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JAN 14 2022

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

January 14, 2022

Andrea M. Fackler
Manager, Revenue
Requirement/Cost of Service
T 502-627-3442
F 502-627-3213
andrea.fackler@lge-ku.com

Dear Ms. Bridwell:

Enclosed are completed forms for Louisville Gas and Electric Company showing fuel inventories, power transactions, fuel purchases, and SEEM activities for the month of November 2021.

Sincerely,

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

Andrea M. Fackler

Enclosures

Company: Louisville Gas and Electric Company

Plant: Mill Creek and Trimble County

Month Ended: November 30, 2021

Fuel: Coal

		Amount	MMBTU	Per Unit	Tons	Per Unit
<u>Mill Creek High Sulfur</u>						
Beginning Inventory	10/31/2021	\$ 18,384,722.31	9,180,649.06	\$ 2.0026	396,798.23	\$ 46.3327
Add: Purchases		\$ 10,839,633.26	5,220,162.46	\$ 2.0765	224,894.77	\$ 48.1987
Adjustments		\$ -	-	\$ -	-	\$ -
Sub-Total		\$ 29,224,355.57	14,400,811.52	\$ 2.0294	621,693.00	\$ 47.0077
Less: Fuel Burned		\$ 12,178,626.55	6,056,888.48	\$ 2.0107	261,755.00	\$ 46.5268
Ending Inventory	11/30/2021	\$ 17,045,729.02	8,343,923.04	\$ 2.0429	359,938.00	\$ 47.3574
<u>Trimble County High Sulfur</u>						
Beginning Inventory	10/31/2021	\$ 6,997,052.61	3,480,846.79	\$ 2.0102	150,059.95	\$ 46.6284
Add: Purchases		\$ 11,904,090.89	6,145,291.98	\$ 1.9371	263,597.98 (4)	\$ 45.1600
Adjustments		\$ (5,622,109.54) (2)	(2,903,889.10) (2)	\$ 1.9361	(124,548.99) (2)	\$ 45.1397
Sub-Total		\$ 13,279,033.96	6,722,249.67	\$ 1.9754	289,108.94	\$ 45.9309
Less: Fuel Burned-Jurisdictional		\$ 4,716,816.94	2,383,295.08	\$ 1.9791	102,595.11	\$ 45.9751
Fuel Burned-Non-Jurisdictional		\$ 1,662,354.62	839,943.82	\$ 1.9791	36,157.56	\$ 45.9753
Total Burn		\$ 6,379,171.56	3,223,238.90	\$ 1.9791	138,752.67	\$ 45.9751
Ending Inventory	11/30/2021	\$ 6,899,862.40	3,499,010.77	\$ 1.9719	150,356.27	\$ 45.8901
<u>Trimble County PRB</u>						
Beginning Inventory	10/31/2021	\$ 566,687.28	234,494.65	\$ 2.4166	13,218.57	\$ 42.8705
Add: Purchases		\$ -	-	\$ -	-	\$ -
Adjustments		\$ 590,954.31 (3)	248,275.31 (3)	\$ 2.3802	13,976.56 (3)	\$ 42.2818
Sub-Total		\$ 1,157,641.59	482,769.96	\$ 2.3979	27,195.13	\$ 42.5680
Less: Fuel Burned-Jurisdictional		\$ 365,761.18	152,335.32	\$ 2.4010	8,591.45	\$ 42.5727
Fuel Burned-Non-Jurisdictional		\$ 128,917.88	53,693.05	\$ 2.4010	3,028.19	\$ 42.5726
Total Burn		\$ 494,679.06	206,028.37	\$ 2.4010	11,619.64	\$ 42.5727
Ending Inventory	11/30/2021	\$ 662,962.53	276,741.59	\$ 2.3956	15,575.49	\$ 42.5645
<u>Coal In Transit</u>						
Coal In Transit	11/30/2021	\$ 1,571,187.10 (1)	780,030.52 (1)	\$ 2.0143	35,319.81 (1)	\$ 44.4846
Total Combined Inventory	11/30/2021	\$ 26,179,741.05	12,899,705.92	\$ 2.0295	561,189.58	\$ 46.6504

- (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: November 30, 2021

Fuel: Fuel Oil

<u>Trimble County</u>		<u>Amount</u>	<u>Gallons</u>	<u>Per Unit</u>
Beginning Inventory	10/31/2021	\$ 13,778.14	6,882.92	\$ 2.0018
Add: Purchases		\$ -	-	\$ -
Adjustments		<u>\$ -</u>	<u>-</u>	\$ -
Sub-Total		\$ 13,778.14	6,882.92	\$ 2.0018
Less: Fuel Burned-Jurisdictional		\$ -	-	\$ -
Fuel Burned-Non-Jurisdictional		<u>\$ -</u>	<u>-</u>	\$ -
Total Burn		\$ -	-	\$ -
Ending Inventory	11/30/2021	<u>\$ 13,778.14</u>	<u>6,882.92</u>	\$ 2.0018

Company: Louisville Gas and Electric Company

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

Month Ended: November 30, 2021

Fuel: Natural Gas

Mill Creek, Paddy's Run, and Zorn

		<u>Amount</u>	<u>Units (MCF)</u>	<u>Per Unit</u>
Beginning Inventory	10/31/2021	\$ -	-	\$ -
Add: Purchases		\$ 962,784.00	130,411	\$ 7.3827
Paddy's Run Gas Fixed Gas Demand Charge		\$ 320,464.25	-	\$ -
Total Purchases		<u>\$ 1,283,248.25</u>	<u>130,411</u>	<u>\$ 9.8400</u>
Adjustments		<u>\$ -</u>	<u>-</u>	<u>\$ -</u>
Sub-Total		\$ 1,283,248.25	130,411	\$ 9.8400
Less: Fuel Burned LG&E Share		\$ 834,406.03	74,850	\$ 11.1477
Paddy's Run Purchases Allocated to KU		\$ 330,901.54	55,561	\$ 5.9556
Paddy's Run Fixed Gas Demand Charge Allocated to KU		<u>\$ 117,940.68</u>	<u>-</u>	<u>\$ -</u>
Total Burn		<u>\$ 1,283,248.25</u>	<u>130,411</u>	<u>\$ 9.8400</u>
Ending Inventory	11/30/2021	\$ -	-	\$ -

Cane Run 7

		<u>Amount</u>	<u>Units (MCF)</u>	<u>Per Unit</u>
Beginning Inventory	10/31/2021	\$ 161,662.69	38,899	\$ 4.1560
Add: Purchases		\$ 4,027,710.47	861,561	\$ 4.6749
Fixed Gas Demand Charge		<u>\$ 955,510.70</u>	<u>-</u>	<u>\$ -</u>
Total Purchases		<u>\$ 4,983,221.17</u>	<u>861,561</u>	<u>\$ 5.7839</u>
Adjustments		<u>\$ 75,006.99 (1)</u>	<u>(13,187) (2)</u>	<u>\$ (5.6879)</u>
Sub-Total		\$ 5,219,890.85	887,273	\$ 5.8831
Less: Fuel Burned LG&E Share		\$ 1,113,667.41	187,977	\$ 5.9245
Purchases Allocated to KU		\$ 3,203,178.50	666,468	\$ 4.8062
Fixed Gas Demand Charge Allocated to KU		<u>\$ 745,298.35</u>	<u>-</u>	<u>\$ -</u>
Total Burn		<u>\$ 5,062,144.26</u>	<u>854,445</u>	<u>\$ 5.9245</u>
Ending Inventory	11/30/2021	\$ 157,746.59	32,828	\$ 4.8052

Trimble County Start-up and Stabilization

		<u>Amount</u>	<u>Units (MCF)</u>	<u>Per Unit</u>
Beginning Inventory	10/31/2021	\$ -	-	\$ -
Add: Purchases		\$ 74,915.07	15,539	\$ 4.8211
Fixed Gas Demand Charge		<u>\$ 61,530.54</u>	<u>-</u>	<u>\$ -</u>
Total Purchases		<u>\$ 136,445.61</u>	<u>15,539</u>	<u>\$ 8.7808</u>
Adjustments		<u>\$ -</u>	<u>-</u>	<u>\$ -</u>
Sub-Total		\$ 136,445.61	15,539	\$ 8.7808
Less: Fuel Burned LG&E Share-Jurisdictional		\$ 60,625.96	7,839	\$ 7.7339
Fuel Burned Non-Jurisdictional		\$ 21,427.22 (3)	2,770 (3)	\$ 7.7355
Purchases Allocated to KU		\$ 23,768.02	4,930	\$ 4.8211
Fixed Gas Demand Charge Allocated to KU		<u>\$ 30,624.41</u>	<u>-</u>	<u>\$ -</u>
Total Burn		<u>\$ 136,445.61</u>	<u>15,539</u>	<u>\$ 8.7808</u>
Ending Inventory	11/30/2021	\$ -	-	\$ -

<u>Trimble County CTs</u>		<u>Amount</u>	<u>Units (MCF)</u>	<u>Per Unit</u>
Beginning Inventory	10/31/2021	\$ 44,634.48	7,847	\$ 5.6881
Add: Purchases		\$ 11,844,760.47	2,498,750	\$ 4.7403
Fixed Gas Demand Charge		\$ 612,072.96	-	\$ -
Total Purchases		\$ 12,456,833.43	2,498,750	\$ 4.9852
Adjustments		\$ 16,369.57 (1)	(37,101) (2)	\$ (0.4412)
Sub-Total		\$ 12,517,837.48	2,469,496	\$ 5.0690
Less: Fuel Burned LG&E Share		\$ 3,831,861.44	751,222	\$ 5.1008
Purchases Allocated to KU		\$ 7,364,977.53	1,527,655	\$ 4.8211
Fixed Gas Demand Charge Allocated to KU		\$ 401,927.90	-	\$ -
Purchases Allocated to Trimble Country Start-up and Stabilization		\$ 74,915.07	15,539	\$ 4.8211
Total Burn		\$ 11,673,681.94	2,294,416	\$ 5.0879
Ending Inventory	11/30/2021	\$ 844,155.54	175,080	\$ 4.8215
 <u>Brown CTs</u>				
Beginning Inventory	10/31/2021	\$ -	-	\$ -
Add: Purchases Allocated from KU		\$ 750,731.60	138,760	\$ 5.4103
Adjustments		\$ -	-	\$ -
Sub-Total		\$ 750,731.60	138,760	\$ 5.4103
Less: Fuel Burned		\$ 750,731.60	138,760	\$ 5.4103
Ending Inventory	11/30/2021	\$ -	-	\$ -
Total Combined Inventory	11/30/2021	\$ 1,001,902.13	207,908	\$ 4.8190

(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.



Louisville Gas and Electric Company

Power Transaction Schedule

Month Ended: November-30-2021

Company	Type of Transaction	KWH	Demand(\$)	Billing Components		Total Charges(\$)	
				Fuel Charges(\$)	Other Charges(\$)		
Purchases							
ENERGY IMBALANCE	IMBL	Economy	285,000	\$ -	\$ 10,966.54	\$ -	\$ 10,966.54
LQF TARIFF PURCHASE POWER	LQF TARIFF	LQF TARIFF	41,840	\$ -	\$ 922.75	\$ -	\$ 922.75
GREEN TARIFF BUSINESS SOLAR PURCHASE POWER	GTBS	GTBS	-	\$ -	\$ 1.14	\$ -	\$ 1.14
SOLAR SHARE PROGRAM	SSP	SSP	-	\$ -	\$ 849.92	\$ -	\$ 849.92
KENTUCKY UTILITIES COMPANY	KU	Economy	24,366,000	\$ -	\$ 731,058.89	\$ 1,395.72	\$ 732,454.61
OHIO VALLEY ELECTRIC CORPORATION	OVEC	Economy	28,328,000	\$ 1,880,838.82	\$ 826,602.87	\$ -	\$ 2,707,441.69
Total Purchases			<u>53,020,840</u>	<u>\$ 1,880,838.82</u>	<u>\$ 1,570,402.11</u>	<u>\$ 1,395.72</u>	<u>\$ 3,452,636.65</u>
Sales							
ETC ENDURE	ETC	Economy	89,000		\$ 3,614.17	\$ 5,789.47	\$ 9,403.64
EVERGY KANSAS CENTRAL, INC.	EVGY	Economy	5,092,000		\$ 181,933.65	\$ 291,436.28	\$ 473,369.93
ENERGY IMBALANCE	IMBL	Economy	963,000		\$ 15,571.55	\$ 24,890.12	\$ 40,461.67
MACQUARIECOOK	MACQUARIE	Economy	4,096,000		\$ 131,579.01	\$ 210,774.05	\$ 342,353.06
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy	1,920,000		\$ 54,644.37	\$ 87,533.84	\$ 142,178.21
PJM INTERCONNECTION ASSOCIATION	PJM	Economy	1,353,000		\$ 50,212.30	\$ 80,434.30	\$ 130,646.60
RAINBOW ENERGY MARKETING CORP	REMC	Economy	1,630,000		\$ 54,093.46	\$ 86,651.36	\$ 140,744.82
THE ENERGY AUTHORITY	TEA	Economy	5,000		\$ 88.76	\$ 142.19	\$ 230.95
TENNESSEE VALLEY AUTHORITY	TVA	Economy	411,000		\$ 17,124.05	\$ 27,430.73	\$ 44,554.78
KENTUCKY UTILITIES COMPANY	KU	Economy	144,452,000		\$ 3,435,904.12	\$ 6.76	\$ 3,435,910.88
Total Sales			<u>160,011,000</u>	<u>\$ -</u>	<u>\$ 3,944,765.44</u>	<u>\$ 815,089.10</u>	<u>\$ 4,759,854.54</u>



Detailed Power Transaction Schedule

Month Ended: November-30-2021

Counter Party	KWH	Native Load			Forced Outages			
		Energy Cost (\$)	KWH	\$/MWH	Energy Cost (\$)	KWH	\$/MWH	
Purchases								
ENERGY IMBALANCE	IMBL	285,000	\$ 2,170.06	63,000	\$ 34.45	\$ -	-	\$ -
LQF TARIFF PURCHASE POWER	LQF TARIFF	41,840	\$ 922.75	41,840	\$ 22.05	\$ -	-	\$ -
GREEN TARIFF BUSINESS SOLAR PURCHASE POWER	GTBS	-	\$ 1.14	-	\$ -	\$ -	-	\$ -
SOLAR SHARE PROGRAM	SSP	-	\$ 849.92	-	\$ -	\$ -	-	\$ -
KENTUCKY UTILITIES COMPANY	KU	24,366,000	\$ 403,562.19	14,213,000	\$ 28.39	\$ -	-	\$ -
OHIO VALLEY ELECTRIC CORPORATION	OVEC	28,328,000	\$ 744,192.78	28,328,000	\$ 26.27	\$ -	-	\$ -
Total Purchases		53,020,840	\$ 1,151,698.84	42,645,840	\$ 27.01	\$ -	-	\$ -

*48 kWh related to Green Tariff Business Solar Purchase Power are included in generation for FAC purposes

*35,668 kWh related to the Solar Share Program are included in generation for FAC purposes

Sales

ETC ENDURE	ETC	89,000						
EVERGY KANSAS CENTRAL, INC.	EVGY	5,092,000						
ENERGY IMBALANCE	IMBL	963,000						
MACQUARIECOOK	MACQUARIE	4,096,000						
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	1,920,000						
PJM INTERCONNECTION ASSOCIATION	PJM	1,353,000						
RAINBOW ENERGY MARKETING CORP	REMC	1,630,000						
THE ENERGY AUTHORITY	TEA	5,000						
TENNESSEE VALLEY AUTHORITY	TVA	411,000						
KENTUCKY UTILITIES COMPANY	KU	144,452,000						
Total Sales		160,011,000	\$ -	-	\$ -	\$ -	-	\$ -



Detailed Power Transaction Schedule
 Month Ended: November-30-2021

Counter Party		KWH	OSS Purchases		Adj. From Prior Month (\$)	Total Energy		Demand(\$)	Other Charges(\$)	Total Charges(\$)
			Energy Cost (\$)	KWH		\$/MWH	* Charges (\$)			
Purchases										
ENERGY IMBALANCE	IMBL	285,000	\$ 8,796.48	222,000	\$ 39.62	\$ -	\$ 10,966.54	\$ -	\$ 0.00	\$ 10,966.54
LQF TARIFF PURCHASE POWER	LQF TARIFF	41,840	\$ -	-	\$ -	\$ -	\$ 922.75	\$ -	\$ -	\$ 922.75
GREEN TARIFF BUSINESS SOLAR PURCHASE POWER	GTBS	-	\$ -	-	\$ -	\$ -	\$ 1.14	\$ -	\$ -	\$ 1.14
SOLAR SHARE PROGRAM	SSP	-	\$ -	-	\$ -	\$ -	\$ 849.92	\$ -	\$ -	\$ 849.92
KENTUCKY UTILITIES COMPANY	KU	24,366,000	\$ 327,496.70	10,153,000	\$ 32.26	\$ -	\$ 731,058.89	\$ -	\$ 1,395.72	\$ 732,454.61
OHIO VALLEY ELECTRIC CORPORATION	OVEC	28,328,000	\$ -	-	\$ -	\$ 82,410.09	\$ 826,602.87	\$ 1,880,838.82	\$ -	\$ 2,707,441.69
Total Purchases		53,020,840	\$ 336,293.18	10,375,000	\$ 32.41	\$ 82,410.09	\$ 1,570,402.11	\$ 1,880,838.82	\$ 1,395.72	\$ 3,452,636.65

*48 kWh related to Green Tariff Business Solar Purchase Power are included in generation for FAC purposes

*35,668 kWh related to the Solar Share Program are included in generation for FAC purposes

Sales										
ETC ENDURE	ETC	89,000	\$ 2,388.51	59,000	\$ 40.48	\$ -	\$ 3,614.17	\$ -	\$ 5,789.47	\$ 9,403.64
EVERGY KANSAS CENTRAL, INC.	EVGY	5,092,000	\$ 120,235.21	3,395,000	\$ 35.42	\$ -	\$ 181,933.65	\$ -	\$ 291,436.28	\$ 473,369.93
ENERGY IMBALANCE	IMBL	963,000	\$ 10,290.83	642,000	\$ 16.03	\$ -	\$ 15,571.55	\$ -	\$ 24,890.12	\$ 40,461.67
MACQUARIECOOK	MACQUARIE	4,096,000	\$ 86,957.13	2,733,000	\$ 31.82	\$ -	\$ 131,579.01	\$ -	\$ 210,774.05	\$ 342,353.06
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	1,920,000	\$ 36,113.04	1,280,000	\$ 28.21	\$ -	\$ 54,644.37	\$ -	\$ 87,533.84	\$ 142,178.21
PJM INTERCONNECTION ASSOCIATION	PJM	1,353,000	\$ 33,184.00	902,000	\$ 36.79	\$ -	\$ 50,212.30	\$ -	\$ 80,434.30	\$ 130,646.60
RAINBOW ENERGY MARKETING CORP	REMC	1,630,000	\$ 35,748.96	1,087,000	\$ 32.89	\$ -	\$ 54,093.46	\$ -	\$ 86,651.36	\$ 140,744.82
THE ENERGY AUTHORITY	TEA	5,000	\$ 58.66	3,000	\$ 19.55	\$ -	\$ 88.76	\$ -	\$ 142.19	\$ 230.95
TENNESSEE VALLEY AUTHORITY	TVA	411,000	\$ 11,316.84	274,000	\$ 41.30	\$ -	\$ 17,124.05	\$ -	\$ 27,430.73	\$ 44,554.78
KENTUCKY UTILITIES COMPANY	KU	144,452,000	\$ -	-	\$ -	\$ 0.00	\$ 3,435,904.12	\$ -	\$ 6.76	\$ 3,435,910.88
Total Sales		160,011,000	\$ 336,293.18	10,375,000	\$ 32.41	\$ 0.00	\$ 3,944,765.44	\$ -	\$ 815,089.10	\$ 4,759,854.54

	KWH	\$/MWH
GENERATION FOR OSS	5,184,000	\$ 172,568.14
GENERATION FOR INTERNAL ECONOMY TO KU	144,329,000	\$ 3,375,965.73
GENERATION FOR INTERNAL REPLACEMENT TO KU	123,000	\$ 3,389.19
SPLIT SAVINGS		\$ 56,549.20
SALES FROM INTERNAL GENERATION	149,636,000	\$ 3,608,472.26
SALES FROM OSS PURCHASES	10,375,000	\$ 336,293.18
	160,011,000	\$ 3,944,765.44
ADJUSTMENTS FROM PRIOR MONTHS	-	\$ 0.00
	160,011,000	\$ 3,944,765.44

Louisville Gas & Electric
Analysis Of Coal Purchased for Fuel Clause Backup
Nov - 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	75,181.00	11,829	23.657	43.08	182.09	6.20	26.21	49.28	208.30	3.09	9.39	9.97
Alliance Coal LLC	P	J21004	B	U	WKY	6,296.81	11,595	23.189	39.66	171.02	3.94	16.99	43.60	188.01	2.88	9.09	11.24
Alliance Coal LLC	P	J21003	R	U	WKY	119,079.30	11,531	23.063	41.06	178.04	6.36	27.55	47.42	205.59	3.19	12.93	8.82
Knight Hawk Coal LLC	P	J21001	B	U	IL	11,415.17	11,203	22.406	37.42	167.02	8.38	37.40	45.80	204.42	3.06	9.04	12.66
Knight Hawk Coal LLC	P	J21022	B	U	IL	4,886.51	11,293	22.586	33.61	148.81	8.38	37.10	41.99	185.91	2.94	8.10	12.87
Western Kentucky Minerals Inc.	P	J20006	B	S	WKY	1,594.30	10,438	20.876	38.06	182.32	3.06	14.66	41.12	196.98	3.83	12.29	14.06
Total Long Term						218,453.09	11,605	23.210	41.34	178.10	6.35	27.39	47.69	205.49	3.14	11.28	9.61
Spot Contract																	
Alliance Coal LLC	P	J21027	B	U	WKY	4,827.38	11,589	23.178	36.53	157.61	3.94	17.00	40.47	174.61	2.97	9.46	11.21
Coal Network LLC	B	J20024	B	U	WKY	1,614.30	11,196	22.392	25.34	113.17	3.06	13.66	28.40	126.83	2.79	8.88	13.76
Total Spot						6,441.68	11,491	22.981	33.73	146.76	3.72	16.18	37.45	162.94	2.92	9.31	11.85
Total Mill Creek						224,894.77	11,602	23.203	41.12	177.21	6.28	27.08	47.40	204.29	3.13	11.23	9.68

(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
Nov - 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)
Trimble County																	
Trimble County High Sulfur Coal																	
Long Term Contract																	
ACNR Coal Sales Inc	P	J17004B	B	U	IL	11,458.51	11,743	23.486	42.82	182.31	4.33	18.44	47.15	200.75	2.39	9.29	10.42
Alliance Coal LLC	P	J18009	B	U	WKY	9,671.48	11,542	23.085	39.12	169.47	4.33	18.76	43.45	188.23	3.00	9.45	11.29
Alliance Coal LLC	P	J21004	B	U	WKY	75,269.45	11,588	23.175	39.67	171.19	4.33	18.68	44.00	189.87	2.97	9.37	11.18
Alliance Coal LLC	P	J21010	B	U	WKY	44,724.98	11,589	23.177	38.67	166.83	4.33	18.68	43.00	185.51	2.98	9.27	11.30
Knight Hawk Coal LLC	P	J21001	B	U	IL	11,354.30	11,157	22.314	37.42	167.71	8.76	39.26	46.18	206.97	2.97	8.99	12.90
Total Long Term						152,478.72	11,565	23.129	39.41	170.40	4.66	20.14	44.07	190.54	2.93	9.31	11.29
Spot Contract																	
Alliance Coal LLC	P	J21027	B	U	WKY	87,706.86	11,580	23.159	36.54	157.76	4.33	18.70	40.87	176.46	2.98	9.40	11.26
Alliance Coal LLC	P	J21028	B	U	WV	23,436.45	12,544	25.087	57.49	229.17	6.56	26.15	64.05	255.32	3.18	9.17	6.61
Total Spot						111,143.31	11,783	23.566	40.96	173.79	4.80	20.37	45.76	194.16	3.02	9.35	10.28
Total Trimble County						263,622.03	11,657	23.313	40.06	171.84	4.72	20.25	44.78	192.09	2.97	9.33	10.87
Total Louisville Gas & Electric						488,516.80	11,631	23.263	40.55	174.31	5.44	23.38	45.99	197.69	3.04	10.20	10.32

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

(c) POCN = Purchase Order
or Contract Number

(d) MT = Mode of Transportation2
Designated by Symbol

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

LOUISVILLE GAS AND ELECTRIC COMPANY
ANALYSIS OF OTHER FUEL PURCHASES
Month Ended: November 30, 2021

<u>Fuel & Supplier</u>	<u>P</u> D <u>U</u> (a)	<u>P</u> O <u>C</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	195,093 (1)	1.065	1,034,744.32	498.01	-
LG&E	U	-	P	Mill Creek	11,837	1.065	256,599.45	2,035.47	-
LG&E	U	-	P	Paddy's Run	63,013 (1)	1.065	577,806.58	861.01	-
LG&E	U	-	P	Zorn	-	0.000	-	-	-
Kentucky Utilities	U	-	P	EW Brown CTs	138,760	1.025	750,731.60	527.83	-
LG&E	U	-	P	Trimble County	966,165 (1)	1.065	4,697,066.11	456.48	-
Total Natural Gas					<u>1,374,868</u>	<u>1.061</u>	<u>7,316,948.06</u>	<u>501.61</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: November 30, 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)	233.44	243.08	-	363.92	
	c. Net Demonstrated Capability (MW)	300	297	393	482	
	d. Net Capability Factor (1b/1c) (%)	78%	82%	-	76%	
2.	Heat Rate:					
	a. BTU Consumed (MMBTU)	1,631,450	1,798,117	2,978	2,636,950	
	b. Gross Generation (MWH)	176,063	193,112	-	283,690	
	c. Net Generation (MWH)	155,240	175,017	(1,544) (2)	262,020	
	d. Heat Rate (2a/2c) (BTU/KWH)	10,509	10,274	-	10,064	
3.	Operation Availability:					
	a. Hours Unit Operated	665	720	-	720	
	b. Hours Available	667	720	12	720	
	c. Hours During the Period	720	720	720	720	
	d. Availability Factor (3b/3c) (%)	93%	100%	2%	100%	
4.	Cost per KWH:					
	a. Gross Generation - FAC Basis (cents/KWH)	1.938	1.872	-	1.885	
	b. Net Generation - FAC Basis (cents/KWH)	2.198	2.066	-	2.041	
5.	Inventory Analysis:					
	a. Number of Days Supply based on actual burn at the station (1)					

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

(2) Negative net generation due to station usage.

Company Name: Louisville Gas and Electric Company

Station Name - Unit Number: Trimble County

Month Ended: November 30, 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)	418.21	713.65	
	c. Net Demonstrated Capability (MW)	493	747	
	d. Net Capability Factor (1b/1c) (%)	85%	96%	
2.	Heat Rate:			
	a. BTU Consumed (MMBTU)	2,556,079	4,655,192	
	b. Gross Generation (MWH)	272,878	551,395	
	c. Net Generation (MWH)	250,276	513,831	
	d. Heat Rate (2a/2c) (BTU/KWH)	10,213	9,060	
3.	Operation Availability:			
	a. Hours Unit Operated	598	720	
	b. Hours Available	598	720	
	c. Hours During the Period	720	720	
	d. Availability Factor (3b/3c) (%)	83%	100%	
4.	Cost per KWH:			
	a. Gross Generation - FAC Basis (cents/KWH)	1.872	1.763	
	b. Net Generation - FAC Basis (cents/KWH)	2.041	1.892	
5.	Inventory Analysis:			
	a. Number of Days Supply based on actual burn at the station (1)			38

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: November 30, 2021

Line No.	Item Description	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)	33	178	18	199	199	199	199	199	199
	b. Capacity (average load) (2c/3a) (MW)	-	102.91	-	-	128.51	132.50	117.39	131.62	131.83
	c. Net Demonstrated Capability (MW)	26	161	15	169	169	169	169	169	169
	d. Net Capability Factor (1b/1c) (%)	-	64%	-	-	76%	78%	69%	78%	78%
2.	Heat Rate:									
	a. BTU Consumed (MMBTU)	382	125,898	-	441,061	783,201	648,892	114,337	397,457	42,056
	b. Gross Generation (MWH)	26	10,291	-	37,884	66,646	66,467	9,819	34,744	3,636
	c. Net Generation (MWH)	(68) (1),(2)	10,291	(4) (1)	37,679	66,284	66,118	9,767	34,391	3,599
	d. Heat Rate (2a/2c) (BTU/KWH)	-	12,234	-	11,706	11,816	9,814	11,706	11,557	11,685
3.	Operation Availability:									
	a. Hours Unit Operated	1	100	-	-	516	499	83	261	27
	b. Hours Available	720	529	-	-	720	592	204	551	550
	c. Hours During the Period	720	720	720	720	720	720	720	720	720
	d. Availability Factor (3b/3c) (%)	100%	73%	0%	0%	100%	82%	28%	77%	76%
4.	Cost per KWH:									
	a. Gross Generation - FAC Basis (cents/KWH)	275.634	9.280	-	5.540	5.473	4.573	6.310	5.472	8.042
	b. Net Generation - FAC Basis (cents/KWH)	166.662	9.280	-	5.570	5.503	4.597	6.344	5.528	8.124
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.

(2) Adjustment to correct prior month station usage

Company Name: Louisville Gas and Electric Company

Station Name - Unit Number: Cane Run NGCC

Month Ended: November 30, 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)	554.45	
	c. Net Demonstrated Capability (MW)	694	
	d. Net Capability Factor (1b/1c) (%)	80%	
2.	Heat Rate:		
	a. BTU Consumed (MMBTU)	909,984	
	b. Gross Generation (MWH)	127,865	
	c. Net Generation (MWH)	123,975	
	d. Heat Rate (2a/2c) (BTU/KWH)	7,340	
3.	Operation Availability:		
	a. Hours Unit Operated	224	
	b. Hours Available	224	
	c. Hours During the Period	720	
	d. Availability Factor (3b/3c) (%)	31%	
4.	Cost per KWH:		
	a. Gross Generation - FAC Basis (cents/KWH)	3.959	
	b. Net Generation - FAC Basis (cents/KWH)	4.083	
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 (NOVEMBER 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>(\$/MBTU)</small>	(6)=(3)+(4)+(5) DISPATCH COST <small>(\$/MWH)</small>	(7) Maint V O&M <small>(\$/MWH)</small>	(8)=(6)+(7) TOTAL PRICE <small>(\$/MWH)</small>
PADDYS RUN 12	17,692	498.50	88.19	0.00	0.00			88.21		N/A	N/A
HAEFLING	17,765	742.00	131.82	0.00	0.00			131.83		N/A	N/A

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

	MM/DD/YY Hr	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								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
						LG&E Total	\$ -	\$0.00	\$ -	

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

	MM/DD/YY Hr	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

	LG&E	KU (Consolidated)
Electric Off-System Sales	MTD Current Year November-21	MTD Current Year November-21
Revenue		
External Sales	\$ 1,323,944	\$ 151,402
Internal Sales	\$ 3,396	\$ 328,892
Total	\$ 1,327,340	\$ 480,295
External Expenses		
Fuel	\$ (172,568)	\$ (48,984)
Purchase Power	\$ (8,796)	\$ (1,051)
ECR Consumables	\$ -	\$ -
Other Consumables	\$ (247)	\$ (944)
Transmission	\$ (66)	\$ (75)
RTO Costs	\$ (1,378)	\$ (1,636)
Inter-System Losses	\$ (2,544)	\$ (267)
Internal Expenses		
Fuel	\$ (3,389)	\$ (327,497)
Purchase Power	\$ (328,892)	\$ (3,396)
Other Consumables	\$ (7)	\$ (1,396)
Transmission	\$ (110,148)	\$ (13,157)
Total	\$ (628,036)	\$ (398,401)
Electric Off-System Sales Margin	\$ 699,304	\$ 81,893
OSS Margin - Jurisdictional	\$ 524,478	\$ 57,385
OSS Margin - Non-Jurisdictional	\$ -	\$ 4,035
OSS Margin - Utility Share	\$ 174,826	\$ 20,473

SEEM Formation and Participation Costs

Expense Month: November 2021

<u>Item Description</u>	<u>LG&E</u>	<u>KU</u>
Administrative and legal expenses associated with the FERC proceeding	\$ 3,475	\$ 3,764
Costs of SEEM formation and participation	<u>\$ -</u>	<u>\$ -</u>
Total Costs	\$ 3,475	\$ 3,764