



An Overview of the Midwest ISO

ATC Customer Meeting

Iron Mountain, MI

July 19, 2005



Who We Are

The Midwest ISO is an independent, non-profit entity that monitors the wholesale electric grid that serves much of the Midwest.

Operational Since December 15, 2001

- 27 Control Areas
- 108,705 MW of peak load
- 132,000 MW generating capacity
- 97,000+ miles of transmission lines
- 947,000 square miles
- 15.1 million customers
- Carmel, Indiana and St. Paul, Minnesota Control Centers



■ Midwest ISO Membership



The Role of RTOs

- Maintain and enhance the reliability of the power grid
- Monitor flow of electricity over the grid
- Schedule transmission service
- Perform transmission security analysis for the Reliability Area footprint
- Approve transmission & coordinate generation maintenance outages
- Perform long term planning & analysis for region

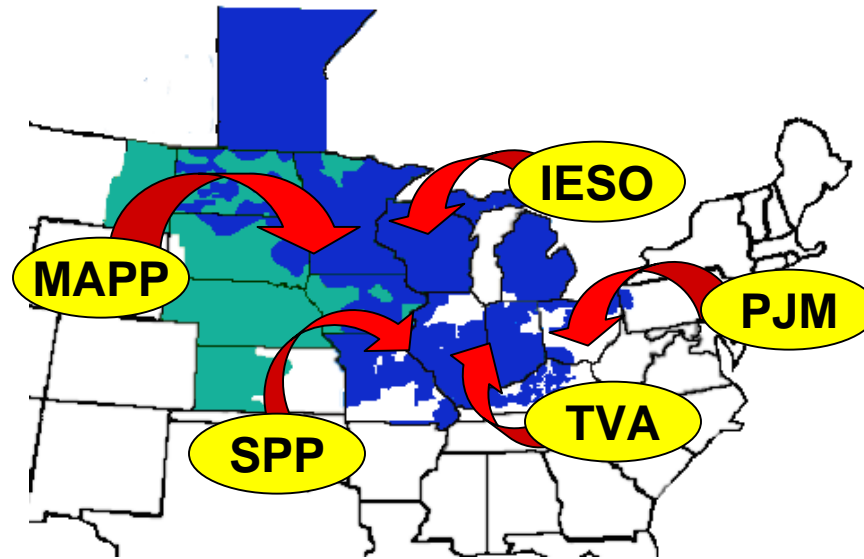
RTOs Take a Regional View



Visualization Tools



Midwest ISO Carmel Control Room



- Leading the industry in development and implementation of improved information sharing, communications, and coordination:
 - RTO to other RTO/ISOs (PJM, SPP, IESO)
 - RTO to other Reliability Coordinators (TVA)
 - RTO to other Control Areas (MAPP)

Regional Reliability Results



Midwest Markets

Benefits of Energy Markets

- Transparent price signals
- Greater efficiency for regional security constrained economic dispatch
- Expedited emergency energy purchases
- Improved Reliability and TLR process

Markets Bring Tangible Benefits



Manual Re-dispatch

- Since the last Market Issues Conference Call, there have been seven (7) events of manual re-dispatch
- Manual re-dispatch events are logged by the Regional Generation Dispatch (RGD) Desks
- Rationale for manual re-dispatch events will be investigated and confirmed following the event(s) in question
- MISO has initiated steps to evaluate, monitor and measure manual re-dispatch and determine future steps to mitigate and minimize manual re-dispatch events



RSG Disputes Update

- 2,512 Total RSG 'Dispute Units' received to date
 - 1,215 Resolved
 - 1,297 Open
- Midwest ISO is currently able to process 150 - 175 'Dispute Units' per week
 - Requires about 2.5 hours per dispute unit to resolve
- Continue to add additional FTE's to support this effort
- Working to document RSG Process from end-to-end at a detailed level
- Efforts underway to create Market Participant-facing report on RSG



Systems

- Consolidating Customer Relationship Management applications
- Making improvements to Day-Ahead, Real-Time and other apps
- System reliability > 99.8%
- System availability > 99.8%
- Continue to make improvements in communication applications for data transfer between systems and Balancing Areas



Questions?

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