

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In the Matter of:**

<b>A REVIEW OF THE ADEQUACY OF</b>	)	
<b>KENTUCKY'S GENERATION CAPACITY</b>	)	<b>ADMINISTRATIVE</b>
<b>AND TRANSMISSION SYSTEM</b>	)	<b>CASE NO. 387</b>


**2022 ANNUAL RESOURCE ASSESSMENT FILING  
OF  
LOUISVILLE GAS AND ELECTRIC COMPANY  
PURSUANT TO APPENDIX G  
OF THE COMMISSION'S ORDER  
DATED DECEMBER 20, 2001  
AS AMENDED BY THE  
COMMISSION'S ORDER  
DATED MARCH 29, 2004**

**FILED: MARCH 31, 2023**

**VERIFICATION**

**COMMONWEALTH OF KENTUCKY** )  
 )  
**COUNTY OF JEFFERSON** )

The undersigned, **Joshua Boone**, being duly sworn, deposes and says that he is Manager – Transmission Strategy and Planning for LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

  
**Joshua Boone**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 28<sup>th</sup> day of March 2023.

  
Notary Public

Notary Public ID No. KYNP53381

My Commission Expires:

July 11, 2026

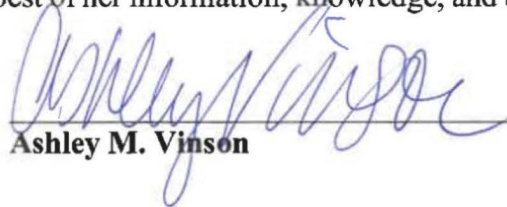




**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )**  
**)**  
**COUNTY OF JEFFERSON )**

The undersigned, **Ashley M. Vinson**, being duly sworn, deposes and says that she is Manager – Transmission Policy and Tariffs for LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge, and belief.

  
\_\_\_\_\_  
**Ashley M. Vinson**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 28<sup>th</sup> day of March 2023.

  
\_\_\_\_\_  
Notary Public

Notary Public ID No. KYNA53381

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**LOUISVILLE GAS AND ELECTRIC COMPANY**

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**ITEM NO. 1**

The information originally requested in Item 1 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

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**ITEM NO. 2**

The information originally requested in Item 2 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

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**ITEM NO. 3**

**RESPONDENT: Tim Jones / Michael Sebourn**

3. Actual and weather-normalized monthly coincident peak demands for the just completed calendar year. Demands should be disaggregated into (a) native load demand (firm and non-firm) and (b) off-system demand (firm and non-firm).

Response:

See Table 3, which shows the actual and weather-normalized native Louisville Gas and Electric Company (“LG&E”) peak demands. The normalized native LG&E stand-alone peak demands are available only on a seasonal (summer/winter) basis.

**Table 3 – LG&E Native and Off-System Demands for 2022 (MW)**

Time of Monthly Native Peak	Actual			Normal Weather (Seasonal)	Off-System <sup>1</sup>		
	Native Peak	Non-Firm	Firm	Native Peak	Firm	Non-Firm	Total
1/26/2022 8:00	1,755	0	1,755	1,858	0	256	256
2/14/2022 9:00	1,613	0	1,613		0	62	62
3/12/2022 20:00	1,476	0	1,476		0	203	203
4/24/2022 16:00	1,587	0	1,587		0	2	2
5/31/2022 16:00	2,173	0	2,173		0	200	200
6/22/2022 14:00	2,559	0	2,559		0	24	24
7/20/2022 16:00	2,572	0	2,572		0	1	1
8/3/2022 16:00	2,454	0	2,454	2,580	0	1	1
9/21/2022 14:00	2,395	0	2,395		0	0	0
10/20/2022 7:00	1,375	0	1,375		0	126	126
11/17/2022 18:00	1,569	0	1,569		0	106	106
12/23/2022 18:00	2,048	0	2,048		0	11	11

<sup>1</sup> The allocation of off-system sales between LG&E and KU is handled in the After-the-Fact Billing process in accordance with the Power Supply System Agreement between LG&E and KU. The individual company sales will include an allocation of the sales sourced with purchased power and allocated to the individual company based on each company's contribution to off-system sales.



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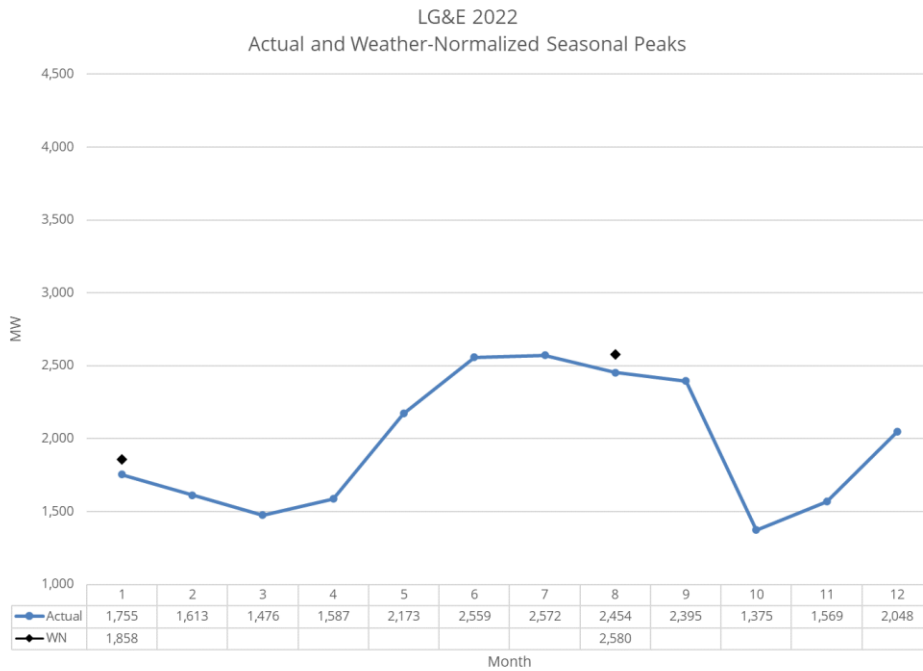
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**ITEM NO. 4**

**RESPONDENT: Tim Jones**

4. Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

Response:



**LOUISVILLE GAS AND ELECTRIC COMPANY**

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**ITEM NO. 5**

The information originally requested in Item 5 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

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**ITEM NO. 6**

**RESPONDENT: Tim Jones / Michael Sebourn**

6. Based on the most recent demand forecast, the base case demand and energy forecasts and high case demand and energy forecasts for the current year and the following four years. The information should be disaggregated into (a) native load (firm and non-firm demand) and (b) off-system load (both firm and non-firm demand).

Response:

**Table 6a – LG&E Demand and Energy Forecast**

	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>Base Case Energy Sales (GWh)</b>	11,246	11,270	11,212	11,129	11,121
<b>High Case Energy Sales (GWh)</b>	11,459	11,538	11,520	11,461	11,474
<b>Base Case Energy Requirements (GWh)</b>	12,111	12,137	12,062	11,970	11,962
<b>High Case Energy Requirements (GWh)</b>	12,341	12,425	12,392	12,328	12,340
<b>Base Case Native Peak Demand (MW, Winter)</b>	2,559	2,558	2,543	2,530	2,537
<b>High Case Native Peak Demand (MW, Winter)</b>	2,608	2,619	2,612	2,605	2,617

**Table 6b – Combined Companies' Total Base Case OSS Energy Projection (GWh)**

	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>Existing OSS</b>	0	0	0	0	0
<b>Wholesale OSS</b>	460	270	325	612	782
<b>Total OSS</b>	460	270	325	612	782

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**ITEM NO. 7**

**RESPONDENT: Michael Sebourn**

7. The target reserve margin currently used for planning purposes, stated as a percentage of demand. If changed from what was in use in 2001, include a detailed explanation for the change.

Response:

The Companies have an optimal summer reserve margin range of 17% to 24% and winter reserve margin range of 24% to 35%. The range provides an optimum level of reliability through various system operating conditions.

As part of the 2021 Integrated Resource Plan ("2021 IRP"), the Companies established an optimal summer reserve margin range of 17% to 24% and winter reserve margin range of 26% to 35%. The 2021 IRP was filed with the Commission in October 2021.<sup>2</sup>

In the Companies' 2022 application for a certificate of public convenience and necessity and approval of a DSM plan ("2022 CPCN"), the minimum winter reserve margin target was revised from 26% to 24% based on an updated load forecast and an updated cost of SCCT capacity. The 2022 CPCN was filed in December 2022.<sup>3</sup>

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<sup>2</sup> A detailed explanation of the 2021 IRP's target reserve margin is documented in the report titled, "2021 IRP Reserve Margin Analysis," included in Volume III of the Companies' 2021 IRP. *In re the Matter of: Electronic 2021 Joint Integrated Resource Plan of Louisville Gas and Electric Company and Kentucky Utilities Company* Case No. 2021-00393, filed on October 19, 2021.

<sup>3</sup> A detailed explanation of the 2022 CPCN's target reserve margin is documented in the report titled, "2022 Minimum Reserve Margin Analysis," included in Exhibit SAW-1 titled "2022 Resource Assessment." *In the Matter of: Electronic Joint Application of Kentucky Utilities Company and Louisville Gas and Electric Company for Certificates of Public Convenience and Necessity and Site Compatibility Certificates and Approval of a Demand Side Management Plan* Case No. 2022-00402, filed on December 15, 2022.

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**ITEM NO. 8**

**RESPONDENT: Michael Sebourn**

8. Projected reserve margins stated in megawatts and as a percentage of demand for the current year and the following 4 years. Identify projected deficits and current plans for addressing these. For each year identify the level of firm capacity purchases projected to meet native load demand.

Response:

See Tables 8a and 8b for the combined Companies. These tables show for each peak season the dispatchable reserve margin, which excludes intermittent and limited-duration resources, and the total reserve margin, which includes all resources using an expected contribution at the time of peak. No reserve margin deficits are projected. The Companies will continue to monitor load requirements and evaluate supply alternatives to address future capacity deficits. The information provided is consistent with the resource plan the Companies' proposed in the 2022 CPCN application (noted in the response to Item No. 7) and may not reflect the implementation of the recently finalized Good Neighbor Plan.

**Table 8a: Summer Peak Demand and Resource Summary (MW)**

	2023	2024	2025	2026	2027
<b>Peak Load</b>	<b>6,162</b>	<b>6,197</b>	<b>6,248</b>	<b>6,253</b>	<b>6,347</b>
<b>Dispatchable Generation Resources</b>					
Existing Resources	7,583	7,612	7,612	7,612	7,612
Retirements/Additions					
Coal <sup>4</sup>	-300	-300	-300	-300	-597
Large-Frame SCCTs	0	0	0	0	0
Small-Frame SCCTs <sup>5</sup>	0	0	-47	-47	-47
NGCC	0	0	0	0	621
Total	7,283	7,312	7,265	7,265	7,589
Reserve Margin	1,121	1,115	1,017	1,012	1,242
Reserve Margin %	18.2%	18.0%	16.3%	16.2%	19.6%
<b>Intermittent/Limited-Duration Resources</b>					
Existing Resources	105	105	105	105	105
Existing CSR	128	128	128	128	128
Existing Disp. DSM <sup>6</sup>	62	60	56	52	49
Retirements/Additions					
Solar <sup>7</sup>	0	79	177	681	866
Battery Storage	0	0	0	125	125
Dispatchable DSM <sup>6</sup>	0	36	49	66	91
Total	294	407	515	1,157	1,364
<b>Total Supply</b>	<b>7,577</b>	<b>7,719</b>	<b>7,780</b>	<b>8,422</b>	<b>8,953</b>
<b>Total Reserve Margin</b>	<b>1,415</b>	<b>1,500</b>	<b>1,510</b>	<b>2,148</b>	<b>2,585</b>
<b>Total Reserve Margin %</b>	<b>23.0%</b>	<b>24.6%</b>	<b>24.5%</b>	<b>34.7%</b>	<b>41.1%</b>

<sup>4</sup> Mill Creek 1 and 2 cannot be operated simultaneously during ozone season due to NO<sub>x</sub> limits, which results in a reduction of available summer capacity through 2024. Mill Creek 1 is assumed to be retired by the end of 2024. Mill Creek 2 is assumed to be retired in 2027.

<sup>5</sup> Haefling 1-2 and Paddy's Run 12 are assumed to be retired in 2025.

<sup>6</sup> Dispatchable DSM reflects expected load reductions under normal peak weather conditions.

<sup>7</sup> Solar capacity values reflect 78.6% and 0% expected contribution to summer and winter peak capacity, respectively.

**Table 8b: Winter Peak Demand and Resource Summary (MW)**

	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>Peak Load</b>	<b>5,910</b>	<b>5,908</b>	<b>6,011</b>	<b>6,003</b>	<b>6,107</b>
<b>Dispatchable Generation Resources</b>					
Existing Resources	7,901	7,909	7,909	7,909	7,909
Retirements/Additions					
Coal <sup>4</sup>	0	0	-300	-300	-597
Large-Frame SCCTs	0	0	0	0	0
Small-Frame SCCTs <sup>5</sup>	0	0	-55	-55	-55
NGCC	0	0	0	0	641
<b>Total</b>	<b>7,901</b>	<b>7,909</b>	<b>7,554</b>	<b>7,554</b>	<b>7,898</b>
Reserve Margin	1,991	2,001	1,543	1,550	1,790
Reserve Margin %	33.7%	33.9%	25.7%	25.8%	29.3%
<b>Intermittent/Limited-Duration Resources</b>					
Existing Resources	72	72	72	72	72
Existing CSR	128	128	128	128	128
Existing Disp. DSM <sup>6</sup>	22	22	22	22	22
Retirements/Additions					
Solar <sup>7</sup>	0	0	0	0	0
Battery Storage	0	0	0	125	125
Dispatchable DSM <sup>6</sup>	0	13	26	40	61
<b>Total</b>	<b>221</b>	<b>234</b>	<b>246</b>	<b>385</b>	<b>407</b>
<b>Total Supply</b>	<b>8,122</b>	<b>8,143</b>	<b>7,800</b>	<b>7,939</b>	<b>8,305</b>
<b>Total Reserve Margin</b>	<b>2,211</b>	<b>2,235</b>	<b>1,789</b>	<b>1,936</b>	<b>2,197</b>
<b>Total Reserve Margin %</b>	<b>37.4%</b>	<b>37.8%</b>	<b>29.8%</b>	<b>32.2%</b>	<b>36.0%</b>

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**ITEM NO. 9**

The information originally requested in Item 9 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.



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**ITEM NO. 10**

The information originally requested in Item 10 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

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**ITEM NO. 11**

**RESPONDENT: Michael Sebourn**

11. A list that identifies scheduled outages or retirements of generating capacity during the current year and the following four years.

Response:

The planned maintenance outage schedule for 2023 through 2027 is being provided pursuant to a Petition for Confidential Protection. The schedule is regularly modified based on actual operating conditions, forced outages, changes in the schedule required to meet environmental compliance regulations, fluctuations in wholesale prices, and other unforeseen events.

The LG&E retirements assumed in the following four years are Mill Creek 1 in 2024, Paddy's Run 12 in 2025, and Mill Creek 2 in 2027. These retirements are consistent with the resource plan the Companies' proposed in the 2022 CPCN application (noted in the response to Item No. 7) and may not reflect the implementation of the recently finalized Good Neighbor Plan.

The entire attachment is  
Confidential and  
provided separately  
under seal.

**LOUISVILLE GAS AND ELECTRIC COMPANY**  
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**ITEM NO. 12**

**RESPONDENT: Michael Sebourn**

12. Identify all planned base load or peaking capacity additions to meet native load requirements over the next 10 years. Show the expected in-service date, size and site for all planned additions. Include additions planned by the utility, as well as those by affiliates, if constructed in Kentucky or intended to meet load in Kentucky. The information provided is consistent with the resource plan the Companies' proposed in the 2022 CPCN application (noted in the response to Item No. 7) and may not reflect the implementation of the recently finalized Good Neighbor Plan.

Response:

The Companies jointly plan their generation portfolio. The Companies plan to build, own, and operate a mix of natural gas combined cycle ("NGCC"), solar, and lithium-ion battery storage over the next 10 years. Here is a summary of the planned projects:

- 621 MW NGCC in Jefferson County ("Mill Creek Unit 5") anticipated to be in service in 2027.
- 621 MW NGCC in Mercer County ("Brown Unit 12") anticipated to be in service in 2028.
- 120 MW solar facility in Mercer County anticipated to be in service in 2026.
- 120 MW solar facility in Marion County anticipated to be in service in 2027.
- 125 MW lithium-ion battery in Mercer County anticipated to be in service in 2026. This battery would be fully owned by LG&E but would serve native load energy requirements for both LG&E and KU.

In addition to the projects above, the Companies plan to purchase the energy output of the following six solar facilities in Kentucky. Each project's development is ongoing with milestones to clear before completion.

- 100 MW in Hardin County anticipated to be in service in 2024.
- 125 MW in McCracken County anticipated to be in service in 2025.
- 138 MW in Hopkins County anticipated to be in service in 2026.
- 280 MW in Hardin County anticipated to be in service in 2026.
- 104 MW in Ballard County anticipated to be in service in 2026.
- 115 MW in Ballard County anticipated to be in service in 2027.

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## ITEM NO. 13

RESPONDENT: Ashley Vinson

13. The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years:
- a. Total energy received from all interconnections and generation sources connected to the transmission system.
  - b. Total energy delivered to all interconnections on the transmission system.
  - c. Peak load capacity of the transmission system.
  - d. Peak demand for summer and winter seasons on the transmission system.

Response:

Data exists for 2022. The Company does not forecast this type of data; therefore, no forecast exists for 2023-2027.

- a. LG&E and KU operate as a single NERC Balancing Area that contains several generators not owned by LG&E and KU, which are also included as sources below:

Tie Lines Received (MWH)	20,117,746
Net Generation-LG&E (MWH)	13,842,117
Net Generation-KU (MWH)	20,123,393
Net Generation-KMPA (MWH)	131,983
Net Generation-EKPC (MWH)	<u>205,005</u>
Total Sources (MWH)	54,420,244

- b. LG&E and KU operate as a single Balancing Area; the amount of energy delivered at the interconnections of the single Balancing Area was 18,262,107 MWH(s).

- c. There is no set number for peak load capacity for the transmission system. The system is built to support Network Service and long-term firm Point-to-Point customers in accordance with the LG&E/KU Transmission Planning Guidelines. Actual transmission capacity available for Network Customers, import, export or thru flow will vary depending on which facilities (generation, load or transmission) in the interconnected transmission system of the eastern interconnect are connected and operated at any given time.
- d. The maximum summer peak transmission load for the combined LG&E/KU transmission system was 7,296 MW for the peak hour of 6/15/2022 at 3:00 p.m.

The maximum winter peak transmission load for the combined LG&E/KU transmission system was 7,662 MW for the peak hour of 12/23/2022 at 6 p.m.

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**ITEM NO. 14**

**RESPONDENT: Josh Boone**

14. Identify all planned transmission capacity additions for the next 10 years. Include the expected in-service date, size and site for all planned additions and identify the transmission need each addition is intended to address.

Response:

The requested information is being provided pursuant to a Petition for Confidential Protection.

The entire attachment is  
Confidential and  
provided separately  
under seal.