



Stephanie A. Cuello
SENIOR COUNSEL

January 19, 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; Performance Data Report for December 2023; Docket No. 20240001-EI*

Dear Mr. Teitzman:

Attached for electronic filing in the above-referenced Docket is Duke Energy Florida, LLC's Performance Data Report for December 2023.

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

/s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/vr
Attachment

CERTIFICATE OF SERVICE

Docket No. 20240001-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 19th day of January, 2024.

/s/ Stephanie A. Cuello

Stephanie A. Cuello

<p>Suzanne Brownless Ryan Sandy Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@psc.state.fl.us rsandy@psc.state.fl.us</p> <p>J. Wahlen / M. Means / V. Ponder Ausley McMullen Tampa Electric Company P.O. Box 391 Tallahassee, FL 32302 jwahlen@ausley.com mmeans@ausley.com vponder@ausley.com</p> <p>Kenneth A. Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 ken.hoffman@fpl.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p>	<p>W.Trierweiler / P. Christensen / C. Rehwinkel / M. Wessling / O. Ponce/ A. Watrous Office of Public Counsel 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 trierweiler.walt@leg.state.fl.us christensen.patty@leg.state.fl.us rehwinkel.charles@leg.state.fl.us wessling.mary@leg.state.fl.us ponce.octavio@leg.state.fl.us watrous.austin@leg.state.fl.us</p> <p>Paula K. Brown Regulatory Affairs Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111 regdept@tecoenergy.com</p> <p>Maria Moncada / David Lee Florida Power & Light Company 700 Universe Blvd. (LAW/JB) Juno Beach, FL 33408-0420 maria.moncada@fpl.com david.lee@fpl.com</p>	<p>Mike Cassel Florida Public Utilities Company 208 Wildlight Avenue Yulee, FL 32097 mcassel@fpuc.com</p> <p>Michelle D. Napier Florida Public Utilities Company 1635 Meathe Drive West Palm Beach, FL 33411 mnapier@fpuc.com</p> <p>Beth Keating Gunster, Yoakley & Stewart, P.A. FPUC 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com</p>
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Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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	7,205.9
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)	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00
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	3,674,530	2,512,330	2,584,130	50,943,660
17. NET GEN (MWH)	601,126	487,700	546,018	639,273	644,783	665,628	703,015	693,950	632,725	469,899	216,907	247,037	6,548,061
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	7,819.8	11,582.5	10,460.5	7,780.0
19. NOF %	79.09	76.16	79.47	85.16	82.54	84.22	85.57	86.55	83.50	74.27	84.24	74.41	81.72
20. NPC (MW)	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00	1,112.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

Citrus County Power Block 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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	807.00	807.00	807.00	807.00	807.00	807.00	807.00	807.00	807.00	807.00	807.00	807.00	807.00
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 % ¹	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) ¹	925.00	925.00	925.00	925.00	925.00	925.00	925.00	925.00	925.00	925.00	925.00	925.00	925.00

1. The Net Maximum Capacity (NMC) was used to calculate the Net Output Factor (NOF) for developing the heat rate targets for Citrus County Power Block 1 in calendar year 2023. To be consistent with the approved heat rate targets, Citrus County Power Block 1 will use the NMC to calculate the monthly and period NOF results, with the NMC values replacing the NPC values on line 20 for consistency with the NOF calculation. This change is only for Citrus County Power Block 1 in calendar year 2023 and does not affect the reported heat rate results or targets – it only affects the NOF calculation, ensuring consistency between the approved heat rate targets and reported unit performance results.

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

Citrus County Power Block 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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	803.00	803.00	803.00	803.00	803.00	803.00	803.00	803.00	803.00	803.00	803.00	803.00	803.00
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 % ¹	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) ¹	929.00	929.00	929.00	929.00	929.00	929.00	929.00	929.00	929.00	929.00	929.00	929.00	929.00

1. The Net Maximum Capacity (NMC) was used to calculate the Net Output Factor (NOF) for developing the heat rate targets for Citrus County Power Block 2 in calendar year 2023. To be consistent with the approved heat rate targets, Citrus County Power Block 2 will use the NMC to calculate the monthly and period NOF results, with the NMC values replacing the NPC values on line 20 for consistency with the NOF calculation. This change is only for Citrus County Power Block 2 in calendar year 2023 and does not affect the reported heat rate results or targets – it only affects the NOF calculation, ensuring consistency between the approved heat rate targets and reported unit performance results.

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00
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)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

Hines Power Block 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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00
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)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

Hines Power Block 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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00
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)	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00	532.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

Hines Power Block 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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00
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)	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00	523.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2023

Hines Power Block 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	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
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)	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00
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)	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00	516.00

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	3/18/2023	FFO	77.10	181.0	COOLING AND SEAL AIR SYSTEM
BCC 4A	7/31/2023	FFO	9.17	181.0	LIGHTNING
BCC 4A	9/18/2023	FFO	19.27	181.0	EMERGENCY GENERATOR TRIP DEVICES
BCC 4A	10/10/2023	FMO	4.00	181.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
BCC 4A	10/11/2023	FMO	0.98	181.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
BCC 4A	10/27/2023	PO	1,505.80	181.0	MAJOR OVERHAUL
BCC 4A	12/29/2023	FFO	3.20	181.0	COOLING AND SEAL AIR SYSTEM
BCC 4A	12/31/2023	FMO	9.88	181.0	GAS TURBINE VIBRATION
BCC 4B	1/14/2023	FFO	4.20	165.0	OTHER INSTRUMENT AIR PROBLEMS
BCC 4B	1/16/2023	FFO	2.20	165.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
BCC 4B	2/11/2023	PO	522.13	165.0	BOROSCOPE INSPECTION
BCC 4B	3/31/2023	FMO	18.78	165.0	EMERGENCY GENERATOR TRIP DEVICES
BCC 4B	7/31/2023	FFO	12.37	165.0	LIGHTNING
BCC 4B	8/24/2023	FMO	3.93	165.0	FUEL PIPING AND VALVES
BCC 4B	9/5/2023	FFO	0.78	165.0	BLADE PATH TEMPERATURE SPREAD
BCC 4B	9/5/2023	FFO	57.62	165.0	FUEL NOZZLES/VANES
BCC 4B	10/10/2023	FFO	83.90	165.0	LUBE OIL SYSTEM - GENERAL
BCC 4B	10/28/2023	FFO	0.98	165.0	OPERATOR ERROR
BCC 4B	11/25/2023	FMO	34.28	165.0	INSTRUMENT AIR PIPING
BCC 4C	1/24/2023	FMO	16.23	181.0	OTHER CONTROLS AND INSTRUMENTATION PROBLEMS
BCC 4C	3/11/2023	FMO	164.02	181.0	SCR PLUGGING
BCC 4C	7/31/2023	FFO	15.40	181.0	LIGHTNING
BCC 4C	8/3/2023	FFO	9.05	181.0	LOW PRESSURE COMPRESSOR BLEED VALVES
BCC 4C	9/14/2023	FFO	49.03	181.0	MAIN TRANSFORMER
BCC 4C	11/4/2023	PO	375.52	181.0	BOROSCOPE INSPECTION
BCC 4C	12/18/2023	FMO	35.33	181.0	STATION SERVICE POWER DISTRIBUTION SYSTEM, GENERAL
BCC 4D	2/28/2023	PO	256.03	183.0	BOROSCOPE INSPECTION
BCC 4D	4/15/2023	FFO	5.08	183.0	IGNITION SYSTEM
BCC 4D	7/31/2023	FFO	7.30	183.0	LIGHTNING
BCC 4D	11/23/2023	FFO	7.55	183.0	BLADE PATH TEMPERATURE SPREAD
BCC 4D	11/23/2023	FFO	22.03	183.0	BLADE PATH TEMPERATURE SPREAD
BCC 4D	12/18/2023	FMO	52.38	183.0	STATION SERVICE POWER DISTRIBUTION SYSTEM, GENERAL
BCC 4S	7/31/2023	FFO	21.80	402.0	LIGHTNING
BCC 4S	8/1/2023	PFO	115.48	76.0	OTHER FEEDWATER VALVES
BCC 4S	9/20/2023	PFO	20.23	76.0	OTHER IP STEAM VALVES
BCC 4S	10/22/2023	PPO	135.07	175.0	WATERBOX
BCC 4S	10/28/2023	PO	1,385.65	402.0	MAJOR GENERATOR OVERHAUL

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Citrus County Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
CITR 1A	1/13/2023	PFO	24.00	37.1	FUEL PIPING AND VALVES
CITR 1A	3/1/2023	PFO	12.75	44.4	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 1A	3/2/2023	PFO	11.35	44.5	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 1A	3/7/2023	PPO	2.20	119.3	CIRCULATING WATER PIPING
CITR 1A	3/18/2023	PO	451.98	243.0	GENERAL UNIT INSPECTION
CITR 1A	4/5/2023	FFO	0.57	243.0	OTHER EXCITER PROBLEMS
CITR 1A	5/12/2023	FFO	21.50	243.0	LIGHTNING
CITR 1A	5/22/2023	FMO	132.95	243.0	IP STARTUP BYPASS SYSTEM VALVES
CITR 1A	7/30/2023	FFO	8.87	243.0	LIGHTNING
CITR 1A	7/31/2023	FFO	266.18	243.0	OTHER MISCELLANEOUS GENERATOR PROBLEMS
CITR 1A	8/17/2023	FFO	19.93	243.0	LIGHTNING
CITR 1A	10/17/2023	PO	41.97	243.0	GENERAL UNIT INSPECTION
CITR 1A	11/9/2023	PPO	2.00	119.1	NERC RELIABILITY STANDARD REQUIREMENT
CITR 1A	11/28/2023	PFO	1.00	77.8	CIRCULATING WATER PIPING
CITR 1B	1/13/2023	PFO	24.00	36.9	FUEL PIPING AND VALVES
CITR 1B	3/1/2023	PFO	12.75	44.2	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 1B	3/2/2023	PFO	11.35	44.3	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 1B	3/7/2023	PPO	2.20	118.8	CIRCULATING WATER PIPING
CITR 1B	3/18/2023	PO	465.93	242.0	GENERAL UNIT INSPECTION
CITR 1B	5/12/2023	FFO	20.63	242.0	LIGHTNING
CITR 1B	5/22/2023	FMO	133.05	242.0	IP STARTUP BYPASS SYSTEM VALVES
CITR 1B	6/9/2023	FMO	10.98	242.0	CONDENSATE PIPING
CITR 1B	7/30/2023	FFO	12.60	242.0	LIGHTNING
CITR 1B	8/17/2023	FFO	15.70	242.0	LIGHTNING
CITR 1B	11/9/2023	PPO	2.00	118.6	NERC RELIABILITY STANDARD REQUIREMENT
CITR 1B	11/28/2023	PFO	1.00	77.4	CIRCULATING WATER PIPING
CITR ST1	1/13/2023	PFO	24.00	75.9	FUEL PIPING AND VALVES
CITR ST1	3/1/2023	PFO	12.75	78.8	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR ST1	3/2/2023	PFO	11.35	78.9	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR ST1	3/7/2023	PPO	2.20	139.0	CIRCULATING WATER VALVE
CITR ST1	3/18/2023	PO	464.30	322.0	GENERAL UNIT INSPECTION
CITR ST1	5/12/2023	FFO	23.07	322.0	LIGHTNING
CITR ST1	5/22/2023	FMO	134.97	322.0	IP STARTUP BYPASS SYSTEM VALVES
CITR ST1	6/9/2023	PMO	10.98	187.0	CONDENSATE PIPING
CITR ST1	7/30/2023	FFO	14.53	322.0	LIGHTNING
CITR ST1	8/17/2023	FFO	17.55	322.0	LIGHTNING
CITR ST1	10/17/2023	PMO	41.97	188.0	OTHER MISCELLANEOUS GAS TURBINE PROBLEMS
CITR ST1	11/9/2023	PPO	2.00	122.0	NERC RELIABILITY STANDARD REQUIREMENT
CITR ST1	11/28/2023	PFO	1.00	102.0	CIRCULATING WATER PIPING

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Citrus County Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
CITR 2A	1/13/2023	PFO	24.00	37.5	FUEL PIPING AND VALVES
CITR 2A	3/1/2023	PFO	12.75	44.8	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 2A	3/2/2023	PFO	11.35	44.8	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 2A	4/1/2023	PPO	5.33	74.2	CIRCULATING WATER VALVE
CITR 2A	4/2/2023	PPO	4.08	73.8	CIRCULATING WATER PIPING
CITR 2A	4/5/2023	FFO	2.42	241.0	OTHER FUEL QUALITY PROBLEMS (OMC)
CITR 2A	4/21/2023	PO	179.00	241.0	BOROSCOPE INSPECTION
CITR 2A	4/28/2023	FFO	80.43	241.0	OTHER VOLTAGE CIRCUIT BREAKERS
CITR 2A	5/2/2023	FFO	4.42	241.0	BLADE PATH TEMPERATURE SPREAD
CITR 2A	8/17/2023	FFO	5.70	241.0	LIGHTNING
CITR 2A	8/28/2023	PMO	5.00	72.3	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR 2A	9/13/2023	PMO	6.00	0.8	COMBINED CYCLE INSTRUMENTS & CONTROLS
CITR 2A	9/18/2023	PMO	3.17	72.2	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR 2A	11/18/2023	PO	393.10	241.0	BOROSCOPE INSPECTION
CITR 2B	1/13/2023	PFO	24.00	38.3	FUEL PIPING AND VALVES
CITR 2B	3/1/2023	PFO	12.75	45.6	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 2B	3/2/2023	PFO	11.35	45.6	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR 2B	4/1/2023	PPO	5.33	74.9	CIRCULATING WATER VALVE
CITR 2B	4/2/2023	PPO	4.08	74.7	CIRCULATING WATER PIPING
CITR 2B	4/5/2023	FFO	3.62	242.0	OTHER FUEL QUALITY PROBLEMS (OMC)
CITR 2B	4/13/2023	FFO	9.03	242.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
CITR 2B	4/25/2023	PO	220.58	242.0	BOROSCOPE INSPECTION
CITR 2B	5/12/2023	FFO	14.65	242.0	LIGHTNING
CITR 2B	5/31/2023	FFO	2.82	242.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
CITR 2B	6/16/2023	PMO	2.83	73.5	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR 2B	7/5/2023	FFO	4.97	242.0	IP EXTRACTION STEAM INSTRUMENTS AND CONTROLS
CITR 2B	8/17/2023	FFO	16.32	242.0	LIGHTNING
CITR 2B	8/28/2023	PMO	5.00	73.1	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR 2B	9/14/2023	PMO	6.00	0.8	COMBINED CYCLE INSTRUMENTS & CONTROLS
CITR 2B	9/18/2023	PMO	3.17	73.3	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR 2B	11/18/2023	PO	381.67	242.0	BOROSCOPE INSPECTION
CITR ST2	1/13/2023	PFO	24.00	76.1	FUEL PIPING AND VALVES
CITR ST2	3/1/2023	PFO	12.75	79.1	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR ST2	3/2/2023	PFO	11.35	78.9	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (OMC)
CITR ST2	4/1/2023	PPO	5.33	110.5	CIRCULATING WATER VALVE
CITR ST2	4/2/2023	PPO	4.08	110.6	CIRCULATING WATER PIPING
CITR ST2	4/5/2023	FFO	3.35	320.0	OTHER FUEL QUALITY PROBLEMS (OMC)
CITR ST2	4/13/2023	PFO	9.03	178.3	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
CITR ST2	4/20/2023	PPO	22.83	144.8	OTHER ECONOMIC PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Citrus County Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
CITR ST2	4/25/2023	PO	65.12	320.0	OTHER FEEDWATER SYSTEM PROBLEMS
CITR ST2	4/28/2023	FFO	83.47	320.0	GENERATOR OUTPUT BREAKER
CITR ST2	5/2/2023	PPO	4.72	144.4	BOROSCOPE INSPECTION
CITR ST2	5/2/2023	FFO	5.43	320.0	BLADE PATH TEMPERATURE SPREAD
CITR ST2	5/2/2023	PPO	62.02	144.7	BOROSCOPE INSPECTION
CITR ST2	5/12/2023	PFO	14.65	144.8	LIGHTNING
CITR ST2	5/31/2023	PFO	2.93	145.3	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
CITR ST2	6/16/2023	PMO	2.83	114.2	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR ST2	7/5/2023	FFO	3.82	320.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
CITR ST2	8/17/2023	FFO	7.23	320.0	LIGHTNING
CITR ST2	8/28/2023	PMO	5.00	114.6	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR ST2	9/13/2023	PMO	6.00	137.1	COMBINED CYCLE INSTRUMENTS & CONTROLS
CITR ST2	9/14/2023	PMO	6.00	137.1	COMBINED CYCLE INSTRUMENTS & CONTROLS
CITR ST2	9/18/2023	PMO	3.17	114.1	OTHER CIRCULATING WATER SYSTEM PROBLEMS
CITR ST2	11/18/2023	PO	386.62	320.0	BOROSCOPE INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/23/2023	FMO	281.00	712.0	STATION SERVICE STARTUP TRANSFORMER
3/2/2023	PFO	78.00	112.0	BURNER MANAGEMENT SYSTEM
3/3/2023	PFO	1.50	307.0	PULVERIZER FEEDERS
3/15/2023	PMO	3.67	112.0	BURNER INSTRUMENTS AND CONTROLS (EXCEPT LIGHT-OFF)
3/15/2023	PPO	40.00	161.0	PULVERIZER MILLS
3/26/2023	PFO	1.25	161.0	PULVERIZER MILLS
4/21/2023	PFO	37.50	18.0	OTHER FEEDWATER VALVES
4/23/2023	PPO	9.00	355.0	OTHER FEEDWATER VALVES
5/8/2023	PO	299.00	712.0	SPRAY NOZZLES
6/11/2023	PFO	3.00	161.0	PULVERIZER MILLS
6/11/2023	PFO	21.50	112.0	PULVERIZER MILLS
6/12/2023	PFO	30.00	2.0	FORCED DRAFT FANS
6/13/2023	PFO	8.00	82.0	PULVERIZER MILLS
6/13/2023	PFO	1.00	312.0	CONDENSATE/HOTWELL PUMPS
6/15/2023	PFO	8.00	62.0	PULVERIZER MILLS
6/19/2023	FMO	91.00	712.0	WATERWALL (FURNACE WALL)
6/23/2023	FFO	45.98	712.0	MAIN TRANSFORMER
6/26/2023	PFO	4.00	132.0	PRIMARY AIR FLOW INSTRUMENTATION
6/27/2023	PFO	3.50	307.0	BOILER WATER CONDITION
6/28/2023	PFO	1.33	72.0	PULVERIZER FEEDERS
7/2/2023	FFO	12.00	712.0	HP TURBINE BEARINGS
7/10/2023	PPO	11.00	355.0	FEEDWATER BOOSTER PUMP/DRIVE LUBE OIL SYSTEM
7/11/2023	PPO	2.00	257.0	FEEDWATER CONTROLS
7/12/2023	PFO	2.00	257.0	PULVERIZER FEEDERS
7/22/2023	FFO	72.00	712.0	BOILER, MISCELLANEOUS
7/25/2023	PFO	153.47	307.0	BOILER, MISCELLANEOUS
7/31/2023	FMO	3.60	712.0	FEEDWATER PUMP
8/2/2023	FMO	119.22	712.0	DUCTING ON FLUE GAS DESULFURIZATION (FGD) SYSTEM
8/8/2023	PFO	31.00	112.0	PULVERIZER FEEDER MOTOR
8/9/2023	PFO	6.00	307.0	FEEDWATER PUMP
8/17/2023	FFO	20.62	712.0	TURBINE TRIP DEVICES
8/19/2023	PFO	5.00	112.0	PULVERIZER FEEDERS
8/22/2023	FFO	162.43	712.0	DUCTING ON FLUE GAS DESULFURIZATION (FGD) SYSTEM
8/29/2023	PFO	54.50	112.0	FORCED DRAFT FANS
9/1/2023	PMO	48.00	112.0	PULVERIZER MILLS
10/10/2023	PPO	2.00	112.0	PRIMARY AIR DUCT AND DAMPERS
10/12/2023	PFO	14.00	112.0	CONVECTION PASS WALL LEAK
10/14/2023	FFO	144.00	712.0	OTHER BOILER TUBE LEAKS
11/2/2023	PFO	2.00	112.0	BURNERS

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ACTUAL UNIT EVENT DATA - January to December 2023

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
11/18/2023	PFO	21.00	46.0	FEEDWATER PIPING DOWNSTREAM OF FEEDWATER REGULATING VALVE
11/30/2023	PFO	16.47	12.0	HEATER DRAIN VALVES
12/21/2023	PPO	4.00	112.0	OTHER BURNER PROBLEMS
12/27/2023	FMO	89.00	712.0	OTHER FEEDWATER SYSTEM PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/21/2023	PO	2,294.37	161.0	BOROSCOPE INSPECTION
HEP 1A	6/4/2023	FFO	65.08	161.0	12-15KV TRANSFORMERS
HEP 1A	6/16/2023	FFO	25.03	161.0	SWITCHYARD SYSTEM PROTECTION DEVICES – EXTERNAL (OMC)
HEP 1A	6/21/2023	FFO	53.13	161.0	AUXILIARY GENERATORS
HEP 1A	7/12/2023	FFO	5.00	161.0	FIRE PROTECTION SYSTEM INSTRUMENTATION AND CONTROLS
HEP 1A	7/14/2023	PPO	1.92	74.0	INTAKE GRATING FOULING
HEP 1A	7/26/2023	PPO	6.00	21.0	INTAKE GRATING FOULING
HEP 1A	7/27/2023	PPO	8.00	81.0	INTAKE GRATING FOULING
HEP 1A	8/9/2023	PPO	3.00	81.0	INTAKE GRATING FOULING
HEP 1A	9/7/2023	PPO	4.25	61.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1A	10/13/2023	FMO	56.15	161.0	TRANSMISSION SYSTEM PROBLEM
HEP 1A	11/13/2023	FFO	70.55	161.0	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP 1A	11/30/2023	FMO	60.92	161.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP 1B	1/3/2023	FFO	85.92	167.0	FEEDWATER PUMP DRIVE - MOTOR
HEP 1B	1/21/2023	PO	2,103.85	167.0	BOROSCOPE INSPECTION
HEP 1B	5/4/2023	FFO	12.62	167.0	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP 1B	6/4/2023	FFO	20.82	167.0	12-15KV TRANSFORMERS
HEP 1B	6/16/2023	FFO	24.73	167.0	SWITCHYARD SYSTEM PROTECTION DEVICES – EXTERNAL (OMC)
HEP 1B	6/21/2023	FFO	56.33	167.0	AUXILIARY GENERATORS
HEP 1B	7/14/2023	PPO	1.92	80.0	INTAKE GRATING FOULING
HEP 1B	7/26/2023	PPO	6.00	27.0	INTAKE GRATING FOULING
HEP 1B	7/27/2023	PPO	8.00	87.0	INTAKE GRATING FOULING
HEP 1B	8/2/2023	FFO	6.17	167.0	COOLING AND SEAL AIR SYSTEM
HEP 1B	8/2/2023	FFO	1.88	167.0	OTHER FEEDWATER VALVES
HEP 1B	8/9/2023	PPO	3.00	87.0	INTAKE GRATING FOULING
HEP 1B	8/17/2023	FFO	75.70	167.0	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP 1B	9/7/2023	PPO	4.25	67.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST1	1/3/2023	PFO	85.92	77.0	FEEDWATER PUMP DRIVE - MOTOR
HEP ST1	1/21/2023	PO	2,107.13	162.0	INSPECTION
HEP ST1	6/4/2023	FFO	23.65	162.0	12-15KV TRANSFORMERS
HEP ST1	6/16/2023	FFO	26.78	162.0	SWITCHYARD SYSTEM PROTECTION DEVICES – EXTERNAL (OMC)
HEP ST1	6/21/2023	FFO	58.50	162.0	AUXILIARY GENERATORS
HEP ST1	7/14/2023	PPO	1.92	84.0	INTAKE GRATING FOULING
HEP ST1	7/26/2023	PPO	6.00	89.0	INTAKE GRATING FOULING
HEP ST1	7/27/2023	PPO	8.00	63.0	INTAKE GRATING FOULING
HEP ST1	8/2/2023	PFO	8.50	102.0	COOLING AND SEAL AIR SYSTEM
HEP ST1	8/9/2023	PPO	3.00	55.0	INTAKE GRATING FOULING
HEP ST1	8/17/2023	PFO	75.70	88.0	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/13/2023	FFO	16.67	176.0	GENERATOR OUTPUT BREAKER
HEP 2A	1/14/2023	FFO	7.17	176.0	BOILER; MISCELLANEOUS
HEP 2A	1/14/2023	FFO	0.67	176.0	BOILER; MISCELLANEOUS
HEP 2A	3/6/2023	FMO	76.00	176.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2A	3/17/2023	FFO	23.00	176.0	OTHER HP STEAM VALVES
HEP 2A	3/23/2023	PFO	4.00	7.0	FEEDWATER VALVES
HEP 2A	3/23/2023	FFO	2.00	176.0	FEEDWATER PIPING DOWNSTREAM OF FEEDWATER REGULATING VALVE
HEP 2A	3/28/2023	FFO	148.42	176.0	TRANSMISSION LINE
HEP 2A	4/14/2023	FFO	9.00	176.0	FIRE DETECTION AND EXTINGUISHING SYSTEM
HEP 2A	4/17/2023	FFO	9.03	176.0	FIRE DETECTION AND EXTINGUISHING SYSTEM
HEP 2A	6/4/2023	FFO	7.00	176.0	12-15KV TRANSFORMERS
HEP 2A	7/13/2023	PPO	3.00	86.0	INTAKE GRATING FOULING
HEP 2A	8/9/2023	PPO	3.00	74.0	INTAKE GRATING FOULING
HEP 2A	8/17/2023	PPO	8.00	75.0	INTAKE GRATING FOULING
HEP 2A	10/13/2023	PPO	8.00	71.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 2A	10/28/2023	PO	1,494.37	176.0	BOROSCOPE INSPECTION
HEP 2A	12/29/2023	FFO	1.05	176.0	GENERATOR BEARINGS
HEP 2A	12/29/2023	PO	63.58	176.0	BOROSCOPE INSPECTION
HEP 2B	1/14/2023	FFO	7.17	174.0	OTHER BOILER INSTRUMENTATION AND CONTROL PROBLEMS
HEP 2B	1/14/2023	FFO	0.67	174.0	OTHER BOILER INSTRUMENTATION AND CONTROL PROBLEMS
HEP 2B	3/6/2023	FMO	76.00	174.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2B	3/17/2023	FFO	23.00	174.0	OTHER HP STEAM VALVES
HEP 2B	3/28/2023	FFO	155.98	174.0	TRANSMISSION LINE
HEP 2B	7/13/2023	PPO	3.00	84.0	INTAKE GRATING FOULING
HEP 2B	8/9/2023	PPO	3.00	72.0	INTAKE GRATING FOULING
HEP 2B	8/17/2023	PPO	8.00	73.0	INTAKE GRATING FOULING
HEP 2B	9/20/2023	FFO	1.57	174.0	OTHER CLOSED COOLING WATER SYSTEM PROBLEMS
HEP 2B	10/13/2023	PPO	8.00	69.0	AIR-COOLED CONDENSER TUBES
HEP 2B	10/28/2023	PO	1,559.00	174.0	BOROSCOPE INSPECTION
HEP ST2	5/6/2022	PFO	7,201.00	22.0	OTHER LOW PRESSURE TURBINE PROBLEMS
HEP ST2	3/6/2023	FMO	76.00	182.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST2	3/17/2023	FFO	23.00	182.0	OTHER HP STEAM VALVES
HEP ST2	3/23/2023	PFO	2.00	84.0	FEEDWATER PIPING DOWNSTREAM OF FEEDWATER REGULATING VALVE
HEP ST2	3/28/2023	FFO	156.30	182.0	TRANSMISSION LINE
HEP ST2	6/4/2023	PFO	7.00	91.0	12-15KV TRANSFORMERS
HEP ST2	7/13/2023	PPO	3.00	84.0	INTAKE GRATING FOULING
HEP ST2	8/9/2023	PPO	3.00	54.0	INTAKE GRATING FOULING
HEP ST2	8/17/2023	PPO	8.00	59.0	INTAKE GRATING FOULING
HEP ST2	10/13/2023	PPO	8.00	77.0	AIR-COOLED CONDENSER TUBES

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST2	10/28/2023	PO	1,559.00	182.0	BOROSCOPE INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	12/19/2022	PFO	2,662.67	16.0	IP EXTRACTION STEAM VALVES
HEP 3A	2/23/2023	PFO	9.00	51.0	COOLING AND SEAL AIR SYSTEM
HEP 3A	2/25/2023	PFO	1,328.67	41.0	COOLING AND SEAL AIR SYSTEM
HEP 3A	3/21/2023	FFO	9.92	171.0	OTHER CONTROLS AND INSTRUMENTATION PROBLEMS
HEP 3A	4/22/2023	FMO	305.33	171.0	BALANCE OF PLANT OVERHAUL/OUTAGE
HEP 3A	5/9/2023	FFO	52.00	171.0	LOW PRESSURE COMPRESSOR BLEED VALVES
HEP 3A	5/13/2023	FFO	5.92	171.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP 3A	5/15/2023	FFO	55.25	171.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP 3A	5/18/2023	FFO	13.00	171.0	OTHER FEEDWATER VALVES
HEP 3A	6/25/2023	FFO	113.58	171.0	FEEDWATER INSTRUMENTATION
HEP 3A	7/6/2023	PPO	6.50	73.0	INTAKE GRATING FOULING
HEP 3A	8/8/2023	FFO	12.37	171.0	BLADE PATH TEMPERATURE SPREAD
HEP 3A	8/9/2023	PPO	3.00	68.0	INTAKE GRATING FOULING
HEP 3A	8/14/2023	PPO	8.00	69.0	INTAKE GRATING FOULING
HEP 3A	8/16/2023	PFO	9.00	27.0	OXYGEN ANALYZER PROBLEMS
HEP 3A	8/18/2023	PPO	9.00	71.0	INTAKE GRATING FOULING
HEP 3A	8/24/2023	PPO	6.00	64.1	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP 3A	9/1/2023	PO	1,367.00	171.0	BOROSCOPE INSPECTION
HEP 3A	10/29/2023	PO	94.00	171.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP 3A	11/2/2023	PO	25.00	171.0	BOROSCOPE INSPECTION
HEP 3A	11/4/2023	PO	48.00	171.0	BOROSCOPE INSPECTION
HEP 3A	12/1/2023	FFO	14.00	171.0	FUEL PIPING AND VALVES
HEP 3A	12/2/2023	FFO	28.00	171.0	FUEL PIPING AND VALVES
HEP 3B	12/19/2022	PFO	2,662.67	21.0	IP EXTRACTION STEAM VALVES
HEP 3B	2/10/2023	FFO	51.33	176.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 3B	2/23/2023	PFO	9.00	56.0	COOLING AND SEAL AIR SYSTEM
HEP 3B	2/25/2023	PFO	1,328.67	46.0	COOLING AND SEAL AIR SYSTEM
HEP 3B	4/22/2023	FMO	296.72	176.0	BALANCE OF PLANT OVERHAUL/OUTAGE
HEP 3B	6/25/2023	FFO	98.83	176.0	FEEDWATER INSTRUMENTATION
HEP 3B	7/6/2023	PPO	5.50	77.0	INTAKE GRATING FOULING
HEP 3B	8/9/2023	PPO	3.00	74.0	INTAKE GRATING FOULING
HEP 3B	8/14/2023	PPO	8.00	74.0	INTAKE GRATING FOULING
HEP 3B	8/15/2023	FFO	8.17	176.0	FEEDWATER PUMP
HEP 3B	8/16/2023	PFO	9.00	33.0	OXYGEN ANALYZER PROBLEMS
HEP 3B	8/18/2023	PPO	9.00	75.0	INTAKE GRATING FOULING
HEP 3B	8/24/2023	PPO	6.00	73.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP 3B	9/1/2023	PO	1,359.00	176.0	BOROSCOPE INSPECTION
HEP 3B	10/28/2023	PO	18.00	176.0	BLADE PATH TEMPERATURE SPREAD
HEP 3B	11/1/2023	PO	72.00	176.0	BOROSCOPE INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	11/4/2023	PO	41.00	176.0	BOROSCOPE INSPECTION
HEP 3B	12/2/2023	FFO	2.00	176.0	FUEL PIPING AND VALVES
HEP 3B	12/2/2023	FFO	8.00	176.0	FUEL PIPING AND VALVES
HEP ST3	12/19/2022	PFO	2,662.67	2.8	IP EXTRACTION STEAM VALVES
HEP ST3	2/10/2023	FFO	1.37	176.0	COLD REHEAT STEAM PIPING UP TO BOILER
HEP ST3	2/23/2023	PFO	9.00	16.0	COOLING AND SEAL AIR SYSTEM
HEP ST3	2/25/2023	PFO	1,328.67	11.0	COOLING AND SEAL AIR SYSTEM
HEP ST3	4/21/2023	FMO	323.95	176.0	BALANCE OF PLANT OVERHAUL/OUTAGE
HEP ST3	6/25/2023	FFO	102.00	176.0	FEEDWATER INSTRUMENTATION
HEP ST3	7/6/2023	PPO	6.50	47.0	INTAKE GRATING FOULING
HEP ST3	8/8/2023	PFO	12.37	94.0	BLADE PATH TEMPERATURE SPREAD
HEP ST3	8/9/2023	PPO	3.00	42.0	INTAKE GRATING FOULING
HEP ST3	8/14/2023	PPO	8.00	91.0	INTAKE GRATING FOULING
HEP ST3	8/15/2023	PFO	22.17	92.0	FEEDWATER PUMP
HEP ST3	8/16/2023	PFO	9.00	9.0	OXYGEN ANALYZER PROBLEMS
HEP ST3	8/18/2023	PPO	9.00	38.0	INTAKE GRATING FOULING
HEP ST3	8/24/2023	PPO	6.00	47.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
HEP ST3	9/1/2023	PO	1,362.30	176.0	INSPECTION
HEP ST3	10/28/2023	PO	3.00	176.0	BLADE PATH TEMPERATURE SPREAD
HEP ST3	10/29/2023	PO	3.00	176.0	BLADE PATH TEMPERATURE SPREAD
HEP ST3	11/1/2023	PO	53.25	176.0	INSPECTION
HEP ST3	11/4/2023	PO	43.92	176.0	INSPECTION
HEP ST3	12/2/2023	FFO	2.00	176.0	FUEL PIPING AND VALVES
HEP ST3	12/2/2023	FFO	8.00	176.0	FUEL PIPING AND VALVES

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	3/28/2023	FFO	6.95	171.0	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (NOT OMC)
HEP 4A	4/28/2023	PPO	3.00	51.0	INTAKE GRATING FOULING
HEP 4A	5/31/2023	FMO	15.00	171.0	DIAPHRAGMS
HEP 4A	6/13/2023	PPO	1.50	66.0	INTAKE GRATING FOULING
HEP 4A	7/6/2023	PPO	8.50	68.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 4A	7/13/2023	PPO	1.50	66.0	INTAKE GRATING FOULING
HEP 4A	8/5/2023	PPO	1.50	68.0	INTAKE GRATING FOULING
HEP 4A	8/9/2023	PPO	3.00	71.0	INTAKE GRATING FOULING
HEP 4A	8/10/2023	PPO	1.00	70.0	INTAKE GRATING FOULING
HEP 4A	8/15/2023	PPO	9.00	65.0	INTAKE GRATING FOULING
HEP 4A	8/16/2023	PFO	16.00	26.0	TUBE SHEET FOULING
HEP 4A	8/16/2023	PPO	7.00	79.0	INTAKE GRATING FOULING
HEP 4A	9/13/2023	FFO	29.98	171.0	UNIT AUXILIARIES TRANSFORMER
HEP 4A	10/6/2023	PPO	8.00	66.0	AIR-COOLED CONDENSER TUBES
HEP 4B	3/28/2023	FFO	12.28	171.0	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (NOT OMC)
HEP 4B	4/28/2023	PPO	3.00	51.0	INTAKE GRATING FOULING
HEP 4B	6/13/2023	PPO	1.50	67.0	INTAKE GRATING FOULING
HEP 4B	7/6/2023	PPO	8.50	69.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 4B	7/13/2023	PPO	1.50	67.0	INTAKE GRATING FOULING
HEP 4B	7/15/2023	FFO	26.00	171.0	NOX STACK EMISSIONS – GAS TURBINE
HEP 4B	7/16/2023	FFO	0.33	171.0	DESUPERHEATER/ATTEMPERATOR CONTROLS
HEP 4B	8/5/2023	PPO	1.50	67.0	INTAKE GRATING FOULING
HEP 4B	8/9/2023	PPO	3.00	71.0	INTAKE GRATING FOULING
HEP 4B	8/10/2023	PPO	1.00	71.0	INTAKE GRATING FOULING
HEP 4B	8/15/2023	PPO	9.00	66.0	INTAKE GRATING FOULING
HEP 4B	8/16/2023	PFO	16.00	24.0	TUBE SHEET FOULING
HEP 4B	8/16/2023	PPO	7.00	79.0	INTAKE GRATING FOULING
HEP 4B	9/13/2023	FFO	10.52	171.0	UNIT AUXILIARIES TRANSFORMER
HEP 4B	10/6/2023	PPO	8.00	66.0	AIR-COOLED CONDENSER TUBES
HEP 4B	10/31/2023	FFO	540.28	171.0	EXCITER COMMUTATOR AND BRUSHES
HEP 4B	11/26/2023	FFO	27.67	171.0	INLET BLEED HEAT VALVE
HEP ST4	3/28/2023	FFO	10.42	174.0	OTHER SWITCHYARD EQUIPMENT – EXTERNAL (NOT OMC)
HEP ST4	4/28/2023	PPO	3.00	44.0	INTAKE GRATING FOULING
HEP ST4	5/31/2023	FMO	15.00	174.0	DIAPHRAGMS
HEP ST4	6/13/2023	PPO	1.50	37.0	INTAKE GRATING FOULING
HEP ST4	7/6/2023	PPO	8.50	42.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST4	7/13/2023	PPO	1.50	35.0	INTAKE GRATING FOULING
HEP ST4	7/15/2023	PFO	26.00	82.0	NOX STACK EMISSIONS – GAS TURBINE
HEP ST4	7/16/2023	PFO	0.33	104.0	DESUPERHEATER/ATTEMPERATOR CONTROLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January to December 2023

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	8/5/2023	PPO	1.50	42.0	INTAKE GRATING FOULING
HEP ST4	8/9/2023	PPO	3.00	37.0	INTAKE GRATING FOULING
HEP ST4	8/10/2023	PPO	1.00	38.0	INTAKE GRATING FOULING
HEP ST4	8/15/2023	PPO	9.00	89.0	INTAKE GRATING FOULING
HEP ST4	8/16/2023	PFO	16.00	34.0	TUBE SHEET FOULING
HEP ST4	8/16/2023	PPO	7.00	47.0	INTAKE GRATING FOULING
HEP ST4	9/13/2023	FFO	31.43	174.0	UNIT AUXILIARIES TRANSFORMER
HEP ST4	10/6/2023	PPO	8.00	39.0	AIR-COOLED CONDENSER TUBES
HEP ST4	10/31/2023	PFO	540.28	81.0	EXCITER COMMUTATOR AND BRUSHES