

Missouri's wind energy leader

Associated Electric Cooperative Inc.

A Touchstone Energy® Cooperative 



Power supply facts

Our power supplier, Associated Electric Cooperative, was the first and remains the leading utility to provide Missouri wind power to consumers.

The cooperative is buying all the power for 20 years from Missouri's first utility-scale wind farms. This commitment, as well as the strong high-voltage transmission system owned by Associated Electric Cooperative and its members, brought wind power to Missouri.

Associated has long-term wind power purchase agreements for 300 megawatts from Missouri's first utility-scale wind farms, as well as contracts for 300 megawatts from BP Wind Energy's Flat Ridge 2 farm in south-central Kansas and 150 MW from The Osage Wind Farm in northeast Oklahoma.

Associated continues to consider renewable energy options that meet its member systems' needs.

In 2018 Associated announced a long-term power purchase agreement with a fifth Missouri wind farm under development. The 236-MW Tenaska Clear Creek Energy Center in Nodaway County, Missouri, is expected to be operational in 2020.

Locking in long-term, economical fixed-cost wind power helps Associated mitigate the impact of expected increases in fuel and power prices. In addition, the Kansas and Oklahoma wind farms add geographic diversity to Associated's Missouri wind farm portfolio.

Associated's wind power portfolio is 750 MW – and those wind farms generated 14 percent of members' energy in 2017. The Tenaska farm will bring Associated's wind energy portfolio to 986 MW.

Because wind is an intermittent resource, Associated supplements it with fuel-based generation to ensure reliable electricity for members.

Bluegrass Ridge Wind Farm

27 2.1-MW turbines
50 MW contracted
10,000 acres
Gentry County, Mo.

Commercial operation, 2007

Conception Wind Farm

24 2.1-MW turbines
50 MW contracted
7,000 acres
Nodaway County, Mo.

Commercial operation, 2008

Cow Branch Wind Farm

24 2.1-MW turbines
50 MW contracted
7,000 acres
Atchison County, Mo.

Commercial operation, 2008

Flat Ridge 2 Wind Farm

194 1.6-MW turbines
300 MW contracted
66,000 acres
Barber, Harper, Kingman, Sumner counties, Kan.

Commercial operation, 2012

Lost Creek Wind Farm

100 1.5-MW turbines
150 MW contracted
20,000 acres
DeKalb County, Mo.

Commercial operation, 2010

Osage Wind Farm

94 1.6-MW turbines
150 MW contracted
8,500 acres
Osage County, Okla.

Commercial operation, 2015

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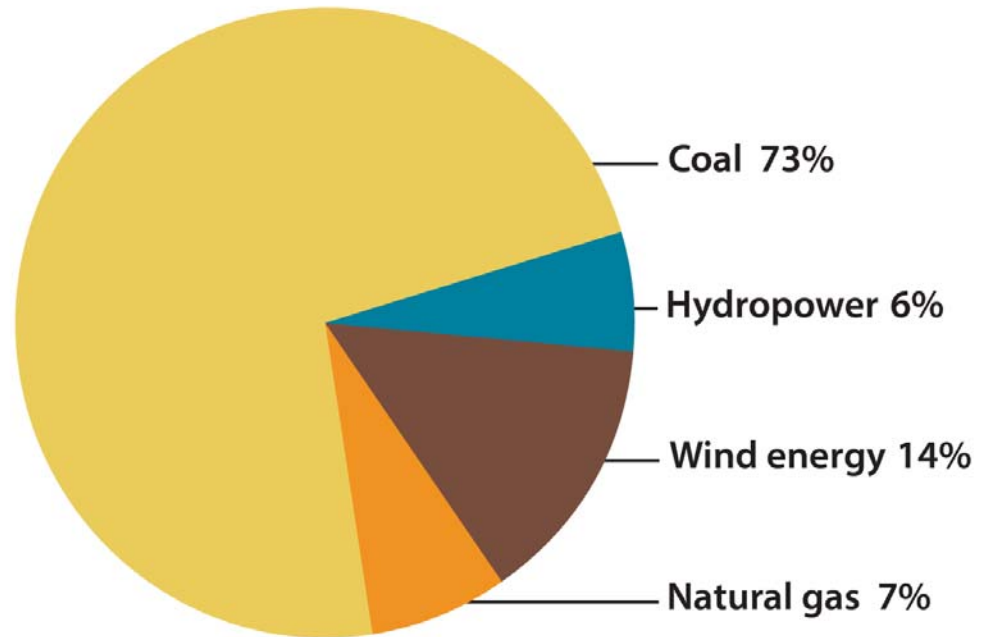
Power supply facts

Our power supplier, Associated Electric Cooperative, generates electricity for six regional and 51 local electric cooperatives in Missouri, southeast Iowa and northeast Oklahoma that serve about 910,000 households, farms and businesses.

Although member cooperatives relied on coal-based power plants to provide most of their electricity in 2017, wind energy from six wind farms also supplied some of those energy needs.

Wind energy is part of a mix of resources, including the Take Control & Save energy efficiency program, hydropower, coal and gas, Associated uses to supply reliable and affordable electricity for members.

2017 generation to supply members



For its role in encouraging Missouri wind farm development, Associated was nominated by the Missouri Department of Natural Resources and previously recognized as Wind Cooperative of the Year by the U.S. Department of Energy.

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Power supply facts

405 ft.

Commercial wind turbines like those in northwest Missouri are taller than the U.S. Capitol.

289 ft.

260 ft.

80 ft.

U.S. Capitol

1.5-2.1 megawatts

Wind farm turbines in northwest Missouri

1.2-10 kilowatts

Residential wind turbines