Electric Delivery in the 21\textsuperscript{st} Century

Discussion

6/16/14

The discussion points herein include the personal views of Stephen J. Beuning, Director Market Operations, Xcel Energy and may not reflect the official positions of Xcel Energy. Phone 303-571-2711
Market Optimization is Good

- Situational awareness and response to grid contingencies
- Production cost optimization for energy dispatch
- Variable resource diversity benefits through pooled balancing
- Information inputs to transmission planning decisions
Small Needs Big

- Future integration of distributed resources will rely upon good bulk electric wholesale markets for efficient results
- DG/DR creates issues with proper cost allocation
Caution: Philosophy Battle!

- Grid access policy conflict remains:
  - Concepts of regional network access
    - Regional/zonal delivery view vs. POR/POD view
  - Regional investments cause trend toward postage stamp design, with funds allocated to grid owners
  - RTO-to-RTO charges for transmission service
    - PJM/MISO waived
    - MISO/SPP disputed
    - CAISO/EIM assigned path rights
  - Market-to-Market dispatch practices differ
  - Transmission customer bill of rights?
END