Northeast Minnesota Planning Zone

Electric Transmission Lines and Substations

Sources:
-Center for Urban and Regional Affairs (CURA)
-Federal Aviation Administration Digital Obstacle Data, aquired from Minnesota Department of Commerce. Xcel file dated 2/12/07.
-Wind Logics 80m Wind Data & Reader, Minnesota Department of Commerce, 11/2005.
-MISO Generation Interconnection Queue, 3/17/2008.

Koochiching - 0 MW
Cook - 18 MW
Lake - 0 MW
St. Louis - 775 MW
Itasca - 846 MW
Hubbard - 0 MW
Cass - 0 MW
Wadena - 0 MW
Aitkin - 0 MW
Carlton - 0 MW
Crow Wing - 0 MW
Todd - 32.5 MW
Morrison - 0 MW
Pine - 0 MW
Mille Lacs - 0 MW
Kanabec - 0 MW
Isanti - 0 MW

N

Legend

Net Turbine Capacity Factor at 80 Meters

- <29%
- 29-31%
- 31-34%
- 34-37%
- 37-39%
- 39-42%
- 42-44%
- 44-47%

Wind Generation

- Wind Turbine Locations

Substations

- Name (Min,Max Historical Load)

Transmission Lines

- 23 kV AC
- 34.5 kV AC
- 41.6 kV AC
- 46 kV AC
- 57 kV AC
- 69 kV AC
- 115 kV AC
- 138 kV AC
- 161 kV AC
- 230 kV AC
- 345 kV AC
- 500 kV AC
- 250 kV DC
- 400 kV DC

Cities

- ★ Population 25,000+
- ★ Population 10,000 - 25,000
- Cities_Population1000_10000

Roadways

- Interstates
- Highways

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