



South Dakota Public Utilities Commission

Big Stone Transmission South Dakota Permit to Construct

January 2, 2007

Agenda



- Project description
- Project development process
- Timeline
- Stipulations
- Conclusion

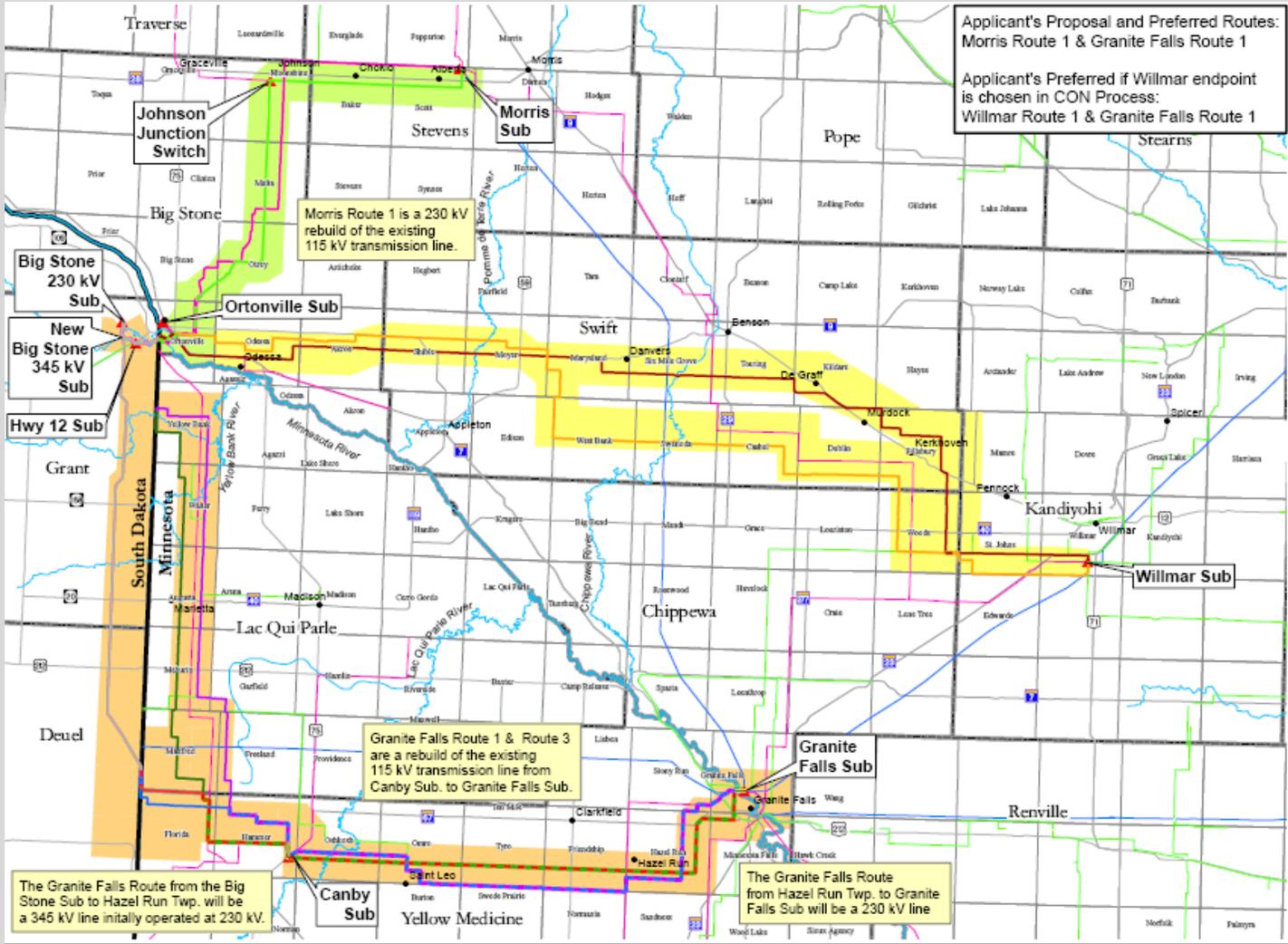
Big Stone Transmission Co-owners



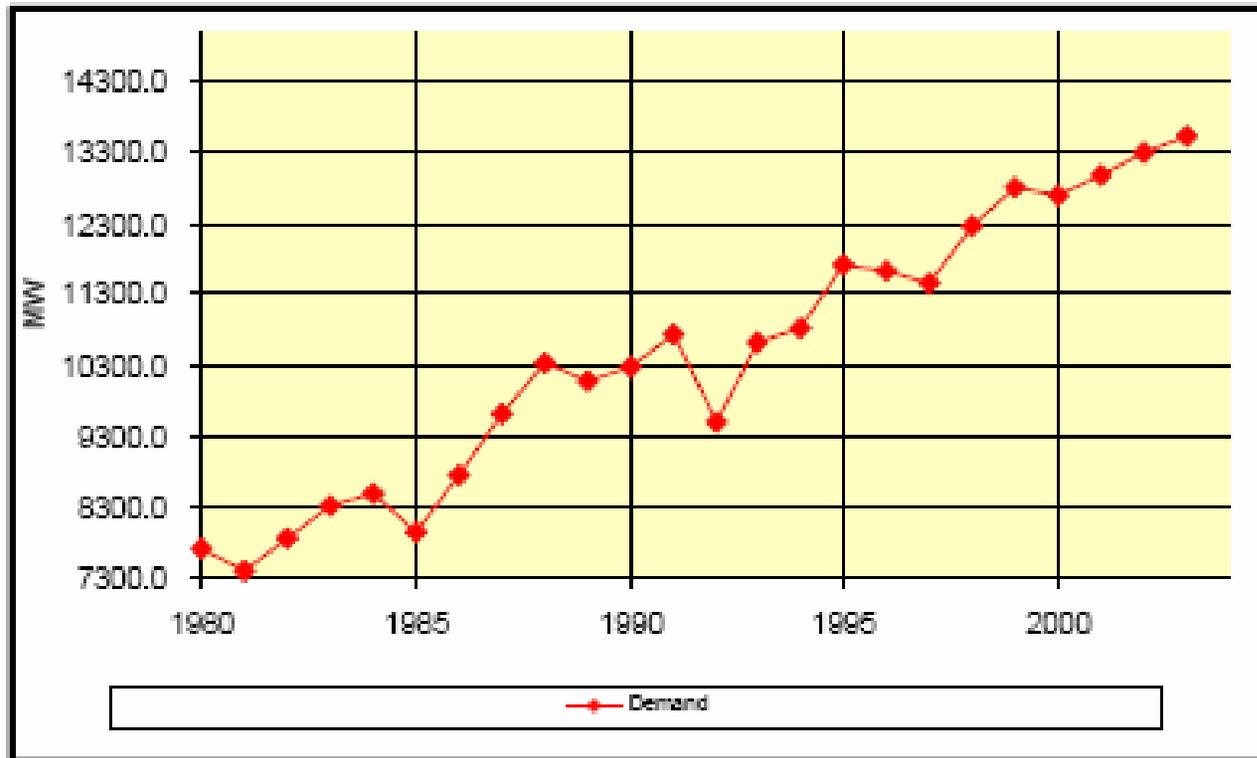


Proposal

- **Alternative #1** A new line from Big Stone to Ortonville, MN, with an uprate of the Ortonville to Johnson to Morris, MN, line from 115 kV to 230 kV.
- **Alternative #2** A 230 kV new line from Big Stone, to Willmar, MN.
- **Common to both** A new line from Big Stone, to Canby, MN, and an uprate of the line from Canby to Granite Falls, MN. Line designed for 345 kV, but operated at 230 kV until other regional facilities constructed.

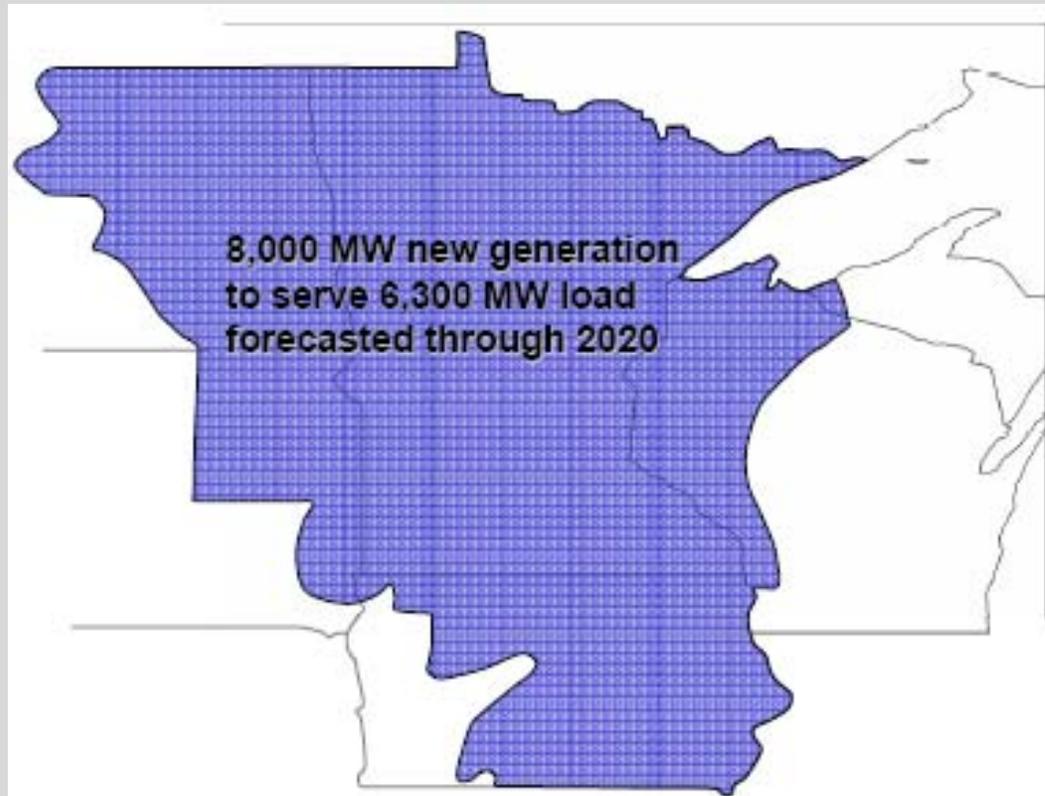


Growing Demand



CapX Transmission Development Partners

Regional needs



Source: CAPX 2020



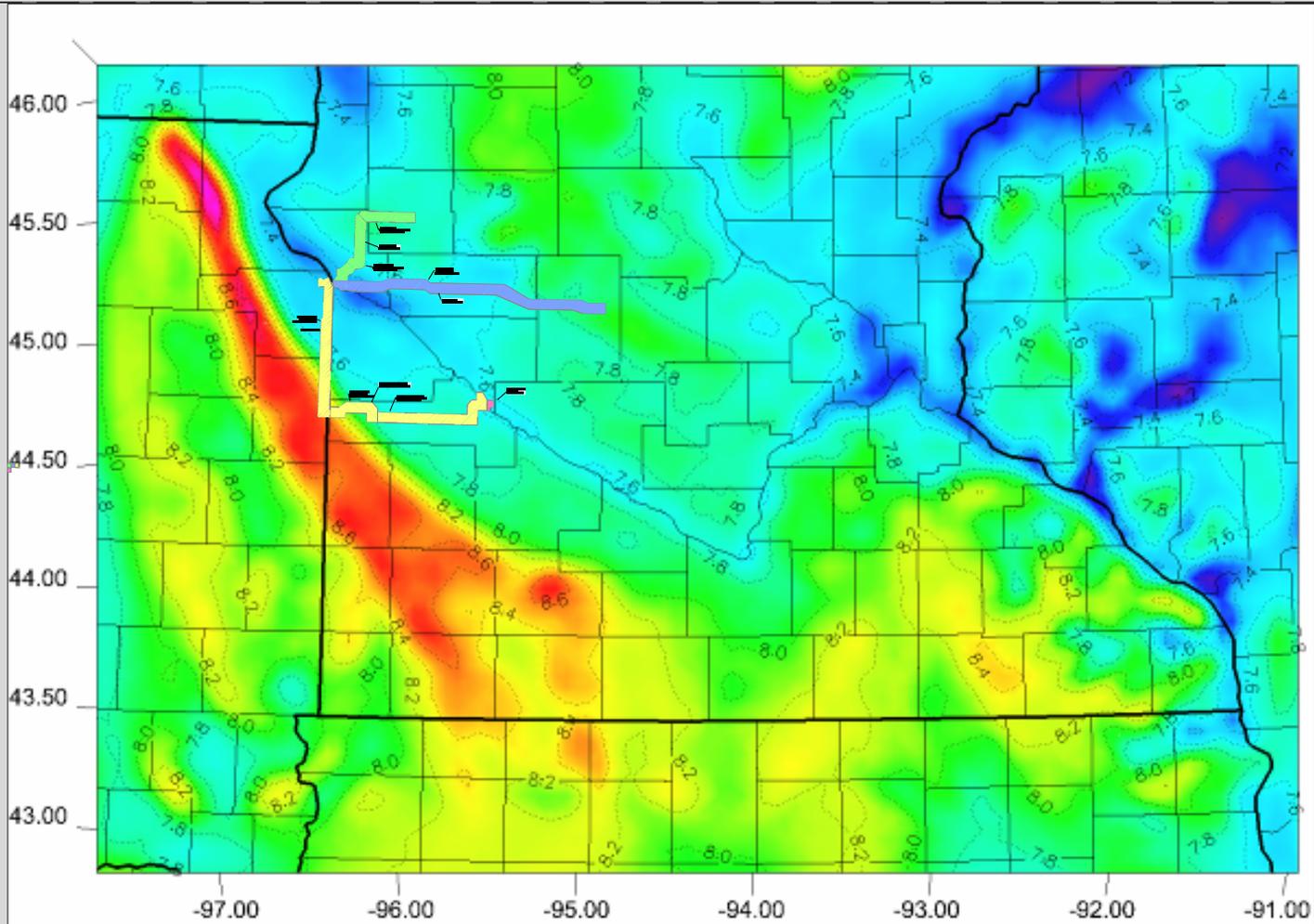
Development Process

- Performed technical studies
 - Approved by MAPP design review sub-committee
- Public input
 - Four public meetings
- Environmental review
 - Federal Environmental Impact Statement

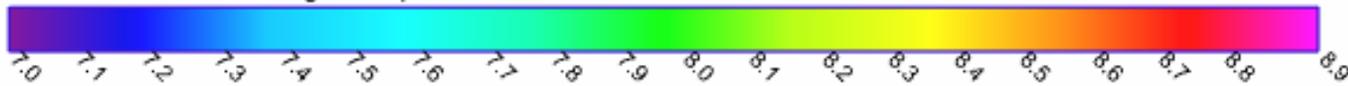


Development Process Cont.

- One-on-one land owner input
 - 38.45 miles of land owners
 - 101 parcels with options for easement
 - 14 changes due to land owner concerns
 - 1 change due to environmental
- City of Gary
- Data request
 - Two sets



AvgWindSpd m/s





Stipulations

- Receive all Federal, State, & Local permits
- Comply with Federal EIS
- Comply with Findings of Fact
- Provide updates to Public Utilities Commission on design
- Request approval on any changes from the Public Utilities Commission
- Continue communication with land owners



Conclusions

- Proposal
 - Build 230 kV line from Big Stone to Ortonville
 - Build 345 kV line from Big Stone to Canby, MN but operate at 230 kV
- Benefits
 - Provide customers with low cost reliable electricity
 - Improve system reliability
 - Increase transmission system capability
- Abide by stipulations