



2023 SPP RESOURCE ADEQUACY REPORT

Published on June 15, 2023

SPP Resource Adequacy

CONTENTS

| | | |
|----|--|---|
| 1. | Executive Summary | 1 |
| 2. | About SPP | 2 |
| 3. | SPP 2023 - 2028 Summer Season Outlook..... | 3 |
| 4. | Fuel Type Summary | 7 |
| 5. | Load Responsible Entities | 9 |

LIST OF FIGURES

| | |
|---|---|
| Figure 1: Map of SPP Balancing Authority area | 2 |
| Figure 2: SPP BA Area Planning Reserve Margin Summary | 3 |
| Figure 3: Demand, Requirement, and Capacity Summary..... | 4 |
| Figure 4: LRE by Reserve Margin..... | 5 |
| Figure 5: Net Peak Demand by LRE | 6 |
| Figure 6: 2028 Summer Season Fuel Type Summary..... | 7 |
| Figure 7: 2023 Summer Season Fuel Type Summary..... | 7 |

LIST OF TABLES

| | |
|--|---|
| Table 1: SPP 2023 to 2028 Summer Season Outlook | 4 |
| Table 2: Summer Season Fuel Type Summary | 8 |
| Table 3: Summer Season Resource Retirement Summary | 8 |

1. EXECUTIVE SUMMARY¹

Attachment AA² of the Southwest Power Pool, Inc. (SPP) Open Access Transmission Tariff (Tariff) requires a Load Responsible Entity (LRE) to maintain adequate capacity to meet its Resource Adequacy Requirement for the upcoming Summer Season. Maintaining appropriate planning reserves ensures that SPP will have sufficient capacity to serve peak demand obligations. The purpose of this report is to provide the status of each LREs compliance with the Resource Adequacy Requirement as well as an SPP Balancing Authority (BA) Area outlook for the 2023–2028 Summer Seasons.

All LREs have complied with the Resource Adequacy Requirement for the 2023 Summer Season.

The Planning Criteria defines the Planning Reserve Margin (PRM) as 15% for each LRE, unless the LREs capacity is comprised of at least 75% hydro-based generation, in which case the PRM for the LRE is 9.89%.³ For the 2023 Summer Season, there are sixty (60) LREs with a 15% PRM requirement and one (1) LRE with a 9.89% PRM requirement.⁴ The SPP BA Area Planning Reserve Margin is 20.1% for the 2023 Summer Season and decreases to 9.7% by planning year 2028. The SPP BA Area Planning Reserve Margin determined from the 2023 Summer Season submissions has decreased 1.9% from the 2022 Summer Season when the Planning Reserve Margin was 22.0%. The slight decrease is mainly due to the increase in the aggregated LREs Peak Demand compared to the previous year's forecast.

The 2024 to 2028 yearly values do not reflect all possible future generation currently being analyzed in the Generation Interconnection (GI) Queue, reoccurring Deliverable Capacity contracts used to meet the Resource Adequacy Requirement, modification to the PRM, and the effects of the Effective Load Carrying Capability (ELCC) and Performance Based Accreditation (PBA) policies.

¹ Terms used throughout this report are as defined in the Tariff, SPP Planning Criteria, or Resource Adequacy Workbook Instruction Manual.

² Link to Attachment AA: <https://spp.org/documents/58597/attachment%20aa%20tariff.pdf>

³ Link to SPP Planning Criteria: <https://www.spp.org/spp-documents-filings/?id=18162>

⁴ Western Area Power Administration – Upper Great Plains (UGP) Region

2. ABOUT SPP

The SPP⁵ BA Area covers 552,885 square miles and encompasses all or parts of Arkansas, Iowa, Kansas, Louisiana, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas and Wyoming. The SPP footprint has more than 72,000 miles of transmission lines, 949 generation resources, 5,180 transmission-class substations, and serves a population of 19 million people.



Figure 1: Map of SPP Balancing Authority Area

⁵ Link to SPP website: <https://www.spp.org/about-us/>

3. SPP 2023 - 2028 SUMMER SEASON OUTLOOK

The SPP BA Area Planning Reserve Margin is 20.1% for the 2023 Summer Season and decreases to 9.7% by planning year 2028. The SPP BA Area Planning Reserve Margin determined from the 2023 Summer Season submissions has decreased 1.9% from the 2022 Summer Season where the Planning Reserve Margin was 22.0%. The total capacity for the SPP BA has been determined to be 64,822 MW in 2023 and decreases to 63,149 MW in 2028. The accredited amount of purchased Deliverable Capacity utilized by LREs to meet their Resource Adequacy Requirement is 2,311 MW for the 2023 Summer Season and 94 MW for the 2024 Summer Season, in which accredited wind accounts for 667 MW in the 2023 Summer Season and 80 MW in the 2024 Summer Season. For the 2023 Summer Season, the reliance on Deliverable Capacity has increased by 1,283 MW compared to the 2022 Summer Season.

The 2024 to 2028 yearly values do not reflect all possible future generation currently being analyzed in the Generation Interconnection (GI) Queue, reoccurring Deliverable Capacity contracts used to meet the Resource Adequacy Requirement, and the effects of the Effective Load Carrying Capability (ELCC) and Performance Based Accreditation (PBA) policies.

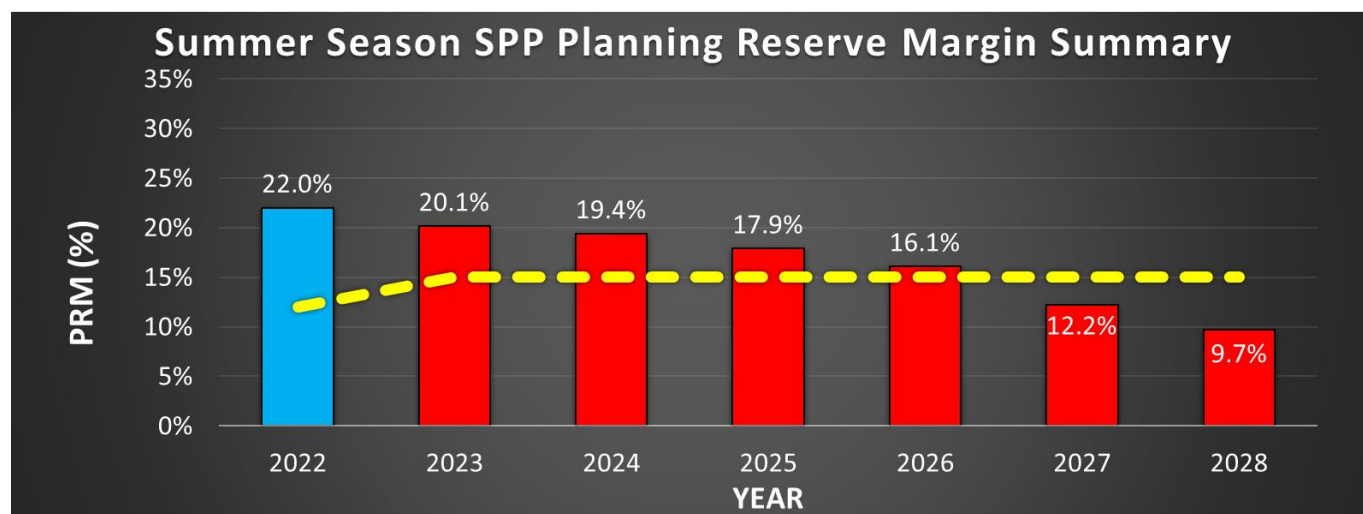


Figure 2: SPP BA Area Planning Reserve Margin Summary

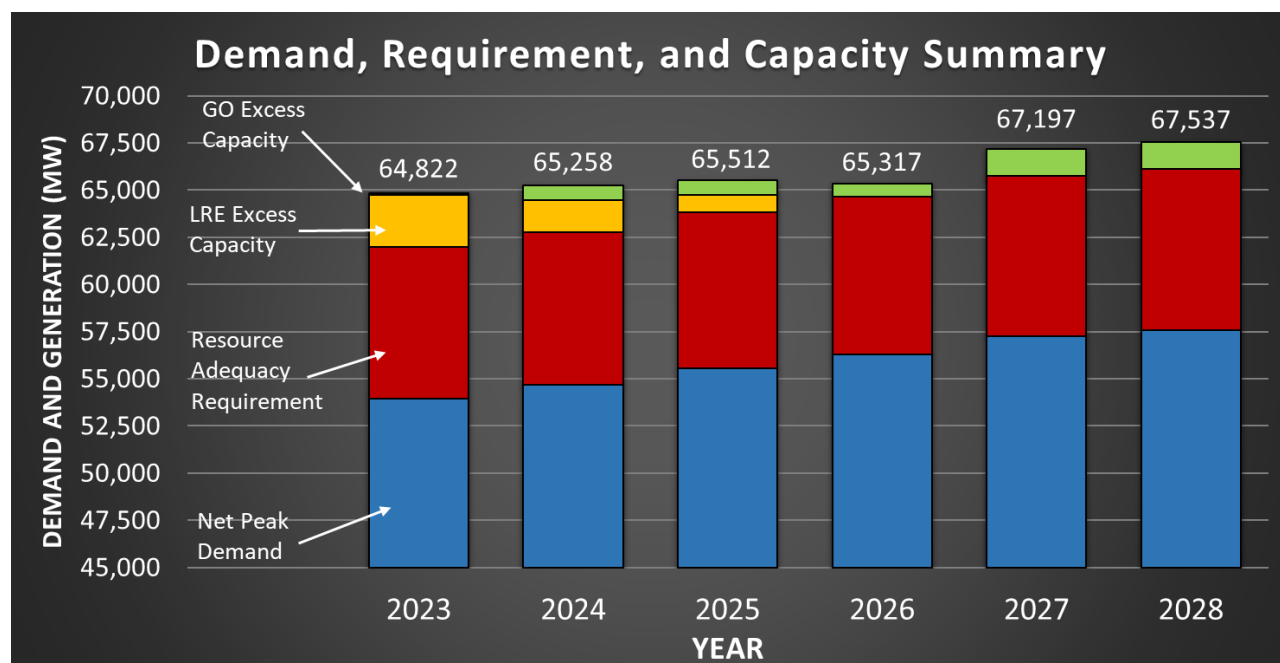


Figure 3: Demand, Requirement, and Capacity Summary

Based on LRE and GO 2023 data submittals, by the 2026 summer season, no excess capacity from LREs will be available and by 2027 summer the SPP system as a whole will not be able to meet the 15% PRM. The sum of LRE and GO excess in 2027 and 2028 are negative values. In 2026, the LRE excess is being shown as -166 MW and the GO excess is 690 MW. In 2027, the LRE excess is -2,964 MW and the GO excess is 1,436 MW. Thus the total Capacity in 2027 is 64,233 MW. In 2028, the LRE excess is -4,389 MW and the GO excess is 1,436 MW. Thus the total Capacity in 2028 is 63,149 MW.

Table 1: SPP 2023 to 2028 Summer Season Outlook

| Demand Summary (Units – MW) | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|---|--------|--------|--------|--------|--------|--------|
| Total LRE Forecasted Net Peak Demand | 53,954 | 54,661 | 55,575 | 56,270 | 57,256 | 57,552 |
| Controllable and Dispatchable Demand Response ⁶ | 829 | 1,353 | 1,489 | 1,772 | 1,798 | 1,807 |
| Energy Efficiency and Conservation | 249 | 324 | 384 | 435 | 480 | 517 |
| Stand-by Load Under Contract | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 |
| Capacity Summary (Units – MW) | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
| Total Capacity ⁷ | 64,822 | 63,380 | 63,357 | 61,707 | 59,630 | 57,430 |
| Capacity Resources ⁶ | 64,076 | 64,746 | 64,980 | 64,765 | 63,740 | 62,651 |
| Confirmed Retirements | 122 | 382 | 382 | 382 | 382 | 382 |
| Unconfirmed Retirements | 0 | 1,878 | 2,155 | 3,610 | 4,603 | 5,719 |
| Other Capacity Adjustments – Additions | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Capacity Adjustments – Reductions | 128 | 128 | 128 | 128 | 128 | 128 |
| External Firm Capacity Purchases | 259 | 304 | 324 | 344 | 344 | 349 |
| External Firm Capacity Sales | 617 | 592 | 592 | 592 | 592 | 592 |
| External Firm Power Purchases | 1,355 | 1,355 | 1,354 | 1,354 | 1,295 | 1,295 |
| External Firm Power Sales | 0 | 0 | 0 | 0 | 0 | 0 |
| SPP BA Area Planning Reserve ⁸ | 20.1% | 19.4% | 17.9% | 16.1% | 12.2% | 9.7% |
| Planning Reserve Margin (As specified in SPP Planning Criteria) | 15% | 15% | 15% | 15% | 15% | 15% |
| Total LRE Resource Adequacy Requirement | 61,970 | 62,783 | 63,828 | 64,627 | 65,761 | 66,102 |
| Total LRE Excess Capacity | 2,784 | 1,694 | 904 | -166 | -2,964 | -4,389 |
| Total Generator Owner Excess Capacity (Excludes Generator Owner uncommitted Deliverable Capacity of wind resources) | 67 | 781 | 780 | 856 | 1,436 | 1,436 |

⁶ Demand Response Accredited MW is up 381 MW from the 2022 submittals. Over the next 5 years the accredited amount is expected to increase by approximately 1,000 MW.

⁷ The Total Capacity and Capacity Resource values contain the Firm Capacity and Deliverable Capacity from LREs and Generator Owners. The equation for calculating the Total Capacity is as follows: Capacity Resources – Confirmed Retirements – Unconfirmed Retirements + Other Capacity Adjustments (Additions) – Other Capacity Adjustments (Reductions) + External Firm Capacity Purchases – External Firm Capacity Sales + External Firm Power Purchases – External Firm Power Sales

⁸ The SPP BA Area Planning Reserve is calculated by dividing the difference between the (Total Capacity + Unconfirmed Retirements) and the Total LRE Forecasted Net Peak Demand by the Total LRE Forecasted Net Peak Demand.

For the 2023 Summer Season, each LRE has to meet either a 9.89% or 15% Resource Adequacy Requirement. Figure 4 below breaks out two different Planning Reserve Margin percentage subgroups and reflects the number of LREs within this grouping. The Planning Reserve Margin categories are 'between 15% – 20%' and 'greater than 20%'.

- There are twenty-four (24) LREs that had a Planning Reserve Margin in the 'between 15% – 20%' category.
- There are thirty-five (35) LREs that had a Planning Reserve Margin in the 'greater than 20%' category.

In comparing these values, there were 22 LREs that had less than a 20% PRM in 2022 versus 24 LREs in the 2023 submissions.

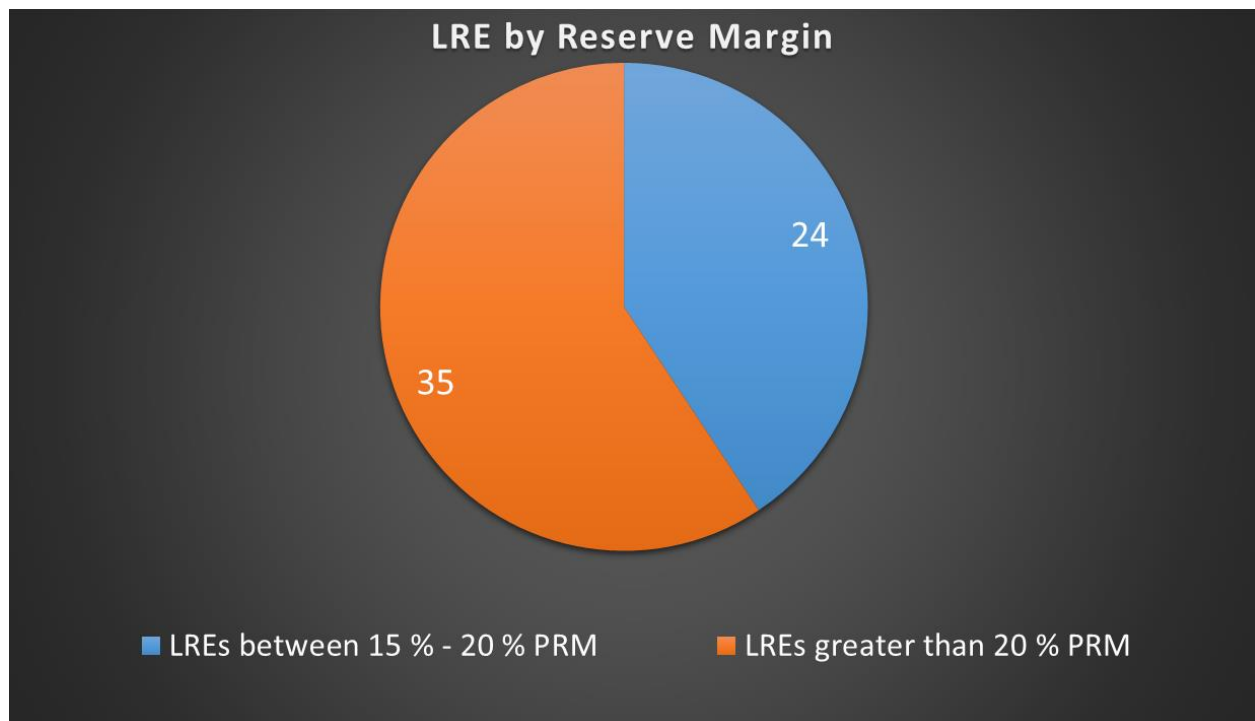


Figure 4: LRE by Reserve Margin

Figure 5 below is a breakdown of the amount of capacity in MW for the Net Peak Demand that makes up each Planning Reserve Margin category. The Planning Reserve Margin categories considered are 'between 15% – 20%' and 'greater than 20%'.

- There are 32,858 MWs of Net Peak Demand from LREs which had a Planning Reserve Margin 'between 15% – 20%'.
- There are 21,096 MWs of Net Peak Demand from LREs which had a Planning Reserve Margin 'greater than 20%'.

For comparison, the amount of load carrying less than 20% PRM has increased from 32,858 MWs of Net Peak Demand in 2023 versus 29,198 MWs in the 2022 submissions. Thus more LREs are planning closer to the PRM in the 2023 submissions.

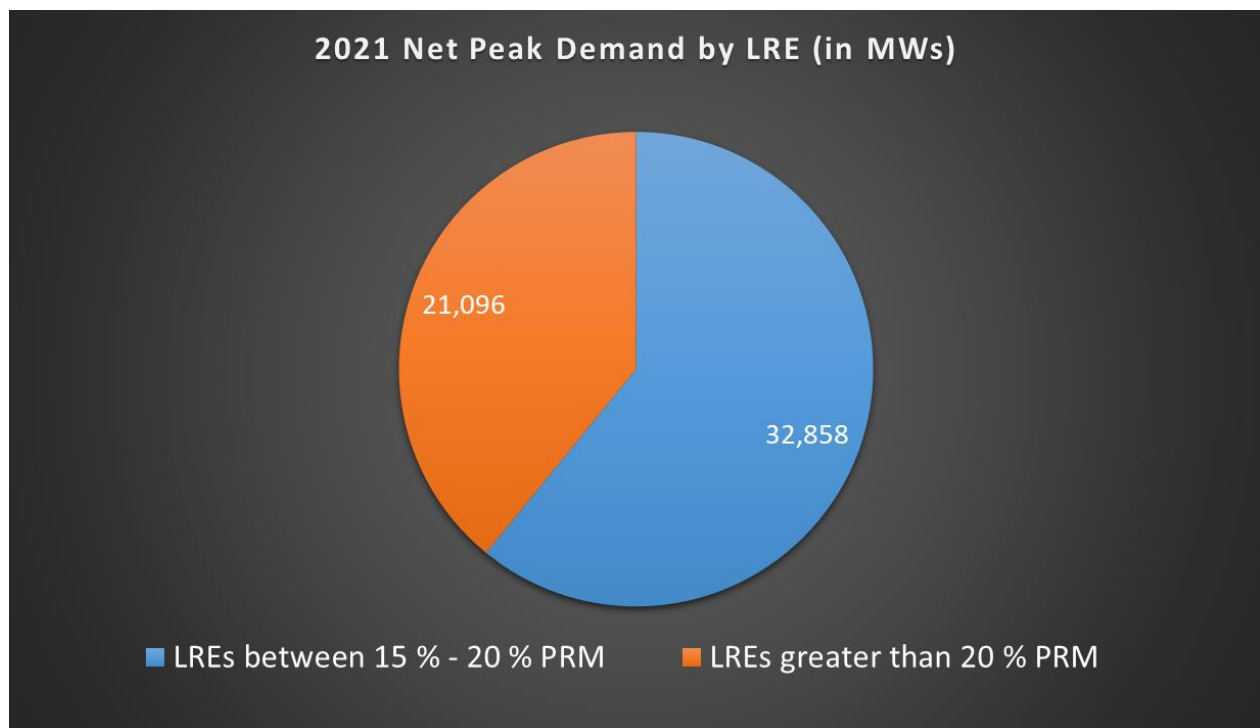


Figure 5: Net Peak Demand by LRE

4. FUEL TYPE SUMMARY

The values shown below are based on the accredited LRE and Generator Owner generation for the 2023-2028 Summer Seasons. All values reflect LRE and Generator Owner accredited capacity, which includes the consideration of generator retirements, Firm Power and Firm Capacity purchases and sales external to the SPP BA. The accredited⁹ wind and solar values below reflect capacity used to serve the LREs Resource Adequacy Requirement and are not based on the Effective Load Carrying Capability (ELCC) methodology. SPP LREs and Generator Owners expect to retire 6,101 MWs of accredited capacity by the end of 2028, when considering retirements since October 1, 2022. However, the amount of actual retirements in future years could be greater due to environmental regulation policy or individual LRE needs and decisions. The 2023 Summer Season wind accreditation is 5,073 MW which is an increase of 530 MW from the 4,543 MW claimed for 2022.

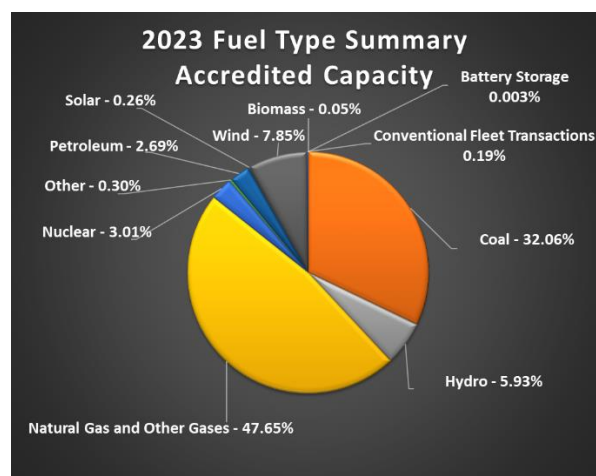


Figure 7: 2023 Summer Season Fuel Type Summary

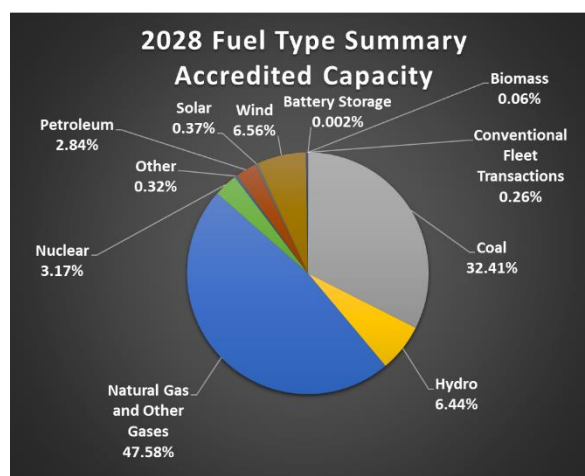


Figure 6: 2028 Summer Season Fuel Type Summary

⁹ Based on the accreditation methodology in section 7.1 of the SPP Planning Criteria.

Table 2: Summer Season Fuel Type Summary

| Fuel Type | Unit | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|--|-----------|---------------|---------------|---------------|---------------|---------------|---------------|
| Battery Storage | MW | 2 | 1 | 1 | 1 | 1 | 1 |
| Biomass | MW | 35 | 35 | 35 | 35 | 35 | 35 |
| Coal | MW | 20,705 | 21,440 | 21,441 | 21,440 | 20,922 | 19,869 |
| Hydro ¹⁰ | MW | 3,829 | 3,947 | 3,947 | 3,947 | 3,946 | 3,946 |
| Natural Gas | MW | 30,776 | 30,133 | 30,457 | 30,225 | 29,174 | 29,174 |
| Nuclear | MW | 1,944 | 1,944 | 1,944 | 1,944 | 1,944 | 1,944 |
| Other | MW | 194 | 194 | 194 | 194 | 194 | 194 |
| Petroleum | MW | 1,738 | 1,752 | 1,752 | 1,753 | 1,747 | 1,743 |
| Solar ¹¹ | MW | 170 | 224 | 224 | 224 | 224 | 224 |
| Wind ¹¹ | MW | 5,073 | 4,229 | 4,140 | 4,081 | 4,051 | 4,019 |
| Conventional Based Net External Transactions | MW | 122 | 167 | 187 | 207 | 157 | 162 |
| Total Accredited Capacity | MW | 64,589 | 64,068 | 64,322 | 64,052 | 62,396 | 61,311 |

Table 3: Summer Season Resource Retirement Summary

| Confirmed Retirements | Unit | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|-----------------------------------|-----------|------------|--------------|--------------|--------------|--------------|--------------|
| Coal | MW | 0 | 0 | 0 | 0 | 0 | 0 |
| Natural Gas | MW | 122 | 382 | 382 | 382 | 382 | 382 |
| Petroleum | MW | 0 | 0 | 0 | 0 | 0 | 0 |
| Unconfirmed Retirements | Unit | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
| Coal | MW | 0 | 1,486 | 1,601 | 2,366 | 2,839 | 3,955 |
| Natural Gas | MW | 0 | 163 | 325 | 1,015 | 1,534 | 1,534 |
| Petroleum | MW | 0 | 229 | 229 | 229 | 229 | 229 |
| Total Resource Retirements | MW | 122 | 2,261 | 2,537 | 3,993 | 4,985 | 6,101 |

¹⁰ Includes Hydro Based external Firm Capacity and Firm Power transactions¹¹ Excludes Generator Owner uncommitted Deliverable Capacity of wind and solar resources. Future values of wind and solar do not consider future SPP ELCC Policy

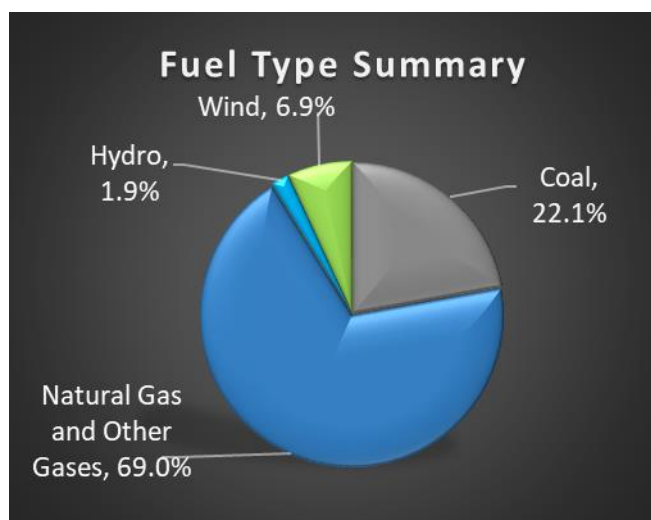
5. LOAD RESPONSIBLE ENTITIES

A list of LREs is provided below, followed by Resource Adequacy Requirement calculation and fuel type summaries for the 2023 Summer Season for each LRE. The fuel type summaries consider resource retirements, Firm Power and Firm Capacity purchases and sales external and internal to the SPP BA where there is a specific fuel type associated with the transaction. Some LREs listed below do not have a fuel type summary because the LREs Net Peak Demand is being met with controllable and dispatchable demand response programs and/or controllable and dispatchable behind-the-meter generation not registered as a Resource, or internal Firm Power purchases which places the load and planning reserve obligation on the selling entity. Capacity Resources are made up of Deliverable Capacity and Firm Capacity Resources in the Resource Adequacy Requirement calculation and fuel type summaries for each LRE.

American Electric Power
Arkansas Electric Cooperative Corporation
Basin Electric Power Cooperative
Big Rivers Electric Corporation
Carthage Water & Electric Plant, Missouri
City of Beatrice, Nebraska
City of Chanute, Kansas
City of Falls City Utilities, Nebraska
City of Fremont, Nebraska
City of Grand Island Utilities, Nebraska
City of Hastings Utilities, Nebraska
City of Malden Board of Public Works, Missouri
City of Nebraska City Utilities, Nebraska
City of Neligh, Nebraska
City of Nixa, Missouri
City of Piggott – Municipal Light Water & Sewer, Arkansas
City of Poplar Bluff Municipal Utilities, Missouri
City of Pratt, Kansas
City of Scribner, Nebraska
City of South Sioux City, Nebraska
City of Superior, Nebraska
City of West Plains Board of Public Works, Missouri
City Utilities of Springfield, Missouri
East and North Texas Electric Cooperatives
Empire District Electric Company (Liberty Utilities)
Golden Spread Electric Cooperative
Grand River Dam Authority

Harlan Municipal Utilities
Heartland Consumers Power District
Independence Power & Light
Kansas City Board of Public Utilities
Kansas City Power & Light (*includes Greater Missouri Operations Company*)
Kansas Electric Power Cooperative
Kansas Municipal Energy Agency – EMP1
Kansas Municipal Energy Agency – EMP2
Kansas Municipal Energy Agency – EMP3
Kansas Municipal Energy Agency – Eudora
Kansas Power Pool
Kennett, Missouri Board of Public Works
Lincoln Electric System
MidAmerican Energy Company
Midwest Energy, Inc.
Missouri Joint Municipal Electric Utility Commission
Missouri River Energy Services
Municipal Energy Agency of Nebraska
Nebraska Public Power District
Northwestern Energy – NWMT
Northwestern Energy – NWPS
NSP Energy Marketing
Oklahoma Gas & Electric Company
Oklahoma Municipal Power Authority
Omaha Public Power District
Otter Tail Power Company
Paragould, Arkansas Light & Water Commission
People's Electric Cooperative
Southwestern Public Service Company
Sunflower Electric Power Corporation
Westar Energy
Western Area Power Administration – UGP
Western Farmers Energy Services
West Texas Municipal

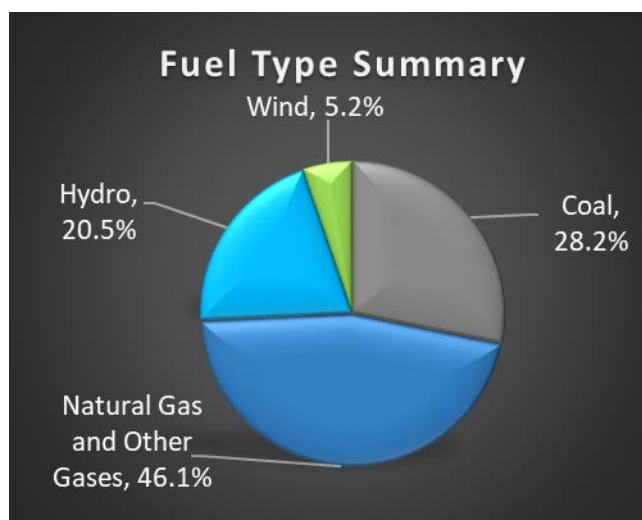
AMERICAN ELECTRIC POWER



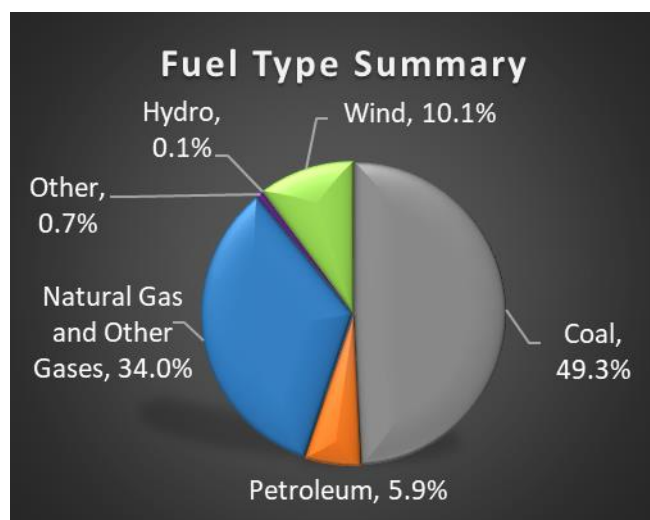
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|---------------|
| Capacity Resources | MW | 7,942 |
| Firm Capacity Purchases | MW | 1,563 |
| Deliverable Capacity Purchases | MW | 588 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 126 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 10,219 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 8,847 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 102 |
| Controllable and Dispatchable DR | MW | 104 |
| Net Peak Demand | MW | 8,641 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 9,937 |
| Excess Capacity | MW | 282 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 18.26 |
| Planning Reserve Margin | % | 15.00 |

ARKANSAS ELECTRIC COOPERATIVE CORPORATION

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 738 |
| Firm Capacity Purchases | MW | 209 |
| Deliverable Capacity Purchases | MW | 23.5 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 217 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 1,188 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 1,017 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 13 |
| Net Peak Demand | MW | 1,004 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 1,155 |
| Excess Capacity | MW | 32.6 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 18.25 |
| Planning Reserve Margin | % | 15.00 |



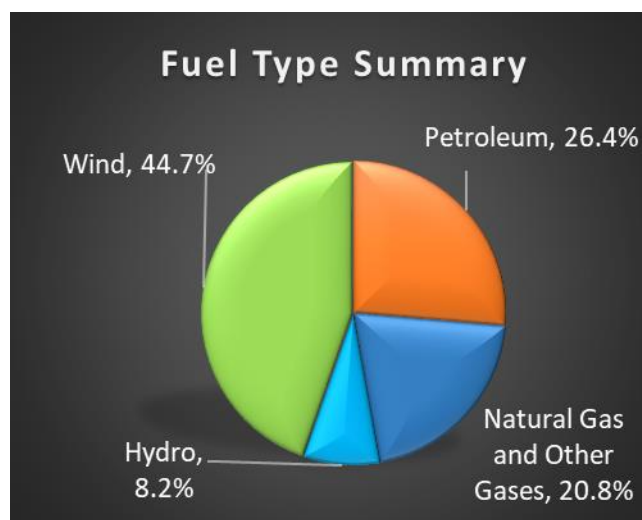
BASIN ELECTRIC POWER COOPERATIVE



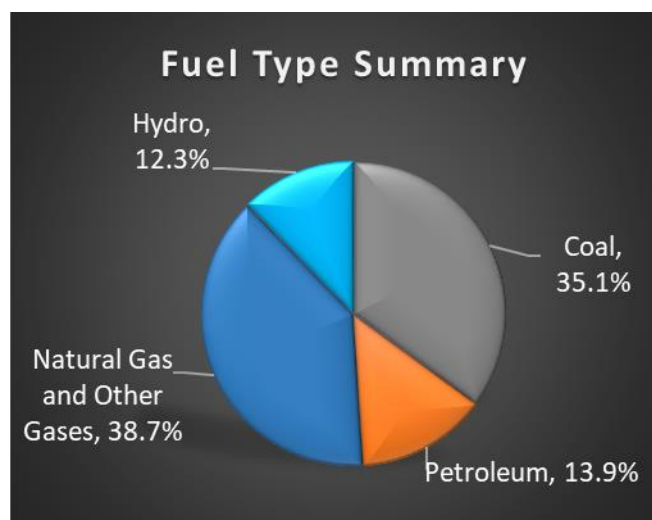
| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|--------------|
| Capacity Resources | MW | 3,574 |
| Firm Capacity Purchases | MW | 948 |
| Deliverable Capacity Purchases | MW | 54 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 4,576 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 3,636 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 4 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 3,632 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 4,177 |
| Excess Capacity | MW | 399 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 26.00 |
| Planning Reserve Margin | % | 15.00 |

BIG RIVERS ELECTRIC CORPORATION

| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 25 |
| Firm Capacity Purchases | MW | 72 |
| Deliverable Capacity Purchases | MW | 10 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 107 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 100 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 7 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 92 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 106 |
| Excess Capacity | MW | 1 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 16.18 |
| Planning Reserve Margin | % | 15.00 |



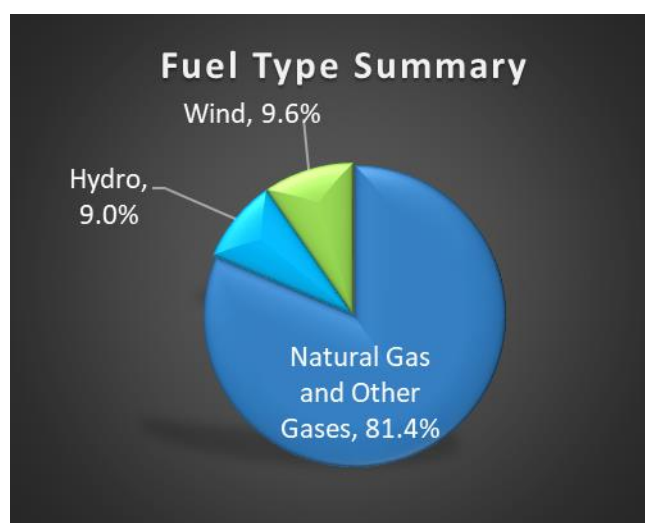
CARTHAGE WATER & ELECTRIC PLANT, MISSOURI



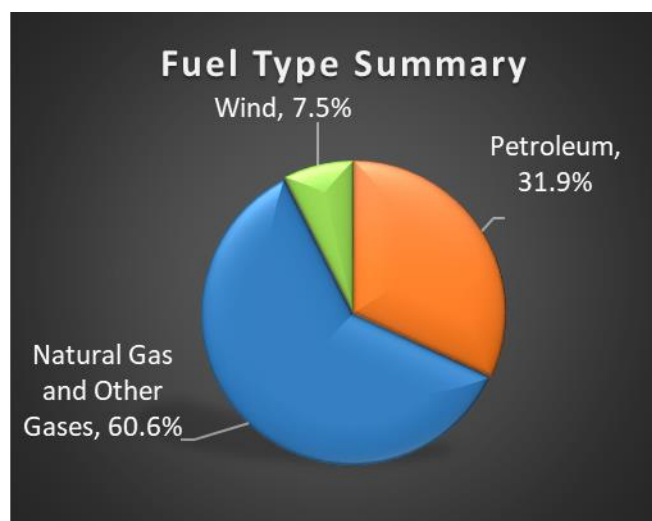
| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|-----------|------|
| Capacity Resources | MW | 32 | |
| Firm Capacity Purchases | MW | 33 | |
| Deliverable Capacity Purchases | MW | 2 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 8 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 76 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 63 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 63 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 72 | |
| Excess Capacity | MW | 3 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 20.48 | |
| Planning Reserve Margin | % | 15.00 | |

CITY OF BEATRICE, NEBRASKA

| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|-----------|------|
| Capacity Resources | MW | 0 | |
| Firm Capacity Purchases | MW | 46 | |
| Deliverable Capacity Purchases | MW | 2 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 48 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 40 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 5 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 35 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 41 | |
| Excess Capacity | MW | 8 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 36.40 | |
| Planning Reserve Margin | % | 15.00 | |



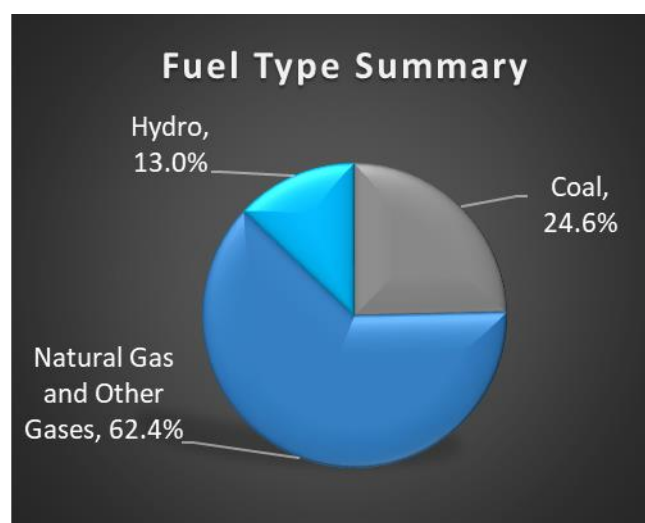
CITY OF CHANUTE, KANSAS



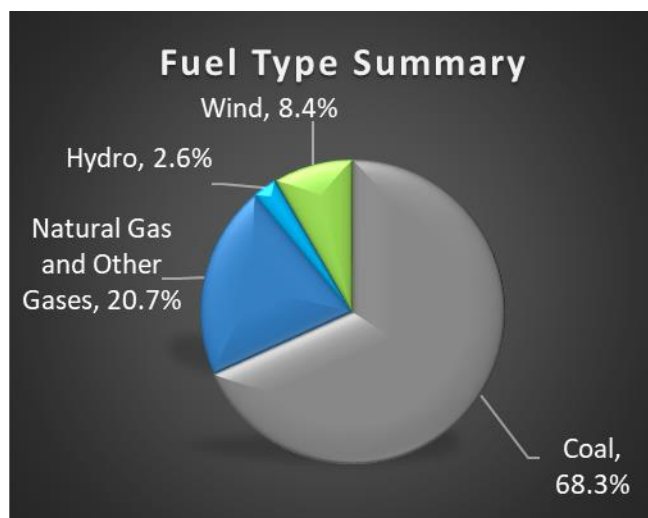
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|------------|
| Capacity Resources | MW | 124 |
| Firm Capacity Purchases | MW | 10 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 15 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 119 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 98 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 2 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 96 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 110 |
| Excess Capacity | MW | 9 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 24.41 |
| Planning Reserve Margin | % | 15.00 |

CITY OF FALLS CITY UTILITES, NEBRASKA

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|-----------|
| Capacity Resources | MW | 14 |
| Firm Capacity Purchases | MW | 6 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 20 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 14 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 3 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 11 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 13 |
| Excess Capacity | MW | 7 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 76.67 |
| Planning Reserve Margin | % | 15.00 |



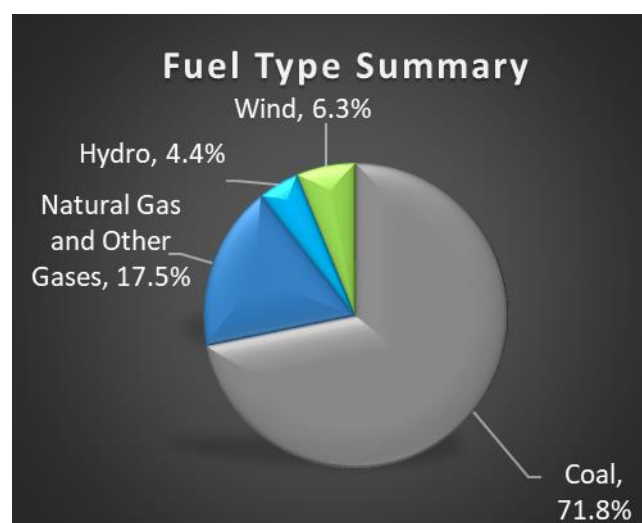
CITY OF FREMONT, NEBRASKA



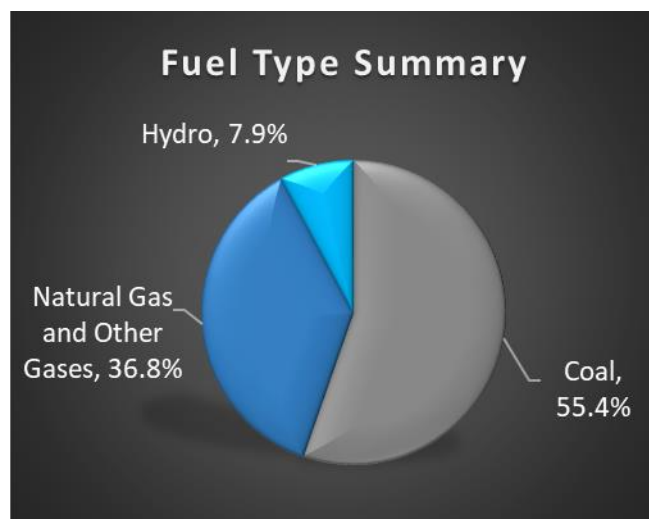
| Capacity Summary | | Unit | 2023 |
|----------------------------------|--|-----------|------------|
| Capacity Resources | | MW | 162 |
| Firm Capacity Purchases | | MW | 15 |
| Deliverable Capacity Purchases | | MW | 0 |
| Firm Capacity Sales | | MW | 0 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 0 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 177 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 114 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 5 |
| Controllable and Dispatchable DR | | MW | 0 |
| Net Peak Demand | | MW | 109 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 126 |
| Excess Capacity | | MW | 51 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 61.63 |
| Planning Reserve Margin | | % | 15.00 |

CITY OF GRAND ISLAND UTILITIES, NEBRASKA

| Capacity Summary | | Unit | 2023 |
|----------------------------------|--|-----------|------------|
| Capacity Resources | | MW | 198 |
| Firm Capacity Purchases | | MW | 33 |
| Deliverable Capacity Purchases | | MW | 13 |
| Firm Capacity Sales | | MW | 47 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 0 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 197 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 162 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 9 |
| Controllable and Dispatchable DR | | MW | 0 |
| Net Peak Demand | | MW | 153 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 176 |
| Excess Capacity | | MW | 21 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 28.57 |
| Planning Reserve Margin | | % | 15.00 |



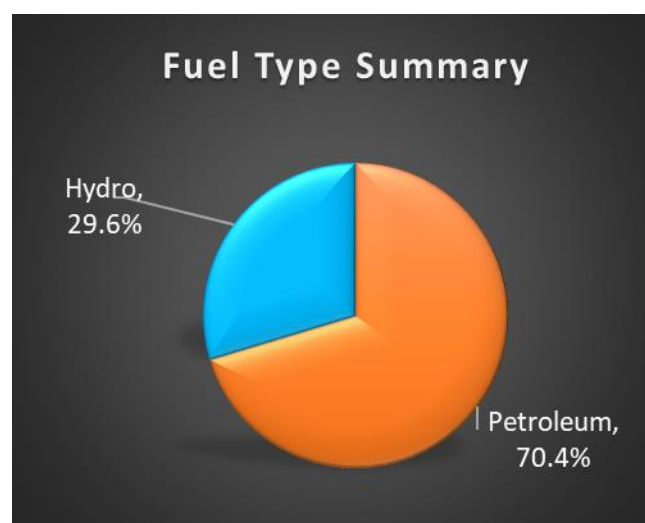
CITY OF HASTINGS UTILITIES, NEBRASKA



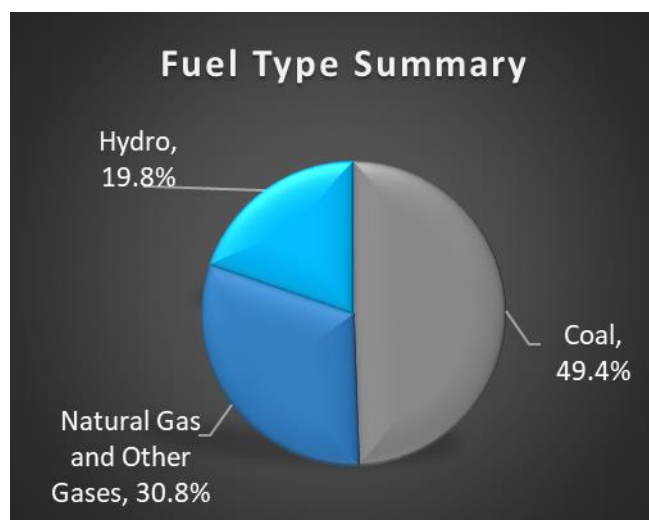
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|------------|
| Capacity Resources | MW | 162 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 55 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 107 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 91 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 12 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 79 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 91 |
| Excess Capacity | MW | 16 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 35.01 |
| Planning Reserve Margin | % | 15.00 |

CITY OF MALDEN BOARD OF PUBLIC WORKS, MISSOURI

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|-----------|
| Capacity Resources | MW | 14 |
| Firm Capacity Purchases | MW | 4 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 6 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 23 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 11 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 11 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 13 |
| Excess Capacity | MW | 11 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 112.73 |
| Planning Reserve Margin | % | 15.00 |



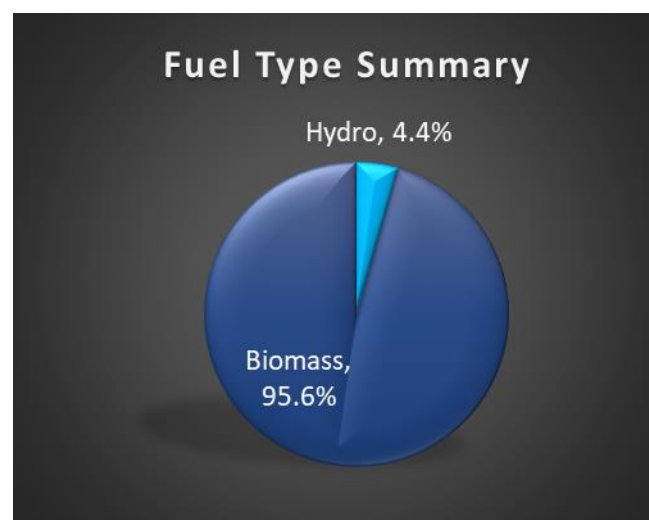
CITY OF NEBRASKA CITY UTILITIES, NEBRASKA



| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|--------------|------|
| Capacity Resources | MW | 37 | |
| Firm Capacity Purchases | MW | 10 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 15 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 32 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 34 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 8 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 26 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 30 | |
| Excess Capacity | MW | 2 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 22.93 | |
| Planning Reserve Margin | % | 15.00 | |

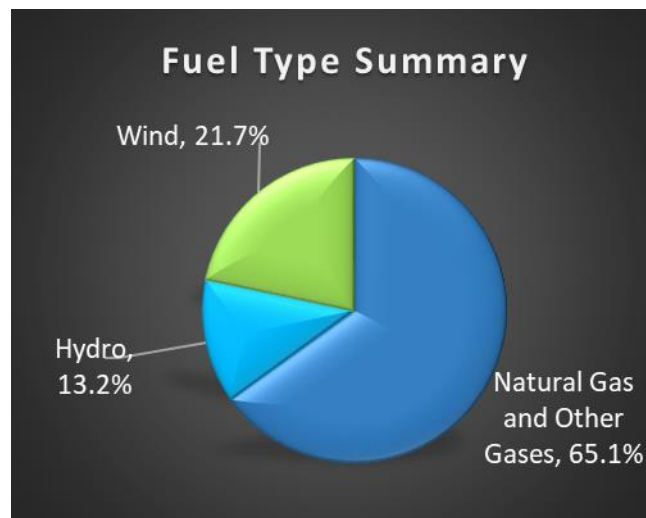
CITY OF NELIGH, NEBRASKA

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|--------------|------|
| Capacity Resources | MW | 6 | |
| Firm Capacity Purchases | MW | 0 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 6 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 5 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 5 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 6 | |
| Excess Capacity | MW | 1 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 27.85 | |
| Planning Reserve Margin | % | 15.00 | |

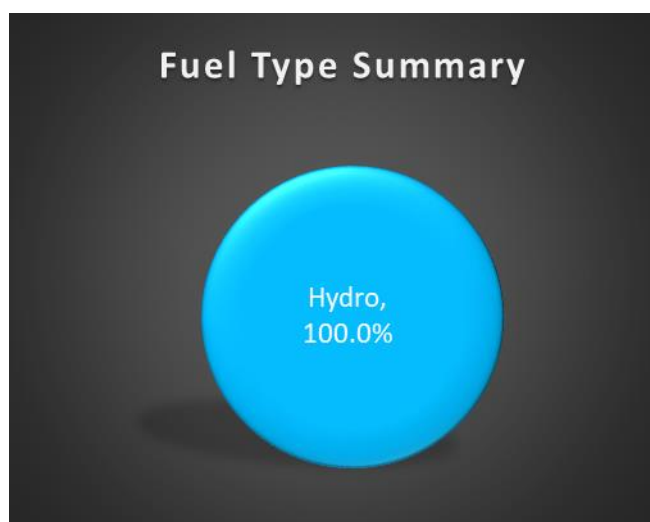


CITY OF NIXA, MISSOURI

| Capacity Summary | | Unit | 2023 |
|----------------------------------|----|-------|------|
| Capacity Resources | MW | 0 | |
| Firm Capacity Purchases | MW | 55 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 6 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 61 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 52 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 52 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 60 | |
| Excess Capacity | MW | 1 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 16.82 | |
| Planning Reserve Margin | % | 15.00 | |



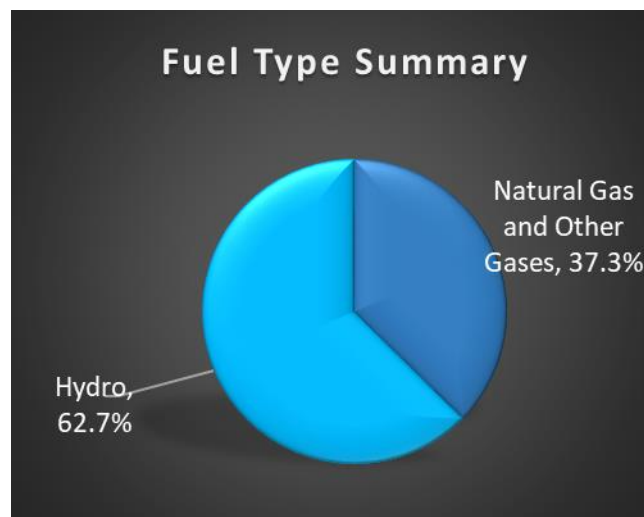
CITY OF PIGGOTT – MUNICIPAL LIGHT WATER & SEWER, ARKANSAS



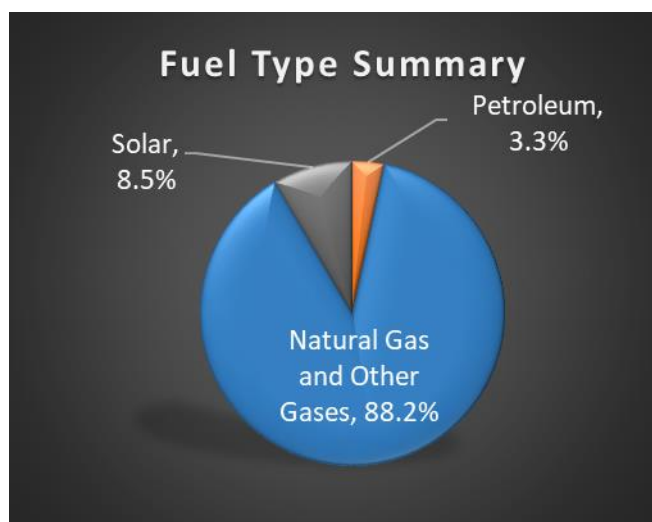
| Capacity Summary | | Unit | 2023 |
|----------------------------------|----|-------|------|
| Capacity Resources | MW | 0 | |
| Firm Capacity Purchases | MW | 6 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 6 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 12 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 10 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 10 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 12 | |
| Excess Capacity | MW | 0.1 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 16.35 | |
| Planning Reserve Margin | % | 15.00 | |

CITY OF POPLAR BLUFF MUNICIPAL UTILITIES, MISSOURI

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 27 |
| Firm Capacity Purchases | MW | 20 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 40 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 45 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 52 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 73 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 40 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 33 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 38 |
| Excess Capacity | MW | 15 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 59.06 |
| Planning Reserve Margin | % | 15.00 |



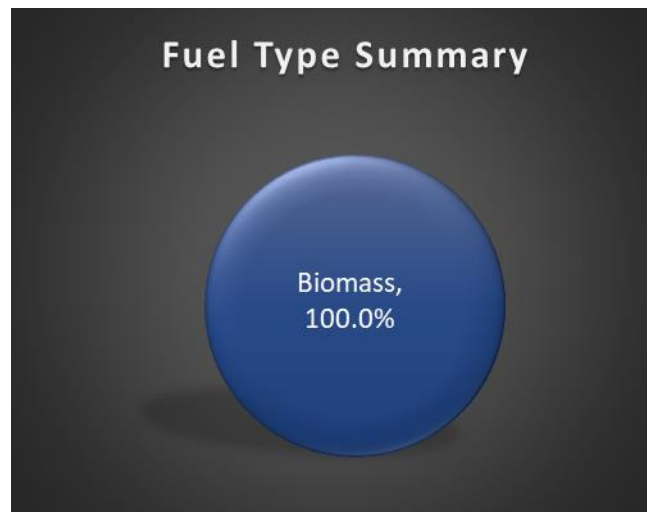
CITY OF PRATT, KANSAS



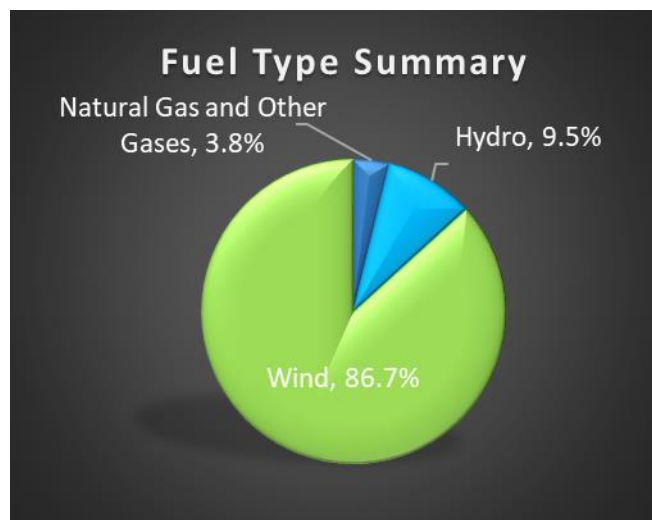
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 30 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 9 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 21 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 24 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 6 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 18 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 20 |
| Excess Capacity | MW | 0.3 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 16.95 |
| Planning Reserve Margin | % | 15.00 |

CITY OF SCRIBNER, NEBRASKA

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|------|--------------|
| Capacity Resources | MW | | 3 |
| Firm Capacity Purchases | MW | | 0 |
| Deliverable Capacity Purchases | MW | | 0 |
| Firm Capacity Sales | MW | | 0 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 0 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 3 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 2 |
| Internal Firm Power Sales | MW | | 0 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 2 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 3 |
| Excess Capacity | MW | | 0.5 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 36.36 |
| Planning Reserve Margin | % | | 15.00 |



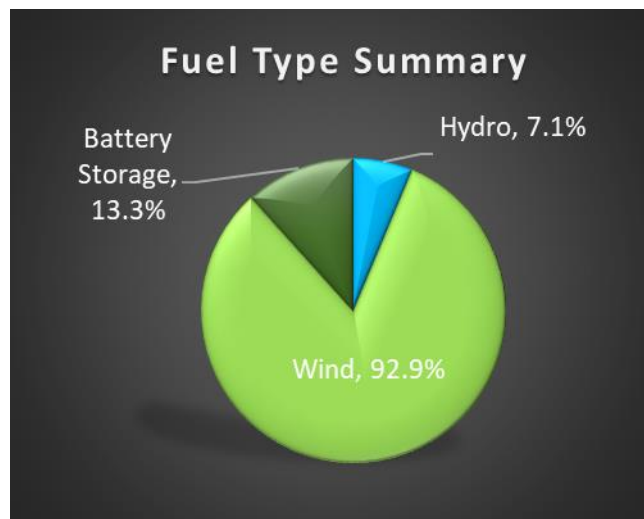
CITY OF SOUTH SIOUX CITY, NEBRASKA



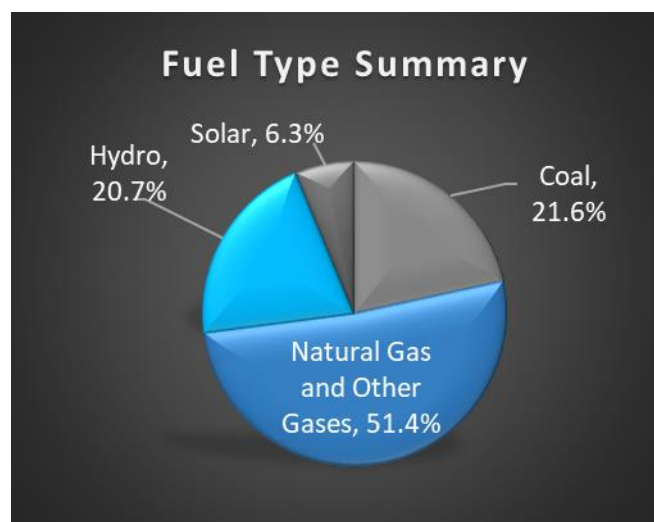
| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|------|--------------|
| Capacity Resources | MW | | 0 |
| Firm Capacity Purchases | MW | | 41 |
| Deliverable Capacity Purchases | MW | | 6 |
| Firm Capacity Sales | MW | | 0 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 0 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 47 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 41 |
| Internal Firm Power Sales | MW | | 0 |
| Internal Firm Power Purchases | MW | | 5 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 36 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 42 |
| Excess Capacity | MW | | 6 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 30.76 |
| Planning Reserve Margin | % | | 15.00 |

CITY OF SUPERIOR, NEBRASKA

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|--|-----------|--------------|
| Capacity Resources | | MW | 0 |
| Firm Capacity Purchases | | MW | 7 |
| Deliverable Capacity Purchases | | MW | 1 |
| Firm Capacity Sales | | MW | 0 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 0 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 8 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 9 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 1 |
| Controllable and Dispatchable DR | | MW | 2 |
| Net Peak Demand | | MW | 6 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 7 |
| Excess Capacity | | MW | 1 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 34.18 |
| Planning Reserve Margin | | % | 15.00 |



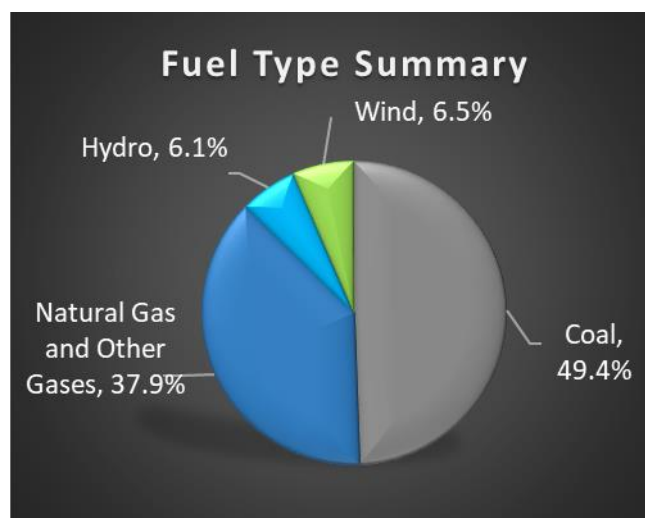
CITY OF WEST PLAINS BOARD OF PUBLIC WORKS, MISSOURI



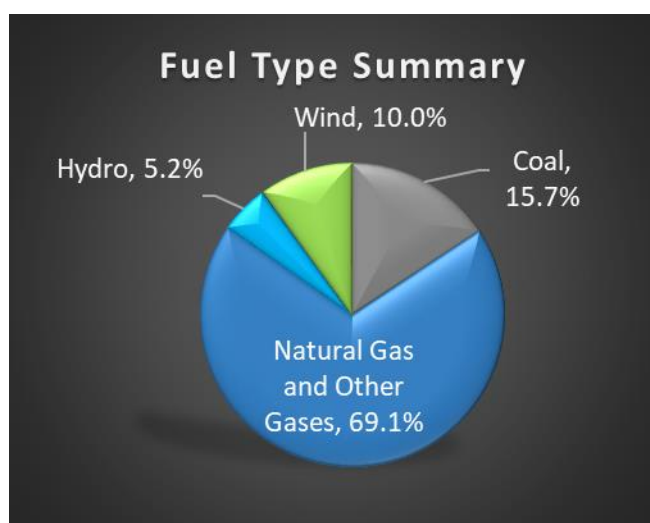
| Capacity Summary | | Unit | 2023 |
|--------------------------------------|--|-----------|--------------|
| Capacity Resources | | MW | 48 |
| Firm Capacity Purchases | | MW | 18 |
| Deliverable Capacity Purchases | | MW | 0 |
| Firm Capacity Sales | | MW | 0 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 17 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 83 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 42 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 0 |
| Controllable and Dispatchable DR | | MW | 0 |
| Net Peak Demand | | MW | 42 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 48 |
| Excess Capacity | | MW | 35 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 98.38 |
| Planning Reserve Margin | | % | 15.00 |

CITY UTILITIES OF SPRINGFIELD, MISSOURI

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|------|------------|
| Capacity Resources | MW | | 818 |
| Firm Capacity Purchases | MW | | 51 |
| Deliverable Capacity Purchases | MW | | 10 |
| Firm Capacity Sales | MW | | 70 |
| Deliverable Capacity Sales | MW | | 20 |
| External Firm Power Purchases | MW | | 58 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 846 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 716 |
| Internal Firm Power Sales | MW | | 0 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 716 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 823 |
| Excess Capacity | MW | | 23 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 18.21 |
| Planning Reserve Margin | % | | 15.00 |



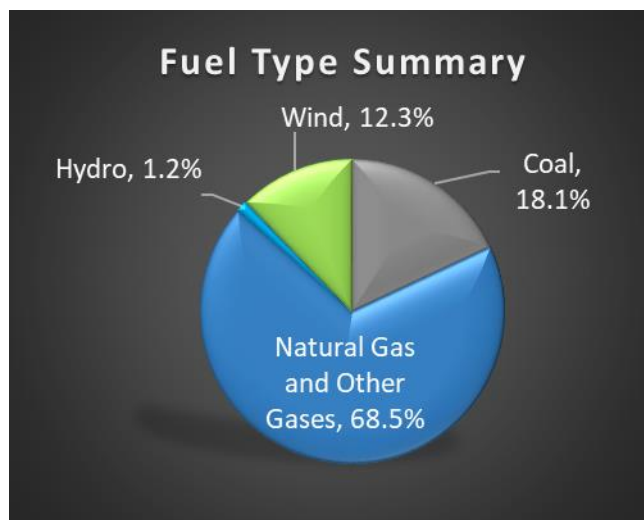
EAST AND NORTH TEXAS ELECTRIC COOPERATIVES



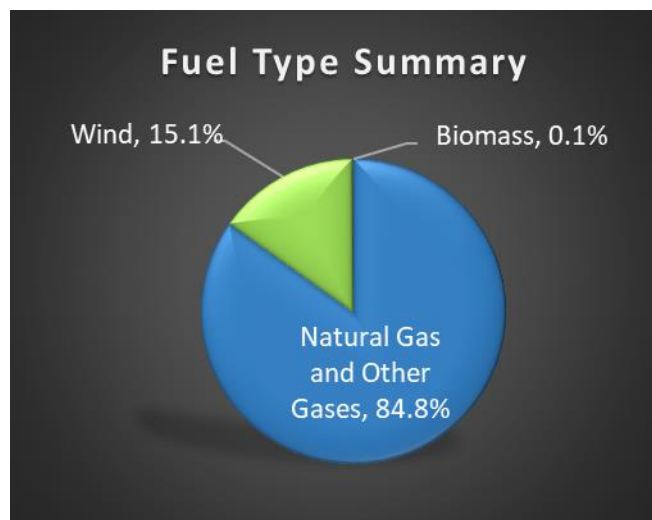
| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|------|------------|
| Capacity Resources | MW | | 592 |
| Firm Capacity Purchases | MW | | 60 |
| Deliverable Capacity Purchases | MW | | 0 |
| Firm Capacity Sales | MW | | 380 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 120 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 392 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 232 |
| Internal Firm Power Sales | MW | | 102 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 334 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 384 |
| Excess Capacity | MW | | 8 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 17.40 |
| Planning Reserve Margin | % | | 15.00 |

EMPIRE DISTRICT ELECTRIC COMPANY (LIBERTY UTILITIES)

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|------|--------------|
| Capacity Resources | MW | | 1,309 |
| Firm Capacity Purchases | MW | | 67 |
| Deliverable Capacity Purchases | MW | | 0 |
| Firm Capacity Sales | MW | | 78 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 0 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 1,298 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 1,102 |
| Internal Firm Power Sales | MW | | 0 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 1,102 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 1,267 |
| Excess Capacity | MW | | 30 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 17.76 |
| Planning Reserve Margin | % | | 15.00 |



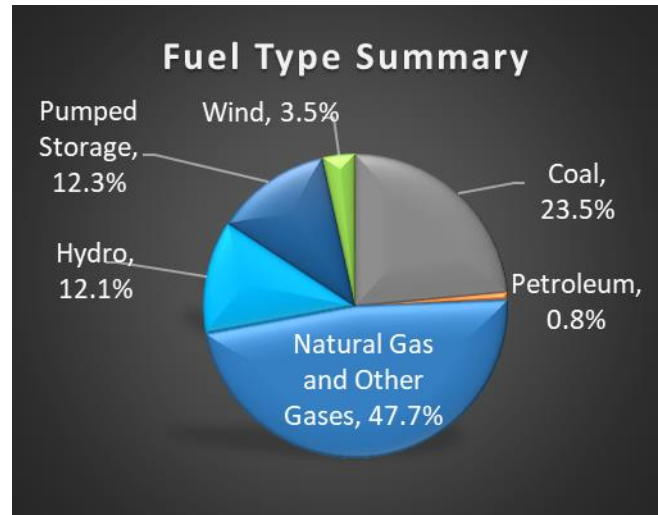
GOLDEN SPREAD ELECTRIC COOPERATIVE



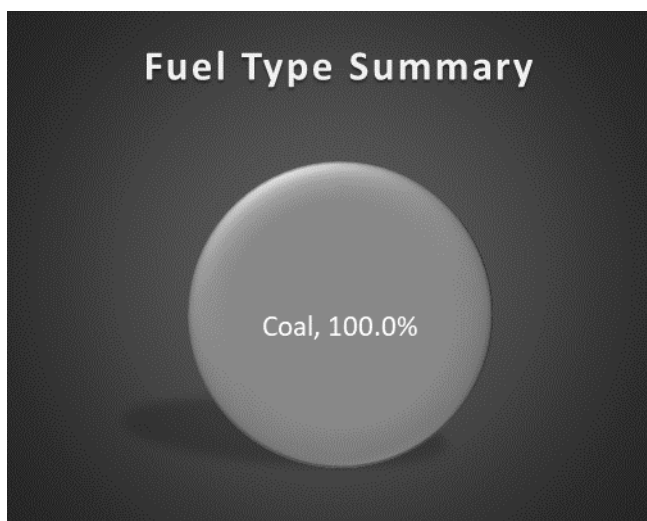
| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|------|--------------|
| Capacity Resources | MW | | 1,492 |
| Firm Capacity Purchases | MW | | 68 |
| Deliverable Capacity Purchases | MW | | 180 |
| Firm Capacity Sales | MW | | 0 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 0 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 1,741 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 1,491 |
| Internal Firm Power Sales | MW | | 0 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 1,491 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 1,714 |
| Excess Capacity | MW | | 26 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 16.76 |
| Planning Reserve Margin | % | | 15.00 |

GRAND RIVER DAM AUTHORITY

| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|------|--------------|
| Capacity Resources | MW | | 2,006 |
| Firm Capacity Purchases | MW | | 73 |
| Deliverable Capacity Purchases | MW | | 0 |
| Firm Capacity Sales | MW | | 0 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 15 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 2,094 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 1,209 |
| Internal Firm Power Sales | MW | | 465 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 1,674 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 1,925 |
| Excess Capacity | MW | | 169 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 25.09 |
| Planning Reserve Margin | % | | 15.00 |



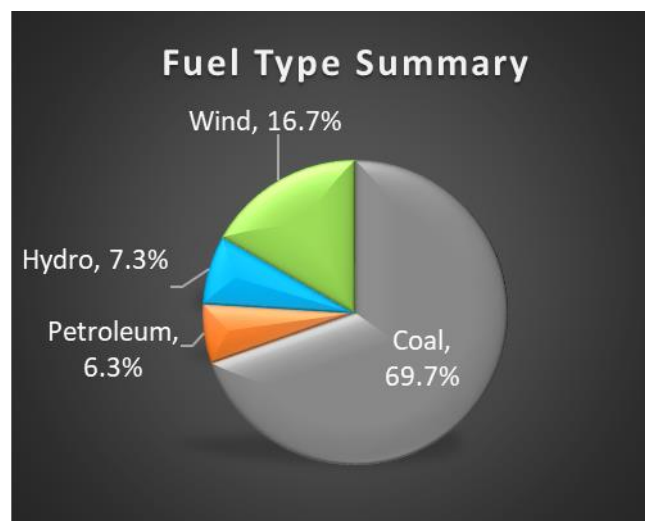
HARLAN MUNICIPAL UTILITIES



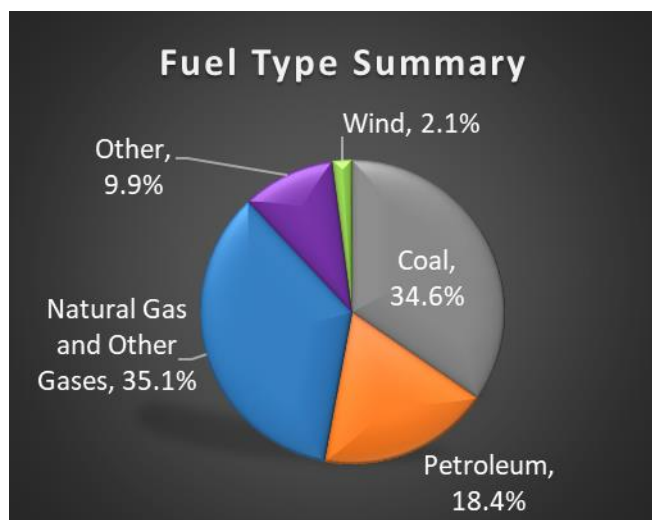
| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|------|----------|
| Capacity Resources | MW | | 6 |
| Firm Capacity Purchases | MW | | 0 |
| Deliverable Capacity Purchases | MW | | 0 |
| Firm Capacity Sales | MW | | 0 |
| Deliverable Capacity Sales | MW | | 0 |
| External Firm Power Purchases | MW | | 0 |
| External Firm Power Sales | MW | | 0 |
| Confirmed Retirements | MW | | 0 |
| Total Capacity | MW | | 6 |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | | 5 |
| Internal Firm Power Sales | MW | | 0 |
| Internal Firm Power Purchases | MW | | 0 |
| Controllable and Dispatchable DR | MW | | 0 |
| Net Peak Demand | MW | | 5 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | | 6 |
| Excess Capacity | MW | | 0.03 |
| Deficient Capacity | MW | | 0 |
| LRE planning reserve margin | % | | 15.58 |
| Planning Reserve Margin | % | | 15.00 |

HEARTLAND CONSUMERS POWER DISTRICT

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|--|-----------|--------------|
| Capacity Resources | | MW | 84 |
| Firm Capacity Purchases | | MW | 15 |
| Deliverable Capacity Purchases | | MW | 0 |
| Firm Capacity Sales | | MW | 41 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 0 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 57 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 45 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 0 |
| Controllable and Dispatchable DR | | MW | 0 |
| Net Peak Demand | | MW | 45 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 52 |
| Excess Capacity | | MW | 6 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 28.14 |
| Planning Reserve Margin | | % | 15.00 |



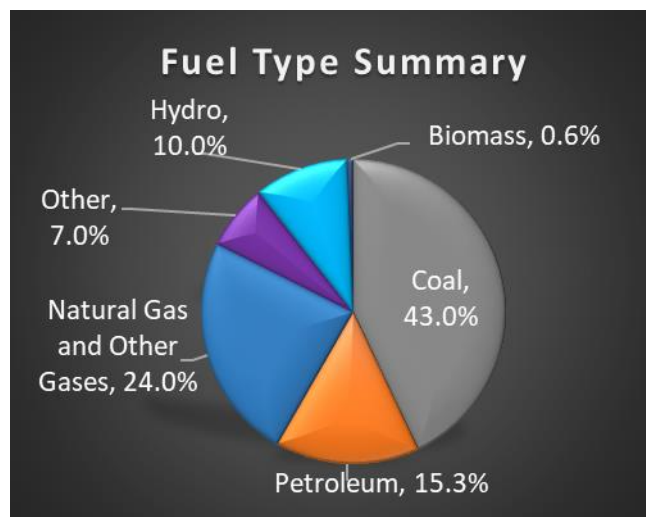
INDEPENDENCE POWER & LIGHT



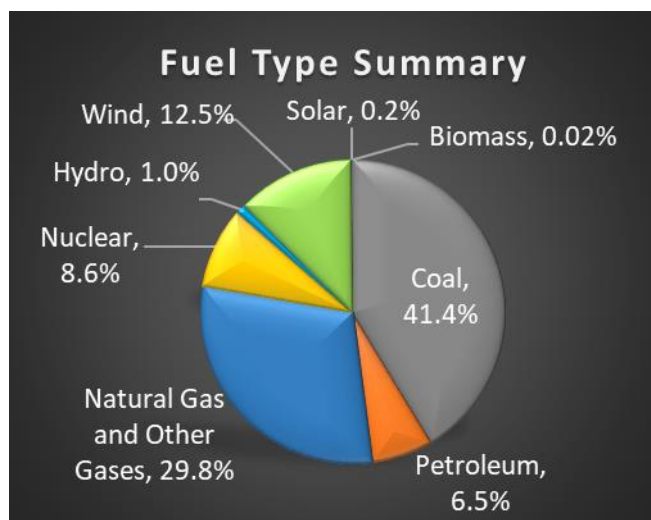
| Capacity Summary | | Unit | 2023 |
|--------------------------------------|--|-----------|--------------|
| Capacity Resources | | MW | 157 |
| Firm Capacity Purchases | | MW | 162 |
| Deliverable Capacity Purchases | | MW | 0 |
| Firm Capacity Sales | | MW | 0 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 0 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 319 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 275 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 0 |
| Controllable and Dispatchable DR | | MW | 0 |
| Net Peak Demand | | MW | 275 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 316 |
| Excess Capacity | | MW | 3 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 15.95 |
| Planning Reserve Margin | | % | 15.00 |

KANSAS CITY BOARD OF PUBLIC UTILITIES

| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|--------------|------|
| Capacity Resources | MW | 514 | |
| Firm Capacity Purchases | MW | 7 | |
| Deliverable Capacity Purchases | MW | 37 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 41 | |
| External Firm Power Purchases | MW | 50 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 567 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 480 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 480 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 552 | |
| Excess Capacity | MW | 15 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 18.16 | |
| Planning Reserve Margin | % | 15.00 | |



KANSAS CITY POWER & LIGHT



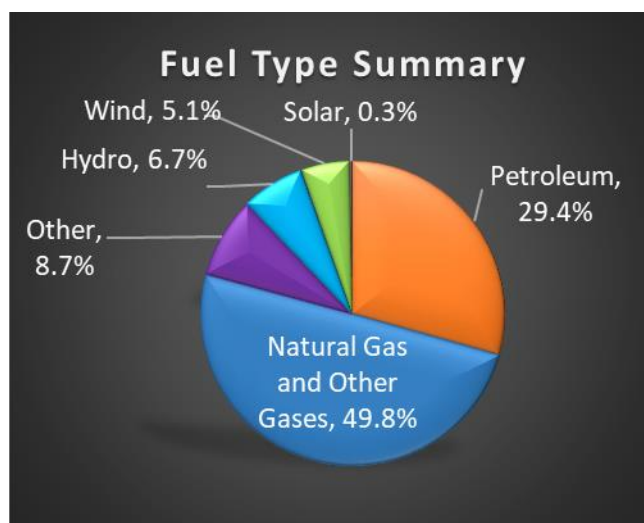
| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|--------------|------|
| Capacity Resources | MW | 5,604 | |
| Firm Capacity Purchases | MW | 807 | |
| Deliverable Capacity Purchases | MW | 511 | |
| Firm Capacity Sales | MW | 55 | |
| Deliverable Capacity Sales | MW | 428 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 6,440 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 5,417 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 129 | |
| Net Peak Demand | MW | 5,288 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 6,081 | |
| Excess Capacity | MW | 359 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 21.78 | |
| Planning Reserve Margin | % | 15.00 | |

KANSAS ELECTRIC POWER COOPERATIVE

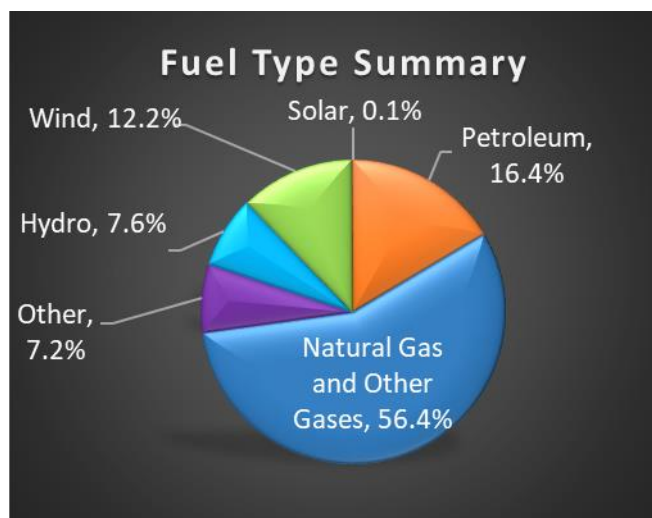
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|-------------|
| Capacity Resources | MW | 0 |
| Firm Capacity Purchases | MW | 42 |
| Deliverable Capacity Purchases | MW | 5 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 47 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 39 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 39 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 45 |
| Excess Capacity | MW | 2 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 20.8 |
| Planning Reserve Margin | % | 15.00 |

KANSAS MUNICIPAL ENERGY AGENCY – EMP1

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 106 |
| Firm Capacity Purchases | MW | 6 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 7 |
| External Firm Power Purchases | MW | 2 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 108 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 108 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 36 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 72 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 83 |
| Excess Capacity | MW | 25 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 49.60 |
| Planning Reserve Margin | % | 15.00 |



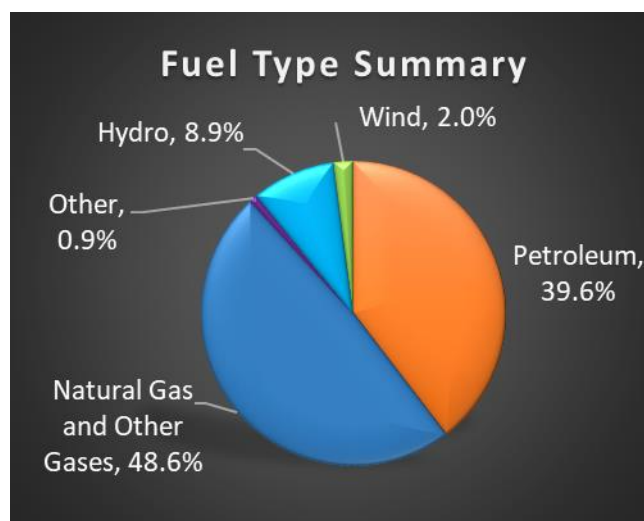
KANSAS MUNICIPAL ENERGY AGENCY – EMP2



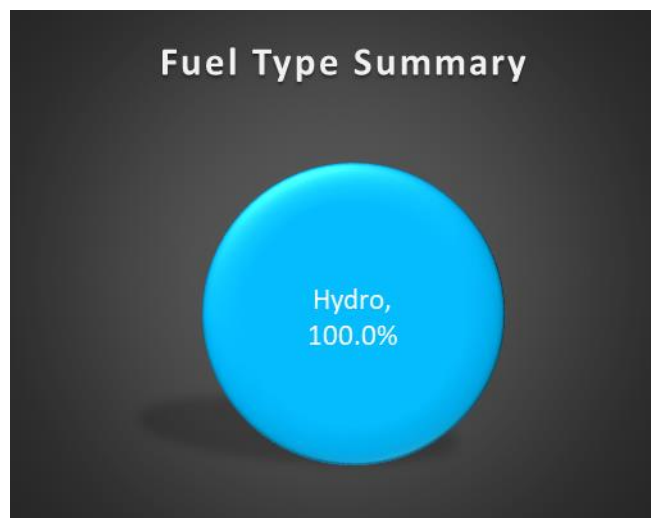
| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 151 |
| Firm Capacity Purchases | MW | 23 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 3 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 1 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 172 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 163 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 25 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 138 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 158 |
| Excess Capacity | MW | 13 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 24.63 |
| Planning Reserve Margin | % | 15.00 |

KANSAS MUNICIPAL ENERGY AGENCY – EMP3

| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 80 |
| Firm Capacity Purchases | MW | 20 |
| Deliverable Capacity Purchases | MW | 7 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 2 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 109 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 117 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 24 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 93 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 107 |
| Excess Capacity | MW | 2 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 17.13 |
| Planning Reserve Margin | % | 15.00 |



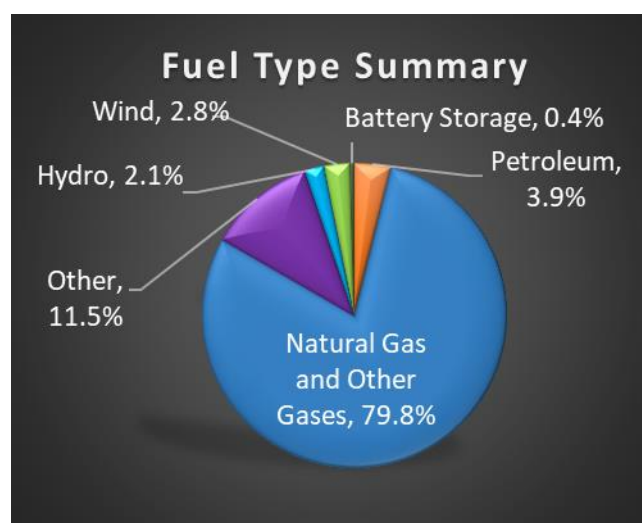
KANSAS MUNICIPAL ENERGY AGENCY – EUDORA



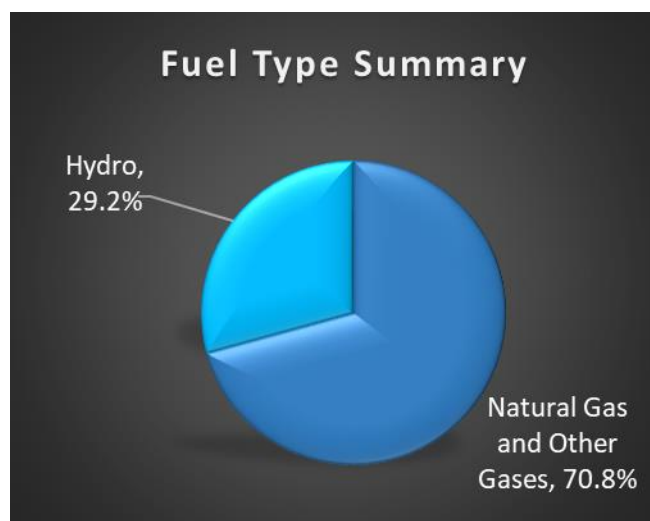
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 0 |
| Firm Capacity Purchases | MW | 15 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 15 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 13 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 1 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 12 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 14 |
| Excess Capacity | MW | 1 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 24.02 |
| Planning Reserve Margin | % | 15.00 |

KANSAS POWER POOL

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 220 |
| Firm Capacity Purchases | MW | 6 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 5 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 232 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 208 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 18 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 189 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 218 |
| Excess Capacity | MW | 14 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 22.33 |
| Planning Reserve Margin | % | 15.00 |



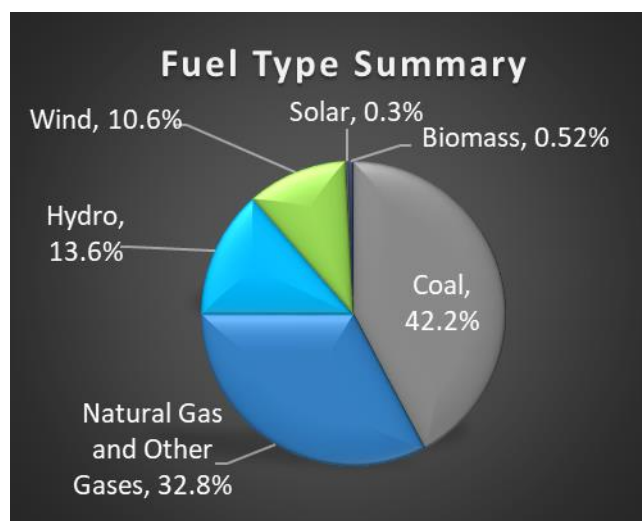
KENNETT, MISSOURI BOARD OF PUBLIC WORKS



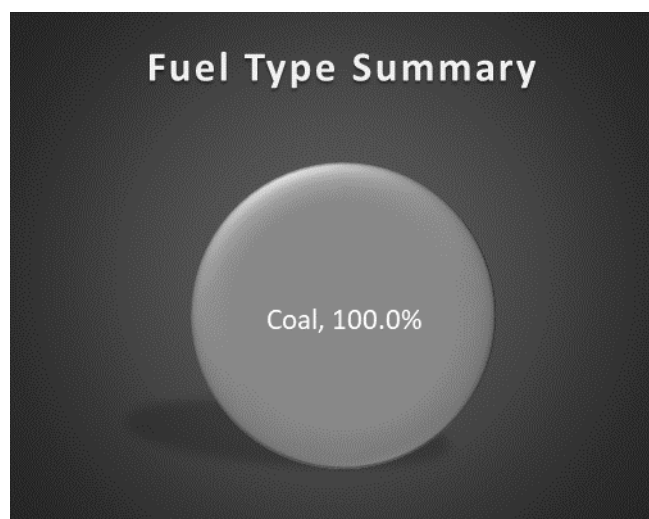
| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|-----------|------|
| Capacity Resources | MW | 31 | |
| Firm Capacity Purchases | MW | 0 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 13 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 43 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 29 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 29 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 33 | |
| Excess Capacity | MW | 10 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 49.14 | |
| Planning Reserve Margin | % | 15.00 | |

LINCOLN ELECTRIC SYSTEM

| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|------------|------|
| Capacity Resources | MW | 737 | |
| Firm Capacity Purchases | MW | 257 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 195 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 800 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 778 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 126 | |
| Controllable and Dispatchable DR | MW | 5 | |
| Net Peak Demand | MW | 648 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 745 | |
| Excess Capacity | MW | 55 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 23.50 | |
| Planning Reserve Margin | % | 15.00 | |



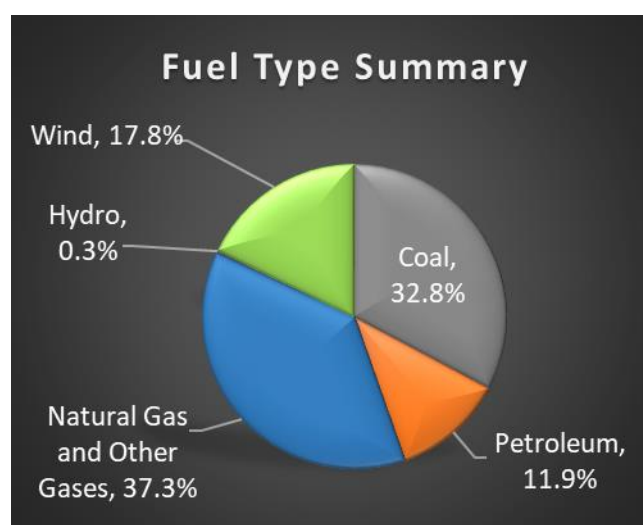
MIDAMERICAN ENERGY COMPANY



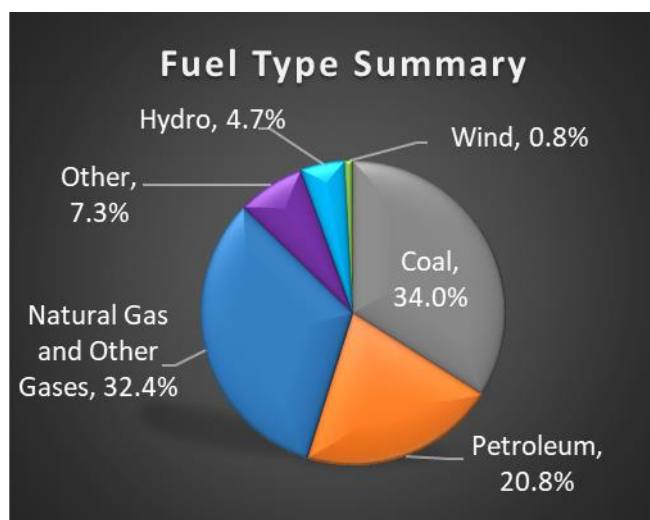
| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|-----------|------|
| Capacity Resources | MW | 55 | |
| Firm Capacity Purchases | MW | 0 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 55 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 48 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 48 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 55 | |
| Excess Capacity | MW | 0.1 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 15.21 | |
| Planning Reserve Margin | % | 15.00 | |

MIDWEST ENERGY, INC.

| Capacity Summary | | Unit | 2023 |
|----------------------------------|-----------|------------|------|
| Capacity Resources | MW | 150 | |
| Firm Capacity Purchases | MW | 274 | |
| Deliverable Capacity Purchases | MW | 35 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 1 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 460 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 382 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 7 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 375 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 432 | |
| Excess Capacity | MW | 29 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 22.63 | |
| Planning Reserve Margin | % | 15.00 | |



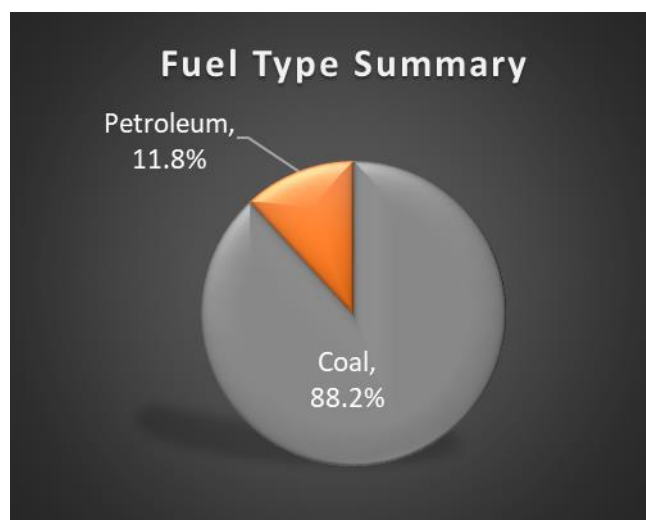
MISSOURI JOINT MUNICIPAL ELECTRIC UTILITY COMMISSION



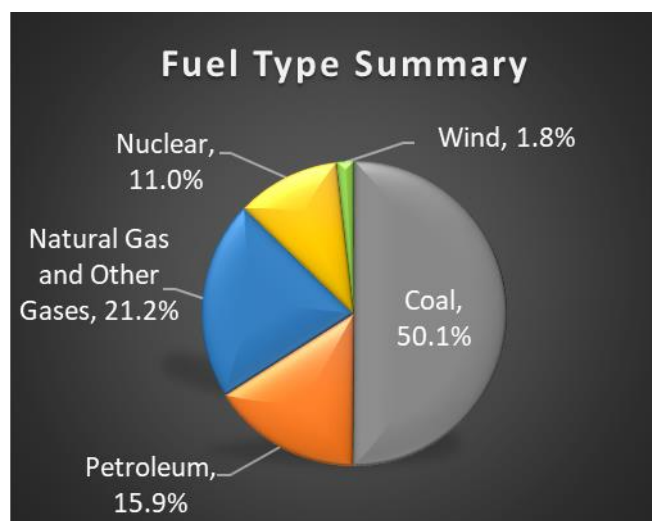
| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 592 |
| Firm Capacity Purchases | MW | 190 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 99 |
| Deliverable Capacity Sales | MW | 2 |
| External Firm Power Purchases | MW | 27 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 708 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 575 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 575 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 661 |
| Excess Capacity | MW | 47 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 23.14 |
| Planning Reserve Margin | % | 15.00 |

MISSOURI RIVER ENERGY SERVICES

| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 500 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 185 |
| Deliverable Capacity Sales | MW | 20 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 295 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 251 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 251 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 289 |
| Excess Capacity | MW | 6 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 17.54 |
| Planning Reserve Margin | % | 15.00 |



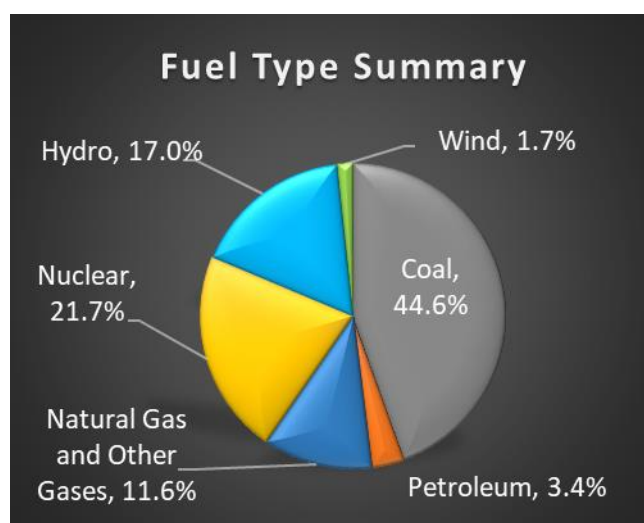
MUNICIPAL ENERGY AGENCY OF NEBRASKA



| Capacity Summary | | Unit | 2023 |
|----------------------------------|--|-----------|------------|
| Capacity Resources | | MW | 182 |
| Firm Capacity Purchases | | MW | 54 |
| Deliverable Capacity Purchases | | MW | 0 |
| Firm Capacity Sales | | MW | 0 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 0 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 230 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 157 |
| Internal Firm Power Sales | | MW | 56 |
| Internal Firm Power Purchases | | MW | 20 |
| Controllable and Dispatchable DR | | MW | 0 |
| Net Peak Demand | | MW | 193 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 222 |
| Excess Capacity | | MW | 8 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 19.13 |
| Planning Reserve Margin | | % | 15.00 |

NEBRASKA PUBLIC POWER DISTRICT

| Capacity Summary | | Unit | 2023 |
|----------------------------------|--|-----------|--------------|
| Capacity Resources | | MW | 3,007 |
| Firm Capacity Purchases | | MW | 280 |
| Deliverable Capacity Purchases | | MW | 0 |
| Firm Capacity Sales | | MW | 457 |
| Deliverable Capacity Sales | | MW | 0 |
| External Firm Power Purchases | | MW | 6 |
| External Firm Power Sales | | MW | 0 |
| Confirmed Retirements | | MW | 0 |
| Total Capacity | | MW | 2,835 |
| Demand Summary | | | |
| Forecasted Peak Demand | | MW | 2,987 |
| Internal Firm Power Sales | | MW | 0 |
| Internal Firm Power Purchases | | MW | 462 |
| Controllable and Dispatchable DR | | MW | 71 |
| Net Peak Demand | | MW | 2,455 |
| Requirements Summary | | | |
| Resource Adequacy Requirement | | MW | 2,823 |
| Excess Capacity | | MW | 13 |
| Deficient Capacity | | MW | 0 |
| LRE planning reserve margin | | % | 15.52 |
| Planning Reserve Margin | | % | 15.00 |

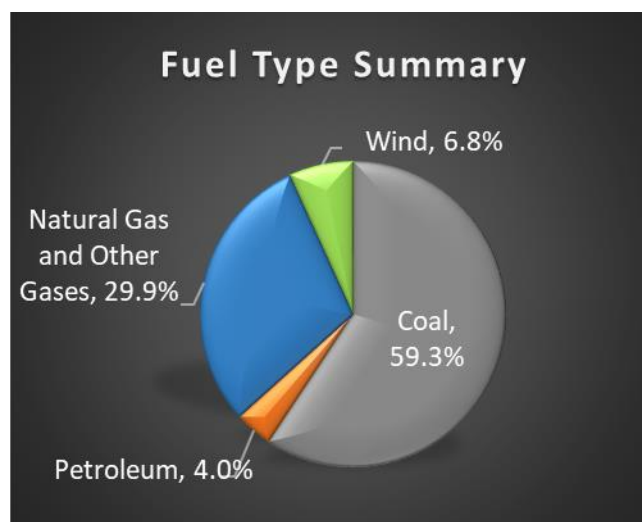


NORTHWESTERN ENERGY – NWMT

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|----------|
| Capacity Resources | MW | 0 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 0 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 0 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 0 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 0 |
| Excess Capacity | MW | 0 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | N/A |
| Planning Reserve Margin | % | 15.00 |

NORTHWESTERN ENERGY – NWPS

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 358 |
| Firm Capacity Purchases | MW | 9 |
| Deliverable Capacity Purchases | MW | 40 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 407 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 350 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 350 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 403 |
| Excess Capacity | MW | 4 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 16.12 |
| Planning Reserve Margin | % | 15.00 |

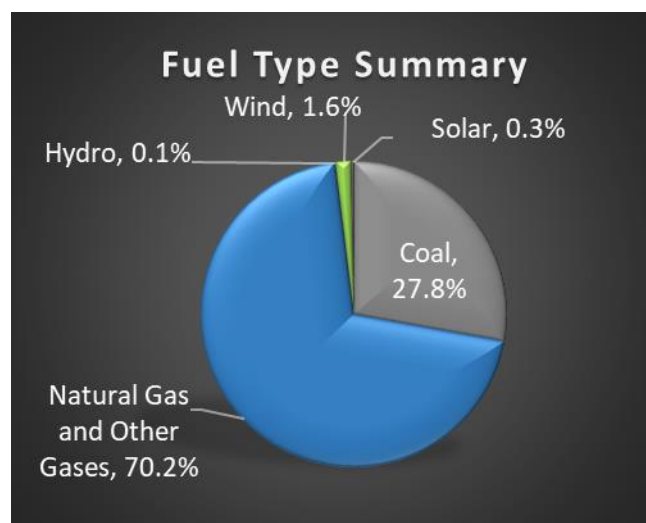


NSP ENERGY MARKETING

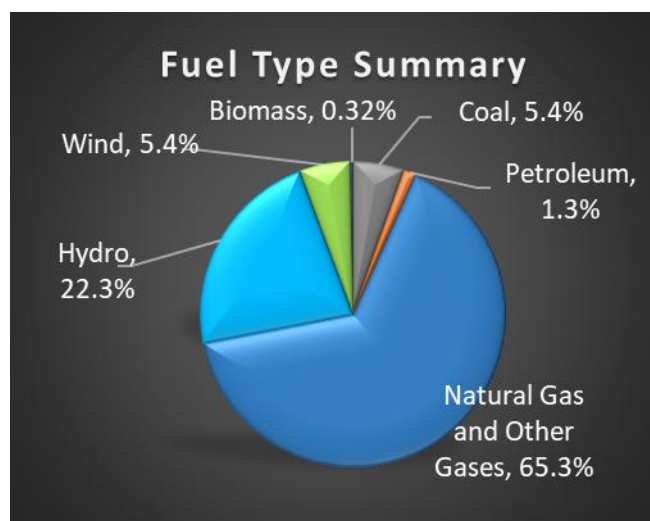
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 0 |
| Firm Capacity Purchases | MW | 2 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 2 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 1 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 1 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 1 |
| Excess Capacity | MW | 1 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 53.85 |
| Planning Reserve Margin | % | 15.00 |

OKLAHOMA GAS & ELECTRIC COMPANY

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 6,592 |
| Firm Capacity Purchases | MW | 26 |
| Deliverable Capacity Purchases | MW | 493 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 7 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 7,118 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 6,519 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 330 |
| Net Peak Demand | MW | 6,189 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 7,117 |
| Excess Capacity | MW | 1 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 15.01 |
| Planning Reserve Margin | % | 15.00 |



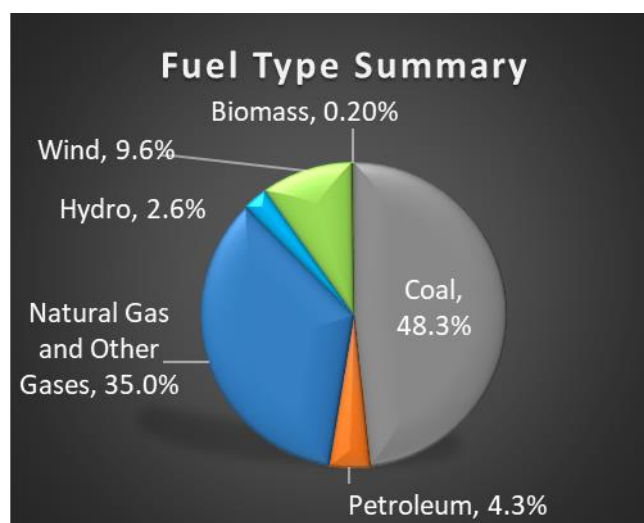
OKLAHOMA MUNICIPAL POWER AUTHORITY



| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 563 |
| Firm Capacity Purchases | MW | 75 |
| Deliverable Capacity Purchases | MW | 20 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 140 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 799 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 729 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 60 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 669 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 770 |
| Excess Capacity | MW | 29 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 19.30 |
| Planning Reserve Margin | % | 15.00 |

OMAHA PUBLIC POWER DISTRICT

| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|--------------|
| Capacity Resources | MW | 2,720 |
| Firm Capacity Purchases | MW | 481 |
| Deliverable Capacity Purchases | MW | 105 |
| Firm Capacity Sales | MW | 341 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 2,964 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 2,709 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 80 |
| Controllable and Dispatchable DR | MW | 91 |
| Net Peak Demand | MW | 2,538 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 2,919 |
| Excess Capacity | MW | 45 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 16.77 |
| Planning Reserve Margin | % | 15.00 |

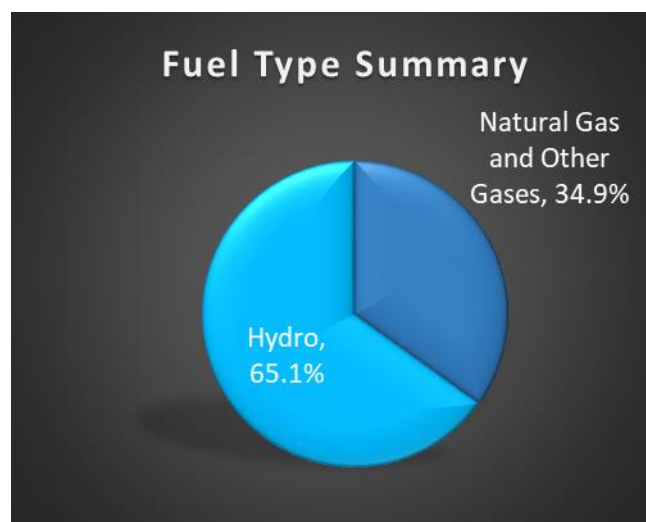


OTTER TAIL POWER COMPANY

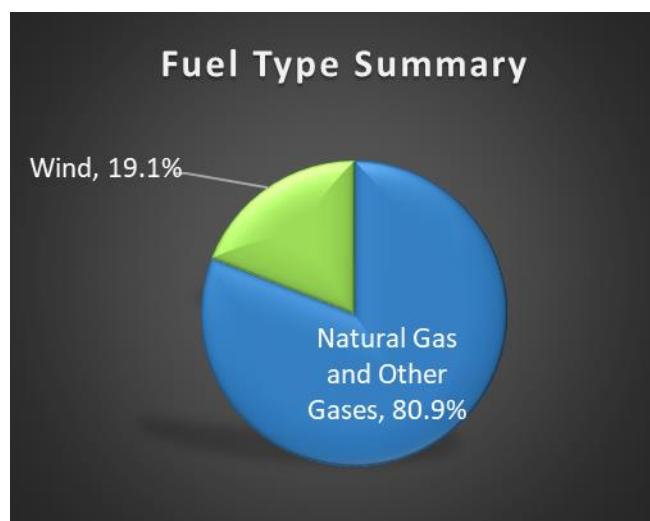
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|----------|
| Capacity Resources | MW | 0 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 0 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 0 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 0 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 0 |
| Excess Capacity | MW | 0 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | N/A |
| Planning Reserve Margin | % | 15.00 |

PARAGOULD, ARKANSAS LIGHT & WATER COMMISSION

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|-----------|
| Capacity Resources | MW | 31 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 16 |
| External Firm Power Purchases | MW | 58 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 73 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 111 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 80 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 31 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 36 |
| Excess Capacity | MW | 38 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 136.02 |
| Planning Reserve Margin | % | 15.00 |



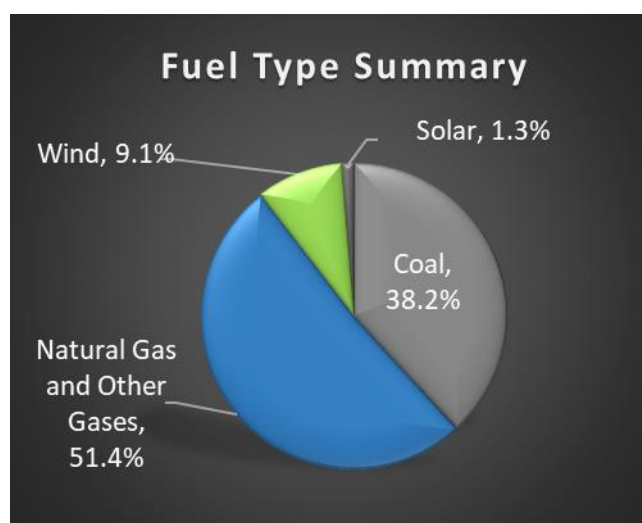
PEOPLE'S ELECTRIC COOPERATIVE



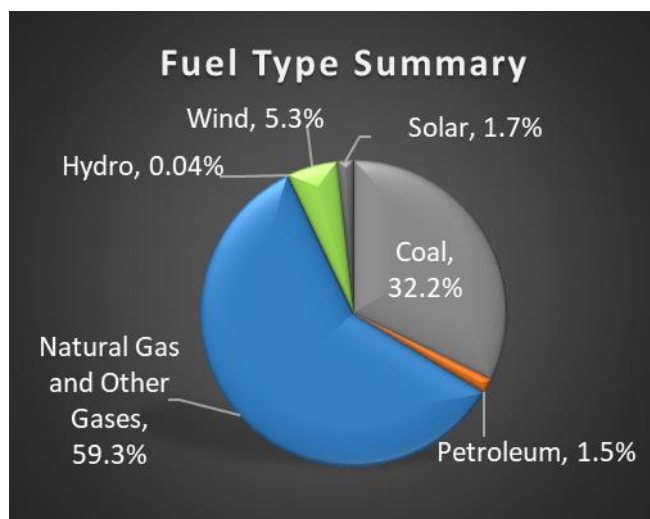
| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|------------|
| Capacity Resources | MW | 72 |
| Firm Capacity Purchases | MW | 135 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 207 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 160 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 160 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 183 |
| Excess Capacity | MW | 23 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 29.54 |
| Planning Reserve Margin | % | 15.00 |

SOUTHWESTERN PUBLIC SERVICE COMPANY

| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|--------------|
| Capacity Resources | MW | 4,370 |
| Firm Capacity Purchases | MW | 1,100 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 346 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 5,124 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 4,059 |
| Internal Firm Power Sales | MW | 125 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 4,184 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 4,812 |
| Excess Capacity | MW | 312 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 22.46 |
| Planning Reserve Margin | % | 15.00 |



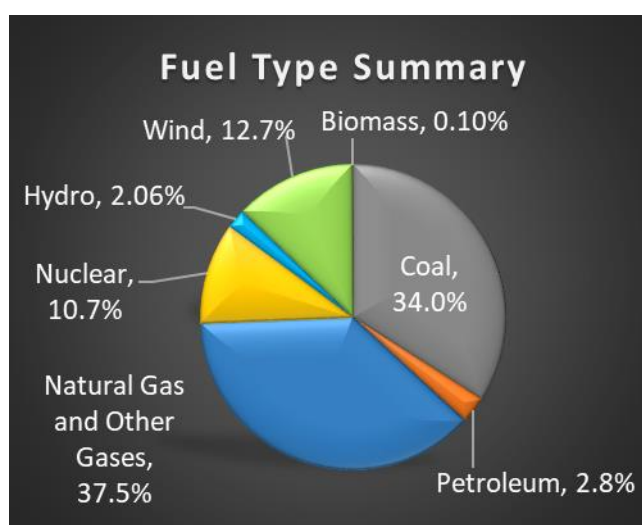
SUNFLOWER ELECTRIC POWER COOPERATION



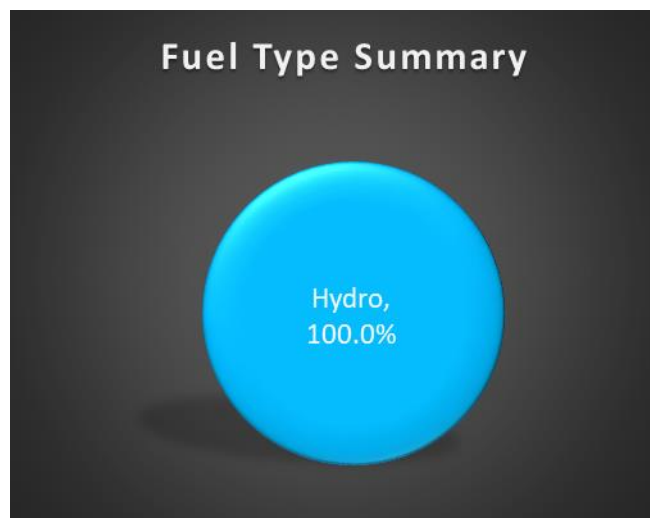
| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|--------------|
| Capacity Resources | MW | 1,105 |
| Firm Capacity Purchases | MW | 52 |
| Deliverable Capacity Purchases | MW | 16 |
| Firm Capacity Sales | MW | 50 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 1,124 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 948 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 7 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 941 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 1,082 |
| Excess Capacity | MW | 42 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 19.43 |
| Planning Reserve Margin | % | 15.00 |

WESTAR ENERGY

| Capacity Summary | Unit | 2023 |
|----------------------------------|-----------|--------------|
| Capacity Resources | MW | 5,317 |
| Firm Capacity Purchases | MW | 720 |
| Deliverable Capacity Purchases | MW | 576 |
| Firm Capacity Sales | MW | 565 |
| Deliverable Capacity Sales | MW | 378 |
| External Firm Power Purchases | MW | 120 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 5,789 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 5,010 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 15 |
| Controllable and Dispatchable DR | MW | 85 |
| Net Peak Demand | MW | 4,910 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 5,646 |
| Excess Capacity | MW | 143 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 17.91 |
| Planning Reserve Margin | % | 15.00 |



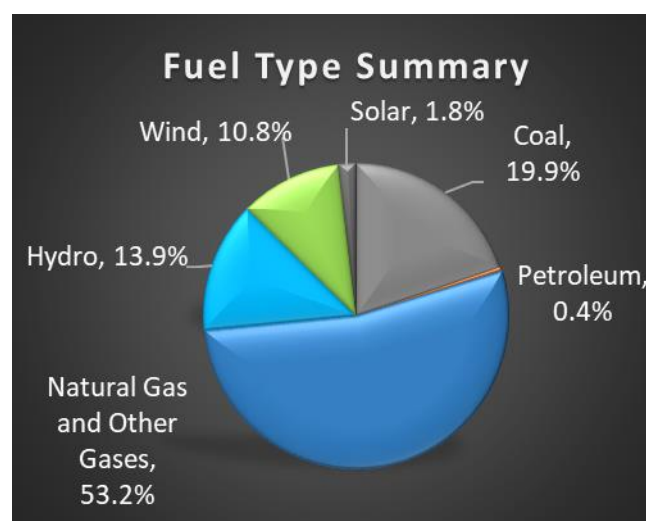
WESTERN AREA POWER ADMINISTRATION – UGP



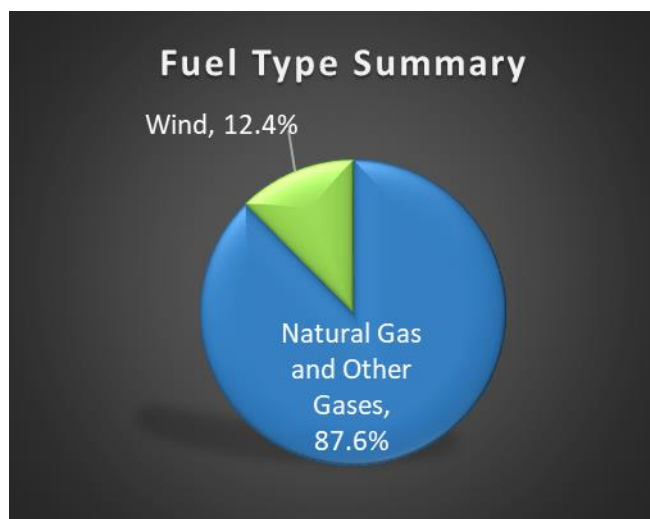
| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 2,353 |
| Firm Capacity Purchases | MW | 0 |
| Deliverable Capacity Purchases | MW | 0 |
| Firm Capacity Sales | MW | 441 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 0 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 1,910 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 759 |
| Internal Firm Power Sales | MW | 746 |
| Internal Firm Power Purchases | MW | 0 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 1,505 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 1,654 |
| Excess Capacity | MW | 256 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 26.90 |
| Planning Reserve Margin | % | 9.89 |

WESTERN FARMERS ENERGY SERVICES

| Capacity Summary | Unit | 2023 |
|--------------------------------------|-----------|--------------|
| Capacity Resources | MW | 1,296 |
| Firm Capacity Purchases | MW | 546 |
| Deliverable Capacity Purchases | MW | 4 |
| Firm Capacity Sales | MW | 0 |
| Deliverable Capacity Sales | MW | 0 |
| External Firm Power Purchases | MW | 299 |
| External Firm Power Sales | MW | 0 |
| Confirmed Retirements | MW | 0 |
| Total Capacity | MW | 2,144 |
| Demand Summary | | |
| Forecasted Peak Demand | MW | 2,083 |
| Internal Firm Power Sales | MW | 0 |
| Internal Firm Power Purchases | MW | 325 |
| Controllable and Dispatchable DR | MW | 0 |
| Net Peak Demand | MW | 1,758 |
| Requirements Summary | | |
| Resource Adequacy Requirement | MW | 2,021 |
| Excess Capacity | MW | 123 |
| Deficient Capacity | MW | 0 |
| LRE planning reserve margin | % | 22.00 |
| Planning Reserve Margin | % | 15.00 |



WEST TEXAS MUNICIPAL



| Capacity Summary | | Unit | 2023 |
|--------------------------------------|-----------|--------------|------|
| Capacity Resources | MW | 0 | |
| Firm Capacity Purchases | MW | 42 | |
| Deliverable Capacity Purchases | MW | 0 | |
| Firm Capacity Sales | MW | 0 | |
| Deliverable Capacity Sales | MW | 0 | |
| External Firm Power Purchases | MW | 0 | |
| External Firm Power Sales | MW | 0 | |
| Confirmed Retirements | MW | 0 | |
| Total Capacity | MW | 42 | |
| Demand Summary | | | |
| Forecasted Peak Demand | MW | 34 | |
| Internal Firm Power Sales | MW | 0 | |
| Internal Firm Power Purchases | MW | 0 | |
| Controllable and Dispatchable DR | MW | 0 | |
| Net Peak Demand | MW | 34 | |
| Requirements Summary | | | |
| Resource Adequacy Requirement | MW | 39 | |
| Excess Capacity | MW | 3 | |
| Deficient Capacity | MW | 0 | |
| LRE planning reserve margin | % | 25.03 | |
| Planning Reserve Margin | % | 15.00 | |