

Elk River Peaking Station



*Elk River Peaking Station,
Elk River, Minn.,
Sherburne County*

Great River Energy's Elk River Peaking Station, a 175-megawatt (MW) natural gas peaking facility, was completed in early July 2009. It is located at Great River Energy's Elk River Energy Park, Elk River, Minn., next to Elk River Station, the company's waste-to-energy baseload power plant. It is fueled with natural gas April through October, and the rest of the year with ultra-low sulfur diesel.

Providing reliability

The Elk River Peaking Station operates during times of peak electrical demand, such as during periods of very high or very low temperatures, particularly during summer periods of significant air conditioner use. In addition, the facility is called upon to support voltage on the transmission grid. The peaking plant will most likely operate between 500 and 1,100 hours per year.

Quick facts

- 175-MW (could power approx. 150,000 homes)
- Located in the city of Elk River, Minnesota, Sherburne County
- Located next to Elk River Station, Great River Energy's waste-to-energy baseload power plant

- Siemens simple-cycle combustion turbine
- Natural gas-fueled April-October; back-up fuel is ultra-low sulfur diesel
- Expected to average 100 starts and operate 500 to 1,100 hours annually

Transmission upgrades

In conjunction with the construction of the Elk River Peaking Plant, area transmission lines were rebuilt and/or upgraded, including improvements to approximately 6 miles of existing 69-kV transmission line in the area. The voltage of these lines remained the same, and the improvements required no new corridors.

More about Elk River Energy Park

This new peaking facility is being built at Elk River Energy Park, a location already owned by Great River Energy, which is in close proximity to a natural gas pipeline. The site is also home to Elk River Station, Great River Energy's waste-to-energy baseload power plant, which uses refuse-derived fuel to generate up to 40 MW of electricity. A new high-bay, low-bay building for transmission storage and office space was also recently built on the site. Approximately 200 Great River Energy plant and office employees work at Elk River Energy Park.

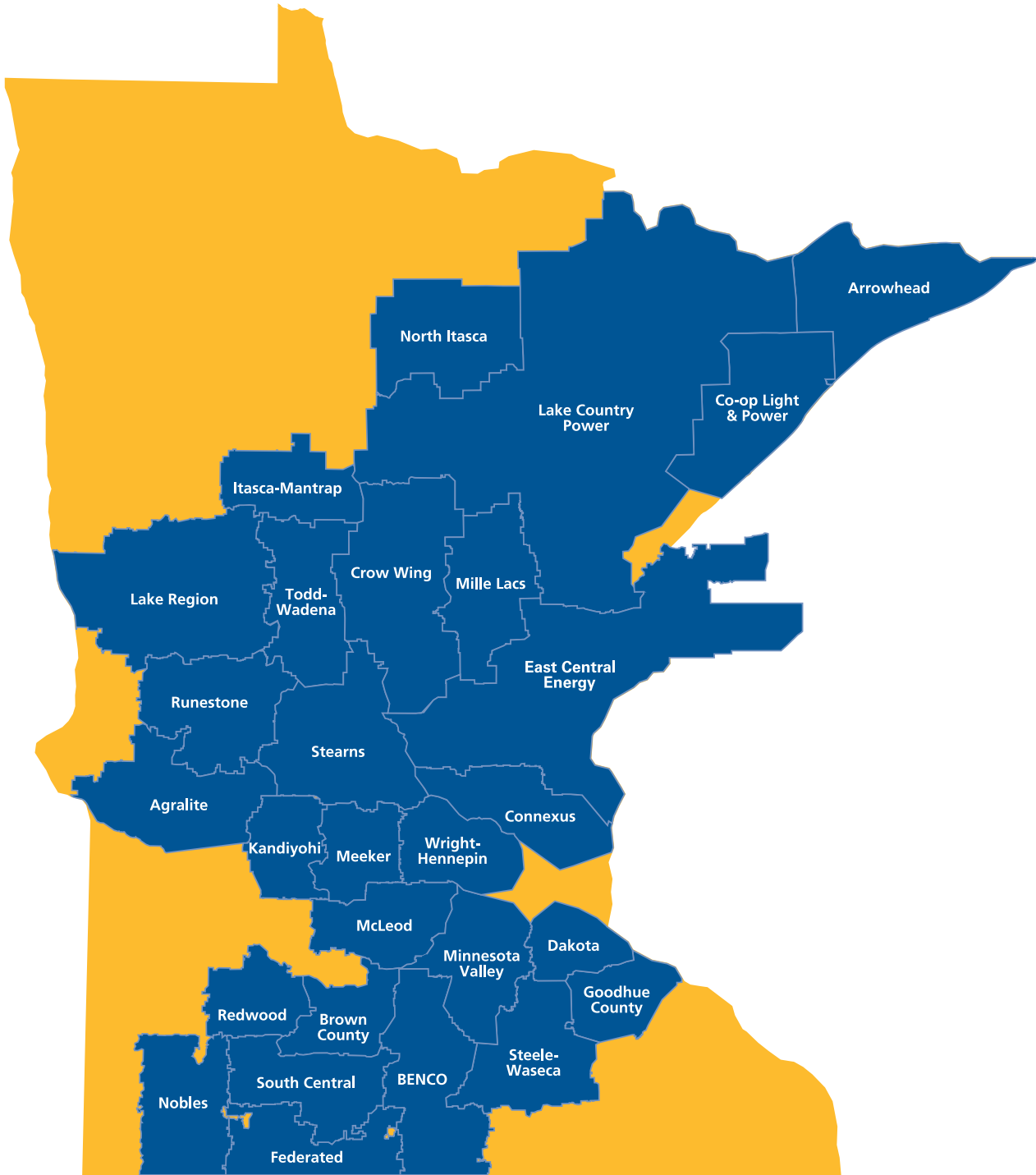
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About Great River Energy

Great River Energy is a not-for-profit wholesale electric cooperative, serving 28 distribution cooperatives in Minnesota and covering 60 percent of the state, geographically. It is the second largest power supplier in Minnesota, based on generating capacity.

For more information about this project and Great River Energy, visit www.GreatRiverEnergy.com or call 763-241-2200.



Great River Energy is the wholesale electric power provider to 28 member distribution cooperatives across Minnesota.