



Minnesota's Energy Resources

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Minnesota Department of Commerce

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Presentation to:
**MN Senate
Energy
Committee**

Agenda

- About the Division
- Generation Mix Over Time
- Transforming Electric System
- Energy Policy Impacts
- Transmission Planning Efforts
- Transmission Support in Federal Funding

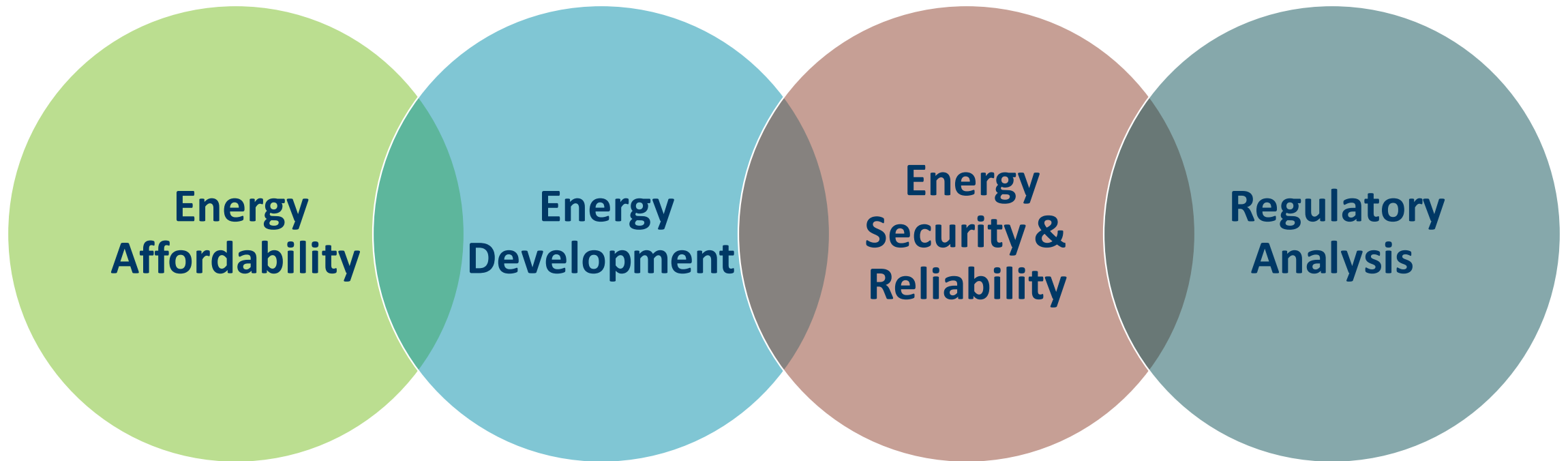
Department of Commerce

Mission

To protect and assist consumers, to ensure a strong, competitive and fair marketplace, and to engage people and communities across the state.

Division of Energy Resources

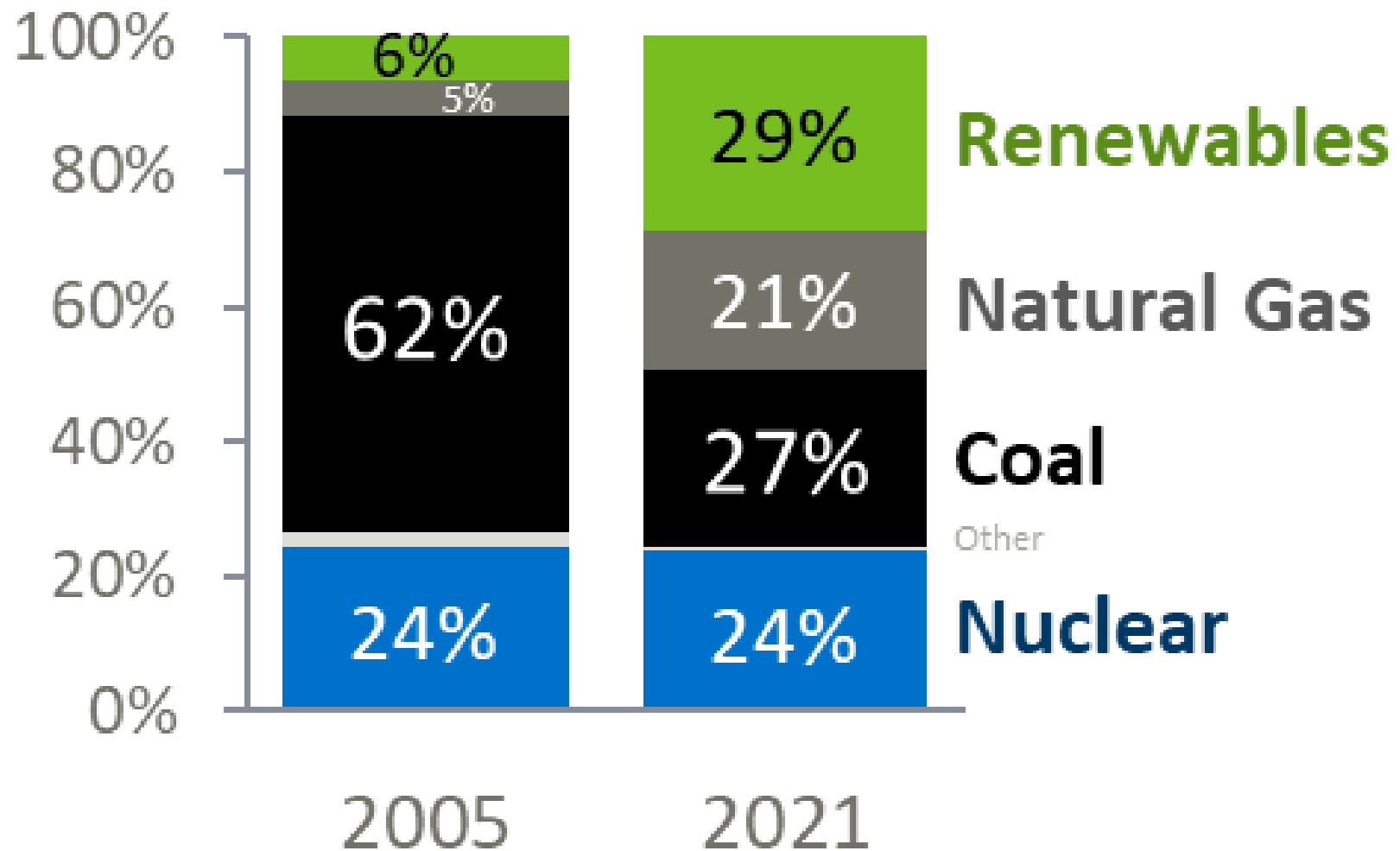
- Within the Department of Commerce
- Promote clean, reliable, and affordable energy for Minnesota homes and businesses





Minnesota's Generation Mix Over Time

Electricity Generated in Minnesota



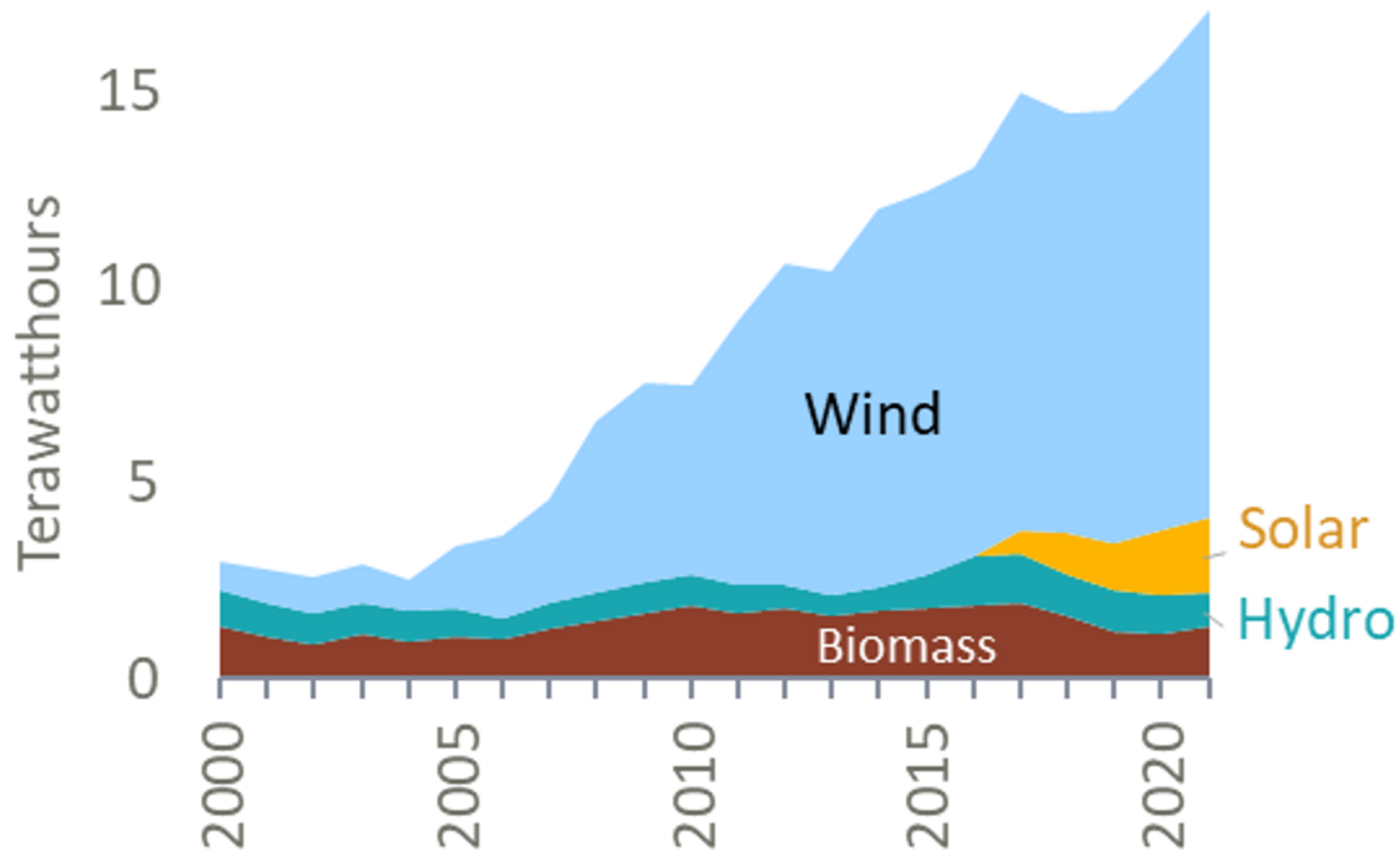
source: U.S. EIA

Minnesota's Transforming Electricity Market

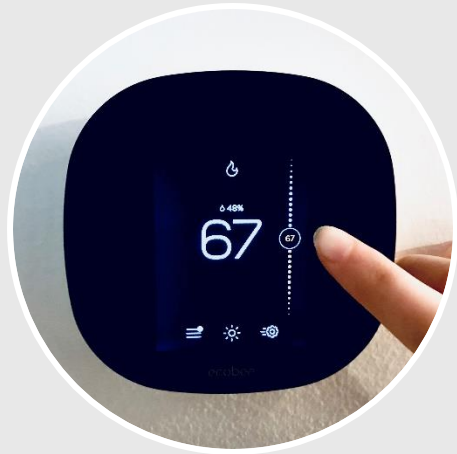


MN Renewable Electricity Generation

source: U.S. EIA



Impact of MN Policy Efforts to Date



Energy Efficiency

Saved
Minnesotans
over **\$6 Billion**



MN Coal Generation

Reduced from
over 60% to
under 25%



Electric Sector
CO₂ Emissions

Reduced by **46%**
from 2005
baseline



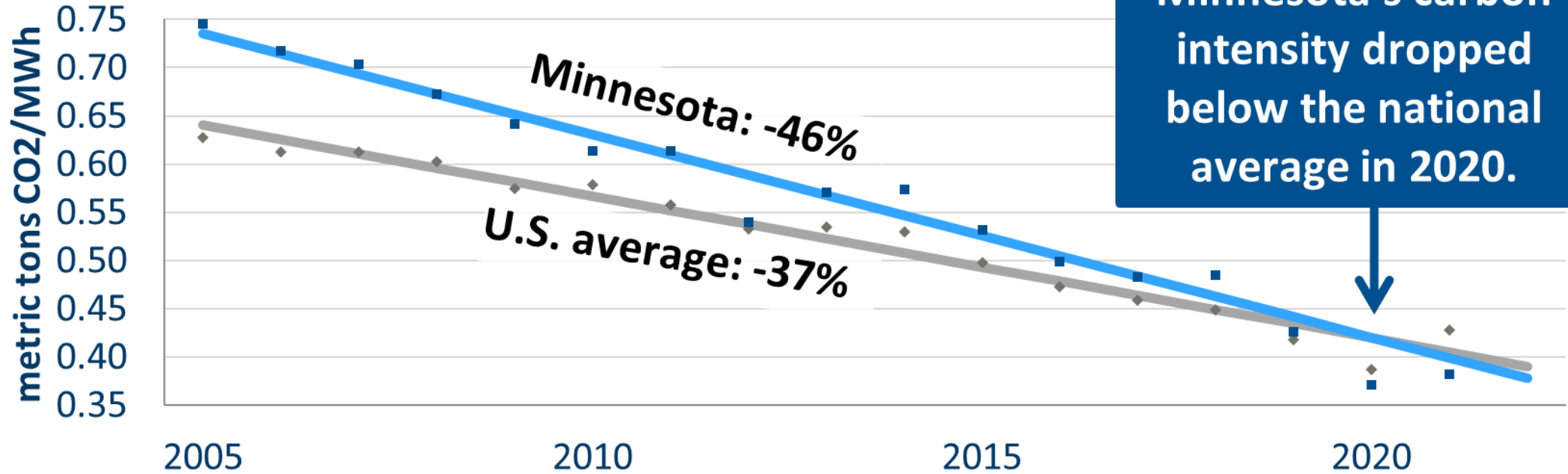
Renewable Energy

Developed nearly
6,000 MW's of Wind
& Solar

Transformation to Date – Reducing Carbon Intensity

Carbon Intensity of Electricity Generated within Minnesota

Emissions change 2005 to 2021



Source: MN Department of Commerce analysis of U.S.EIA data

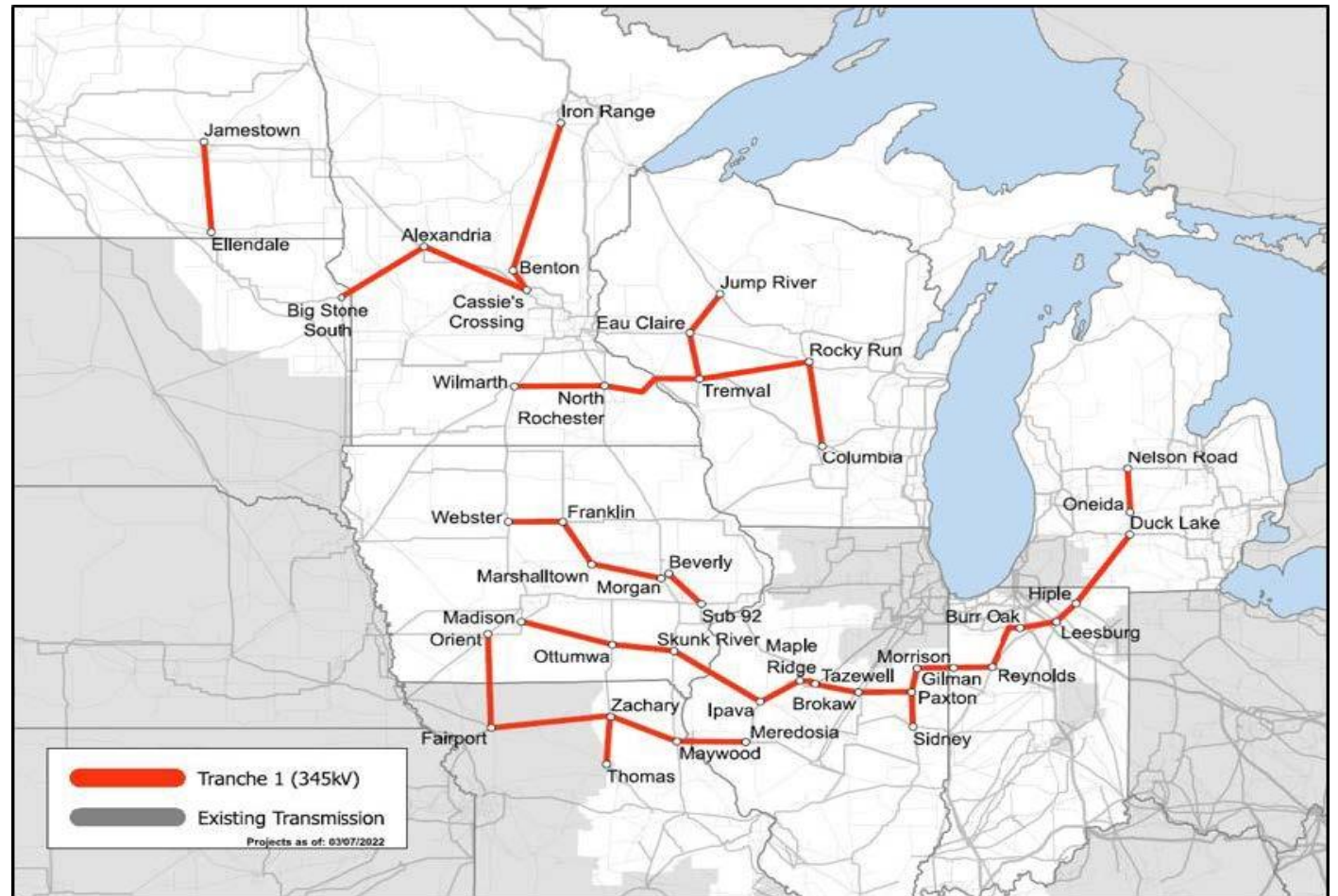
Identified Needs of MN Transmission

New high-voltage transmission is needed to facilitate wind and solar and maintain grid reliability

Commerce and PUC advocated for long-range transmission planning at MISO

MISO has proposed "Tranche 1" high-voltage lines, shown in map. three projects are in Minnesota

Planning for "Tranche 2" is ongoing



Transmission Support in Federal Funding

Transmission targeted under both the Infrastructure Investment and Jobs Act (IIJA) and Inflation Reduction Act (IRA)

- IIJA = \$16.8B in Grid Resilience and Reliability funding
- IRA = \$20B+ in financing, loans and tax credits for transmission strengthening
- More information next week during Committee meetings

Thank you!

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