

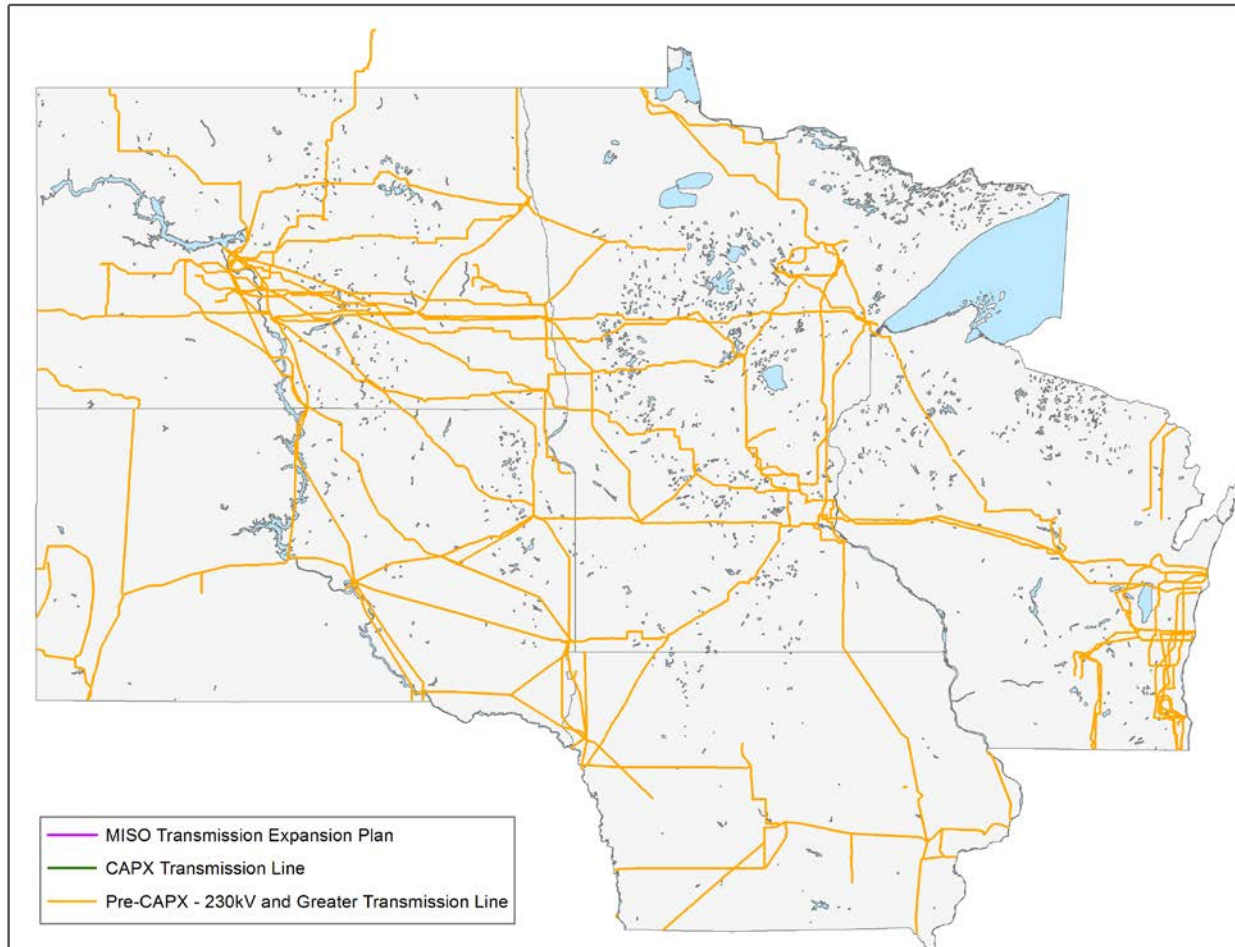
Transmission Challenges

Gordon Pietsch

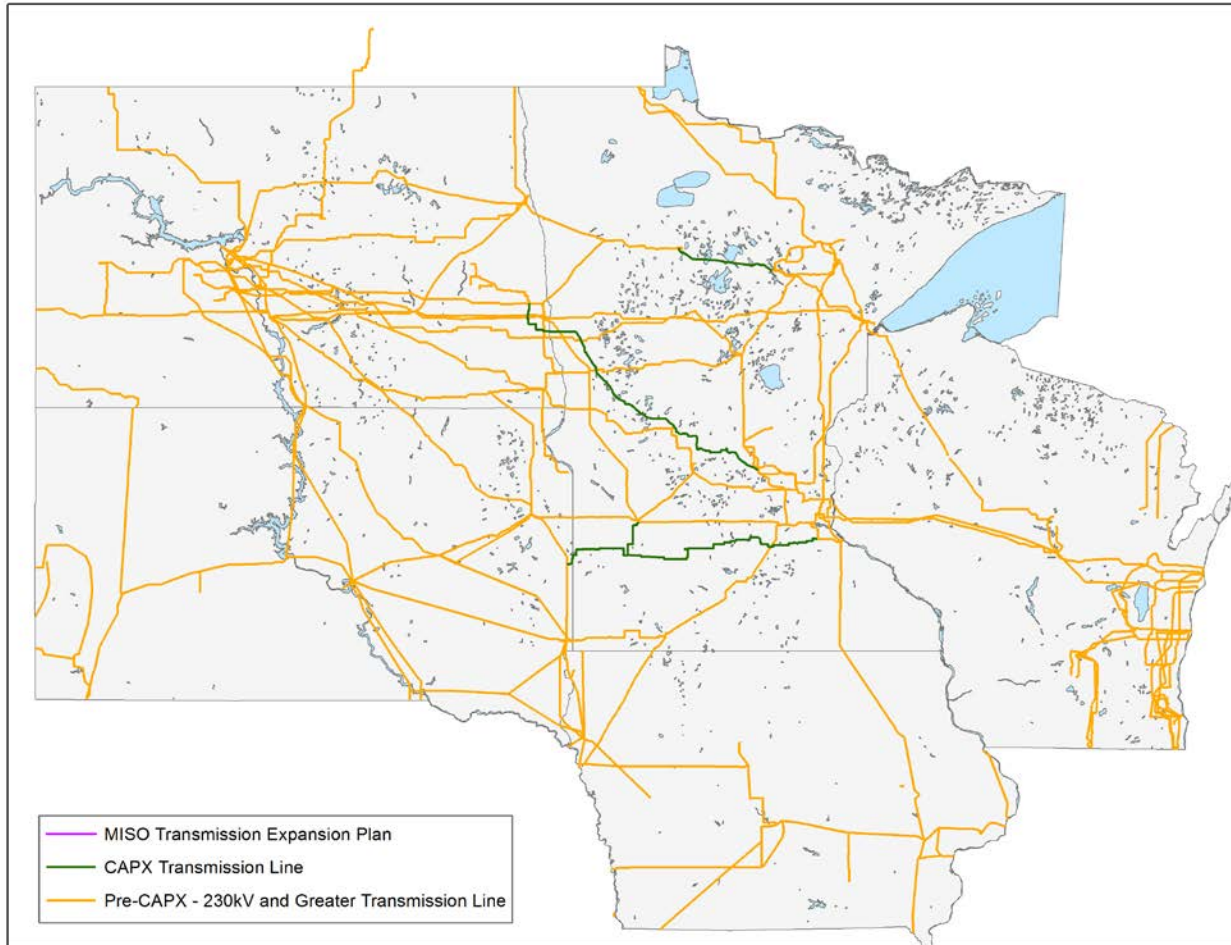
Great River Energy

June 2015

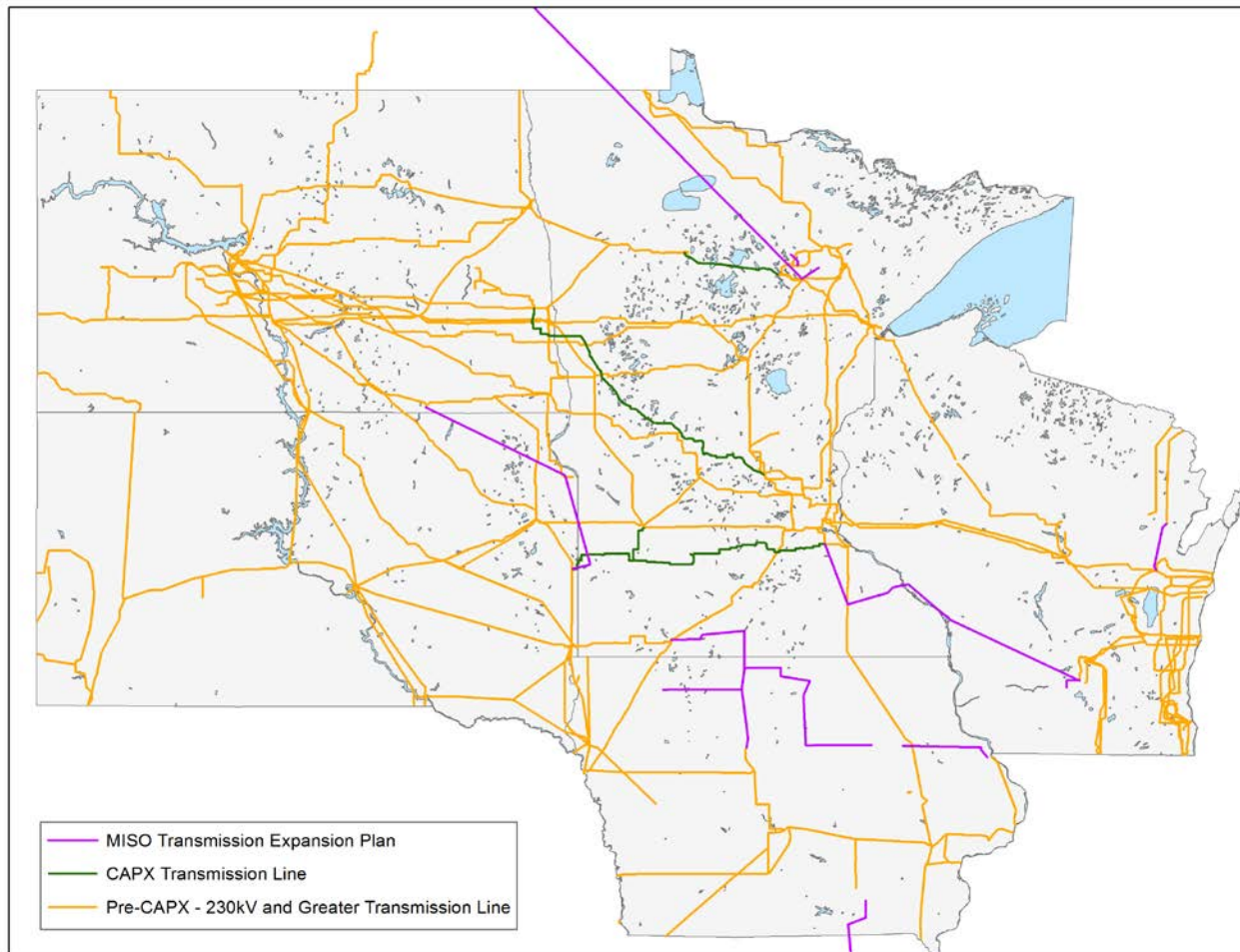
Transmission 2000



Transmission today

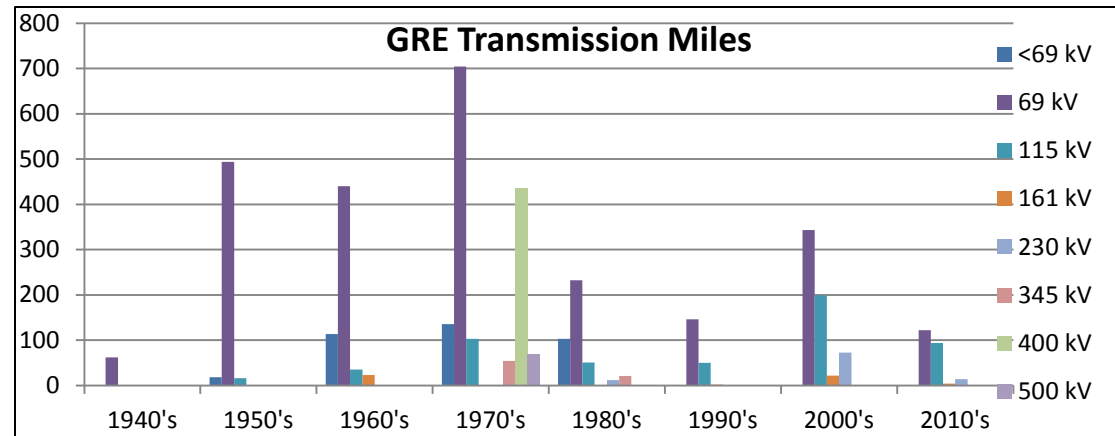
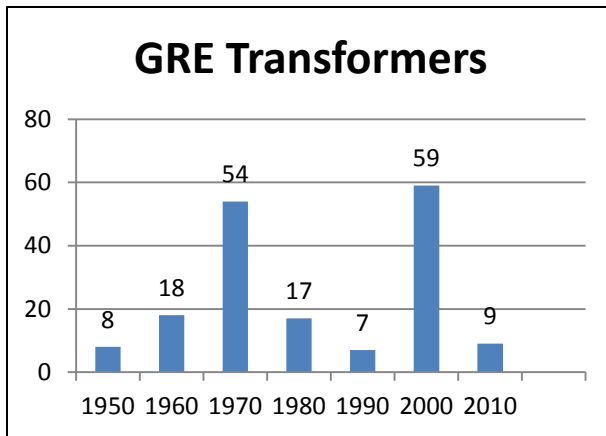


Transmission plan 2020



Challenges

► Aging infrastructure



► Security



Challenges

- Climate Change

- Short term weather patterns
- Long term climate change



- Regulatory compliance



Federal Energy
Regulatory
Commission

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION



Operational Challenges

Load Pattern



Resource Mix



Technology



Knowledge



Opportunities

Education



Resiliency



PARTNERSHIP FOR
ENERGY SECTOR
CLIMATE RESILIENCE
U.S. DEPARTMENT OF ENERGY

