85.09	0	\$0	7,057.3
-1	(\$62,514)	84.80	0	\$0	7,132.3
-2	(\$125,027)	84.52	-1	(\$188,843)	7,142.8
-3	(\$187,541)	84.23	-2	(\$377,685)	7,153.2
-4	(\$250,054)	83.95	-3	(\$566,528)	7,163.7
-5	(\$312,568)	83.66	-4	(\$755,370)	7,174.2
-6	(\$375,081)	83.38	-5	(\$944,213)	7,184.6
-7	(\$437,595)	83.09	-6	(\$1,133,055)	7,195.1
-8	(\$500,108)	82.81	-7	(\$1,321,898)	7,205.5
-9	(\$562,622)	82.52	-8	(\$1,510,741)	7,216.0
-10	(\$625,135)	82.24	-9	(\$1,699,583)	7,226.5
****	(\$625,135)	82.24	-10	(\$1,888,426)	7,236.9

Equivalent Availability  
Weighting Factor:  
-----  
0.57%

Heat Rate  
Weighting Factor:  
-----  
5.35%

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Bartow CC	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	82.13	84.53	83.83	89.97	93.97	98.06	99.23	97.11	90.23	89.34	57.09	95.22	88.47
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	575.3	482.6	565.3	625.1	681.2	706.1	738.2	718.5	642.5	608.4	338.5	629.1	6,902.7
4. RSH	35.7	85.5	57.6	22.7	18.0	0.0	0.7	3.9	7.1	67.5	77.4	79.4	455.4
5. UH	132.9	104.0	120.1	72.2	44.8	13.9	5.1	21.5	70.4	68.2	305.2	35.6	993.9
6. POH	0.0	60.5	56.5	53.6	0.0	1.0	0.8	0.0	0.0	37.1	297.2	0.0	506.8
7. FOH	86.3	4.4	53.9	8.4	2.1	0.5	0.0	21.5	69.9	31.1	0.2	29.8	308.0
8. MOH	46.6	39.0	9.8	10.2	42.8	12.5	4.3	0.0	0.5	0.0	7.7	5.8	179.1
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.7	0.0	0.0	70.7
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.0	0.0	0.0	175.0
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.0	26.9
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.0	0.0	175.0
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	8.4
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	76.0	0.0	0.0	0.0	0.0	0.0	76.0
15. NSC (MW)	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
16. OPER MBTU	3,419,170	2,526,080	3,226,540	4,198,730	5,280,350	5,181,640	5,476,890	5,239,800	4,793,430	3,836,410	821,978	4,167,340	48,168,358
17. NET GEN (MWH)	449,201	333,568	425,749	561,625	669,270	704,122	740,475	703,914	632,253	511,311	103,126	546,873	6,381,486
18. ANOHR (BTU/KWH)	7,611.7	7,572.9	7,578.5	7,476.0	7,889.7	7,359.0	7,396.5	7,443.8	7,581.5	7,503.1	7,970.6	7,620.3	7,548.1
19. NOF (%)	70.21	62.16	67.73	80.79	88.35	89.68	90.21	88.10	88.49	75.58	27.40	78.18	83.14
20. NPC (MW)	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
ANOHR EQUATION:	ANOHR=	-12.928	x NOF +	8,630.24									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Crystal River 4	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	97.52	45.54	0.00	57.27	74.92	98.14	88.88	57.53	58.07	97.47	96.08	98.42	72.67
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	134.2	350.5	0.0	427.5	628.4	709.9	744.0	443.2	419.3	316.0	721.0	744.0	5,637.9
4. RSH	607.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	428.0	0.0	0.0	1,035.2
5. UH	2.7	321.5	743.0	292.5	115.6	10.1	0.0	300.8	300.8	0.0	0.0	0.0	2,086.9
6. POH	0.0	321.5	743.0	106.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,171.4
7. FOH	2.7	0.0	0.0	32.2	0.0	0.0	0.0	0.0	143.9	0.0	0.0	0.0	178.8
8. MOH	0.0	0.0	0.0	153.4	115.6	10.1	0.0	300.8	156.9	0.0	0.0	0.0	736.8
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	18.0	0.0	36.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122.0	122.0	0.0	122.0
11. PFOH	81.3	36.0	0.0	328.6	209.3	0.0	550.5	398.1	2.1	35.5	128.0	94.4	1,863.8
12. LR PF (MW)	138.0	284.0	0.0	32.8	229.0	0.0	107.0	27.1	403.0	188.0	123.5	88.9	97.4
13. PMOH	0.0	191.5	0.0	0.0	16.0	4.5	0.0	0.0	0.0	37.0	4.5	0.0	253.5
14. LR PM (MW)	0.0	112.0	0.0	0.0	162.0	522.0	0.0	0.0	0.0	122.0	474.0	0.0	130.3
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
16. OPER MBTU	659,960	1,625,780	0	1,788,120	2,478,600	2,671,650	2,913,290	1,559,970	1,278,340	808,120	2,689,020	2,995,930	21,468,780
17. NET GEN (MWH)	54,903	158,983	0	163,666	228,055	232,481	256,607	132,448	108,689	67,782	236,587	271,903	1,912,104
18. ANOHR (BTU/KWH)	12,020.5	10,226.1	0.0	10,925.4	10,868.4	11,491.9	11,353.1	11,778.0	11,761.4	11,922.3	11,365.9	11,018.4	11,227.8
19. NOF (%)	57.48	63.70	0.00	53.77	50.97	45.99	48.44	41.97	36.41	30.13	46.09	51.33	47.63
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
ANOHR EQUATION:	ANOHR=	-34.269	x NOF +	12,633.75									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Crystal River 5	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	94.17	96.46	53.64	98.73	81.21	89.20	91.60	96.60	99.69	88.51	98.79	41.26	85.62
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	308.2	672.0	404.0	720.0	653.8	664.0	577.8	718.7	720.0	510.3	721.0	176.0	6,845.8
4. RSH	407.5	0.0	0.0	0.0	0.0	44.0	166.2	0.0	0.0	233.8	0.0	131.0	982.4
5. UH	28.3	0.0	339.0	0.0	90.2	12.0	0.0	25.3	0.0	0.0	0.0	437.0	931.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	437.0	437.0
7. FOH	28.3	0.0	0.0	0.0	12.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5
8. MOH	0.0	0.0	339.0	0.0	78.0	0.0	0.0	25.3	0.0	0.0	0.0	0.0	442.3
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	216.0	3.0	0.0	219.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	266.3	460.0	0.0	269.0
11. PFOH	39.5	5.0	7.3	30.6	164.8	195.2	84.2	0.0	7.0	12.4	48.0	0.0	593.9
12. LR PF (MW)	132.1	48.0	127.9	79.0	210.2	235.2	518.0	0.0	222.0	173.2	98.0	0.0	238.0
13. PMOH	49.0	38.0	17.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0
14. LR PM (MW)	108.0	430.9	169.8	246.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	237.5
15. NSC (MW)	698	698	698	698	698	698	698	698	698	698	698	698	698
16. OPER MBTU	1,550,860	2,936,440	1,888,620	3,342,620	2,194,850	2,369,740	2,092,820	2,569,090	2,477,480	1,703,010	2,772,020	941,440	26,838,990
17. NET GEN (MWH)	148,260	282,839	177,541	326,415	196,551	212,893	187,838	224,577	220,644	143,197	250,015	91,761	2,462,531
18. ANOHR (BTU/KWH)	10,460.4	10,382.0	10,637.7	10,240.4	11,166.8	11,131.1	11,141.6	11,439.7	11,228.4	11,892.8	11,087.4	10,259.7	10,898.9
19. NOF (%)	68.93	60.30	62.96	64.95	43.07	45.93	46.57	44.77	43.90	40.21	49.68	74.69	51.53
20. NPC (MW)	698	698	698	698	698	698	698	698	698	698	698	698	698
ANOHR EQUATION:	ANOHR=	-33.268	x NOF +	12,464.67									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 1	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	95.98	90.85	98.49	100.00	94.06	80.39	100.00	99.86	92.23	94.23	100.00	100.00	95.57
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	714.6	579.4	732.0	720.0	707.8	589.1	744.0	744.0	664.3	635.8	721.0	744.0	8,296.0
4. RSH	0.0	36.7	0.0	0.0	0.0	3.3	0.0	0.0	0.0	65.2	0.0	0.0	105.3
5. UH	29.4	55.9	11.0	0.0	36.2	127.6	0.0	0.0	55.7	43.0	0.0	0.0	358.8
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	29.3	21.1	11.0	0.0	19.4	40.0	0.0	0.0	55.7	43.0	0.0	0.0	219.4
8. MOH	0.1	34.8	0.0	0.0	16.9	87.6	0.0	0.0	0.0	0.0	0.0	0.0	139.3
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	1.5	0.0	0.0	0.0	8.5
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.4	74.0	0.0	0.0	0.0	72.7
11. PFOH	3.1	21.2	1.5	0.0	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.9
12. LR PF (MW)	70.5	80.0	82.0	0.0	47.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4
13. PMOH	0.0	12.8	0.0	0.0	16.4	86.6	0.0	0.0	0.0	0.0	0.0	0.0	115.8
14. LR PM (MW)	0.0	82.0	0.0	0.0	72.0	77.0	0.0	0.0	0.0	0.0	0.0	0.0	76.8
15. NSC (MW)	490	490	490	490	490	490	490	490	490	490	490	490	490
16. OPER MBTU	1,961,550	1,462,500	2,070,850	2,255,370	2,156,950	1,700,260	2,321,190	2,319,330	2,031,100	1,978,320	2,179,920	2,124,840	24,562,180
17. NET GEN (MWH)	262,610	194,076	280,437	307,545	293,987	228,432	314,656	315,245	286,651	267,431	301,073	287,794	3,339,937
18. ANOHR (BTU/KWH)	7,469.4	7,535.7	7,384.4	7,333.5	7,336.9	7,443.2	7,376.9	7,357.2	7,085.6	7,397.5	7,240.5	7,383.2	7,354.1
19. NOF (%)	75.00	68.36	78.18	87.17	84.77	79.13	86.31	86.47	88.07	85.84	85.22	78.94	82.16
20. NPC (MW)	490	490	490	490	490	490	490	490	490	490	490	490	490
ANOHR EQUATION:	ANOHR=	-18.653	x NOF +	8,963.04									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 2	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	99.08	100.00	22.77	0.00	67.18	98.32	88.68	98.50	91.68	97.00	98.59	97.88	79.90
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	601.2	599.2	169.2	0.0	509.5	718.1	658.2	744.0	670.5	669.8	706.0	590.5	6,636.2
4. RSH	135.9	72.8	0.0	0.0	13.0	0.0	12.3	0.0	0.0	62.4	15.0	148.3	459.6
5. UH	6.8	0.0	573.8	720.0	221.5	1.9	73.5	0.0	49.6	11.8	0.0	5.3	1,664.1
6. POH	0.0	0.0	573.8	720.0	158.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,452.2
7. FOH	6.8	0.0	0.0	0.0	38.4	1.9	32.0	0.0	49.6	11.8	0.0	5.3	145.7
8. MOH	0.0	0.0	0.0	0.0	24.8	0.0	41.5	0.0	0.0	0.0	0.0	0.0	66.2
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.0	1.5	0.0	0.0	0.0	9.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	62.3	58.7	71.5	0.0	0.0	0.0	61.4
11. PFOH	0.0	0.0	0.0	0.0	282.0	246.3	254.5	254.5	246.3	254.5	246.7	254.5	2,039.4
12. LR PF (MW)	0.0	0.0	0.0	0.0	42.8	22.0	22.0	22.0	22.0	22.0	22.0	22.0	24.9
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)	532	532	532	532	532	532	532	532	532	532	532	532	532
16. OPER MBTU	1,685,920	1,720,830	512,300	0	1,606,940	2,473,820	2,229,680	2,515,830	2,248,470	2,154,470	2,133,850	1,773,920	21,056,030
17. NET GEN (MWH)	222,441	230,555	69,355	0	203,296	318,756	286,066	325,468	293,319	276,500	274,065	224,792	2,724,613
18. ANOHR (BTU/KWH)	7,579.2	7,463.9	7,386.6	0.0	7,904.4	7,760.9	7,794.3	7,729.9	7,665.6	7,791.9	7,785.9	7,891.4	7,728.1
19. NOF (%)	69.54	72.33	77.07	0.00	75.00	83.44	81.70	82.23	82.24	77.59	72.96	71.56	77.17
20. NPC (MW)	532	532	532	532	532	532	532	532	532	532	532	532	532
ANOHR EQUATION:	ANOHR=	-9.236	x NOF +	8,211.88									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 3	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	82.12	99.77	100.00	100.00	100.00	97.88	99.84	100.00	75.90	97.14	90.47	66.71	92.44
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	578.1	609.7	743.0	720.0	744.0	690.7	744.0	744.0	541.6	722.7	441.7	447.5	7,726.9
4. RSH	36.3	61.0	0.0	0.0	0.0	16.2	0.0	0.0	4.9	0.0	210.6	56.6	385.6
5. UH	129.6	1.3	0.0	0.0	0.0	13.1	0.0	0.0	173.5	21.3	68.7	239.9	647.5
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	234.3	258.3
7. FOH	19.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	173.5	21.3	0.0	5.7	221.4
8. MOH	110.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.0	44.7	0.0	167.8
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	10.2
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	60.9	0.0	0.0	0.0	0.0	0.0	60.9
11. PFOH	20.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	304.0	325.6
12. LR PF (MW)	88.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	18.3
13. PMOH	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	13.1
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	86.0	0.0	0.0	0.0	0.0	0.0	0.0	86.0
15. NSC (MW)	523	523	523	523	523	523	523	523	523	523	523	523	523
16. OPER MBTU	1,587,590	1,761,970	2,237,840	2,303,820	2,420,630	2,224,210	2,391,510	2,426,460	1,625,550	2,309,580	1,354,620	1,260,000	23,903,780
17. NET GEN (MWH)	217,444	243,990	313,300	317,812	334,159	308,206	333,269	340,201	228,174	325,503	189,944	174,263	3,326,265
18. ANOHR (BTU/KWH)	7,301.1	7,221.5	7,142.8	7,249.0	7,243.9	7,216.6	7,175.9	7,132.4	7,124.2	7,095.4	7,131.7	7,230.5	7,186.4
19. NOF (%)	71.92	76.52	80.63	84.40	85.88	85.32	85.65	87.43	80.55	86.12	82.23	74.46	82.31
20. NPC (MW)	523	523	523	523	523	523	523	523	523	523	523	523	523
ANOHR EQUATION:	ANOHR=	-13.193	x NOF +	8,325.38									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 4	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-Dec Period
1. EAF	99.95	97.40	62.13	61.37	55.06	94.39	99.90	99.98	91.57	67.51	53.15	55.27	78.01
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	717.9	577.7	501.6	481.4	451.1	683.9	744.0	744.0	659.3	479.5	327.4	406.1	6,774.0
4. RSH	25.7	76.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	55.8	5.1	186.9
5. UH	0.4	17.5	241.4	238.6	292.9	36.1	0.0	0.0	60.7	241.0	337.8	332.8	1,799.1
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	241.0	337.8	0.0	578.8
7. FOH	0.4	4.8	241.4	238.6	292.9	14.7	0.0	0.0	60.7	0.0	0.0	30.5	884.0
8. MOH	0.0	12.6	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	0.0	302.2	336.3
9. PPOH	0.0	0.0	0.0	0.0	0.0	2.0	7.5	1.5	0.0	0.0	0.0	0.0	11.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	53.2	53.2	60.2	0.0	0.0	0.0	0.0	54.1
11. PFOH	0.0	0.0	245.6	242.8	256.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	748.1
12. LR PF (MW)	0.0	0.0	84.0	84.0	83.6	84.0	0.0	0.0	0.0	0.0	0.0	0.0	83.9
13. PMOH	0.0	0.0	0.0	0.0	0.0	21.8	0.0	0.0	0.0	6.3	0.0	0.0	28.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	84.0	0.0	0.0	0.0	59.0	0.0	0.0	78.4
15. NSC (MW)	516	516	516	516	516	516	516	516	516	516	516	516	516
16. OPER MBTU	2,178,380	1,654,640	1,233,660	1,233,680	1,179,800	2,203,420	2,462,880	2,454,050	2,070,570	1,529,800	894,380	1,193,900	20,289,160
17. NET GEN (MWH)	305,839	232,522	174,201	171,514	162,277	308,263	347,663	346,173	294,078	217,607	124,759	164,871	2,849,767
18. ANOHR (BTU/KWH)	7,122.6	7,116.1	7,081.8	7,192.9	7,270.3	7,147.9	7,084.1	7,089.1	7,040.9	7,030.1	7,168.9	7,241.4	7,119.6
19. NOF (%)	82.56	78.00	67.30	69.05	69.71	87.35	90.56	90.17	86.44	87.95	73.85	78.68	81.53
20. NPC (MW)	516	516	516	516	516	516	516	516	516	516	516	516	516
ANOHR EQUATION:	ANOHR=	-6.203	x NOF +	7,562.62									

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PLANNED OUTAGE SCHEDULES  
ACTUAL

Duke Energy Florida  
January 2022 - December 2022

Plant/Unit	Planned Outage Dates	Reason for Outage
Bartow CC	02/12 (0000) - 03/04 (1200)	4B: Boroscope Inspection
Bartow CC	03/08 (1002) - 03/19 (1630)	4A: Gas Fuel System Including Controls and Instrumentation
Bartow CC	04/02 (0110) - 04/15 (1508)	4D: Boroscope Inspection
Bartow CC	06/24 (2344) - 06/25 (0533)	4D: Fuel Piping and Valves
Bartow CC	06/30 (2340) - 07/01 (0511)	4C: Gas Fuel System Including Controls and Instrumentation
Bartow CC	10/28 (2241) - 11/28 (1212)	4A: Boroscope Inspection, 4S: Inspection, 4C: Boroscope Inspection
Crystal River 4	02/15 (1432) - 04/05 (0953)	Boiler Inspections
Crystal River 5	12/01 (0258) - 12/19 (0759)	Low Pressure Turbine Buckets/Blades
Hines 2	03/08 (0048) - 05/09 (1512)	Boiler Inspections, Feedwater Valves
Hines 3	11/30 (0000) - 12/10 (2216)	Boroscope Inspection
Hines 4	10/21 (2300) - 11/17 (0949)	Balance of Plant

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Planned Outage Schedule - Actual												
January 2022 - December 2022												
Duke Energy Florida												
	January	February	March	April	May	June	July	August	September	October	November	December
<b>Bartow CC</b>		Boroscope Inspection & Fuel System C&I 2/12 [redacted] 3/19 4/2 33 days		Boroscope Inspection [redacted] 4/15 14 days		Fuel Piping and Valves, Fuel System C&I 6/24 [redacted] 7/1 4 days					Boroscope and Steamer Inspections 10/28 [redacted] 11/28 32 days	
<b>Crystal River 4</b>		Boiler Inspections 2/15 [redacted] 4/5 50 days										
<b>Crystal River 5</b>											Low Pressure Turbine Buckets/Blades 12/1 [redacted] 12/19 19 days	
<b>Hines 1</b>												
<b>Hines 2</b>			Boiler Inspections, Feedwater Valves 3/8 [redacted] 5/9 63 days									
<b>Hines 3</b>											Boroscope Inspection 11/30 [redacted] 12/10 11 days	
<b>Hines 4</b>										Balance of Plant 10/21 [redacted] 11/17 28 days		

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