

139 East Fourth Street P.O. Box 960 Cincinnati, Ohio 45201-0960 Tel: 513-287-2545 Libbie.Miller@duke-energy.com

Libbie S. Miller Rates & Regulatory Manager

April 19, 2024

Ms. Linda Bridwell, Executive Director

Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602-0615 RECEIVED APR 19 2024

PUBLIC SERVICE COMMISSION

Dear Ms. Bridwell:

In compliance with KAR 807 5:056, enclosed for filing are the fuel adjustment clause (FAC) schedules with supporting sales and fuel cost schedules supporting Duke Energy Kentucky's fuel adjustment factor applicable to billings for retail sales in May 2024.

On March 16, 2020, the Commission issued an order in Case No. 2020-00085, Electronic Emergency Docket Related to the Novel Coronavirus COVID-19. The order indicated that "The Commission finds that, to the degree possible, the filing of physical documents with the Commission should be temporarily suspended." Accordingly, Duke Energy Kentucky is making this filing electronically and will file an original of the report with the Commission once the state of emergency has ceased.

Please contact me if you have any questions.

Sincerely,

/s/ Libbie Miller

Enclosure

DUKE ENERGY KENTUCKY FUEL ADJUSTMENT CLAUSE SCHEDULE

Expense Month: March 2024

Line No.	Description	_ ,	Amount	Rate (\$/kWh)
1	Fuel F _m (Schedule 2, Line K)		\$ 10,099,102.93	
2	Sales S _m (Schedule 3, Line C)	÷	295,966,663	0.034122
3	Base Fuel Rate (F _b /S _b) per PSC Order in Case I	No. 2021-000	057 (-)	0.025401
4	Fuel Adjustment Clause Rate (Line 2 - Line 3)			0.008721
	Effective Date for Billing:		May 1, 2024	
	Submitted by:		/s/ Libbie Miller	
	Title:		Rates & Regulatory M	anager
	Date Submitted:		April 19, 2024	

DUKE ENERGY KENTUCKY FUEL COST SCHEDULE

Expense Month: March 2024

			Dollars (\$)
A. Company Generation	(.)	Φ	0.070.504.05
Coal Burned Oil Burned	(+) (+)	\$	9,070,524.25 200,210.07
Gas Burned	(+)		418,650.00
Net Fuel Related RTO Billing Line Items	(-)		289,798.69
Fuel (assigned cost during Forced Outage ^(a))	(+)		7,746.40
Fuel (substitute cost during Forced Outage ^(a))	(-)		7,740.40
Sub-Total	_ (-)	\$	9,407,332.03
B. Purchases			
Economy Purchases	(+)	\$	870,900.47
Other Purchases	(+)	Ψ	-
Other Purchases (substitute for Forced Outage ^(a))	(-)		7,746.40
Less purchases above highest cost units	(-)		-
Sub-Total	_ ``	\$	863,154.07
C. Non-Native Sales Fuel Costs	(-)	\$	658,078.17
D. Total Fuel Costs (A + B - C)	(+)	\$	9,612,407.93
E. Total Company Over or (Under) Recovery from Schedule 5, Line 14	(-)	\$	(678,568.87)
F. Adjustment indicating the difference in actual fuel cost for the month of February 2024 and the estimated cost orginally reported \$9,051,052.72 - \$9,191,754.63 (actual) (estimate)	(+)	\$	(140,701.91)
G. RTO Resettlements for prior periods from Schedule 6, Line G	(+)	\$	(51,171.96)
H. Prior Period Correction	(+)	\$	-
I. Deferral of Current Purchased Power Costs	(-)	\$	-
J. Amount of Deferred Purchased Power Costs included in the filing	(+)	\$	-
K. Grand Total Fuel Cost (D - E + F + G + H - I + J)		\$	10,099,102.93

DUKE ENERGY KENTUCKY SALES SCHEDULE

Expense Month: March 2024

		Kilowatt-Hours Current Month
A. Generation (Net)	(+)	289,582,000
Purchases Including Interchange-In	(+)	39,891,050
Sub-Total		329,473,050
B. Pumped Storage Energy	(+)	-
Non-Native Sales Including Interchange Out	(+)	19,884,490
System Losses (309,588,560 KWH times 4.4% (a))	(+)	13,621,897
Sub-Total		33,506,387
C. Total Sales (A - B)		295,966,663

Note: (a) Average of prior 12 months.

DUKE ENERGY KENTUCKY FINAL FUEL COST SCHEDULE

Expense Month: February 2024

		Dollars (\$)
A. Company Generation		
Coal Burned	(+)	\$ 8,350,512.73
Oil Burned	(+)	250,374.43
Gas Burned	(+)	238,080.00
Net Fuel Related RTO Billing Line Items	(-)	492,393.62
Fuel (assigned cost during Forced Outage ^(a))	(+)	206,823.68
Fuel (substitute cost during Forced Outage ^(a))	(-)	10,355.19
Sub-Total		\$ 8,543,042.03
B. Purchases		
Economy Purchases	(+)	\$ 1,164,849.38
Other Purchases	(+)	0.00
Other Purchases (substitute for Forced Outage ^(a))	(-)	196,468.49
Less purchases above highest cost units	(-)	0.00
Sub-Total		\$ 968,380.89
C. Non-Native Sales Fuel Costs	(-)	\$460,370.20
D. Total Fuel Costs (A + B - C)		\$ 9,051,052.72

DUKE ENERGY KENTUCKY OVER OR (UNDER) RECOVERY SCHEDULE

Expense Month: January 2024

Line No.	Description	_	
1	FAC Rate Billed (\$/kWh)	(+)	0.009372
2	Retail kWh Billed at Above Rate	(x)	 294,023,675
3	FAC Revenue/(Refund) (Line 1 * Line 2)		\$ 2,755,589.88
4	kWh Used to Determine Last FAC Rate Billed	(+)	366,427,523
5	Non-Jurisdictional kWh included in Line 4	(-)	
6	Kentucky Jurisdictional kWh Included in Line 4 (Line 4 - Line 5)		366,427,523
7	Recoverable FAC Revenue/(Refund) (Line 1 * Line 6)		\$ 3,434,158.75
8	Over or (Under) (Line 3 - Line 7)		\$ (678,568.87)
9	Total Sales (Schedule 3, Line C)	(-)	295,966,663
10	Kentucky Jurisdictional Sales	(÷)	295,966,663
11	Ratio of Total Sales to KY Jursidictional Sales (Line 9 ÷ Line 10)		1.00000
12	Total Company Over or (Under) Recovery (Line 8 * Line 11)	(+)	\$ (678,568.87)
13	Amount Over or (Under) Recovered in prior filings	(+)	\$ -
14	Total Company Over or (Under) Recovery		\$ (678,568.87)

DUKE ENERGY KENTUCKY REGIONAL TRANSMISSION ORGANIZATION RESETTLEMENTS FUEL COST SCHEDULE

Expense Month: November 2023

		Dollars (\$)
A. Company Generation		
Coal Burned	(+)	\$ 6,251,483.33
Oil Burned	(+)	1,148,540.34
Gas Burned	(+)	1,024,274.20
Net Fuel Related RTO Billing Line Items	(-)	557,611.61
Fuel (assigned cost during Forced Outage ^(a))	(+)	677,535.78
Fuel (substitute cost during Forced Outage ^(a))	(-)	191,376.34
Sub-Total		\$ 8,352,845.70
B. Purchases Economy Purchases Other Purchases Other Purchases (substitute for Forced Outage ^(a)) Less purchases above highest cost units Sub-Total	(+) (+) (-) (-)	\$ 3,850,199.68 - 486,159.44 - 3,364,040.24
C. Non-Native Sales Fuel Costs	(-)	\$ 847,999.15
D. Total Fuel Costs (A + B - C)		\$ 10,868,886.79
E. Total Fuel Costs Previously Reported	(-)	\$ 10,920,058.75
F. Prior Period Adjustment	(+)	\$ -
G. Adjustment due to PJM Resettlements		\$ (51,171.96)



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Libbie S. Miller Rates & Regulatory Manager

March 22, 2024

Ms. Linda Bridwell, Executive Director

Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602-0615 RECEIVED MAR 22 2024

PUBLIC SERVICE COMMISSION

Dear Ms. Bridwell:

In compliance with KAR 807 5:056, enclosed for filing are the fuel adjustment clause (FAC) schedules with supporting sales and fuel cost schedules supporting Duke Energy Kentucky's fuel adjustment factor applicable to billings for retail sales in April 2024.

On March 16, 2020, the Commission issued an order in Case No. 2020-00085, Electronic Emergency Docket Related to the Novel Coronavirus COVID-19. The order indicated that "The Commission finds that, to the degree possible, the filing of physical documents with the Commission should be temporarily suspended." Accordingly, Duke Energy Kentucky is making this filing electronically and will file an original of the report with the Commission once the state of emergency has ceased.

Please contact me if you have any questions.

Sincerely,

/s/ Libbie Miller

Enclosure

DUKE ENERGY KENTUCKY FUEL ADJUSTMENT CLAUSE SCHEDULE

Expense Month:

February 2024

Line No.	Description	_		Amount	Rate (\$/kWh)
1	Fuel F _m (Schedule 2, Line K)		\$	8,542,364.61	
2	Sales S _m (Schedule 3, Line C)	÷		295,669,540	0.028892
3	Base Fuel Rate (F _b /S _b) per PSC Order in Case N	No. 2021-000)57	(-)	0.025401
4	Fuel Adjustment Clause Rate (Line 2 - Line 3)				0.003491
	Effective Date for Billing:			April 1, 2024	
	Submitted by:			/s/ Libbie Mille	-
	Title:		Ra	tes & Regulatory M	lanager
	Date Submitted:			March 22, 2024	1

DUKE ENERGY KENTUCKY FUEL COST SCHEDULE

Expense Month: February 2024

			Dollars (\$)
A. Company Generation	· . \	Φ.	0.250.510.40
	(+)	\$	8,350,512.42
	(+)		250,374.43 238,080.00
	(+)		346,343.82
(-)	(-)		
	(+)		208,255.01
,	(-)		11,786.52
Sub-Total		\$	8,689,091.52
B. Purchases		_	
·	(+)	\$	1,144,937.78
	(+)		-
· · · · · · · · · · · · · · · · · · ·	(-)		196,468.49
·	(-)		-
Sub-Total		\$	948,469.29
C. Non-Native Sales Fuel Costs	(-)	\$	445,806.18
D. Total Fuel Costs (A + B - C)	(+)	\$	9,191,754.63
E. Total Company Over or (Under) Recovery from Schedule 5, Line 14	(-)	\$	392,000.81
F. Adjustment indicating the difference in actual fuel cost for the month of January 2024 and the estimated cost orginally reported \$13,494,911.79 - \$13,701,374.46 (actual) (estimate)	(+)	\$	(206,462.67)
G. RTO Resettlements for prior periods from Schedule 6, Line G	(+)	\$	(50,926.54)
H. Prior Period Correction	(+)	\$	-
I. Deferral of Current Purchased Power Costs	(-)	\$	-
J. Amount of Deferred Purchased Power Costs included in the filing	(+)	\$	-
K. Grand Total Fuel Cost (D - E + F + G + H - I + J)		\$	8,542,364.61

DUKE ENERGY KENTUCKY SALES SCHEDULE

Expense Month: February 2024

			Kilowatt-Hours Current Month
A.	Generation (Net)	(+)	278,451,500
	Purchases Including Interchange-In	(+)	49,100,040
	Sub-Total		327,551,540
В.	Pumped Storage Energy	(+)	-
	Non-Native Sales Including Interchange Out	(+)	14,673,720
	System Losses (312,877,820 KWH times 5.5% (a))	(+)	17,208,280
	Sub-Total		31,882,000
C.	Total Sales (A - B)		295,669,540

Note: (a) Average of prior 12 months.

DUKE ENERGY KENTUCKY FINAL FUEL COST SCHEDULE

Expense Month: January 2024

		Dollars (\$)
A. Company Generation		
Coal Burned	(+)	\$ 7,253,891.18
Oil Burned	(+)	1,300,650.85
Gas Burned	(+)	688,200.00
Net Fuel Related RTO Billing Line Items	(-)	832,970.05
Fuel (assigned cost during Forced Outage ^(a))	(+)	82,960.79
Fuel (substitute cost during Forced Outage ^(a))	(-)	0.00
Sub-Total	_	\$ 8,492,732.77
B. Purchases		
Economy Purchases	(+)	\$ 5,966,162.46
Other Purchases	(+)	0.00
Other Purchases (substitute for Forced Outage ^(a))	(-)	419,656.20
Less purchases above highest cost units	(-)	0.00
Sub-Total	_	\$ 5,546,506.26
C. Non-Native Sales Fuel Costs	(-)	\$544,327.24
D. Total Fuel Costs (A + B - C)		\$ 13,494,911.79

DUKE ENERGY KENTUCKY OVER OR (UNDER) RECOVERY SCHEDULE

Expense Month: December 2023

Line No.	Description	_	
1	FAC Rate Billed (\$/kWh)	(+)	0.005495
2	Retail kWh Billed at Above Rate	(x)	386,780,195
3	FAC Revenue/(Refund) (Line 1 * Line 2)		\$ 2,125,357.17
4	kWh Used to Determine Last FAC Rate Billed	(+)	315,442,468
5	Non-Jurisdictional kWh included in Line 4	(-)	<u>-</u>
6	Kentucky Jurisdictional kWh Included in Line 4 (Line 4 - Line 5)		315,442,468
7	Recoverable FAC Revenue/(Refund) (Line 1 * Line 6)		\$ 1,733,356.36
8	Over or (Under) (Line 3 - Line 7)		\$ 392,000.81
9	Total Sales (Schedule 3, Line C)	(-)	295,669,540
10	Kentucky Jurisdictional Sales	(÷)	295,669,540
11	Ratio of Total Sales to KY Jursidictional Sales (Line 9 ÷ Line 10)		1.00000
12	Total Company Over or (Under) Recovery (Line 8 * Line 11)	(+)	\$ 392,000.81
13	Amount Over or (Under) Recovered in prior filings	(+)	\$ -
14	Total Company Over or (Under) Recovery		\$ 392,000.81

DUKE ENERGY KENTUCKY REGIONAL TRANSMISSION ORGANIZATION RESETTLEMENTS FUEL COST SCHEDULE

Expense Month: October 2023

	Dollars (\$)
A. Company Generation	
Coal Burned (+)	\$ (507,497.69) (b)
Oil Burned (+)	158,380.08
Gas Burned (+)	897,608.40
Net Fuel Related RTO Billing Line Items (-)	1,031,269.67
Fuel (assigned cost during Forced Outage ^(a)) (+)	-
Fuel (substitute cost during Forced Outage ^(a)) (-)	-
Sub-Total	\$ (482,778.88)
B. Purchases	
Economy Purchases (+)	\$ 9,655,971.61
Other Purchases (+)	-
Other Purchases (substitute for Forced Outage ^(a)) (-)	-
Less purchases above highest cost units (-)	
Sub-Total	\$ 9,655,971.61
C. Non-Native Sales Fuel Costs (-)	\$ 892.01
D. Total Fuel Costs (A + B - C)	\$ 9,172,300.72
E. Total Fuel Costs Previously Reported (-)	\$ 9,223,227.26
F. Prior Period Adjustment (+)	\$ -
G. Adjustment due to PJM Resettlements	\$ (50,926.54)

⁽b) Coal inventory adjustment made at the end of September was not recorded on the general ledger until October due to timing.



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Libbie S. Miller Rates & Regulatory Manager

February 20, 2024

Ms. Linda Bridwell, Executive Director

Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602-0615 FEB 20 2024
PUBLIC SERVICE

COMMISSION

Dear Ms. Bridwell:

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Please contact me if you have any questions.

Sincerely,

/s/ Libbie Miller

Enclosure

DUKE ENERGY KENTUCKY FUEL ADJUSTMENT CLAUSE SCHEDULE

Expense Month: January 2024

Line No.	Description	_	Amount	Rate (\$/kWh)
1	Fuel F _m (Schedule 2, Line K)		\$ 12,741,660.88	
2	Sales S _m (Schedule 3, Line C)	÷	366,427,523	0.034773
3	Base Fuel Rate (F _b /S _b) per PSC Order in Case N	No. 2021-000	057 (-)	0.025401
4	Fuel Adjustment Clause Rate (Line 2 - Line 3)			0.009372
	Effective Date for Billing:		March 1, 2024	
	Submitted by:	/s/ Libbie Miller		
	Title:	Rates & Regulatory Manager		
	Date Submitted:	February 20, 2024		

DUKE ENERGY KENTUCKY FUEL COST SCHEDULE

Expense Month: January 2024

			Dollars (\$)
A. Company Generation		•	7.050.004.05
Coal Burned	(+)	\$	7,253,891.95
Oil Burned	(+)		1,300,650.85
Gas Burned	(+)		688,200.00
Net Fuel Related RTO Billing Line Items	(-)		670,643.11
Fuel (assigned cost during Forced Outage (a))	(+)		82,960.79
Fuel (substitute cost during Forced Outage ^(a))	(-)		
Sub-Total		\$	8,655,060.48
B. Purchases			
Economy Purchases	(+)	\$	6,011,465.93
Other Purchases	(+)		-
Other Purchases (substitute for Forced Outage ^(a))	(-)		419,656.20
Less purchases above highest cost units	(-)		-
Sub-Total		\$	5,591,809.73
C. Non-Native Sales Fuel Costs	(-)	\$	545,495.75
D. Total Fuel Costs (A + B - C)	(+)	\$	13,701,374.46
E. Total Company Over or (Under) Recovery from Schedule 5, Line 14	(-)	\$	879,001.63
F. Adjustment indicating the difference in actual fuel cost for the month of December 2023 and the estimated cost orginally reported \$10,189,687.30 - \$10,253,303.81 (actual) (estimate)	(+)	\$	(63,616.51)
G. RTO Resettlements for prior periods from Schedule 6, Line G	(+)	\$	(17,095.44)
H. Prior Period Correction	(+)	\$	-
I. Deferral of Current Purchased Power Costs	(-)	\$	-
J. Amount of Deferred Purchased Power Costs included in the filing	(+)	\$	-
K. Grand Total Fuel Cost (D - E + F + G + H - I + J)		\$	12,741,660.88

DUKE ENERGY KENTUCKY SALES SCHEDULE

Expense Month: January 2024

		Kilowatt-Hours Current Month
A. Generation (Net)	(+)	235,549,000
Purchases Including Interchange-In	(+)	155,459,800
Sub-Total		391,008,800
B. Pumped Storage Energy	(+)	-
Non-Native Sales Including Interchange Out	(+)	6,105,940
System Losses (384,902,860 KWH times 4.8% (a))	(+)	18,475,337
Sub-Total		24,581,277
C. Total Sales (A - B)		366,427,523

Note: (a) Average of prior 12 months.

DUKE ENERGY KENTUCKY FINAL FUEL COST SCHEDULE

Expense Month: December 2023

		Dollars (\$)
A. Company Generation		
Coal Burned	(+)	\$ 9,187,087.09
Oil Burned	(+)	152,084.27
Gas Burned	(+)	804,429.50
Net Fuel Related RTO Billing Line Items	(-)	290,193.70
Fuel (assigned cost during Forced Outage ^(a))	(+)	95,620.31
Fuel (substitute cost during Forced Outage ^(a))	(-)	9,642.51
Sub-Total		\$ 9,939,384.96
B. Purchases		
Economy Purchases	(+)	\$ 1,217,610.77
Other Purchases	(+)	0.00
Other Purchases (substitute for Forced Outage ^(a))	(-)	85,977.80
Less purchases above highest cost units	(-)	0.00
Sub-Total		\$ 1,131,632.97
C. Non-Native Sales Fuel Costs	(-)	\$881,330.63
D. Total Fuel Costs (A + B - C)		\$ 10,189,687.30

DUKE ENERGY KENTUCKY OVER OR (UNDER) RECOVERY SCHEDULE

Expense Month: November 2023

Line No.	Description	_	
1	FAC Rate Billed (\$/kWh)	(+)	0.014570
2	Retail kWh Billed at Above Rate	(x)	 344,297,293
3	FAC Revenue/(Refund) (Line 1 * Line 2)		\$ 5,016,411.56
4	kWh Used to Determine Last FAC Rate Billed	(+)	283,967,737
5	Non-Jurisdictional kWh included in Line 4	(-)	
6	Kentucky Jurisdictional kWh Included in Line 4 (Line 4 - Line 5)		283,967,737
7	Recoverable FAC Revenue/(Refund) (Line 1 * Line 6)		\$ 4,137,409.93
8	Over or (Under) (Line 3 - Line 7)		\$ 879,001.63
9	Total Sales (Schedule 3, Line C)	(-)	366,427,523
10	Kentucky Jurisdictional Sales	(÷)	366,427,523
11	Ratio of Total Sales to KY Jursidictional Sales (Line 9 ÷ Line 10)		1.00000
12	Total Company Over or (Under) Recovery (Line 8 * Line 11)	(+)	\$ 879,001.63
13	Amount Over or (Under) Recovered in prior filings	(+)	\$ -
14	Total Company Over or (Under) Recovery		\$ 879,001.63

DUKE ENERGY KENTUCKY REGIONAL TRANSMISSION ORGANIZATION RESETTLEMENTS FUEL COST SCHEDULE

Expense Month: September 2023

		Dollars (\$)
A. Company Generation		
Coal Burned	(+)	\$ 5,446,618.68
Oil Burned	(+)	78,833.84
Gas Burned	(+)	169,100.00
Net Fuel Related RTO Billing Line Items	(-)	97,385.07
Fuel (assigned cost during Forced Outage ^(a))	(+)	8,249.75
Fuel (substitute cost during Forced Outage ^(a))	(-)	1,534.07
Sub-Total	_	\$ 5,603,883.13
B. Purchases	(+) (+) (-) (-)	\$ 5,691,599.96 - 6,715.68 5,684,884.28
C. Non-Native Sales Fuel Costs	(-)	\$ 123,421.15
D. Total Fuel Costs (A + B - C)		\$ 11,165,346.26
E. Total Fuel Costs Previously Reported	(-)	\$ 11,182,441.70
F. Prior Period Adjustment	(+)	\$ -
G. Adjustment due to PJM Resettlements		\$ (17,095.44)