

# POWER WITH PURPOSE

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MEMBER-LED • RELIABLE • AFFORDABLE

## SYSTEM FACTS April 2024

**Associated Electric  
Cooperative Inc.**

A Touchstone Energy® Cooperative 

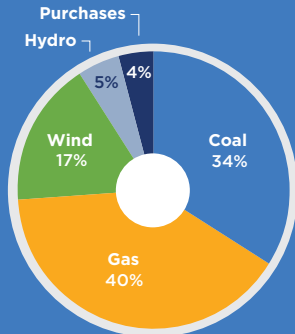
## Associated Electric Cooperative

Associated is owned by and provides member-led, reliable and affordable electricity to six regional G&T cooperatives. In turn, these G&Ts transmit electricity to 51 local electric cooperative systems in Missouri, southeast Iowa and northeast Oklahoma that serve about 935,000 meters, representing 2.1 million people.

### Diverse generation fleet meets members' needs

Associated's resources include gas, coal, wind, hydropower and fuel oil, complemented by its Take Control & Save energy-efficiency program.

### 2023 member load resources



## Coal fleet

**New Madrid Power Plant – New Madrid, Mo.**

Unit 1 – 1972, Unit 2 – 1977, 617 MW each

**Thomas Hill Energy Center – Clifton Hill, Mo.**

Unit 1 – 1966, 175 MW

Unit 2 – 1969, 280 MW

Unit 3 – 1982, 725 MW

## Combined-cycle fleet

**Chouteau Power Plant (natural gas) – Pryor, Okla.**

Unit 1 – 2000, two units, 484 MW total

Unit 2 – 2011, two units, 521 MW total

Plant operated by Siemens.

**Dell Power Plant (dual-fuel, natural gas and fuel oil) – Dell, Ark.**

Units 1 and 2 – 2007, 569 MW total

**St. Francis Power Plant (natural gas) – Glennonville, Mo.**

Unit 1 – 1999, 241 MW

Unit 2 – 2001, 255 MW

Plant operated by Siemens.

## Simple-cycle fleet

**Essex Power Plant (natural gas) – Idalia, Mo.**

Unit 1 – 1999, 113 MW

**Holden Power Plant (dual-fuel, natural gas and fuel oil) – Holden, Mo.**

Units 1, 2 and 3 – 2002, 101 MW each

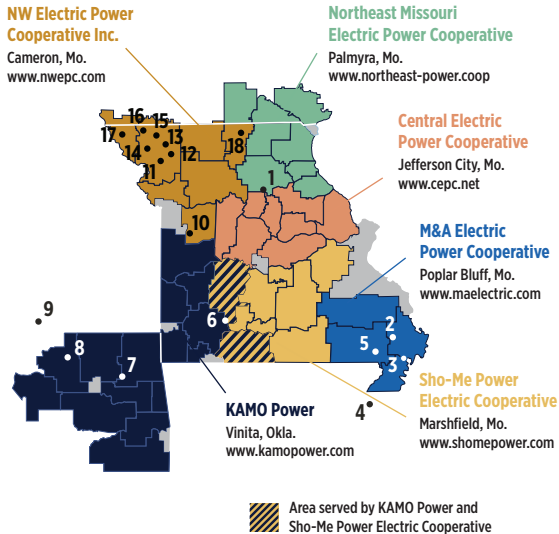
**Nodaway Power Plant (natural gas) – Maryville, Mo.**

Units 1 and 2 – 1999, 98 MW each

**Unionville Power Plant (fuel oil) – Unionville, Mo.**

Units 1 and 2 – 1976, recommissioned 2024, 22 MW each

## Service areas and facilities



## Facilities

1. Thomas Hill Energy Center
2. Essex Power Plant
3. New Madrid Power Plant
4. Dell Power Plant, Arkansas
5. St. Francis Power Plant
6. Headquarters
7. Chouteau Power Plant, Oklahoma
8. Osage Wind Farm, Oklahoma
9. Flat Ridge 2 Wind Farm, Kansas
10. Holden Power Plant
11. Lost Creek Wind Farm
12. Bluegrass Ridge Wind Farm
13. Conception Wind Farm
14. White Cloud Wind Farm
15. Nodaway Power Plant
16. Clear Creek Wind Farm
17. Cow Branch Wind Farm
18. Unionville Power Plant

## Diverse power sources

### Owned sources

|                           | <u>Capacity (MW)</u> |
|---------------------------|----------------------|
| Chouteau Power Plant      | 1,005                |
| Dell Power Plant          | 569                  |
| Essex Power Plant         | 113                  |
| Holden Power Plant        | 303                  |
| New Madrid Power Plant    | 1,234                |
| Nodaway Power Plant       | 196                  |
| St. Francis Power Plant   | 496                  |
| Thomas Hill Energy Center | 1,180                |
| Unionville Power Plant    | 44                   |
| Subtotal                  | <u>5,140</u>         |

### Contract sources

|                      |              |
|----------------------|--------------|
| SWPA hydropower peak | <u>478</u>   |
| Total                | <u>5,618</u> |

### Wind energy

Associated contracts with eight wind farms totaling 1,240 MW of nameplate capacity. Wind capacity is not included for peak planning purposes.

Associated sells and does not retain or retire all of the environmental attributes of energy generated by 1,240 megawatts of contracted wind facilities. This brings in revenue that helps keep members' electricity affordable.

## 2023 operating statistics

|  |        |
|--|--------|
| <b>Coal units' availability factor</b>                           | 67.9%  |
| (Percentage of time units are available to generate electricity) |        |
| <b>Coal units' unplanned-outage factor</b>                       | 16.9%  |
| AECI three-year average  | 12.1%  |
| <b>Coal units' capacity factor</b>                               | 49.8%  |
| <b>Gas fleet capacity factor</b>                                 | 51.5%  |
| <b>Gas fleet starting reliability</b>                            | 97.3%  |
| <b>Gas fleet availability factor</b>                             | 87%    |
| <b>Gas fleet accumulated unit hours of operation</b>             | 85,765 |

### Focus fixed on safety

Associated targets zero injuries. Its 2023 recordable incident rate was 1.68 per 200,000 hours worked.

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## 2023 financial highlights

(in thousands)

|   |              |
|---|--------------|
| Operating revenue   | \$ 1,393,352 |
| Operating expenses  | \$ 1,258,961 |
| Interest expense on long-term debt<br>(less interest capitalized) | \$ 63,985    |
| Net nonoperating income   | \$ 10,966    |
| Net margin  | \$ 81,373    |
| Total assets  | \$ 3,513,122 |

## 2023 statistical highlights

|                                  |                |
|----------------------------------|----------------|
| Net generation (coal & gas)      | 23,910,569 MWh |
| Member sales                     | 19,700,928 MWh |
| Fuel, operations and maintenance | \$37.95/MWh    |
| Summer peak demand* (8-20-23)    | 4,554 MW       |
| All-time peak demand* (12-23-22) | 5,899 MW       |
| <i>*Peak hour member demand</i>  |                |

|                                    |             |
|------------------------------------|-------------|
| Revenue from members               | \$53.92/MWh |
| Total part-and full-time employees | 705         |
| Dell Power Plant                   | 26          |
| Headquarters                       | 272         |
| Gas plants                         | 14          |
| New Madrid Power Plant             | 172         |
| Thomas Hill Energy Center          | 221         |

## Transmission

Associated's and its six G&T owners' integrated, high-voltage transmission system enables Associated to reliably and economically serve member load, as well as transact business with investor-owned and municipal utilities, electric cooperatives, power marketing firms and regional transmission organizations.

Transmission lines owned by Associated and its six G&T owners:

|                      |                      |
|----------------------|----------------------|
| 69-kV – 7,134 miles  | 345-kV – 760 miles   |
| 138-kV – 275 miles   | 500-kV – 46 miles    |
| 161-kV – 2,073 miles | Total – 10,288 miles |

# Associated Electric Cooperative

David J. Tudor, CEO and general manager

## Executive team

Accounting and Finance – Meredith T. Roberts

Corporate Compliance and Risk – Brian A. Prestwood

Engineering and Operations – Roger S. Clark

Human Resources – Shawn P. Calhoun

Information Services – Christopher D. Lazzaro

Member Services and Corporate Communications –  
Joseph E. Wilkinson

Power Production – Scott E. Thompson

## Board of directors

Emery O. Geisendorfer, president

Thomas W. Howard

John B. Killgore, vice president

Jason L. Marshall

Larry E. Culwell, secretary

David L. McDowell

John R. Bledsoe, treasurer

Dan A. Singletary

Douglas H. Aeilts

Daryl R. Sorrell

Theodore J. Hilmes

Christopher M. Turner

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