



Stephanie A. Cuello
SENIOR COUNSEL

March 15, 2024

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. 20240001-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 2023 through December 2023; and
- Direct Testimony of Adam R. Bingham with Exhibit No. (ARB-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
Enclosures

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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

Docket No. 20240001-EI

Dated: March 15, 2024

**PETITION FOR APPROVAL OF GPIF RESULTS
FOR THE PERIOD ENDING DECEMBER 2023**

Duke Energy Florida, LLC (“DEF”) hereby petitions this Commission for approval of its Generating Performance Incentive Factor (“GPIF”) results for the period ending December 2023.

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
299 First Avenue North
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3. By Order No. PSC-2023-0343-FOF-EI, dated November 16, 2023, the Commission approved DEF's GPIF Targets for the period January 2023 through December

2023. The application of the GPIF formula to DEF's performance during that period produces a reward of \$ 1,603,057. 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 2024.

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 15th day of March, 2024.

/s/ Stephanie A. Cuello
Attorney

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DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20240001-EI

**GPIF Schedules for
January through December 2023**

**DIRECT TESTIMONY OF
ADAM ROSS BINGHAM**

March 15, 2024

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

2 A. My name is Adam Bingham. My business address is 525 South Tryon Street,
3 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 2023. This calculation was
5 based on a comparison of the actual performance of DEF's Eight (8) 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 schedules
11 required by the GPIF Implementation Manual to support the development of
12 the incentive amount. This 26-page exhibit is attached to my prepared
13 testimony and includes as its first page an index to the contents of the
14 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 \$1,603,057. 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 incentive
21 points earned by each individual unit can be found on page 4 of my exhibit.

22

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

1 A. The calculation of incentive points was made by comparing the adjusted
2 actual performance data for equivalent availability and heat rate to the target
3 performance indicators for each unit. This comparison is shown on each
4 unit's Generating Performance Incentive Points Table found on pages 9
5 through 16 of my exhibit.

6

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

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

20

21 In addition, the Bartow CC unit had data excluded during the period in which
22 its steam turbine was in a planned outage. The Bartow CC unit has the
23 capability to be operated in simple cycle mode while the steam turbine is in
24 an outage. When operating in simple cycle mode, the unit's heat rate will
25 deviate significantly from its normal range. DEF's heat rate target setting

1 process for the Bartow CC unit excludes historical data from periods when
2 the unit operated in simple cycle mode. From mid-October until mid-
3 December 2023 the steam turbine was in a planned outage; during this
4 period, the Bartow CC unit was operated in simple cycle. To be consistent
5 with the target setting process, simple cycle mode heat rate data was
6 excluded from actuals for the purposes of calculating the heat rate for the
7 Bartow CC in year 2023 during those times when the unit was being
8 operated in simple cycle mode as the result of a planned outage.

9
10 **Q. Have you provided the as-worked planned outage schedules for DEF's**
11 **GPIF units to support your adjustments to actual equivalent**
12 **availability?**

13 A. Yes. Page 25 of my exhibit summarizes the planned outages experienced
14 by DEF's GPIF units during the period. Page 26 presents an as-worked
15 schedule for each individual planned outage.

16
17 **Q. Does this conclude your testimony?**

18 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	9-16
Actual Unit Performance Data	17-24
Planned Outage Schedules (Actual)	25-26

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Duke Energy Florida
January 2023 - December 2023

Generating Performance Incentive Points (GPIF)	Fuel Savings/Loss (\$)	Generating Performance Incentive Factor (\$)
10	\$ 50,971,604	\$ 25,485,802
9	\$ 45,874,444	\$ 22,937,222
8	\$ 40,777,283	\$ 20,388,642
7	\$ 35,680,123	\$ 17,840,061
6	\$ 30,582,962	\$ 15,291,481
5	\$ 25,485,802	\$ 12,742,901
4	\$ 20,388,642	\$ 10,194,321
3	\$ 15,291,481	\$ 7,645,741
2	\$ 10,194,321	\$ 5,097,160
1	\$ 5,097,160	\$ 2,548,580
**** 0.629	\$ 3,206,114	\$ 1,603,057
0	\$ -	\$ -
-1	\$ (5,846,457)	\$ (2,548,580)
-2	\$ (11,692,913)	\$ (5,097,160)
-3	\$ (17,539,370)	\$ (7,645,741)
-4	\$ (23,385,827)	\$ (10,194,321)
-5	\$ (29,232,283)	\$ (12,742,901)
-6	\$ (35,078,740)	\$ (15,291,481)
-7	\$ (40,925,197)	\$ (17,840,061)
-8	\$ (46,771,653)	\$ (20,388,642)
-9	\$ (52,618,110)	\$ (22,937,222)
-10	\$ (58,464,567)	\$ (25,485,802)

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

Duke Energy Florida
January 2023 - December 2023

1	Beginning of period balance of common equity	\$	9,022,898,320	
	END OF MONTH BALANCE OF COMMON EQUITY:			
2	Month of JANUARY 2023	\$	9,098,471,803	
3	Month of FEBRUARY 2023	\$	9,137,659,814	
4	Month of MARCH 2023	\$	9,224,817,885	
5	Month of APRIL 2023	\$	9,288,724,894	
6	Month of MAY 2023	\$	9,360,256,522	
7	Month of JUNE 2023	\$	9,480,983,786	
8	Month of JULY 2023	\$	9,607,096,906	
9	Month of AUGUST 2023	\$	9,737,726,305	
10	Month of SEPTEMBER 2023	\$	9,830,329,507	
11	Month of OCTOBER 2023	\$	9,890,559,843	
12	Month of NOVEMBER 2023	\$	9,918,843,057	
13	Month of DECEMBER 2023	\$	10,042,681,691	
14	Average common equity for the period	\$	9,510,850,026	
15	25 Basis Points		0.0025	
16	Revenue Expansion Factor		74.5026%	
17	Maximum allowed incentive dollars	\$	31,914,504	
18	Jurisdictional Sales *		40,831,340	MWH
19	Total Sales *		41,082,626	MWH
20	Jurisdictional Separation Factor		99.3900%	
21	Maximum allowed jurisdictional incentive dollars	\$	31,719,825	
22	Incentive Cap (50% of Projected Fuel Savings at 10 GPIF Point Level) From Sheet No. 6.101.1	\$	25,485,802	
23	Maximum Allowed GPIF Reward (Lesser of Line 21 and Line 22)	\$	25,485,802	
*	Net sales (Sales - Interruptible)			

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Duke Energy Florida
January 2023 - December 2023

<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	5.49	10.000	0.549
	ANOHR	30.26	0.000	0.000
Citrus County 1	EAF	1.91	-2.197	-0.042
	ANOHR	9.66	0.000	0.000
Citrus County 2	EAF	1.94	10.000	0.194
	ANOHR	9.44	0.000	0.000
Crystal River 4	EAF	3.52	2.682	0.094
	ANOHR	8.51	0.651	0.055
Hines 1	EAF	1.55	5.720	0.089
	ANOHR	6.22	0.000	0.000
Hines 2	EAF	0.50	-10.000	-0.050
	ANOHR	4.76	-10.000	-0.476
Hines 3	EAF	0.58	-10.000	-0.058
	ANOHR	6.63	3.507	0.233
Hines 4	EAF	2.26	10.000	0.226
	ANOHR	6.78	-2.732	-0.185
GPIF System		100.00		0.629

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GENERATION PERFORMANCE INCENTIVE FACTOR
GPIF UNIT PERFORMANCE SUMMARY

Duke Energy Florida
January 2023 - December 2023

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	5.49	84.52	88.62	76.21	\$2,800	(\$5,381)	91.78	\$2,800
Citrus County 1	1.91	88.99	90.18	86.51	\$973	(\$2,288)	88.44	(\$503)
Citrus County 2	1.94	88.95	90.16	86.46	\$991	(\$2,071)	90.48	\$991
Crystal River 4	3.52	84.37	91.42	71.39	\$1,794	(\$1,716)	86.26	\$481
Hines 1	1.55	81.52	83.63	77.21	\$791	(\$1,569)	82.73	\$452
Hines 2	0.50	88.93	89.63	87.48	\$256	(\$294)	85.69	(\$294)
Hines 3	0.58	86.94	88.32	84.12	\$296	(\$946)	81.74	(\$946)
Hines 4	2.26	81.42	84.50	75.01	\$1,150	(\$2,279)	85.22	\$1,150
GPIF System	17.76				\$9,050.2	(\$16,543.1)		\$4,132.0

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	30.26	7,571	73.8	7,215	7,928	\$15,422	(\$15,422)	7,560	\$0
Citrus County 1	9.66	6,645	93.8	6,521	6,770	\$4,923	(\$4,923)	6,697	\$0
Citrus County 2	9.44	6,665	94.1	6,545	6,785	\$4,811	(\$4,811)	6,691	\$0
Crystal River 4	8.51	10,972	55.1	10,269	11,674	\$4,338	(\$4,338)	10,856	\$282
Hines 1	6.22	7,368	83.5	7,190	7,546	\$3,168	(\$3,168)	7,304	\$0
Hines 2	4.76	7,624	67.8	7,449	7,800	\$2,426	(\$2,426)	7,901	(\$2,426)
Hines 3	6.63	7,216	81.8	7,056	7,377	\$3,379	(\$3,379)	7,111	\$1,185
Hines 4	6.78	7,068	87.0	6,908	7,227	\$3,454	(\$3,454)	7,166	(\$944)
GPIF System	82.24					\$41,921.4	(\$41,921.4)		(\$1,902.3)

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GENERATION PERFORMANCE INCENTIVE FACTOR
ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida
January 2023 - December 2023

Plant/Unit	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	ADJUSTED ACTUAL EAF %
Bartow CC	87.89	3.89	91.78
Citrus County 1	91.42	-2.98	88.44
Citrus County 2	92.78	-2.29	90.48
Crystal River 4	83.11	3.15	86.26
Hines 1	72.34	10.39	82.73
Hines 2	77.88	7.81	85.69
Hines 3	75.38	6.36	81.74
Hines 4	96.84	-11.62	85.22

Plant/Unit	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ADJUSTED ACTUAL ANOHR BTU/KWH
Bartow CC	7,494.7	64.9	7,559.6
Citrus County 1	6,859.8	-162.9	6,696.8
Citrus County 2	6,807.0	-116.2	6,690.9
Crystal River 4	11,079.7	-223.8	10,855.9
Hines 1	7,460.5	-156.8	7,303.8
Hines 2	7,813.4	87.7	7,901.1
Hines 3	7,161.6	-50.3	7,111.3
Hines 4	7,189.5	-23.7	7,165.8

(1) For documentation of adjustments to actual EAF, see sheet 7 of 26.

(2) For documentation of adjustments to actual ANOHR, see sheet 8 of 26.

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GENERATION PERFORMANCE INCENTIVE FACTOR
ADJUSTMENTS TO EAF ACTUAL

Duke Energy Florida
January 2023 - December 2023

EAF adjustments for			Bartow CC	Citrus County 1	Citrus County 2	Crystal River 4	Hines 1	Hines 2	Hines 3	Hines 4
<u>Planned Outage Hours</u>			<u>BA4</u>	<u>CC1</u>	<u>CC2</u>	<u>CR4</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Actual POH	Hrs.	934.44	474.34	540.69	319.68	2,170.49	1,561.63	1,500.20	5.32
2	Target POH	Hrs.	588.00	744.00	744.00	0.00	1,224.00	840.00	888.00	1,056.00
3	Adj. Factor (PH-POHT/PH-POHA)		1.04	0.97	0.98	1.04	1.14	1.10	1.08	0.88
4	Actual EUOH	Hrs.	126.43	277.53	91.94	1,159.58	252.76	375.66	656.32	271.76
5	Adj. EUOH (3*4)	Hrs.	132.03	268.50	89.66	1,203.50	289.07	413.32	711.67	239.15
6	Actual EAF	%	87.89	91.42	92.78	83.11	72.34	77.88	75.38	96.84
7	Adjusted EAF (using 2 & 5)	%	91.78	88.44	90.48	86.26	82.73	85.69	81.74	85.22
8	Difference (7-6)	%	3.89	-2.98	-2.29	3.15	10.39	7.81	6.36	-11.62
9	Total adj. to EAF	%	3.89	-2.98	-2.29	3.15	10.39	7.81	6.36	-11.62

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GENERATION PERFORMANCE INCENTIVE FACTOR
ADJUSTMENTS TO ANOHR ACTUAL

Duke Energy Florida
January 2023 - December 2023

ANOHR adjustments for			Bartow CC	Citrus County 1	Citrus County 2	Crystal River 4	Hines 1	Hines 2	Hines 3	Hines 4
<u>Target NOF</u>			<u>BA4</u>	<u>CC1</u>	<u>CC2</u>	<u>CR4</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Target NOF	%	73.8	93.8	94.1	55.1	83.5	67.8	81.8	87.0
2	Target ANOHR	Btu/kwh	7571.4	6645.5	6665.0	10971.7	7368.1	7624.4	7216.3	7067.7
3	Actual NOF	%	83.9	81.5	82.4	51.4	74.8	76.1	78.3	82.2
4	Calc. ANOHR (using 3)	Btu/kwh	7,506.5	6,808.4	6,781.2	11,195.5	7,524.8	7,536.7	7,266.6	7,091.4
5	Total adj. to ANOHR (2-4)	Btu/kwh	64.9	-162.9	-116.2	-223.8	-156.8	87.7	-50.3	-23.7

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Bartow CC

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

10	\$2,800,467	88.62	10	\$15,421,770	7,215.0
10	\$2,800,467	88.62	9	\$13,879,593	7,243.1
9	\$2,520,420	88.21	8	\$12,337,416	7,271.3
8	\$2,240,373	87.80	7	\$10,795,239	7,299.4
7	\$1,960,327	87.39	6	\$9,253,062	7,327.6
6	\$1,680,280	86.98	5	\$7,710,885	7,355.7
5	\$1,400,233	86.57	4	\$6,168,708	7,383.9
4	\$1,120,187	86.16	3	\$4,626,531	7,412.0
3	\$840,140	85.75	2	\$3,084,354	7,440.2
2	\$560,093	85.34	1	\$1,542,177	7,468.3
1	\$280,047	84.93	0	\$0	7,496.4
	\$0	84.52	0.000	\$0	7,559.6 ****
0	\$0	84.52	0	\$0	7,571.4
	\$0	84.52	0	\$0	7,646.4
-1	(\$538,082)	83.69	-1	(\$1,542,177)	7,674.6
-2	(\$1,076,165)	82.86	-2	(\$3,084,354)	7,702.7
-3	(\$1,614,247)	82.03	-3	(\$4,626,531)	7,730.9
-4	(\$2,152,330)	81.20	-4	(\$6,168,708)	7,759.0
-5	(\$2,690,412)	80.36	-5	(\$7,710,885)	7,787.2
-6	(\$3,228,495)	79.53	-6	(\$9,253,062)	7,815.3
-7	(\$3,766,577)	78.70	-7	(\$10,795,239)	7,843.5
-8	(\$4,304,660)	77.87	-8	(\$12,337,416)	7,871.6
-9	(\$4,842,742)	77.04	-9	(\$13,879,593)	7,899.7
-10	(\$5,380,825)	76.21	-10	(\$15,421,770)	7,927.9

Equivalent Availability
Weighting Factor:

5.49%

Heat Rate
Weighting Factor:

30.26%

Issued by: Duke Energy Florida

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Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Citrus County 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$972,694	90.18	10	\$4,923,327	6,520.6
9	\$875,425	90.06	9	\$4,430,994	6,525.6
8	\$778,155	89.94	8	\$3,938,661	6,530.6
7	\$680,886	89.82	7	\$3,446,329	6,535.5
6	\$583,616	89.70	6	\$2,953,996	6,540.5
5	\$486,347	89.58	5	\$2,461,663	6,545.5
4	\$389,078	89.46	4	\$1,969,331	6,550.5
3	\$291,808	89.34	3	\$1,476,998	6,555.5
2	\$194,539	89.22	2	\$984,665	6,560.5
1	\$97,269	89.10	1	\$492,333	6,565.5
	\$0	88.99	0	\$0	6,570.5
0	\$0	88.99	0.000	\$0	6,696.8 ****
	\$0	88.99	0	\$0	6,645.5
-1	(\$228,823)	88.74	0	\$0	6,720.5
-2	(\$457,646)	88.49	-1	(\$492,333)	6,725.5
**** -2.197	(\$502,724)	88.44	-2	(\$984,665)	6,730.5
-3	(\$686,469)	88.24	-3	(\$1,476,998)	6,735.5
-4	(\$915,292)	88.00	-4	(\$1,969,331)	6,740.5
-5	(\$1,144,116)	87.75	-5	(\$2,461,663)	6,745.4
-6	(\$1,372,939)	87.50	-6	(\$2,953,996)	6,750.4
-7	(\$1,601,762)	87.25	-7	(\$3,446,329)	6,755.4
-8	(\$1,830,585)	87.01	-8	(\$3,938,661)	6,760.4
-9	(\$2,059,408)	86.76	-9	(\$4,430,994)	6,765.4
-10	(\$2,288,231)	86.51	-10	(\$4,923,327)	6,770.4

Equivalent Availability
Weighting Factor:

1.91%

Heat Rate
Weighting Factor:

9.66%

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Effective:
Docket No.:
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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Citrus County 2

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

10	\$990,690	90.16	10	\$4,810,758	6,545.1
10	\$990,690	90.16	9	\$4,329,682	6,549.6
9	\$891,621	90.04	8	\$3,848,607	6,554.0
8	\$792,552	89.92	7	\$3,367,531	6,558.5
7	\$693,483	89.79	6	\$2,886,455	6,563.0
6	\$594,414	89.67	5	\$2,405,379	6,567.5
5	\$495,345	89.55	4	\$1,924,303	6,572.0
4	\$396,276	89.43	3	\$1,443,227	6,576.5
3	\$297,207	89.31	2	\$962,152	6,581.0
2	\$198,138	89.19	1	\$481,076	6,585.5
1	\$99,069	89.07	0	\$0	6,590.0
	\$0	88.95	0.000	\$0	6,690.9 ****
0	\$0	88.95	0	\$0	6,665.0
	\$0	88.95	0	\$0	6,740.0
-1	(\$207,107)	88.70	-1	(\$481,076)	6,744.5
-2	(\$414,214)	88.45	-2	(\$962,152)	6,749.0
-3	(\$621,321)	88.20	-3	(\$1,443,227)	6,753.5
-4	(\$828,428)	87.95	-4	(\$1,924,303)	6,758.0
-5	(\$1,035,534)	87.70	-5	(\$2,405,379)	6,762.5
-6	(\$1,242,641)	87.46	-6	(\$2,886,455)	6,767.0
-7	(\$1,449,748)	87.21	-7	(\$3,367,531)	6,771.4
-8	(\$1,656,855)	86.96	-8	(\$3,848,607)	6,775.9
-9	(\$1,863,962)	86.71	-9	(\$4,329,682)	6,780.4
-10	(\$2,071,069)	86.46	-10	(\$4,810,758)	6,784.9

Equivalent Availability
Weighting Factor:

1.94%

Heat Rate
Weighting Factor:

9.44%

Issued by: Duke Energy Florida

Filed:
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Effective:
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Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

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	\$1,793,582	91.42	10	\$4,338,227	10,269.4
9	\$1,614,224	90.71	9	\$3,904,404	10,332.1
8	\$1,434,866	90.01	8	\$3,470,581	10,394.8
7	\$1,255,507	89.30	7	\$3,036,759	10,457.6
6	\$1,076,149	88.60	6	\$2,602,936	10,520.3
5	\$896,791	87.89	5	\$2,169,113	10,583.0
4	\$717,433	87.19	4	\$1,735,291	10,645.7
3	\$538,075	86.49	3	\$1,301,468	10,708.5
**** 2.682	\$481,039	86.26	2	\$867,645	10,771.2
2	\$358,716	85.78	1	\$433,823	10,833.9
1	\$179,358	85.08	0.651	\$282,419	10,855.8 ****
	\$0	84.37	0	\$0	10,896.7
0	\$0	84.37	0	\$0	10,971.7
	\$0	84.37	0	\$0	11,046.7
-1	(\$171,590)	83.07	-1	(\$433,823)	11,109.4
-2	(\$343,180)	81.78	-2	(\$867,645)	11,172.1
-3	(\$514,770)	80.48	-3	(\$1,301,468)	11,234.9
-4	(\$686,360)	79.18	-4	(\$1,735,291)	11,297.6
-5	(\$857,951)	77.88	-5	(\$2,169,113)	11,360.3
-6	(\$1,029,541)	76.58	-6	(\$2,602,936)	11,423.1
-7	(\$1,201,131)	75.29	-7	(\$3,036,759)	11,485.8
-8	(\$1,372,721)	73.99	-8	(\$3,470,581)	11,548.5
-9	(\$1,544,311)	72.69	-9	(\$3,904,404)	11,611.3
-10	(\$1,715,901)	71.39	-10	(\$4,338,227)	11,674.0

Equivalent Availability
Weighting Factor:

3.52%

Heat Rate
Weighting Factor:

8.51%

Issued by: Duke Energy Florida

Filed:
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Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Hines 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$790,762	83.63	10	\$3,167,947	7,190.0
9	\$711,685	83.42	9	\$2,851,152	7,200.3
8	\$632,609	83.21	8	\$2,534,357	7,210.6
7	\$553,533	83.00	7	\$2,217,563	7,220.9
6	\$474,457	82.79	6	\$1,900,768	7,231.2
**** 5.72	\$452,316	82.73	5	\$1,583,973	7,241.5
5	\$395,381	82.58	4	\$1,267,179	7,251.8
4	\$316,305	82.36	3	\$950,384	7,262.1
3	\$237,228	82.15	2	\$633,589	7,272.5
2	\$158,152	81.94	1	\$316,795	7,282.8
1	\$79,076	81.73	0	\$0	7,293.1
	\$0	81.52	0.000	\$0	7,303.8 ****
0	\$0	81.52	0	\$0	7,368.1
	\$0	81.52	0	\$0	7,443.1
-1	(\$156,902)	81.09	-1	(\$316,795)	7,453.4
-2	(\$313,804)	80.66	-2	(\$633,589)	7,463.7
-3	(\$470,705)	80.23	-3	(\$950,384)	7,474.0
-4	(\$627,607)	79.79	-4	(\$1,267,179)	7,484.3
-5	(\$784,509)	79.36	-5	(\$1,583,973)	7,494.6
-6	(\$941,411)	78.93	-6	(\$1,900,768)	7,504.9
-7	(\$1,098,313)	78.50	-7	(\$2,217,563)	7,515.2
-8	(\$1,255,215)	78.07	-8	(\$2,534,357)	7,525.5
-9	(\$1,412,116)	77.64	-9	(\$2,851,152)	7,535.9
-10	(\$1,569,018)	77.21	-10	(\$3,167,947)	7,546.2

Equivalent Availability
Weighting Factor:

1.55%

Heat Rate
Weighting Factor:

6.22%

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Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Hines 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$256,334	89.63	10	\$2,426,325	7,448.7
9	\$230,701	89.56	9	\$2,183,693	7,458.8
8	\$205,067	89.49	8	\$1,941,060	7,468.9
7	\$179,434	89.42	7	\$1,698,428	7,478.9
6	\$153,800	89.35	6	\$1,455,795	7,489.0
5	\$128,167	89.28	5	\$1,213,163	7,499.1
4	\$102,534	89.21	4	\$970,530	7,509.1
3	\$76,900	89.14	3	\$727,898	7,519.2
2	\$51,267	89.07	2	\$485,265	7,529.3
1	\$25,633	89.00	1	\$242,633	7,539.3
	\$0	88.93	0	\$0	7,549.4
0	\$0	88.93	0	\$0	7,624.4
	\$0	88.93	0	\$0	7,699.4
-1	(\$29,351)	88.79	-1	(\$169,843)	7,709.5
-2	(\$58,702)	88.64	-2	(\$485,265)	7,719.6
-3	(\$88,052)	88.50	-3	(\$727,898)	7,729.6
-4	(\$117,403)	88.35	-4	(\$970,530)	7,739.7
-5	(\$146,754)	88.21	-5	(\$1,213,163)	7,749.8
-6	(\$176,105)	88.06	-6	(\$1,455,795)	7,759.8
-7	(\$205,456)	87.92	-7	(\$1,698,428)	7,769.9
-8	(\$234,806)	87.77	-8	(\$1,941,060)	7,780.0
-9	(\$264,157)	87.63	-9	(\$2,183,693)	7,790.1
-10	(\$293,508)	87.48	-10	(\$2,426,325)	7,800.1
****	(\$293,508)	87.48	-10	(\$2,426,325)	7,800.1 ****

Equivalent Availability
Weighting Factor:

0.50%

Heat Rate
Weighting Factor:

4.76%

Issued by: Duke Energy Florida

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Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Hines 3

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$295,923	88.32	10	\$3,379,386	7,055.7
9	\$266,330	88.18	9	\$3,041,447	7,064.3
8	\$236,738	88.04	8	\$2,703,509	7,072.9
7	\$207,146	87.91	7	\$2,365,570	7,081.4
6	\$177,554	87.77	6	\$2,027,632	7,090.0
5	\$147,961	87.63	5	\$1,689,693	7,098.5
4	\$118,369	87.49	4	\$1,351,754	7,107.1
3	\$88,777	87.36	3.507	\$1,185,151	7,111.3 ****
2	\$59,185	87.22	3	\$1,013,816	7,115.7
1	\$29,592	87.08	2	\$675,877	7,124.2
	\$0	86.94	1	\$337,939	7,132.8
0	\$0	86.94	0	\$0	7,141.3
	\$0	86.94	0	\$0	7,216.3
-1	(\$94,603)	86.66	0	\$0	7,291.3
-2	(\$189,205)	86.38	-1	(\$337,939)	7,299.9
-3	(\$283,808)	86.10	-2	(\$675,877)	7,308.5
-4	(\$378,410)	85.81	-3	(\$1,013,816)	7,317.0
-5	(\$473,013)	85.53	-4	(\$1,351,754)	7,325.6
-6	(\$567,616)	85.25	-5	(\$1,689,693)	7,334.2
-7	(\$662,218)	84.97	-6	(\$2,027,632)	7,342.7
-8	(\$756,821)	84.69	-7	(\$2,365,570)	7,351.3
-9	(\$851,423)	84.40	-8	(\$2,703,509)	7,359.8
-10	(\$946,026)	84.12	-9	(\$3,041,447)	7,368.4
****	(\$946,026)	84.12	-10	(\$3,379,386)	7,377.0

Equivalent Availability
Weighting Factor:

0.58%

Heat Rate
Weighting Factor:

6.63%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2023 - December 2023

Unit: Hines 4

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

10	\$1,149,719	84.50	10	\$3,453,694	6,908.5
10	\$1,149,719	84.50	9	\$3,108,325	6,916.9
9	\$1,034,747	84.20	8	\$2,762,955	6,925.3
8	\$919,775	83.89	7	\$2,417,586	6,933.7
7	\$804,803	83.58	6	\$2,072,216	6,942.2
6	\$689,832	83.27	5	\$1,726,847	6,950.6
5	\$574,860	82.96	4	\$1,381,478	6,959.0
4	\$459,888	82.65	3	\$1,036,108	6,967.5
3	\$344,916	82.34	2	\$690,739	6,975.9
2	\$229,944	82.04	1	\$345,369	6,984.3
1	\$114,972	81.73	0	\$0	6,992.7
	\$0	81.42	0	\$0	7,067.7
0	\$0	81.42	0	\$0	7,142.7
	\$0	81.42	-1	(\$345,369)	7,151.2
-1	(\$227,855)	80.78	-2	(\$690,739)	7,159.6
-2	(\$455,711)	80.14	-2.732	(\$943,549)	7,165.8 ****
-3	(\$683,566)	79.50	-3	(\$1,036,108)	7,168.0
-4	(\$911,422)	78.86	-4	(\$1,381,478)	7,176.4
-5	(\$1,139,277)	78.22	-5	(\$1,726,847)	7,184.9
-6	(\$1,367,133)	77.57	-6	(\$2,072,216)	7,193.3
-7	(\$1,594,988)	76.93	-7	(\$2,417,586)	7,201.7
-8	(\$1,822,844)	76.29	-8	(\$2,762,955)	7,210.2
-9	(\$2,050,699)	75.65	-9	(\$3,108,325)	7,218.6
-10	(\$2,278,555)	75.01	-10	(\$3,453,694)	7,227.0

Equivalent Availability
Weighting Factor:

2.26%

Heat Rate
Weighting Factor:

6.78%

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Bartow CC	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	99.52	90.44	86.89	99.88	100.00	100.00	99.34	98.00	97.18	90.53	37.71	54.95	87.89
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	683.5	575.8	617.9	675.1	702.5	710.7	738.8	721.1	681.4	569.0	231.5	298.6	6,582.9
4. RSH	56.9	31.9	27.8	44.1	41.5	9.3	0.3	10.9	18.8	112.2	40.4	110.3	504.2
5. UH	3.6	64.3	97.4	0.8	0.0	0.0	4.9	12.1	19.8	62.8	449.1	335.1	1,049.8
6. POH	0.0	64.3	55.4	0.0	0.0	0.0	0.0	0.0	0.0	49.4	439.1	318.6	926.8
7. FOH	0.9	0.0	12.5	0.8	0.0	0.0	4.9	11.5	19.8	12.6	4.9	0.5	68.5
8. MOH	2.6	0.0	29.5	0.0	0.0	0.0	0.0	0.6	0.0	0.8	5.1	16.0	54.6
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.8	0.0	0.0	48.8
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	41.7	7.3	0.0	0.0	0.0	49.1
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0	76.0	0.0	0.0	0.0	76.0
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)	1,112	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	4,583,630	3,652,870	4,177,510	4,788,930	4,831,800	4,986,550	5,170,570	5,254,850	4,725,960	3,190,718	0	658,425	46,021,813
17. NET GEN (MWH)	601,126	487,700	546,018	639,273	644,783	665,628	703,015	693,950	632,725	439,460	0	86,872	6,140,550
18. ANOHR (BTU/KWH)	7,625.1	7,490.0	7,650.9	7,491.2	7,493.7	7,491.5	7,354.9	7,572.4	7,469.2	7,260.5	0.0	7,579.2	7,494.7
19. NOF (%)	79.09	76.16	79.47	85.16	82.54	84.22	85.57	86.55	83.50	69.46	0.00	26.17	83.89
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=	-6.447	x NOF +	8,047.31									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Citrus County 1	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	99.79	100.00	54.63	82.47	79.08	99.40	97.72	87.48	100.00	97.78	99.95	100.00	91.42
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	744.0	672.0	408.0	593.8	574.9	716.7	727.0	650.9	720.0	731.4	721.0	744.0	8,003.6
4. RSH	0.0	0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4
5. UH	0.0	0.0	335.0	126.2	155.7	3.3	17.0	93.1	0.0	12.6	0.0	0.0	742.9
6. POH	0.0	0.0	335.0	126.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	473.7
7. FOH	0.0	0.0	0.0	0.2	21.9	0.0	17.0	93.1	0.0	0.0	0.0	0.0	132.1
8. MOH	0.0	0.0	0.0	0.0	133.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	137.1
9. PPOH	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	4.2
10. LR PP (MW)	0.0	0.0	127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.1	0.0	119.9
11. PFOH	24.0	0.0	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	49.1
12. LR PF (MW)	52.5	0.0	58.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7	0.0	55.8
13. PMOH	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	16.7	0.0	0.0	21.1
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	187.0	0.0	0.0	0.0	188.0	0.0	0.0	187.8
15. NSC (MW)	807	807	807	807	807	807	807	807	807	807	807	807	807
16. OPER MBTU	3,700,690	3,371,370	2,142,590	3,131,270	2,943,120	3,758,580	3,850,820	3,253,070	3,857,750	3,784,590	3,698,710	3,884,950	41,377,510
17. NET GEN (MWH)	541,110	489,741	315,865	456,767	421,777	545,968	559,545	467,497	561,098	553,006	552,363	567,179	6,031,916
18. ANOHR (BTU/KWH)	6,839.1	6,884.0	6,783.2	6,855.3	6,977.9	6,884.2	6,882.1	6,958.5	6,875.4	6,843.7	6,696.2	6,849.6	6,859.8
19. NOF (%)	78.63	78.79	83.70	83.16	79.31	82.35	83.20	77.65	84.25	81.74	82.82	82.41	81.48
20. NPC (MW)	925	925	925	925	925	925	925	925	925	925	925	925	925
ANOHR EQUATION:	ANOHR=	-13.172	x NOF +	7,881.63									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Citrus County 2	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	99.79	100.00	99.76	77.17	91.49	99.97	99.59	98.65	99.84	100.00	56.87	89.77	92.78
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	744.0	672.0	743.0	552.3	686.7	720.0	741.0	734.5	720.0	744.0	410.0	667.9	8,135.4
4. RSH	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
5. UH	0.0	0.0	0.0	160.9	57.3	0.0	3.0	9.5	0.0	0.0	311.0	76.1	617.8
6. POH	0.0	0.0	0.0	116.1	30.0	0.0	0.0	0.0	0.0	0.0	311.0	76.1	533.2
7. FOH	0.0	0.0	0.0	44.8	27.3	0.0	3.0	9.5	0.0	0.0	0.0	0.0	84.6
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	18.5	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.1
10. LR PP (MW)	0.0	0.0	0.0	116.3	144.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.1
11. PFOH	24.0	0.0	24.1	3.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.7
12. LR PF (MW)	53.1	0.0	58.7	178.3	144.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.0
13. PMOH	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.0	11.6	0.0	0.0	0.0	18.5
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	96.7	0.0	89.4	81.4	0.0	0.0	0.0	85.2
15. NSC (MW)	803	803	803	803	803	803	803	803	803	803	803	803	803
16. OPER MBTU	3,709,370	3,380,440	3,970,130	2,720,720	3,487,330	3,793,770	3,954,120	4,003,280	3,818,810	3,887,900	2,130,300	3,519,420	42,375,590
17. NET GEN (MWH)	542,202	492,126	589,903	398,598	504,338	556,555	580,478	585,634	562,913	573,812	321,062	517,650	6,225,271
18. ANOHR (BTU/KWH)	6,841.3	6,869.1	6,730.1	6,825.7	6,914.7	6,816.5	6,811.8	6,835.8	6,784.0	6,775.6	6,635.2	6,798.8	6,807.0
19. NOF (%)	78.45	78.83	85.46	77.69	79.06	83.21	84.33	85.83	84.16	83.02	84.29	83.43	82.37
20. NPC (MW)	929	929	929	929	929	929	929	929	929	929	929	929	929
ANOHR EQUATION:	ANOHR=	-9.874	x NOF +	7,594.46									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Crystal River 4	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	70.97	90.33	96.93	99.25	59.81	79.78	78.40	57.11	98.95	80.31	99.75	87.93	83.11
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	34.7	0.0	717.3	720.0	67.0	359.0	656.4	441.7	720.0	438.8	553.7	529.0	5,237.7
4. RSH	493.3	607.0	25.7	0.0	378.0	224.0	0.0	0.0	0.0	161.2	167.3	126.0	2,182.5
5. UH	216.0	65.0	0.0	0.0	299.0	137.0	87.6	302.3	0.0	144.0	0.0	89.0	1,339.9
6. POH	0.0	0.0	0.0	0.0	299.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299.0
7. FOH	0.0	0.0	0.0	0.0	0.0	46.0	84.0	183.1	0.0	144.0	0.0	0.0	457.0
8. MOH	216.0	65.0	0.0	0.0	0.0	91.0	3.6	119.2	0.0	0.0	0.0	89.0	583.8
9. PPOH	0.0	0.0	40.0	9.0	0.0	0.0	13.0	0.0	0.0	2.0	0.0	4.0	68.0
10. LR PP (MW)	0.0	0.0	161.0	355.0	0.0	0.0	339.9	0.0	0.0	112.0	0.0	112.0	216.6
11. PFOH	0.0	0.0	80.8	37.5	0.0	80.3	155.5	96.5	0.0	14.0	29.0	10.5	504.0
12. LR PF (MW)	0.0	0.0	116.4	18.0	0.0	76.1	306.4	124.1	0.0	112.0	43.5	12.0	156.2
13. PMOH	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	48.0	0.0	0.0	0.0	51.7
14. LR PM (MW)	0.0	0.0	112.0	0.0	0.0	0.0	0.0	0.0	112.0	0.0	0.0	0.0	112.0
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
16. OPER MBTU	103,680	0	2,851,760	2,944,650	202,530	1,492,470	2,563,510	1,830,300	2,936,750	1,852,590	2,413,090	2,050,800	21,242,130
17. NET GEN (MWH)	7,326	0	256,217	259,152	18,901	135,383	231,984	157,870	267,009	169,380	225,731	188,260	1,917,213
18. ANOHR (BTU/KWH)	14,152.3	0.0	11,130.3	11,362.6	10,715.3	11,024.1	11,050.4	11,593.7	10,998.7	10,937.5	10,690.1	10,893.4	11,079.7
19. NOF (%)	29.68	0.00	50.17	50.55	39.62	52.96	49.64	50.20	52.09	54.21	57.26	49.98	51.41
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
ANOHR EQUATION:	ANOHR=	-60.859	x NOF +	14,324.30									

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ACTUAL UNIT PERFORMANCE DATA

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Hines 1	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	59.98	0.00	0.00	32.15	99.42	83.64	99.49	95.42	99.95	97.52	96.10	97.97	72.34
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	391.1	0.0	0.0	231.5	739.7	596.4	742.4	715.5	720.0	725.6	692.9	728.9	6,283.9
4. RSH	59.6	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	65.4
5. UH	293.3	672.0	743.0	488.5	4.3	117.8	1.6	28.5	0.0	18.4	28.1	15.1	2,410.8
6. POH	264.0	672.0	743.0	488.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,167.5
7. FOH	29.3	0.0	0.0	0.0	4.3	117.8	1.6	28.5	0.0	0.0	23.2	0.0	204.8
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	4.9	15.1	38.5
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	15.9	3.0	2.8	0.0	0.0	0.0	21.8
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	65.5	74.4	64.1	0.0	0.0	0.0	66.5
11. PFOH	28.4	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0	0.0	0.0	0.0	56.2
12. LR PF (MW)	77.0	0.0	0.0	0.0	0.0	0.0	0.0	89.4	0.0	0.0	0.0	0.0	83.1
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	935,360	0	0	647,440	2,072,710	1,624,180	2,080,610	2,045,100	1,936,910	1,867,810	1,972,470	2,001,430	17,184,020
17. NET GEN (MWH)	123,873	0	0	85,202	278,922	215,641	275,504	278,828	258,624	248,684	268,713	269,333	2,303,324
18. ANOHR (BTU/KWH)	7,551.0	0.0	0.0	7,598.9	7,431.1	7,531.9	7,552.0	7,334.6	7,489.3	7,510.8	7,340.4	7,431.1	7,460.5
19. NOF (%)	64.63	0.00	0.00	75.12	76.95	73.79	75.74	79.53	73.31	69.95	79.14	75.41	74.81
20. NPC (MW)	490	490	490	490	490	490	490	490	490	490	490	490	490
ANOHR EQUATION:	ANOHR=	-18.045	x NOF +	8,874.70									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 2	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	97.15	98.59	73.18	88.79	98.59	98.22	98.52	98.40	98.47	85.98	0.00	0.00	77.88
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	339.8	672.0	306.6	649.4	744.0	717.7	744.0	744.0	719.5	558.7	0.0	0.0	6,195.8
4. RSH	393.5	0.0	247.8	0.0	0.0	0.0	0.0	0.0	0.0	91.3	0.0	0.0	732.5
5. UH	10.7	0.0	188.7	70.6	0.0	2.3	0.0	0.0	0.5	94.0	721.0	744.0	1,831.7
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.0	721.0	743.7	1,558.7
7. FOH	10.7	0.0	112.7	70.6	0.0	2.3	0.0	0.0	0.5	0.0	0.0	0.3	197.1
8. MOH	0.0	0.0	76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.0	0.0	8.0	0.0	0.0	22.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	84.7	68.2	0.0	72.4	0.0	0.0	72.0
11. PFOH	254.5	229.9	255.5	246.3	254.5	246.3	254.5	254.5	246.3	222.4	0.0	0.0	2,464.8
12. LR PF (MW)	22.0	22.0	22.1	22.0	22.0	22.7	22.0	22.0	22.7	22.0	0.0	0.0	22.1
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	954,160	2,012,300	949,990	2,109,450	2,406,460	2,319,240	2,401,370	2,481,510	2,325,260	1,645,950	0	0	19,605,690
17. NET GEN (MWH)	116,569	254,436	120,833	272,609	309,446	297,705	307,959	319,479	299,961	210,237	0	0	2,509,234
18. ANOHR (BTU/KWH)	8,185.4	7,908.9	7,862.0	7,738.0	7,776.7	7,790.4	7,797.7	7,767.4	7,751.9	7,829.0	0.0	0.0	7,813.4
19. NOF (%)	64.48	71.17	74.08	78.90	78.18	77.97	77.81	80.72	78.37	70.73	0.00	0.00	76.13
20. NPC (MW)	532	532	532	532	532	532	532	532	532	532	532	532	532
ANOHR EQUATION:	ANOHR=	-10.489	x NOF +	8,335.19									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 3	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	97.47	93.96	90.80	66.03	79.90	85.46	99.90	98.31	3.30	6.70	85.34	97.25	75.38
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	744.0	576.0	739.8	519.6	531.8	615.3	744.0	737.2	23.7	49.8	615.3	638.2	6,534.7
4. RSH	0.0	78.3	0.0	0.0	62.7	0.0	0.0	0.0	0.0	0.0	0.0	85.3	226.3
5. UH	0.0	17.7	3.2	200.4	149.5	104.7	0.0	6.8	696.3	694.2	105.7	20.5	1,999.0
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	696.3	694.2	105.7	0.0	1,496.1
7. FOH	0.0	17.7	3.2	0.0	41.3	104.7	0.0	6.8	0.0	0.0	0.0	20.5	194.2
8. MOH	0.0	0.0	0.0	200.4	108.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	308.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	6.2	26.0	0.0	0.0	0.0	0.0	32.2
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	65.0	66.5	0.0	0.0	0.0	0.0	66.2
11. PFOH	744.0	672.0	743.0	503.7	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	2,683.3
12. LR PF (MW)	13.3	17.8	45.8	45.8	0.0	0.0	0.0	62.3	0.0	0.0	0.0	0.0	29.9
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)	523	523	523	523	523	523	523	523	523	523	523	523	523
16. OPER MBTU	2,175,490	1,516,250	2,091,690	1,391,730	1,465,970	1,879,610	2,339,920	2,328,290	75,120	104,310	2,023,110	1,780,200	19,171,690
17. NET GEN (MWH)	303,211	214,467	295,104	195,027	202,845	263,052	327,402	324,137	10,600	12,930	285,068	243,169	2,677,012
18. ANOHR (BTU/KWH)	7,174.8	7,069.9	7,088.0	7,136.1	7,227.0	7,145.4	7,146.9	7,183.0	7,086.8	8,067.3	7,096.9	7,320.8	7,161.6
19. NOF (%)	77.92	71.20	76.28	71.77	72.93	81.75	84.14	84.07	85.40	49.60	88.59	72.85	78.33
20. NPC (MW)	523	523	523	523	523	523	523	523	523	523	523	523	523
ANOHR EQUATION:	ANOHR=	-14.509	x NOF +	8,403.10									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 4	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-Dec Period
1. EAF	100.00	100.00	98.67	99.96	98.65	99.98	98.48	99.50	96.66	98.92	70.92	100.00	96.84
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	744.0	582.5	733.1	657.2	673.9	686.5	735.3	744.0	696.0	693.9	468.2	744.0	8,158.6
4. RSH	0.0	89.5	0.0	62.8	60.0	33.5	0.0	0.0	0.0	43.9	70.7	0.0	360.6
5. UH	0.0	0.0	9.9	0.0	10.0	0.0	8.7	0.0	24.0	6.2	182.1	0.0	240.9
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	0.0	0.0	9.9	0.0	0.0	0.0	8.7	0.0	24.0	6.2	182.1	0.0	230.8
8. MOH	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
9. PPOH	0.0	0.0	0.0	3.0	0.0	1.5	10.0	21.5	0.0	8.0	0.0	0.0	44.0
10. LR PP (MW)	0.0	0.0	0.0	48.6	0.0	56.6	59.3	68.1	0.0	56.9	0.0	0.0	62.4
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	8.9	16.0	0.0	6.3	175.9	0.0	207.1
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	82.3	28.0	0.0	81.0	81.0	0.0	77.0
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)	516	516	516	516	516	516	516	516	516	516	516	516	516
16. OPER MBTU	2,186,440	1,617,320	2,280,520	2,020,240	2,055,560	2,149,870	2,310,900	2,428,640	2,117,220	2,094,410	1,276,680	2,352,590	24,890,390
17. NET GEN (MWH)	301,535	221,597	320,128	280,555	280,663	296,632	318,603	337,416	298,148	295,498	179,932	331,357	3,462,064
18. ANOHR (BTU/KWH)	7,251.0	7,298.5	7,123.8	7,200.9	7,323.9	7,247.6	7,253.2	7,197.8	7,101.2	7,087.7	7,095.3	7,099.9	7,189.5
19. NOF (%)	78.54	73.73	84.63	82.74	80.71	83.74	83.98	87.89	83.02	82.53	74.47	86.31	82.24
20. NPC (MW)	516	516	516	516	516	516	516	516	516	516	516	516	516
ANOHR EQUATION:	ANOHR=	-4.935	x NOF +	7,497.31									

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PLANNED OUTAGE SCHEDULES
ACTUAL

Duke Energy Florida
January 2023 - December 2023

<u>Plant/Unit</u>	<u>Planned Outage Dates</u>	<u>Reason for Outage</u>
Bartow CC	02/11 (0000) - 03/04 (1807)	4B: Boroscope Inspection
Bartow CC	02/28 (2304) - 03/11 (1505)	4D: Boroscope Inspection
Bartow CC	10/27 (2300) - 12/29 (1648)	4A: Major Overhaul
Bartow CC	10/28 (0304) - 12/24 (2043)	4S: Major Generator Overhaul
Bartow CC	11/04 (0000) - 11/19 (1531)	4C: Boroscope Inspection
Citrus County 1	03/18 (0032) - 04/06 (1111)	General Unit Inspection
Citrus County 1	10/17 (2317) - 10/19 (1715)	1A: General Unit Inspection
Citrus County 2	04/21 (0000) - 05/05 (0337)	Boroscope Inspection
Citrus County 2	11/18 (0031) - 12/04 (0937)	Boroscope Inspection
Crystal River 4	05/08 (0100) - 05/20 (1200)	Spray Nozzles
Hines 1	01/21 (0000) - 04/26 (1422)	Boroscope Inspection
Hines 2	10/28 (0200) - 12/31 (2359)	Boroscope Inspection
Hines 3	09/01 (2335) - 11/06 (2000)	Boroscope Inspection

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Planned Outage Schedule - Actual												
January 2023 - December 2023												Duke Energy Florida
	January	February	March	April	May	June	July	August	September	October	November	December
Bartow CC		Boroscope Inspections 2/11 [redacted] 3/11 29 days								Major Generator Overhaul and Boroscope Inspection 10/27 [redacted] 12/29 64 days		
Citrus County 1			General Unit Inspection 3/18 [redacted] 4/6 20 days							General Unit Inspection 10/17 [redacted] 10/19 3 days		
Citrus County 2				Boroscope Inspection 4/21 [redacted] 5/5 15 days							Boroscope Inspection 11/18 [redacted] 12/4 17 days	
Crystal River 4					Spray Nozzles 5/8 [redacted] 5/20 13 days							
Hines 1	Boroscope Inspection 1/21 [redacted] 4/26 96 days											
Hines 2										Boroscope Inspection 10/28 [redacted] 65 days		
Hines 3								Boroscope Inspection 9/1 [redacted] 11/6 67 days				
Hines 4												

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