



**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In the Matters of:**

<b>ELECTRONIC REVIEW OF THE ADEQUACY</b>	<b>)</b>	<b>Administrative</b>
<b>OF KENTUCKY'S GENERATION CAPACITY</b>	<b>)</b>	<b>Case No.</b>
<b>AND TRANSMISSION SYSTEM</b>	<b>)</b>	<b>2000-00387</b>

**SUPPLEMENTAL INFORMATION PROVIDED WITH  
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT  
PURSUANT TO ADMINISTRATIVE CASE NO. 2000-00387**

**FILED: February 26, 2026**

**BIG RIVERS ELECTRIC CORPORATION**

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GENERATION CAPACITY AND TRANSMISSION SYSTEM**

**Response to Commission Staff's Information Request  
as set forth in  
Appendix G of the Commission's Order dated December 20, 2001**

**February 26, 2026**

1 **Item 1)** *Actual and weather-normalized energy sales for the just*  
2 *completed calendar year. Sales should be disaggregated into native load*  
3 *sales and off-system sales. Off-system sales should be further disaggregated*  
4 *into full requirements sales, firm capacity sales, and non-firm or economy*  
5 *energy sales. Off-system sales should be further disaggregated to identify*  
6 *separately all sales where the utility acts as a reseller, or transporter, in a*  
7 *power transaction between two or more other parties.*

8

9 **Response)** The information originally requested in the above item of Appendix G of  
10 the Commission's Order dated December 20, 2001, in Administrative Case No. 2000-  
11 00387, ("the December 2001 Order in Admin. Case 387") is no longer required  
12 pursuant to Ordering Paragraph No. 5 of the Commission's Order dated March 29,  
13 2004, amending the December 2001 Order in Admin. Case 387.

14

15 **Respondent)** Ryan Wilhelmus

16

17

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1 **Item 2)** *A summary of monthly power purchases for the just completed*  
2 *calendar year. Purchases should be disaggregated into firm capacity*  
3 *purchases required to serve native load, economy energy purchases, and*  
4 *purchases where the utility acts as a reseller, or transporter, in a power*  
5 *transaction between two or more other parties.*

6

7 **Response)** The information originally requested in the above item of Appendix G of  
8 the December 2001 Order in Admin. Case 387 is no longer required pursuant to  
9 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,  
10 amending the December 2001 Order in Admin. Case 387.

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13 **Respondent)** Ryan Wilhelmus

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1 **Item 3)** *Actual and weather-normalized monthly coincident peak*  
2 *demands for the just completed calendar year. Demands should be*  
3 *disaggregated into*

4 *a. native load demand (firm and non-firm) and*

5 *b. off-system demand (firm and non-firm).*

6

7 **Response)** The attached Table 3-G shows the actual and weather normalized native  
8 load demand and the off-system coincident demand for 2025. Native load is  
9 comprised of the Big Rivers' Members' rural and industrial load served under LIC,  
10 LICSS, and LICX tariffs. Big Rivers sells its power into the Midcontinent  
11 Independent System Operator, Inc. ("MISO") market and, therefore, the off-system  
12 sales cannot be weather normalized. Off-system demand is comprised of three  
13 components: (i) forward bilateral sales which are characterized as firm, (ii) sales to  
14 Nebraska customers which are served in the SPP market and can be characterized  
15 as firm, and (iii) off-system sales due to generation clearing in the MISO market

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1 which is in excess of Big Rivers' load and are a result of Big Rivers' compliance with  
2 its MISO tariff obligations.

3

4

5 **Respondent)** Ryan Wilhelmus

6

**Big Rivers Electric Corporation**  
**Administrative Case No. 387**  
**Table 3-G**  
**Native Peak and Off-System Sales**  
**Weather Normalized**  
**Total Native Load and Off-System Coincident Peak Demands <sup>1</sup> (MW)**  
**Filed February 26, 2026**

Month	Peak Date	Native Load <sup>1</sup>		Firm <sup>3</sup>	Off-System Sales		
		All Firm Peak Demand <sup>2</sup>	Weather Normalized		Off-System Demand	Sales in MISO <sup>4</sup>	Sales in SPP <sup>5</sup>
Jan-25	01/22/25	815	766	182	0	54	0
Feb-25	02/21/25	783	734	181	96	58	0
Mar-25	03/05/25	650	695	173	0	56	0
Apr-25	04/28/25	613	608	190	203	33	0
May-25	05/19/25	635	661	255	31	38	0
Jun-25	06/21/25	772	777	309	0	52	0
Jul-25	07/29/25	779	782	299	0	63	0
Aug-25	08/15/25	781	789	246	104	63	0
Sep-25	09/16/25	747	747	227	0	56	0
Oct-25	10/04/25	599	616	215	0	49	0
Nov-25 <sup>6</sup>	11/10/25	667	669	189	0	38	0
Dec-25 <sup>6</sup>	12/15/25	755	706	176	137	38	0

**Notes -**

- 1.- Native Load includes Transmission Losses.
- 2.- Native Load includes Block Mining, Inc.'s full load. Pursuant to the Retail Sales Agreement only a portion of that load is served at Big Rivers' LIC tariff and the remaining is served at Market Rate with the costs passed through to the customer.
- 3.- Off System Firm Sales are Pre-arranged bilateral sales
- 4.- Net Sales at generator nodes
- 5.- Off System Sales to Nebraska customers in SPP at Big Rivers' peak hour
- 6.- November and December off-system sales subject to slight change due to meter corrections

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

4

5 **Response)** The attached Graph 4-G shows the monthly native load demand, along  
6 with the monthly weather normalized native load demand for 2025.

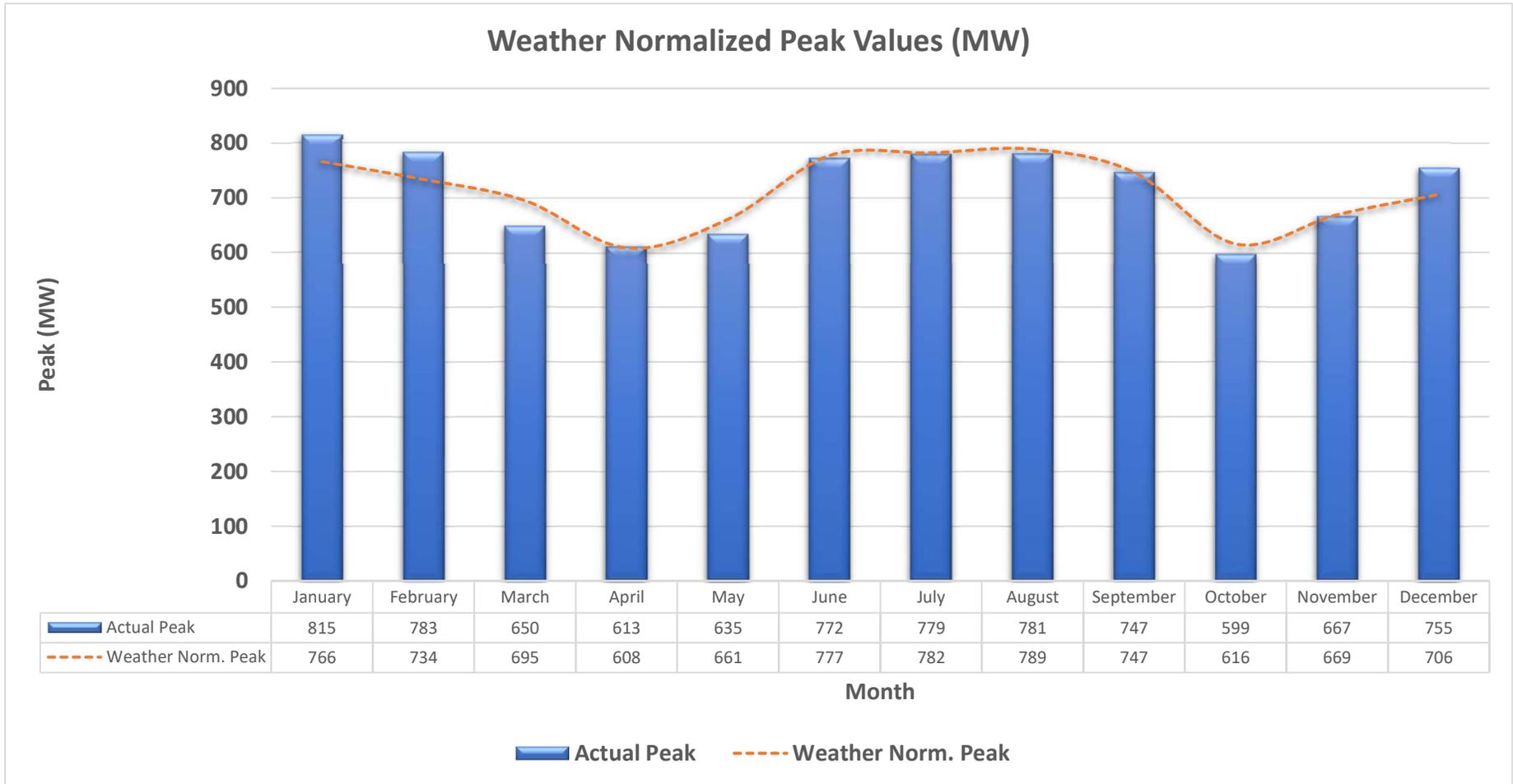
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8

9 **Respondent)**      Ryan Wilhelmus

10

**Big Rivers Electric Corporation**  
**Administrative Case No. 387**  
**Graph 4-G**  
**Actual versus Weather Normalized Peak Demand**  
**Filed February 26, 2026**



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1 **Item 5)**      *Load shape curves showing the number of hours that native load*  
2 *demand exceeded these levels during the just complete calendar year:*

3      *a. 70% of the sum of installed generating capacity plus firm capacity*  
4      *purchases;*

5      *b. 80% of the sum of installed generating capacity plus firm capacity*  
6      *purchases;*

7      *c. 90% of the sum of installed generating capacity plus firm capacity*  
8      *purchases.*

9

10 **Response)** The information originally requested in the above item of Appendix G of  
11 the December 2001 Order in Admin. Case 387 is no longer required pursuant to  
12 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,  
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1 **Item 6)**      *Based on the most recent demand forecast, the base case demand*  
2 *and energy forecasts and high case demand and energy forecasts for the*  
3 *current year and the following four years. The information should be*  
4 *disaggregated into*

5      *a. Native load (firm and non-firm demand) and*

6      *b. Off-system load (both firm and non-firm demand).*

7

8 **Response)** The attached Table 6-G tabulates the forecasted base case and high case  
9 demand and energy in the associated demand breakdowns as requested.

10

11

12 **Respondent)**      Ryan Wilhelmus

13

**Big Rivers Electric Corporation**  
**Administrative Case No. 2000-00387**  
**Table 6-G**  
**Total Native Load and Off-System Loads**  
**Base and High Case Forecasts**  
**Filed February 26, 2026**

	Native Load <sup>1</sup>				Off-System Load Demand <sup>4</sup>			
	Base Case <sup>2</sup>		High Case <sup>3</sup>		Base Case		High Case	
	Demand (MW)	Energy (MWH)	Demand (MW)	Energy (MWH)	Firm Demand (MW)	Non-Firm Demand (MW)	Firm Demand (MW)	Non-Firm Demand (MW)
2026	746.4	4,491,498	838.0	4,383,795	251	0	251.0	0
2027	751.9	4,527,736	841.6	4,419,426	100	0	100.0	0
2028	754.8	4,545,313	842.1	4,435,819	100	0	100.0	0
2029	758.1	4,565,773	843.1	4,455,342	100	0	100.0	0
2030	760.4	4,581,425	842.9	4,469,640	100	0	100.0	0

**Notes and Assumptions**

- 1 Native Load includes Block Mining, Inc.'s full load. Pursuant to the Retail Sales Agreement only a portion of that load is served at Big Rivers' LIC tariff and the remaining is served at Market Rate with the costs passed through to the customer.
- 2 Native Base Case:
  - Demand is the Coincident Peak without Transmission Losses
  - Demand is Big Rivers' forecasted peak coincident with MISO (MISO Requirement)
  - Demand is for Peak Demand Period, which is currently the Summer Period.
- 3 Native High Case:
  - Native High case represents the Extreme Weather Scenario from 2025 Long Term Load Forecast
  - Native High case Off-System Firm Demand (MW) same as Base Case
- 4 Firm Off-System Load Demand consists of executed long term sales of KYMEA, OMU, and Executed Net Bilateral Capacity Transactions.
  - Excess generation sales to MISO are not projected as they will be contingent upon unit availability at time of system peak and can vary significantly.

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

4

5 **Response)** MISO's seasonal construct, case number ER22-495-000 filed by MISO in  
6 November, 2021 and accepted by FERC in September 2022, introduced seasonal  
7 requirements to the Planning Resource Auction ("PRA") to account for the unique risk  
8 profile of each season.

9        As Big Rivers is summer peaking, the current summer target reserve margin  
10 used for planning purposes is 15.0% based on Installed Capacity ("ICAP")<sup>1</sup> Ratings of  
11 resources, and 7.9% based on Unforced Capacity ("UCAP")<sup>2</sup> Ratings, as specified by  
12 MISO for the upcoming planning year effective June 1, 2026.

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<sup>1</sup> ICAP represents physical generating capacity adjusted for ambient weather conditions (high level definition)

<sup>2</sup> UCAP represents the percentage of ICAP available after a unit's forced outage rate is taken into account (high level definition).

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1 As previously explained in Big Rivers' response to this request, MISO annually  
2 determines seasonal minimum Planning Reserve Margin ("PRM") that would result  
3 in the MISO system experiencing annually a less than one-day loss-of-load event  
4 ("LOLE") every 10 years, per the MISO Tariff. To determine the LOLE targets for  
5 each season that will be used to calculate the PRM and Local Reliability  
6 Requirements ("LRR"), MISO followed the process first solving the LOLE model to  
7 an annual value of 0.1 and then checking the seasonal distribution. If a season had  
8 an LOLE value of at least 0.01, then its target would be set to that LOLE. If a season  
9 had less than 0.01 LOLE, additional analysis was performed until the target of 0.01  
10 LOLE was met.

11 Table 2-2 below, reproduced from MISO's *Planning Year 2026–2027 Loss of*  
12 *Load Expectation Study Report*, shows the seasonal LOLE targets for LRZ 6 (the zone  
13 in which Big Rivers is located).<sup>3</sup>

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<sup>3</sup>Access the full report at [https://cdn.misoenergy.org/PY%202026-2027%20LOLE%20Study%20Report728909.pdf? t\\_id=FqQ9-QWgahfPTze4yVbPyg%3d%3d& t\\_uid=enk\\_sDCpSGKmNKR9TR5nCG& t\\_q=LOLE+study& t\\_tag=s=language%3aen%2csiteid%3a11c11b3a-39b8-4096-a233-c7daca09d9bf%2candquerymatch& t\\_hit.id=Optics Models Find RemoteHostedContentItem/728909& t\\_hit.pos=2t](https://cdn.misoenergy.org/PY%202026-2027%20LOLE%20Study%20Report728909.pdf? t_id=FqQ9-QWgahfPTze4yVbPyg%3d%3d& t_uid=enk_sDCpSGKmNKR9TR5nCG& t_q=LOLE+study& t_tag=s=language%3aen%2csiteid%3a11c11b3a-39b8-4096-a233-c7daca09d9bf%2candquerymatch& t_hit.id=Optics Models Find RemoteHostedContentItem/728909& t_hit.pos=2t)

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<b>Region</b>	<b>Summer</b>	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
MISO-wide	0.076	0.01	0.014	0.01
LRZ 1	0.093	0.01	0.01	0.01
LRZ 2	0.083	0.01	0.018	0.01
LRZ 3	0.097	0.01	0.01	0.01
LRZ 4	0.01	0.01	0.094	0.01
LRZ 5	0.01	0.01	0.079	0.013
LRZ 6	0.087	0.011	0.01	0.01
LRZ 7	0.090	0.01	0.01	0.01
LRZ 8	0.01	0.01	0.100	0.01
LRZ 9	0.01	0.01	0.079	0.01
LRZ 10	0.01	0.01	0.083	0.01

**Table 2-2: Planning Year 2026-2027 Seasonal LOLE Distribution**

1

2

3 Respondent) Ryan Wilhelmus

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1

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

7

8 **Response)** Please see Table 1, below. Reserve Margin MWs are calculated as  
9 summer seasonally accredited capacity ("SAC") of available resources minus Base  
10 Demand and net Firm Capacity Sales.

11 Big Rivers will make bilateral capacity purchases or participate in the annual  
12 MISO Planning Resource Auction to alleviate any shortages and will meet the MISO  
13 Planning Reserve Margin Requirements including transmission losses.

14

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<b>Year</b>	<b>Reserve Margin (Summer SAC MW)<sup>1</sup></b>	<b>Reserve Margin (%)</b>	<b>MISO Reserve Margin Requirement<sup>2</sup> (UCAP%)</b>	<b>Firm Capacity Purchases<sup>3</sup> (MW)</b>	<b>Projected Purchases<sup>4</sup> (MW)</b>	<b>Projected Deficit (MW)</b>
2026	4	0.6%	9.4%	178		0
2027	150	20.2%	9.4%	178		0
2028	100	13.5%	5.9%	178		0
2029	123	16.4%	5.9%	178		0
2030	96	12.9%	5.9%	178		0

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3  
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**Respondent) Ryan Wilhelmus**

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<sup>1</sup> Reserve Margin includes BREC Tariff Load, EDR Load, and Off-System Contracts (No Nebraska) less 2026 SAC Accreditation Values. It does not include Industrial Load served at Market Rates as these costs are passed through to the Load Customer. It does not include Transmission Losses or MISO Planning Reserve Margin Requirements.

<sup>2</sup> MISO Reserve Margin Requirement includes Transmission Losses. PRMR remains at 2026 levels through 2027 where it decreases to anticipated levels when MISO implements direct loss of load (DLOL) accreditation methodology which will reduce PRM percentage.

<sup>3</sup> Southeastern Power Administration ("SEPA") Cumberland Hydropower allocation at 2026 accredited capacity.

<sup>4</sup> Projected Purchases in MISO Annual Planning Resource Auction or Bilateral Market to Meet PRMR.

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1 **Item 9)** *By date and hour, identify all incidents during the just completed*  
2 *calendar year when reserve margin was less than the East Central Area*  
3 *Reliability Council's ("ECAR") 1.5% spinning reserve requirement. Include*  
4 *the amount of capacity resources that were available, the actual demand on*  
5 *the system, and the reserve margin, stated in megawatts and as a percentage*  
6 *of demand. Also, identify system conditions at the time.*

7

8 **Response)** The information originally requested in the above item of Appendix G of  
9 the December 2001 Order in Admin. Case 387 is no longer required pursuant to  
10 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,  
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14 **Respondent)** Ryan Wilhelmus

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1 **Item 10)** *A list identifying and describing all forced outages in excess of*  
2 *two hours in duration during the just completed calendar year.*

3

4 **Response)** The information originally requested in the above item of Appendix G of  
5 the December 2001 Order in Admin. Case 387 is no longer required pursuant to  
6 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,  
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10 **Respondent)** Jack Stephens

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

3

4 **Response)** The planned maintenance outage schedule for 2026 through 2030 is  
5 being filed with a Motion for Confidential Treatment. The schedule is regularly  
6 modified based on actual operating conditions, forced outages, changes in the  
7 schedule required to meet environmental regulation compliance, fluctuation in  
8 wholesale capacity and energy prices, and other unforeseen events that may affect  
9 unit reliability or generation capacity. The scheduled outages are listed in the tables  
10 which follow.

11

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1

2

**Wilson Unit 1**

2026	
2027	
2028	
2029	
2030	

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4

**Green Unit 1**

2026	
2027	
2028	
2029	
2030	

5

6

**Green Unit 2**

2026	
2027	
2028	
2029	
2030	

7

8 **Respondent)** Jack Stephens

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1 **Item 12)** *Identify all planned base load or peaking capacity additions to*  
2 *meet native load requirements over the next 10 years. Show the expected in-*  
3 *service date, size, and site for all planned additions. Include additions*  
4 *planned by the utility, as well as those by affiliates, if constructed in*  
5 *Kentucky or intended to meet load in Kentucky.*

6

7 **Response)** Big Rivers is currently performing its IRP analysis that will be  
8 submitted to the Commission later in 2026. This analysis will evaluate the need for  
9 any future capacity additions with the selected portfolio identifying those resources.  
10 Currently, Big Rivers does not have any plans to add any base load or peaking  
11 capacity resources.

12

13

14 **Respondent)** Ryan Wilhelmus

**BIG RIVERS ELECTRIC CORPORATION**

**SUPPLEMENTAL INFORMATION PROVIDED WITH  
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT  
PURSUANT TO ADMINISTRATIVE CASE NO. 2000-00387 –  
ELECTRONIC REVIEW OF THE ADEQUACY OF KENTUCKY'S  
GENERATION CAPACITY AND TRANSMISSION SYSTEM**

**Response to Commission Staff's Information Request  
as set forth in  
Appendix G of the Commission's Order dated December 20, 2001**

**February 26, 2026**

1 Item 13) *The following transmission energy data for the just completed*  
2 *calendar year and the forecast for the current year and the following four*  
3 *years:*

4 a. *Total energy received from all interconnections and generation*  
5 *sources connected to the transmission system;*

6 b. *Total energy delivered to all interconnections on the transmission*  
7 *system;*

8 c. *Peak load capacity of the transmission system; and*

9 d. *Peak demand for summer and winter seasons on the transmission*  
10 *system.*

11

**BIG RIVERS ELECTRIC CORPORATION**

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**Response to Commission Staff's Information Request  
as set forth in  
Appendix G of the Commission's Order dated December 20, 2001**

**February 26, 2026**

1 Response)

2 a.

<u>Transmission System Energy Received (MWh)</u>			
	<u>Generation</u>	<u>Interconnections</u>	<u>Total</u>
2025	3,050,412	12,455,359	15,505,771
<u>Projected System Energy Received (MWh)</u>			
2026			16,536,883
2027			16,799,683
2028			17,035,523
2029			17,035,523
2030			17,035,523

3

4 b.

<u>Transmission System Energy Delivered at Interconnections (MWh)</u>	
	<u>Total</u>
2025	7,684,092
<u>Projected System Energy Delivered at Interconnection (MWh)</u>	
2026	7,946,892
2027	8,025,036
2028	9,361,572
2029	9,433,572
2030	9,433,572

**BIG RIVERS ELECTRIC CORPORATION**

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ELECTRONIC REVIEW OF THE ADEQUACY OF KENTUCKY'S  
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**February 26, 2026**

1

2 c.

<u>Transmission Peak Capacity (MW)</u>	
2025	2903
<u>Projected Transmission Peak Capacity (MW)</u>	
2026	2903
2027	3053
2028	3203
2029	3203
2030	3203

3

4 d.

<u>Transmission System Peak Demand (MW)</u>		
	<u>Winter</u>	<u>Summer</u>
2025	1341	1320
<u>Projected System Peak Demand (MW)</u>		
	<u>Winter</u>	<u>Summer</u>
2026	1299	1310
2027	1401	1414
2028	1503	1517
2029	1506	1521
2030	1507	1524

5

6 Respondent) Jeffrey K. Fulkerson

**BIG RIVERS ELECTRIC CORPORATION**

**SUPPLEMENTAL INFORMATION PROVIDED WITH  
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT  
PURSUANT TO ADMINISTRATIVE CASE NO. 2000-00387 –  
ELECTRONIC REVIEW OF THE ADEQUACY OF KENTUCKY'S  
GENERATION CAPACITY AND TRANSMISSION SYSTEM**

**Response to Commission Staff's Information Request  
as set forth in  
Appendix G of the Commission's Order dated December 20, 2001**

**February 26, 2026**

1 **Item 14)** *Identify all planned transmission capacity additions for the next*  
2 *ten years. Include the expected in-service date, size and site for all planned*  
3 *additions and identify the transmission need each addition is intended to*  
4 *address.*

5

6 **Response)** A confidential listing of Big Rivers' planned Transmission Capacity  
7 Additions for 2026 through 2035 is being filed with a Motion for Confidential  
8 Treatment.

9

10

11 **Respondent)** Jeffrey K. Fulkerson

12



**In the Matter of:**

<b>A REVIEW OF THE ADEQUACY OF</b>	)	<b>Administrative</b>
<b>KENTUCKY'S GENERATION CAPACITY</b>	)	<b>Case No.</b>
<b>AND TRANSMISSION SYSTEM</b>	)	<b>2000-00387</b>

**SUPPLEMENTAL INFORMATION PROVIDED WITH  
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT  
PURSUANT TO ADMINISTRATIVE CASE NO. 2000-00387**

## **CONFIDENTIAL RESPONSE**

**Attachment to Item 14 of the  
Commission Staff's Information Request  
as set forth in Appendix G of the  
Commission's Order dated December 20, 2001  
FILED: February 26, 2026**

**INFORMATION FILED WITH  
MOTION FOR CONFIDENTIAL TREATMENT**

**BIG RIVERS ELECTRIC CORPORATION**

**SUPPLEMENTAL INFORMATION PROVIDED WITH  
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT  
PURSUANT TO ADMINISTRATIVE CASE NO. 2000-00387 –  
A REVIEW OF THE ADEQUACY OF KENTUCKY'S GENERATION  
CAPACITY AND TRANSMISSION SYSTEM**

**Response to Commission Staff's Information Request  
as set forth in  
Appendix G of the Commission's Order dated December 20, 2001**

**February 26, 2026**

1 Supplemental Item 1) *Provide a detailed discussion of the consideration*  
2 *given to price elasticity in the forecasted demand, energy, and reserve margin*  
3 *information above.*

4

5 **Response)** The information originally requested by letter dated May 13, 2013, in  
6 Admin. Case 387 is no longer required pursuant to Ordering Paragraph No. 2 of the  
7 Commission's Order dated April 8, 2022, relieving the parties from the annual price  
8 elasticity reporting requirement.

9

10

11 **Respondent)** Ryan Wilhelmus.

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