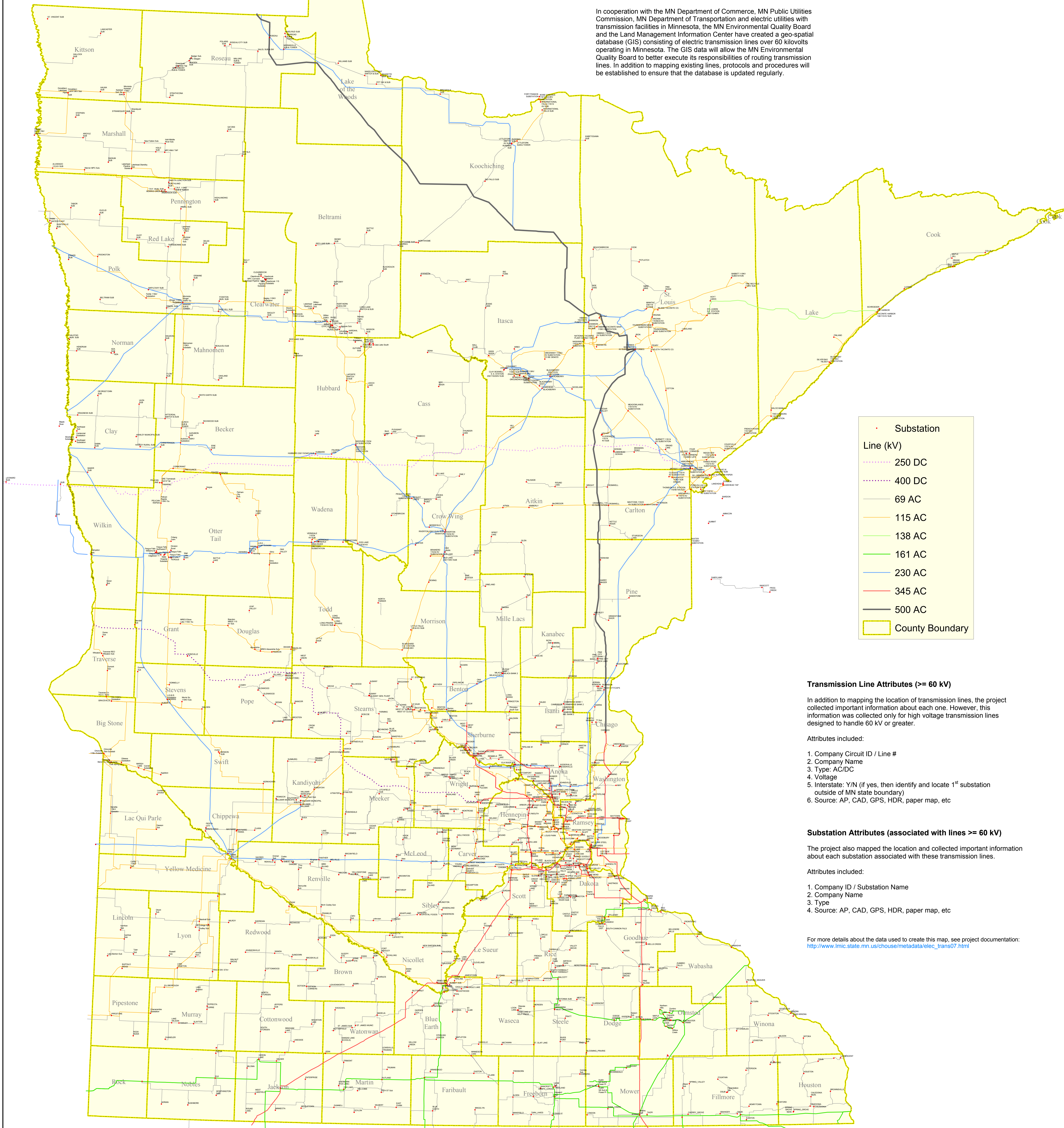


MINNESOTA Electric Transmission Lines and Substations

60 kV or larger
2007

In cooperation with the MN Department of Commerce, MN Public Utilities Commission, MN Department of Transportation and electric utilities with transmission facilities in Minnesota, the MN Environmental Quality Board and the Land Management Information Center have created a geo-spatial database (GIS) consisting of electric transmission lines over 60 kilovolts operating in Minnesota. The GIS data will allow the MN Environmental Quality Board to better execute its responsibilities of routing transmission lines. In addition to mapping existing lines, protocols and procedures will be established to ensure that the database is updated regularly.



• Substation

Line (kV)

- 250 DC
- 400 DC
- 69 AC
- 115 AC
- 138 AC
- 161 AC
- 230 AC
- 345 AC
- 500 AC
- County Boundary

Transmission Line Attributes (>= 60 kV)

In addition to mapping the location of transmission lines, the project collected important information about each one. However, this information was collected only for high voltage transmission lines designed to handle 60 kV or greater.

- Attributes included:
1. Company Circuit ID / Line #
 2. Company Name
 3. Type: AC/DC
 4. Voltage
 5. Interstate: Y/N (if yes, then identify and locate 1st substation outside of MN state boundary)
 6. Source: AP, CAD, GPS, HDR, paper map, etc

Substation Attributes (associated with lines >= 60 kV)

The project also mapped the location and collected important information about each substation associated with these transmission lines.

- Attributes included:
1. Company ID / Substation Name
 2. Company Name
 3. Type
 4. Source: AP, CAD, GPS, HDR, paper map, etc

For more details about the data used to create this map, see project documentation:
http://www.lmic.state.mn.us/chouse/metadata/elec_trans07.html



GIS Data Files: elecline07, elcsubs07
(available formats: ESRI shapefile or interchange file)
Metadata: http://www.lmic.state.mn.us/chouse/metadata/elec_trans07.html
Map File: Electric_Map_May2108.mxd (ElecTran07.pdf)
Publication Date: May, 2008 (NWA)
Prepared for the Minnesota Environmental Quality Board by the
Land Management Information Center.
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