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PUBLIC SERVICE
COMMISSION



Ms. Linda Bridwell
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, KY 40601-8294

**Louisville Gas and Electric
Company**
State Regulation and Rates
220 West Main Street
PO Box 32010
Louisville, Kentucky 40232
www.lge-ku.com

Andrea M. Fackler
Manager, Revenue
Requirement/Cost of Service
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September 14, 2021

Dear Ms. Bridwell:

Enclosed are completed forms for Louisville Gas and Electric Company (“LG&E”) showing fuel inventories, power transactions, and fuel purchases for the month of July 2021.

Pursuant to Ordering Paragraph 19 of the Commission’s June 30, 2021 Order in LG&E’s most recent base rate case (Case No. 2020-00350), Page 8, Sheet 1 of 1 has been included in the filing to update the Commission on Southeast Energy Exchange Market (“SEEM”) activities. The July 2021 expense month filing includes the cumulative costs incurred to date. Beginning with the August 2021 expense month filing, only current costs incurred during the applicable expense month will be included. Upon approval of SEEM, costs and revenues related to purchases and sales, respectively, will be reflected in the Form B filing starting with the first month that such activities occur.

If you have any questions, please let me know.

Sincerely,

A handwritten signature in black ink that reads 'Andrea M. Fackler'. The signature is written in a cursive, flowing style.

Andrea M. Fackler

Enclosures

Company: Louisville Gas and Electric Company

Plant: Mill Creek and Trimble County

Month Ended: July 31, 2021

Fuel: Coal

		Amount	MMBTU	Per Unit	Tons	Per Unit
<u>Mill Creek High Sulfur</u>						
Beginning Inventory	6/30/2021	\$ 19,535,099.16	9,700,808.42	\$ 2.0138	418,393.14	\$ 46.6908
Add: Purchases		\$ 11,839,854.41	5,825,528.66	\$ 2.0324	249,838.61 (4)	\$ 47.3900
Adjustments		\$ -	-	\$ -	-	\$ -
Sub-Total		\$ 31,374,953.57	15,526,337.08	\$ 2.0208	668,231.75	\$ 46.9522
Less: Fuel Burned		\$ 13,491,390.02	6,713,522.40	\$ 2.0096	289,253.00	\$ 46.6422
Ending Inventory	7/31/2021	\$ 17,883,563.55	8,812,814.68	\$ 2.0293	378,978.75	\$ 47.1888
<u>Trimble County High Sulfur</u>						
Beginning Inventory	6/30/2021	\$ 5,313,079.29	2,755,396.35	\$ 1.9282	118,442.32	\$ 44.8579
Add: Purchases		\$ 12,403,143.99	6,505,473.29	\$ 1.9066	275,760.39 (4)	\$ 44.9780
Adjustments		\$ (5,218,274.04) (2)	(2,740,331.58) (2)	\$ 1.9042	(115,945.50) (2)	\$ 45.0063
Sub-Total		\$ 12,497,949.24	6,520,538.06	\$ 1.9167	278,257.21	\$ 44.9151
Less: Fuel Burned-Jurisdictional		\$ 5,317,464.82	2,773,098.60	\$ 1.9175	118,818.08	\$ 44.7530
Fuel Burned-Non-Jurisdictional		\$ 1,924,297.39	1,003,524.22	\$ 1.9175	42,997.69	\$ 44.7535
Total Burn		\$ 7,241,762.21	3,776,622.82	\$ 1.9175	161,815.77	\$ 44.7531
Ending Inventory	7/31/2021	\$ 5,256,187.03	2,743,915.24	\$ 1.9156	116,441.44	\$ 45.1402
<u>Trimble County PRB</u>						
Beginning Inventory	6/30/2021	\$ 583,292.39	265,462.97	\$ 2.1973	14,843.76	\$ 39.2955
Add: Purchases		\$ -	-	\$ -	-	\$ -
Adjustments		\$ 459,883.83 (3)	201,559.81 (3)	\$ 2.2816	11,263.86 (3)	\$ 40.8283
Sub-Total		\$ 1,043,176.22	467,022.78	\$ 2.2337	26,107.62	\$ 39.9568
Less: Fuel Burned-Jurisdictional		\$ 320,436.02	144,732.53	\$ 2.2140	8,087.24	\$ 39.6224
Fuel Burned-Non-Jurisdictional		\$ 115,947.09	52,370.19	\$ 2.2140	2,926.29	\$ 39.6226
Total Burn		\$ 436,383.11	197,102.72	\$ 2.2140	11,013.53	\$ 39.6225
Ending Inventory	7/31/2021	\$ 606,793.11	269,920.06	\$ 2.2480	15,094.09	\$ 40.2007
<u>Coal In Transit</u>						
Coal In Transit	7/31/2021	\$ 3,546,608.31 (1)	1,882,065.77 (1)	\$ 1.8844	81,454.02 (1)	\$ 43.5412
Total Combined Inventory	7/31/2021	\$ 27,293,152.00	13,708,715.75	\$ 1.9909	591,968.31	\$ 46.1058

(1) Coal In Transit consists of coal purchased and owned by LG&E but has not arrived at the plants.

(2) Adjustment to transfer KU's portion of Trimble County 2 coal between LG&E and KU; barge costs and fleeting.

(3) Adjustment to transfer LG&E's portion of Trimble County 2 coal between LG&E and KU; as well as for barge costs, fleeting, solid fuel, demurrage transloading.

(4) Timing difference from month end close of accounting records while the Align system is real time and/or prior month adjustments.

Company: Louisville Gas and Electric Company

Plant: Trimble County

Month Ended: July 31, 2021

Fuel: Fuel Oil

<u>Trimble County</u>		<u>Amount</u>	<u>Gallons</u>	<u>Per Unit</u>
Beginning Inventory	6/30/2021	\$ 43,572.37	21,705.92	\$ 2.0074
Add: Purchases		\$ -	-	\$ -
Adjustments		<u>\$ -</u>	<u>-</u>	\$ -
Sub-Total		\$ 43,572.37	21,705.92	\$ 2.0074
Less: Fuel Burned-Jurisdictional		\$ -	-	\$ -
Fuel Burned-Non-Jurisdictional		<u>\$ -</u>	<u>-</u>	\$ -
Total Burn		\$ -	-	\$ -
Ending Inventory	7/31/2021	<u>\$ 43,572.37</u>	<u>21,705.92</u>	\$ 2.0074

Company: Louisville Gas and Electric Company

Plant: Mill Creek, Paddy's Run, Zorn, Cane Run, Trimble County, and E.W. Brown

Month Ended: July 31, 2021

Fuel: Natural Gas

Mill Creek, Paddy's Run, and Zorn

		Amount	Units (MCF)	Per Unit
Beginning Inventory	6/30/2021	\$ -	-	\$ -
Add: Purchases		\$ 540,525.72	80,041	\$ 6.7531
Paddy's Run Gas Fixed Gas Demand Charge		\$ 249,536.67	-	\$ -
Total Purchases		\$ 790,062.39	80,041	\$ 9.8707
Adjustments		\$ -	-	\$ -
Sub-Total		\$ 790,062.39	80,041	\$ 9.8707
Less: Fuel Burned LG&E Share		\$ 577,522.47	55,262	\$ 10.4506
Paddy's Run Purchases Allocated to KU		\$ 119,373.44	24,779	\$ 4.8175
Paddy's Run Fixed Gas Demand Charge Allocated to KU		\$ 93,166.48	-	\$ -
Total Burn		\$ 790,062.39	80,041	\$ 9.8707
Ending Inventory	7/31/2021	\$ -	-	\$ -

Cane Run 7

		Amount	Units (MCF)	Per Unit
Beginning Inventory	6/30/2021	\$ 242,479.80	81,660	\$ 2.9694
Add: Purchases		\$ 7,010,917.37	2,262,648	\$ 3.0985
Fixed Gas Demand Charge		\$ 840,127.22	-	\$ -
Total Purchases		\$ 7,851,044.59	2,262,648	\$ 3.4698
Adjustments		\$ 76,157.58 (1)	(20,097) (2)	\$ (3.7895)
Sub-Total		\$ 8,169,681.97	2,324,211	\$ 3.5150
Less: Fuel Burned LG&E Share		\$ 1,793,599.19	510,138	\$ 3.5159
Purchases Allocated to KU		\$ 5,703,824.87	1,808,671	\$ 3.1536
Fixed Gas Demand Charge Allocated to KU		\$ 655,299.23	-	\$ -
Total Burn		\$ 8,152,723.29	2,318,809	\$ 3.5159
Ending Inventory	7/31/2021	\$ 16,958.68	5,402	\$ 3.1393

Trimble County Start-up and Stabilization

		Amount	Units (MCF)	Per Unit
Beginning Inventory	6/30/2021	\$ -	-	\$ -
Add: Purchases		\$ 57,148.60	14,182	\$ 4.0297
Fixed Gas Demand Charge		\$ 163,700.32	-	\$ -
Total Purchases		\$ 220,848.92	14,182	\$ 15.5725
Adjustments		\$ -	-	\$ -
Sub-Total		\$ 220,848.92	14,182	\$ 15.5725
Less: Fuel Burned LG&E Share-Jurisdictional		\$ 90,647.91	7,506	\$ 12.0767
Fuel Burned Non-Jurisdictional		\$ 32,756.04 (3)	2,713 (3)	\$ 12.0737
Purchases Allocated to KU		\$ 15,969.53	3,963	\$ 4.0297
Fixed Gas Demand Charge Allocated to KU		\$ 81,475.44	-	\$ -
Total Burn		\$ 220,848.92	14,182	\$ 15.5725
Ending Inventory	7/31/2021	\$ -	-	\$ -

Trimble County CTs

		<u>Amount</u>	<u>Units (MCF)</u>	<u>Per Unit</u>
Beginning Inventory	6/30/2021	\$ 87,599.89	25,286	\$ 3.4644
Add: Purchases		\$ 2,879,073.97	722,969	\$ 3.9823
Fixed Gas Demand Charge		\$ 1,508,052.18	-	\$ -
Total Purchases		<u>\$ 4,387,126.15</u>	<u>722,969</u>	\$ 6.0682
Adjustments		<u>\$ 41,409.88 (1),(4)</u>	<u>(2,104) (2)</u>	\$ (19.6815)
Sub-Total		\$ 4,516,135.92	746,151	\$ 6.0526
Less: Fuel Burned LG&E Share		\$ 1,477,632.47	238,092	\$ 6.2061
Purchases Allocated to KU		\$ 1,971,310.77	488,977	\$ 4.0315
Fixed Gas Demand Charge Allocated to KU		\$ 990,287.60	-	\$ -
Purchases Allocated to Trimble Country Start-up and Stabilization		\$ 57,148.60	14,182	\$ 4.0297
Total Burn		<u>\$ 4,496,379.44</u>	<u>741,251</u>	\$ 6.0659
Ending Inventory	7/31/2021	\$ 19,756.48	4,900	\$ 4.0319

Brown CTs

		<u>Amount</u>	<u>Units (MCF)</u>	<u>Per Unit</u>
Beginning Inventory	6/30/2021	\$ -	-	\$ -
Add: Purchases Allocated from KU		\$ 465,825.01	89,935	\$ 5.1796
Adjustments		<u>\$ -</u>	<u>-</u>	\$ -
Sub-Total		\$ 465,825.01	89,935	\$ 5.1796
Less: Fuel Burned		<u>\$ 465,825.01</u>	<u>89,935</u>	\$ 5.1796
Ending Inventory	7/31/2021	\$ -	-	\$ -
Total Combined Inventory		<u><u>\$ 36,715.16</u></u>	<u><u>10,302</u></u>	\$ 3.5639

(1) Includes depreciation addition, current month prepaid gas accrual, and/or third-party gas scoping cost accrual. Offset by reversal of prior month gas and scoping cost accrual.

(2) Includes current month prepaid gas accrual. Offset by reversal of prior month gas accrual and pipeline inventory loss adjustments.

(3) Represents the partnership allocation for start-up and stabilization gas.

(4) Prior Month Start-Up/Stabilization Adjustment



Louisville Gas and Electric Company

Power Transaction Schedule

Company	Type of Transaction	KWH	Billing Components			Total Charges(\$)	
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)		
Purchases							
EAST KENTUCKY POWER COOPERATIVE	EKPC	Economy	9,000	\$ -	\$ 243.48	\$ -	\$ 243.48
ENERGY IMBALANCE	IMBL	Economy	530,000	\$ -	\$ 14,041.75	\$ -	\$ 14,041.75
PJM INTERCONNECTION ASSOCIATION	PJM	Economy	1,250,000	\$ -	\$ 62,623.23	\$ -	\$ 62,623.23
TENNESSEE VALLEY AUTHORITY	TVA	Economy	16,000	\$ -	\$ 1,608.91	\$ -	\$ 1,608.91
LQF TARIFF PURCHASE POWER	LQF TARIFF	LQF TARIFF	77,480	\$ -	\$ 1,627.43	\$ -	\$ 1,627.43
GREEN TARIFF BUSINESS SOLAR PURCHASE POWER	GTBS	GTBS	-	\$ -	\$ 2.69	\$ -	\$ 2.69
SOLAR SHARE PROGRAM	SSP	SSP	-	\$ -	\$ 920.22	\$ -	\$ 920.22
SQF TARIFF PURCHASE POWER	SQF TARIFF	SQF Tariff	1,280	\$ -	\$ 28.77	\$ -	\$ 28.77
KENTUCKY UTILITIES COMPANY	KU	Economy	175,456,000	\$ -	\$ 3,620,156.79	\$ 77.34	\$ 3,620,234.13
OHIO VALLEY ELECTRIC CORPORATION	OVEC	Economy	51,769,000	\$ 1,835,541.51	\$ 1,328,213.33	\$ -	\$ 3,163,754.84
Total Purchases			<u>229,108,760</u>	<u>\$ 1,835,541.51</u>	<u>\$ 5,029,466.60</u>	<u>\$ 77.34</u>	<u>\$ 6,865,085.45</u>
Sales							
DYNASTY POWER, INC.	DYNASTYPWR	Economy	25,000		\$ 594.74	\$ 815.88	\$ 1,410.62
INDIANA MUNICIPAL POWER AGENCY	IMPA	Economy	15,000		\$ 357.85	\$ 490.90	\$ 848.75
ENERGY IMBALANCE	IMBL	Economy	43,000		\$ 658.77	\$ 780.71	\$ 1,439.48
MACQUARIECOOK	MACQUARIE	Economy	132,000		\$ 2,984.17	\$ 4,093.69	\$ 7,077.86
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy	1,575,000		\$ 31,014.26	\$ 47,273.22	\$ 78,287.48
PJM INTERCONNECTION ASSOCIATION	PJM	Economy	775,000		\$ 15,666.65	\$ 21,491.74	\$ 37,158.39
RAINBOW ENERGY MARKETING CORP	REMC	Economy	6,000		\$ 99.57	\$ 149.31	\$ 248.88
THE ENERGY AUTHORITY	TEA	Economy	10,000		\$ 185.45	\$ 278.10	\$ 463.55
TENNESSEE VALLEY AUTHORITY	TVA	Economy	877,000		\$ 22,190.42	\$ 30,441.10	\$ 52,631.52
KENTUCKY UTILITIES COMPANY	KU	Economy	37,662,000		\$ 823,417.71	\$ 26,409.86	\$ 849,827.57
Total Sales			<u>41,120,000</u>	<u>\$ -</u>	<u>\$ 897,169.59</u>	<u>\$ 132,224.51</u>	<u>\$ 1,029,394.10</u>



Detailed Power Transaction Schedule
Month Ended: July-31-2021

Counter Party	KWH	Native Load			Forced Outages			
		Energy Cost (\$)	KWH	\$/MWH	Energy Cost (\$)	KWH	\$/MWH	
Purchases								
EAST KENTUCKY POWER COOPERATIVE	EKPC	9,000	\$ 210.44	8,000	\$ 26.31	\$ -	-	\$ -
ENERGY IMBALANCE	IMBL	530,000	\$ 11,948.24	456,000	\$ 26.20	\$ 973.83	38,000	\$ 25.63
PJM INTERCONNECTION ASSOCIATION	PJM	1,250,000	\$ 0.01	-	\$ -	\$ 62,623.32	1,250,000	\$ 50.10
TENNESSEE VALLEY AUTHORITY	TVA	16,000	\$ 600.00	6,000	\$ 100.00	\$ -	-	\$ -
LQF TARIFF PURCHASE POWER	LQF TARIFF	77,480	\$ 1,627.43	77,480	\$ 21.00	\$ -	-	\$ -
GREEN TARIFF BUSINESS SOLAR PURCHASE POWER	GTBS	-	\$ 2.69	-	\$ -	\$ -	-	\$ -
SOLAR SHARE PROGRAM	SSP	-	\$ 920.22	-	\$ -	\$ -	-	\$ -
SQF TARIFF PURCHASE POWER	SQF TARIFF	1,280	\$ 28.77	1,280	\$ 22.48	\$ -	-	\$ -
KENTUCKY UTILITIES COMPANY	KU	175,456,000	\$ 3,618,563.28	175,375,000	\$ 20.63	\$ -	-	\$ -
OHIO VALLEY ELECTRIC CORPORATION	OVEC	51,769,000	\$ 1,298,448.43	51,769,000	\$ 25.08	\$ -	-	\$ -
Total Purchases		229,108,760	\$ 4,932,349.51	227,692,760	\$ 21.66	\$ 63,597.15	1,288,000	\$ 49.38

* 124 kWh related to Green Tariff Business Solar Purchase Power are included in generation for FAC purposes
* 42,352 kWh related to the Solar Share Program are included in generation for FAC purposes

Sales								
DYNASTY POWER, INC.	DYNASTYPWR	25,000						
INDIANA MUNICIPAL POWER AGENCY	IMPA	15,000						
ENERGY IMBALANCE	IMBL	43,000						
MACQUARIECOOK	MACQUARIE	132,000						
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	1,575,000						
PJM INTERCONNECTION ASSOCIATION	PJM	775,000						
RAINBOW ENERGY MARKETING CORP	REMC	6,000						
THE ENERGY AUTHORITY	TEA	10,000						
TENNESSEE VALLEY AUTHORITY	TVA	877,000						
KENTUCKY UTILITIES COMPANY	KU	37,662,000						
Total Sales		41,120,000	\$ -	-	\$ -	\$ -	-	\$ -



Detailed Power Transaction Schedule
Month Ended: July-31-2021

Counter Party	KWH	Energy Cost (\$)	OSS Purchases		Adj. From Prior Month (\$)	Total Energy * Charges (\$)	Demand(\$)	Other Charges(\$)	Total Charges(\$)
			KWH	\$/MWH					
Purchases									
EAST KENTUCKY POWER COOPERATIVE	9,000	\$ 33.04	1,000	\$ 33.04	\$ -	\$ 243.48	\$ -	\$ -	\$ 243.48
ENERGY IMBALANCE	530,000	\$ 1,119.68	36,000	\$ 31.10	\$ -	\$ 14,041.75	\$ -	\$ -	\$ 14,041.75
PJM INTERCONNECTION ASSOCIATION	1,250,000	\$ (0.10)	-	\$ -	\$ -	\$ 62,623.23	\$ -	\$ -	\$ 62,623.23
TENNESSEE VALLEY AUTHORITY	16,000	\$ 1,008.91	10,000	\$ 100.89	\$ -	\$ 1,608.91	\$ -	\$ 0.00	\$ 1,608.91
LQF TARIFF PURCHASE POWER	77,480	\$ -	-	\$ -	\$ -	\$ 1,627.43	\$ -	\$ -	\$ 1,627.43
GREEN TARIFF BUSINESS SOLAR PURCHASE POWER	-	\$ -	-	\$ -	\$ -	\$ 2.69	\$ -	\$ -	\$ 2.69
SOLAR SHARE PROGRAM	-	\$ -	-	\$ -	\$ -	\$ 920.22	\$ -	\$ -	\$ 920.22
SQF TARIFF PURCHASE POWER	1,280	\$ -	-	\$ -	\$ -	\$ 28.77	\$ -	\$ -	\$ 28.77
KENTUCKY UTILITIES COMPANY	175,456,000	\$ 1,593.51	81,000	\$ 19.67	\$ -	\$ 3,620,156.79	\$ -	\$ 77.34	\$ 3,620,234.13
OHIO VALLEY ELECTRIC CORPORATION	51,769,000	\$ -	-	\$ -	\$ 29,764.90	\$ 1,328,213.33	\$ 1,835,541.51	\$ -	\$ 3,163,754.84
Total Purchases	229,108,760	\$ 3,755.04	128,000	\$ 29.34	\$ 29,764.90	\$ 5,029,466.60	\$ 1,835,541.51	\$ 77.34	\$ 6,865,085.45

* 124 kWh related to Green Tariff Business Solar Purchase Power are included in generation for FAC purposes
* 42,352 kWh related to the Solar Share Program are included in generation for FAC purposes

Counter Party	KWH	Energy Cost (\$)	OSS Purchases		Adj. From Prior Month (\$)	Total Energy * Charges (\$)	Demand(\$)	Other Charges(\$)	Total Charges(\$)
			KWH	\$/MWH					
Sales									
DYNASTY POWER, INC.	25,000	\$ 30.40	1,000	\$ 30.40	\$ -	\$ 594.74	\$ -	\$ 815.88	\$ 1,410.62
INDIANA MUNICIPAL POWER AGENCY	15,000	\$ 18.29	1,000	\$ 18.29	\$ -	\$ 357.85	\$ -	\$ 490.90	\$ 848.75
ENERGY IMBALANCE	43,000	\$ 33.67	2,000	\$ 16.84	\$ -	\$ 658.77	\$ -	\$ 780.71	\$ 1,439.48
MACQUARIECOOK	132,000	\$ 152.53	5,000	\$ 30.51	\$ -	\$ 2,984.17	\$ -	\$ 4,093.69	\$ 7,077.86
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	1,575,000	\$ 1,585.20	58,000	\$ 27.33	\$ -	\$ 31,014.26	\$ -	\$ 47,273.22	\$ 78,287.48
PJM INTERCONNECTION ASSOCIATION	775,000	\$ 800.75	29,000	\$ 27.61	\$ -	\$ 15,666.65	\$ -	\$ 21,491.74	\$ 37,158.39
RAINBOW ENERGY MARKETING CORP	6,000	\$ -	-	\$ -	\$ -	\$ 99.57	\$ -	\$ 149.31	\$ 248.88
THE ENERGY AUTHORITY	10,000	\$ -	-	\$ -	\$ -	\$ 185.45	\$ -	\$ 278.10	\$ 463.55
TENNESSEE VALLEY AUTHORITY	877,000	\$ 1,134.20	32,000	\$ 35.44	\$ -	\$ 22,190.42	\$ -	\$ 30,441.10	\$ 52,631.52
KENTUCKY UTILITIES COMPANY	37,662,000	\$ -	-	\$ -	\$ (0.00)	\$ 823,417.71	\$ -	\$ 26,409.86	\$ 849,827.57
Total Sales	41,120,000	\$ 3,755.04	128,000	\$ 29.34	\$ (0.00)	\$ 897,169.59	\$ -	\$ 132,224.51	\$ 1,029,394.10

	KWH	\$/MWH
GENERATION FOR OSS	3,330,000	\$ 69,996.84
GENERATION FOR INTERNAL ECONOMY TO KU	651,000	\$ 12,459.44
GENERATION FOR INTERNAL REPLACEMENT TO KU	37,011,000	\$ 810,835.54
SPLIT SAVINGS	-	\$ 122.73
SALES FROM INTERNAL GENERATION	40,992,000	\$ 893,414.55
SALES FROM OSS PURCHASES	128,000	\$ 3,755.04
	41,120,000	\$ 897,169.59
ADJUSTMENTS FROM PRIOR MONTHS	-	\$ (0.00)
	41,120,000	\$ 897,169.59

**Louisville Gas & Electric
Analysis Of Coal Purchased for Fuel Clause Backup
Jul - 2021**

Station & Supplier	PBDU	POCN	MT	Mine Type	State code	Tons Purchased	BTU Per Lb.	No. MMBTU Per Ton	F.O.B. Mine		Transportation Cost		Delivered Cost				
									\$ Per Ton	¢ Per MMBTU	\$ Per Ton	¢ Per MMBTU	\$ Per Ton	¢ Per MMBTU	% Sulfur	% Ash	% H2O
(a)	(b)	(c)	(d)			(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
Mill Creek																	
Mill Creek High Sulfur Coal																	
Long Term Contract																	
ACNR Coal Sales Inc	P	J21002	R	U	WKY	86,322.53	11,742	23.485	42.67	181.68	6.11	26.02	48.78	207.70	2.79	9.32	10.29
ACNR Coal Sales Inc	P	J17004B	B	U	IL	32,305.74	11,903	23.807	44.50	186.92	3.74	15.71	48.24	202.63	2.69	8.30	9.92
Alliance Coal LLC	P	J18009	B	U	WKY	12,700.54	11,603	23.206	39.23	169.04	3.37	14.53	42.60	183.57	2.92	9.13	11.15
Alliance Coal LLC	P	J21003	R	U	WKY	86,461.20	11,610	23.220	41.34	178.04	6.10	26.27	47.44	204.31	3.27	12.66	8.56
Alliance Coal LLC	P	J21010	B	U	WKY	3,190.19	11,614	23.229	38.64	166.33	3.37	14.51	42.01	180.84	2.87	9.02	11.07
Foresight Coal Sales LLC	P	J21011	B	U	IL	4,865.30	12,070	24.140	32.83	136.02	3.74	15.49	36.57	151.51	2.78	8.41	8.82
Knight Hawk Coal LLC	P	J21001	B	U	IL	4,814.82	11,129	22.259	37.14	166.84	7.17	32.22	44.31	199.06	3.05	9.58	12.19
Knight Hawk Coal LLC	P	J21022	B	U	IL	14,434.02	11,317	22.634	33.65	148.66	7.95	35.13	41.60	183.79	2.98	8.17	12.65
Total Long Term						245,094.34	11,677	23.355	41.38	177.16	5.69	24.40	47.07	201.56	2.97	10.27	9.83
Spot Contract																	
Coal Network LLC	B	J20024	B	U	WKY	4,754.60	11,376	22.753	25.88	113.76	2.72	11.94	28.60	125.70	2.82	8.92	12.48
Total Spot						4,754.60	11,376	22.753	25.88	113.76	2.72	11.94	28.60	125.70	2.82	8.92	12.48
Total Mill Creek						249,848.94	11,672	23.343	41.08	175.98	5.64	24.17	46.72	200.15	2.97	10.24	9.88

(b) Designated by symbol
P= Producer D= Distributor
B= Broker U-Utility

(c) POCN = Purchase Order
or Contract Number

(d) MT = Mode of Transportation
Designated by Symbol

R = Rail T = Truck B = Barge P = Pipeline

**Louisville Gas & Electric
Analysis Of Coal Purchased for Fuel Clause Backup
Jul - 2021**

Station & Supplier	PBDU	POCN	MT	Mine Type	State code	Tons Purchased	BTU Per Lb.	No. MMBTU Per Ton	F.O.B. Mine		Transportation Cost		Delivered Cost			% Sulfur	% Ash	% H2O
									\$ Per Ton	¢ Per MMBTU	\$ Per Ton	¢ Per MMBTU	\$ Per Ton	¢ Per MMBTU				
(a)	(b)	(c)	(d)			(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
Trimble County																		
Trimble County High Sulfur Coal																		
Long Term Contract																		
ACNR Coal Sales Inc	P	J17004B	B	U	IL	55,038.08	11,966	23.932	44.47	185.81	4.05	16.94	48.52	202.75	2.73	8.45	9.30	
Alliance Coal LLC	P	J18009	B	U	WKY	14,479.01	11,567	23.134	39.17	169.33	4.07	17.58	43.24	186.91	2.88	8.89	11.50	
Alliance Coal LLC	P	J21004	B	U	WKY	65,387.53	11,600	23.199	39.65	170.90	3.95	17.05	43.60	187.95	2.90	9.01	11.35	
Alliance Coal LLC	P	J21004	B	U	WV	41,457.30	12,669	25.337	41.73	164.68	6.23	24.59	47.96	189.27	3.35	8.30	6.60	
Alliance Coal LLC	P	J21010	B	U	WKY	31,960.90	11,596	23.192	38.72	166.97	4.01	17.29	42.73	184.26	2.88	8.96	11.32	
Foresight Coal Sales LLC	P	J21011	B	U	IL	16,035.88	11,964	23.928	32.83	137.22	4.11	17.18	36.94	154.40	2.73	8.33	9.43	
Knight Hawk Coal LLC	P	J21001	B	U	IL	24,210.34	11,215	22.431	37.36	166.53	8.10	36.12	45.46	202.65	3.06	9.15	12.30	
Knight Hawk Coal LLC	P	J21022	B	U	IL	12,887.13	11,314	22.628	33.54	148.22	8.01	35.39	41.55	183.61	3.02	8.39	12.41	
Western Kentucky Minerals Inc.	P	J20006	B	S	WKY	4,763.70	11,002	22.004	41.37	188.01	3.07	13.93	44.44	201.94	2.78	10.30	13.26	
Total Long Term						266,219.87	11,802	23.604	39.95	169.24	4.91	20.79	44.86	190.03	2.94	8.74	10.25	
Spot Contract																		
Alliance Coal LLC	P	J21027	B	U	WKY	9,724.81	11,611	23.222	36.64	157.77	4.11	17.69	40.75	175.46	2.86	8.87	11.38	
Total Spot						9,724.81	11,611	23.222	36.64	157.77	4.11	17.69	40.75	175.46	2.86	8.87	11.38	
Total Trimble County						275,944.68	11,795	23.591	39.83	168.84	4.88	20.69	44.71	189.53	2.94	8.74	10.29	
Total Louisville Gas & Electric						525,793.62	11,737	23.473	40.42	172.22	5.25	22.33	45.67	194.55	2.95	9.45	10.09	

(b) Designated by symbol
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Designated by Symbol

R = Rail T = Truck B = Barge P = Pipeline

**LOUISVILLE GAS AND ELECTRIC COMPANY
ANALYSIS OF OTHER FUEL PURCHASES
Month Ended: July 31, 2021**

<u>Fuel & Supplier</u> (a)	<u>P</u> <u>B</u> <u>D</u> <u>U</u> (b)	<u>P</u> <u>O</u> <u>C</u> <u>N</u> (c)	<u>M</u> <u>T</u> (d)	<u>Station</u> <u>Name</u> (e)	<u>Gal. or</u> <u>MCF</u> <u>Purchased</u> (f)	<u>BTU Per</u> <u>Unit</u> (g)	<u>Delivered</u> <u>Cost (\$)</u> (h)	<u>Cents</u> <u>Per</u> <u>MMBtu</u> (i)	<u>%</u> <u>Sulfur</u> (j)
<u>Oil</u>									
There were no oil purchases during the current month.									
<u>Natural Gas</u>									
LG&E	U	-	P	Cane Run	453,977 (1)	1.065	1,491,920.49	308.58	-
LG&E	U	-	P	Mill Creek	26,100	1.065	280,663.66	1,009.71	-
LG&E	U	-	P	Paddy's Run	29,162 (1)	1.065	296,858.81	955.82	-
LG&E	U	-	P	Zorn	-	0.000	-	-	-
Kentucky Utilities	U	-	P	EW Brown CTs	89,935	1.025	465,825.01	505.33	-
LG&E	U	-	P	Trimble County	230,029 (1)	1.065	1,491,783.13	608.94	-
Total Natural Gas					<u>829,203</u>	<u>1.061</u>	<u>4,027,051.10</u>	<u>457.88</u>	

(b) Designated by Symbol
P = Producer
B = Broker
D = Distributor
U = Utility

(c) POCN = Purchase Order or
Contract Number

(d) MT = Mode of Transportation
Designated by Symbol
R = Rail
B = Barge
T = Truck
P = Pipeline

(j) % of Sulfur in fuel
is unavailable

(1): Amount excludes purchases allocated to KU.

Company Name: Louisville Gas and Electric Company

Station Name - Unit Number: Mill Creek

Month Ended: July 31, 2021

Line No.	Item Description	Unit # 1	Unit # 2	Unit # 3	Unit # 4	Total Station
1.	Unit Performance:					
	a. Capacity (name plate rating) (MW)	356	356	463	544	
	b. Capacity (average load) (2c/3a) (MW)	224.72	206.07	326.93	378.29	
	c. Net Demonstrated Capability (MW)	300	297	391	477	
	d. Net Capability Factor (1b/1c) (%)	75%	69%	84%	79%	
2.	Heat Rate:					
	a. BTU Consumed (MMBTU)	488,677	1,185,218	2,264,680	2,802,744	
	b. Gross Generation (MWH)	51,947	124,399	238,535	299,442	
	c. Net Generation (MWH)	41,640	111,052	219,108	276,757	
	d. Heat Rate (2a/2c) (BTU/KWH)	11,736	10,673	10,336	10,127	
3.	Operation Availability:					
	a. Hours Unit Operated	185	539	670	732	
	b. Hours Available	732	731	670	732	
	c. Hours During the Period	744	744	744	744	
	d. Availability Factor (3b/3c) (%)	98%	98%	90%	98%	
4.	Cost per KWH:					
	a. Gross Generation - FAC Basis (cents/KWH)	2.091	1.957	1.922	1.892	
	b. Net Generation - FAC Basis (cents/KWH)	2.608	2.192	2.093	2.047	
5.	Inventory Analysis:					
	a. Number of Days Supply based on actual burn at the station (1)					43

(1) Coal Pile not kept on unit basis; therefore, this figure represents actual station coal inventory at the end of the month.

Company Name: Louisville Gas and Electric Company

Station Name - Unit Number: Trimble County

Month Ended: July 31, 2021

Line No.	Item Description	Unit # 1	Unit # 2	Total Station
1.	Unit Performance:			
	a. Capacity (name plate rating) (MW)	566	838	
	b. Capacity (average load) (2c/3a) (MW)	443.82	656.08	
	c. Net Demonstrated Capability (MW)	493	732	
	d. Net Capability Factor (1b/1c) (%)	90%	90%	
2.	Heat Rate:			
	a. BTU Consumed (MMBTU)	3,141,237	4,438,798	
	b. Gross Generation (MWH)	326,299	523,825	
	c. Net Generation (MWH)	297,255	488,121	
	d. Heat Rate (2a/2c) (BTU/KWH)	10,567	9,094	
3.	Operation Availability:			
	a. Hours Unit Operated	670	744	
	b. Hours Available	670	744	
	c. Hours During the Period	744	744	
	d. Availability Factor (3b/3c) (%)	90%	100%	
4.	Cost per KWH:			
	a. Gross Generation - FAC Basis (cents/KWH)	1.871	1.704	
	b. Net Generation - FAC Basis (cents/KWH)	2.054	1.828	
5.	Inventory Analysis:			
	a. Number of Days Supply based on actual burn at the station (1)			33

The information on this page represents 100% of Trimble County operating data. Trimble County 2 is jointly owned by Louisville Gas and Electric Company and Kentucky Utilities Company.

(1) Coal Pile not kept on unit basis; therefore, this figure represents actual station coal inventory.

Company Name: Louisville Gas and Electric Company

Station Name - Unit Number: Combustion Turbines

Month Ended: July 31, 2021

Line No.	Item Description	Paddy's Run GT-11	Paddy's Run GT-12	Paddy's Run GT-13	Zorn	Trimble County 5	Trimble County 6	Trimble County 7	Trimble County 8	Trimble County 9	Trimble County 10
1.	Unit Performance:										
	a. Capacity (name plate rating) (MW)	16	33	178	18	199	199	199	199	199	199
	b. Capacity (average load) (2c/3a) (MW)	-	7.75	109.89	-	103.65	109.82	105.80	99.89	106.20	106.27
	c. Net Demonstrated Capability (MW)	12	23	147	14	159	159	159	159	159	159
	d. Net Capability Factor (1b/1c) (%)	-	34%	75%	-	65%	69%	67%	63%	67%	67%
2.	Heat Rate:										
	a. BTU Consumed (MMBTU)	-	1,300	56,147	-	248,850	162,820	191,622	34,422	113,953	22,662
	b. Gross Generation (MWH)	-	55	4,912	-	20,651	13,822	16,124	2,824	10,085	1,961
	c. Net Generation (MWH)	(3) (1)	31	4,912	(4) (1)	20,347	13,618	15,743	2,757	9,675	1,881
	d. Heat Rate (2a/2c) (BTU/KWH)	-	41,935	11,431	-	12,230	11,956	12,172	12,485	11,778	12,048
3.	Operation Availability:										
	a. Hours Unit Operated	-	4	45	-	196	124	149	28	91	18
	b. Hours Available	-	588	744	-	738	744	740	744	738	744
	c. Hours During the Period	744	744	744	744	744	744	744	744	744	744
	d. Availability Factor (3b/3c) (%)	-	79%	100%	-	99%	100%	99%	100%	99%	100%
4.	Cost per KWH:										
	a. Gross Generation - FAC Basis (cents/KWH)	-	103.977	9.206	-	5.779	6.278	6.058	13.514	6.770	17.192
	b. Net Generation - FAC Basis (cents/KWH)	-	184.476	9.206	-	5.865	6.372	6.204	13.843	7.056	17.923
5.	Inventory Analysis:										
	a. Number of Days Supply based on actual burn at the station					Not Applicable					

Trimble County 5, 6, 7, 8, 9 and 10 and Paddy's Run GT-13 are jointly owned by Louisville Gas and Electric Company and Kentucky Utilities. The information reported above is on a 100% basis.

(1) Negative net generation due to station usage.

Company Name: Louisville Gas and Electric Company

Station Name - Unit Number: Cane Run NGCC

Month Ended: July 31, 2021

Line No.	Item Description	Unit # 7	Total Station
1.	Unit Performance:		
	a. Capacity (name plate rating) (MW)	808	
	b. Capacity (average load) (2c/3a) (MW)	464.34	
	c. Net Demonstrated Capability (MW)	662	
	d. Net Capability Factor (1b/1c) (%)	70%	
2.	Heat Rate:		
	a. BTU Consumed (MMBTU)	2,469,532	
	b. Gross Generation (MWH)	355,389	
	c. Net Generation (MWH)	345,471	
	d. Heat Rate (2a/2c) (BTU/KWH)	7,148	
3.	Operation Availability:		
	a. Hours Unit Operated	744	
	b. Hours Available	744	
	c. Hours During the Period	744	
	d. Availability Factor (3b/3c) (%)	100%	
4.	Cost per KWH:		
	a. Gross Generation - FAC Basis (cents/KWH)	2.294	
	b. Net Generation - FAC Basis (cents/KWH)	2.360	
5.	Inventory Analysis:		
	a. Number of Days Supply based on actual burn at the station		Not Applicable

The information on this page represents 100% of Cane Run NGCC operating data. Cane Run NGCC is jointly owned by Louisville Gas and Electric Company and Kentucky Utilities Company.

Adjustments for Purchases Above KU/LGE Highest Priced Units (JULY 2021)

Cost Components of Highest Priced Units:

UNIT NAME	(1) FULL LOAD HR <small>(BTU/KWH)</small>	(2) FUEL COST <small>(¢/MBTU)</small>	(3) CONSUMABLES <small>(\$/MWH)</small>	(4) SO2 ADDER <small>(\$/MWH)</small>	(5) SCR CONSUME <small>(\$/MWH)</small>	(6) NOx ADDER <small>(\$/MWH)</small>	(7) Hg CONSUME <small>(\$/MWH)</small>	(8) DISPATCH COST <small>(\$/MWH)</small>	(6)=(3)+(4)+(5) Maint V O&M <small>(\$/MWH)</small>	(7) TOTAL PRICE <small>(\$/MWH)</small>	(8)=(6)+(7)
PADDYS RUN 12	17,692	350.00	61.92	0.00	0.00		1.37		63.30	N/A	N/A
HAEFLING	17,765	643.00	114.23	0.00	0.00		1.38		115.61	N/A	N/A

LGE Purchases Above LGE's Highest Priced Unit (PADDYS RUN 12):

	Purchase From	Cost \$	MWh Purch	Cost \$/MWh	Excluded Amount Prior to FO Calculation \$/MWh	Excluded in FO Calculation? \$	Additional Exclusion For FAC \$	PADDYS RUN 12 Available ?		
1	7/27/21 HE17	TVA	\$ 600.00	6	\$ 100.00	\$ 38.08	\$ 228.47	\$0.00	\$ 228.47	Yes
2								Yes	\$ -	Yes
3								Yes	\$ -	Yes
4								Yes	\$ -	Yes
5								Yes	\$ -	Yes
6								Yes	\$ -	Yes
7								Yes	\$ -	Yes
8								Yes	\$ -	Yes
9								Yes	\$ -	Yes
10								Yes	\$ -	Yes
11								Yes	\$ -	Yes
12								Yes	\$ -	Yes
13								Yes	\$ -	Yes
14								Yes	\$ -	Yes
15								Yes	\$ -	Yes
16								Yes	\$ -	Yes
17								Yes	\$ -	Yes
18								Yes	\$ -	Yes
19								Yes	\$ -	Yes
20								Yes	\$ -	Yes
21								Yes	\$ -	Yes
22								Yes	\$ -	Yes
23								Yes	\$ -	Yes
24								Yes	\$ -	Yes
25								Yes	\$ -	Yes
LG&E Total						\$ 228.47	\$0.00	\$ 228.47		

KU Purchases Above KU's Highest Priced Unit (HAEFLING):

	Purchase From	Cost \$	MWh Purch	Cost \$/MWh	Excluded Amount \$/MWh	Excluded in FO Calculation? \$	Additional Exclusion For FAC \$	HAEFLING Available ?		
1								Yes	\$ -	Yes
2								Yes	\$ -	Yes
3								Yes	\$ -	Yes
4								Yes	\$ -	Yes
5								Yes	\$ -	Yes
6								Yes	\$ -	Yes
7								Yes	\$ -	Yes
8								Yes	\$ -	Yes
9								Yes	\$ -	Yes
10								Yes	\$ -	Yes
11								Yes	\$ -	Yes
12								Yes	\$ -	Yes
13								Yes	\$ -	Yes
14								Yes	\$ -	Yes
15								Yes	\$ -	Yes
16								Yes	\$ -	Yes
17								Yes	\$ -	Yes
18								Yes	\$ -	Yes
19								Yes	\$ -	Yes
20								Yes	\$ -	Yes
21								Yes	\$ -	Yes
22								Yes	\$ -	Yes
23								Yes	\$ -	Yes
24								Yes	\$ -	Yes
25								Yes	\$ -	Yes
KU Total						\$ -	\$0.00	\$ -		

OFF-SYSTEM SALES - ELECTRIC

Electric Off-System Sales	LG&E	KU (Consolidated)
	MTD Current Year July-21	MTD Current Year July-21
Revenue		
External Sales	\$ 179,565	\$ 3,186,499
Internal Sales	\$ 837,245	\$ 1,671
Total	\$ 1,016,810	\$ 3,188,170
External Expenses		
Fuel	\$ (69,997)	\$ (847,459)
Purchase Power	\$ (2,912)	\$ (45,510)
ECR Consumables	\$ -	\$ -
Other Consumables	\$ (2,769)	\$ (19,012)
Transmission	\$ (51)	\$ (932)
RTO Costs	\$ (572)	\$ (10,234)
Inter-System Losses	\$ (369)	\$ (8,515)
Internal Expenses		
Fuel	\$ (810,836)	\$ (1,594)
Purchase Power	\$ (1,671)	\$ (837,245)
Other Consumables	\$ (26,410)	\$ (77)
Transmission	\$ (22,953)	\$ (475,274)
Total	\$ (938,539)	\$ (2,245,853)
Electric Off-System Sales Margin	\$ 78,271	\$ 942,317
OSS Margin - Jurisdictional	\$ 58,704	\$ 667,743
OSS Margin - Non-Jurisdictional	\$ -	\$ 38,995
OSS Margin - Utility Share	\$ 19,568	\$ 235,579

SEEM Formation and Participation Costs

Expense Month: July 2021

<u>Item Description</u>	<u>LG&E</u>	<u>KU</u>
Administrative and legal expenses associated with the FERC proceeding	\$ 56,805	\$ 61,538
Costs of SEEM formation and participation	<u>\$ 9,561</u>	<u>\$ 12,697</u>
Total Costs	\$ 66,366	\$ 74,236

Note: The July 2021 expense month filing includes the cumulative costs incurred to date. Beginning with the August 2021 expense month filing, only current costs incurred during the applicable expense month will be included.