Municipal ‘microgrids’ in Minnesota

Steve Downer
Associate Executive Director
Minnesota Municipal Utilities Association
downers@mmua.org

Troy Adams, P.E.
General Manager
Elk River Municipal Utilities
tadams@elkriverutilities.com
‘PUBLIC POWER’ in Minnesota

• 125 municipal electric utilities

• Serve 360,750 customers

• Average size: 2,941 customers

• Median: 1,268 customers
Elk River is the county seat of Sherburne County, MN

The 2012 population was 23,147
Elk River Municipal Utilities

- Serve over 9,300 electric customers in Elk River, Otsego, Big Lake Township, and Dayton
- Over 44 square miles of electric service territory
- 2013 system peak over 61MW
Elk River Power and Light Company
Incorporated June 1915
Elk River Municipal Utilities
Became PUBLIC POWER on October 4, 1945
Elk River Municipal Utilities’ Diesel Power Plant is currently contracted as emergency capacity with Great River Energy
The 2 original 1948 “black start” 550kW Worthington diesel generating units are still in good working condition.
The Elk River Municipal Utilities diesel power plant also includes a 1962 duel-fuel 2,500kW Cooper (front) and a 1971 duel-fuel 5,000kW Worthington (back).
In 2002 Elk River Municipal Utilities installed three 800kW Caterpillar generating units at the Elk River Landfill.
A 4th 800kW Caterpillar generating unit was installed at the Elk River Landfill in 2006.