

# Building Transmission to Markets Nebraska's Development Plan

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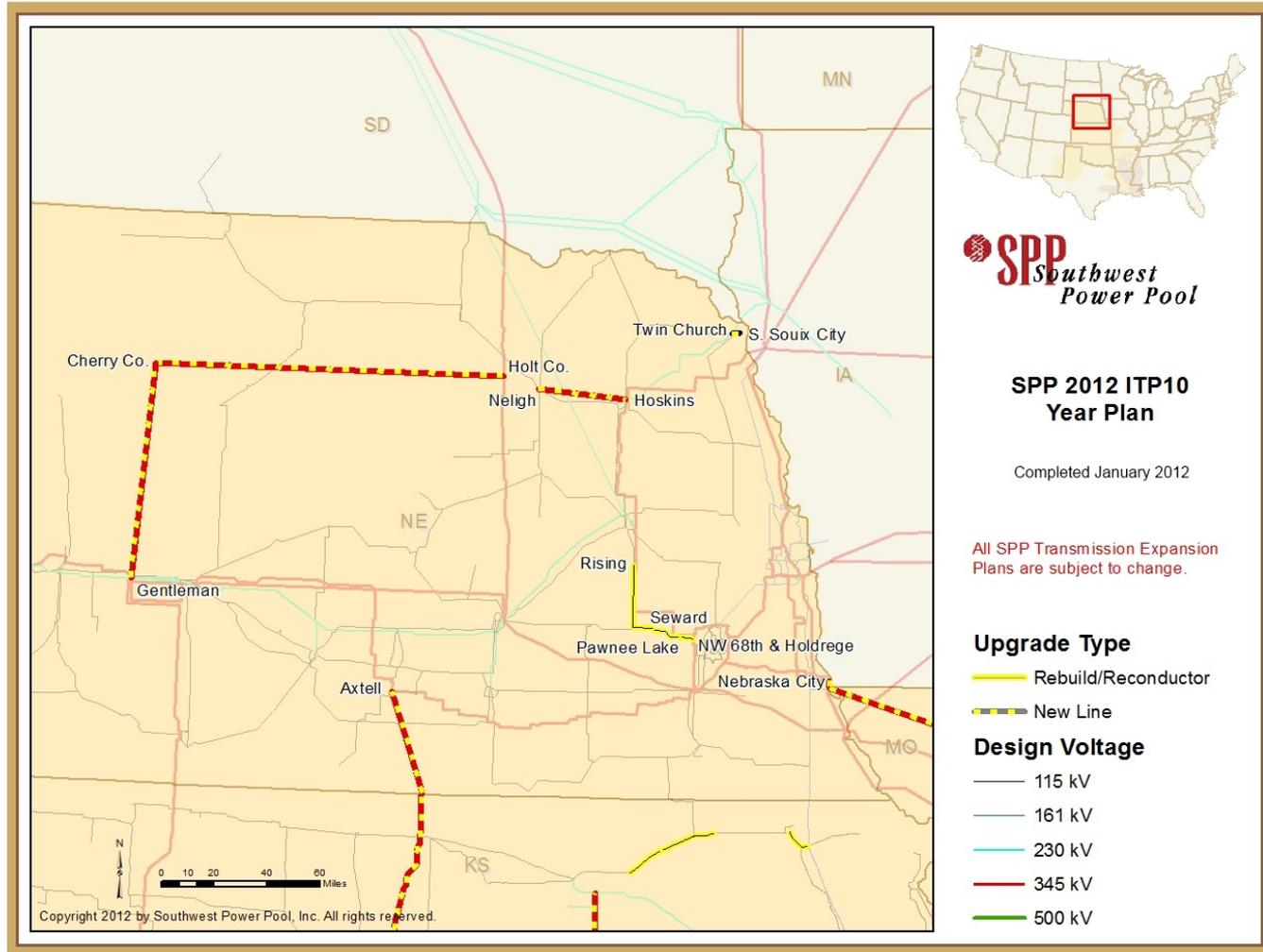
Nebraska Public Power District

Nebraska Wind Conference October 2012

# Topics

- Major Nebraska Transmission Projects authorized by the Southwest Power Pool
- Gentleman-Cherry Co.-Holt Co. and Hoskins – Neligh project status
- Impact of 2012 Summer Loads on NPPD's system
- FERC Order 1000 Interregional Planning requirements

# Major Nebraska Transmission Projects



# Gentleman-Cherry Co. - Holt Co. & Hoskins – Neligh Project Status

- April 2012 -SPP issued NPPD a Notice to Construct
  - 222 miles of 345 kV line from Gentleman Station - Cherry Co.- Holt Co.
    - Estimated Cost - \$289.3 million
    - In-service date – January 2018
  - 50 miles of 345 kV line from Hoskins – Neligh
    - Estimated Cost - \$96.7 million
    - In-service date – March 2019 (need to accelerate)
- NPPD has scheduled initial open house meetings
- February 2013 – NPPD must submit a refined cost estimate to SPP

# Project Needs

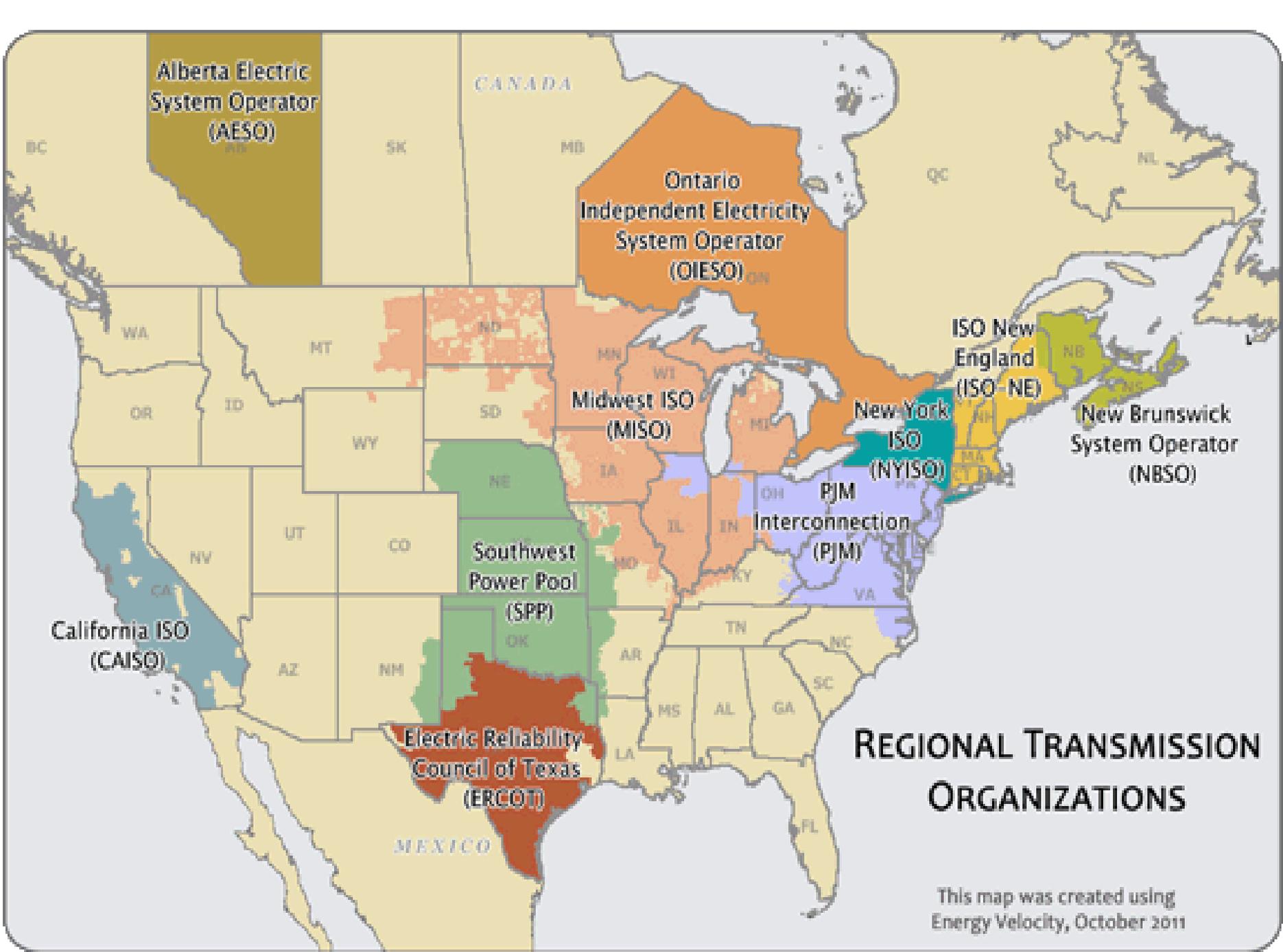
- Reliability
  - Hoskins-Neligh - Provides a new high capacity feed into the North Central area to serve new load
  - Gentleman-Cherry Co.-Holt Co. – Relieves congestion on existing transmission system, provides a parallel path for key contingencies
- Renewable integration
  - Both projects will allow for future interconnection of wind

# Impact of 2012 Summer Load on NPPD's system

- NPPD surpassed its previous peak load 40 times
- Previous peak load – 2671 MW in 2006
- 2012 peak load – 3062 MW
- Peak load growth due to irrigation
- Significant amount of this load is in the Neligh area
- NPPD is planning for system enhancements in 2013
- Need to accelerate the Hoskins-Neligh in-service date to 2016.

# FERC Order 1000

- Requires regional transmission organizations like SPP to:
  - Develop an interregional planning process with each of its planning region neighbors
  - Develop a cost allocation methodology
  - File with FERC by April 2013
  - SPP Seams Steering Committee is leading this effort



## REGIONAL TRANSMISSION ORGANIZATIONS

This map was created using Energy Velocity, October 2011