



# Corporate Information

## Overview

The Midcontinent Independent System Operator, Inc. (MISO) is a not-for-profit, member-based organization administering wholesale electricity markets that provide our customers with valued service, reliable, cost-effective systems and operations, dependable and transparent prices, open access to markets, and planning for long-term efficiency.

## Scope of Operations

- Generation Capacity
  - 179,514 MW (market)
  - 201,964 MW (reliability)
- Historic Summer Peak Load in MW (set July 20, 2011)
  - 127,125 (market) / 133,181 (reliability)
- Historic Winter Peak Load in MW (set Jan. 6, 2014)
  - 109,307 (market) / 117,629 (reliability)
- 65,800 miles of transmission
- 15 states (reliability)
- One Canadian province
- Control Centers
  - Carmel, IN
  - Eagan, MN
  - Little Rock, AR
- \$2.2 billion in annual Transmission Settlements in 2014
- 36 Local Balancing Authorities with MISO as its Balancing Authority (reliability)
- Network Model (Mar 2015)
  - 45,098 network buses
  - 290,260 SCADA data points\*
  - 6,332 generating units (network)

## Reliability

MISO built and continuously refines its extensive network computer model of the MISO interconnected reliability region and surrounding systems.

- Alarming Tools
- Automatic Generation Control Tool
- Delta Flow and Voltage Tools
- Flowgate Monitoring Tool
- Generation Monitoring Tool
- Interface and Frequency Tools
- ICCP Data Quality Tool
- Power Supply Monitoring Tool

## Markets Overview

MISO manages one of the world's largest energy and operating reserves markets

using security-constrained economic dispatch of generation. The Energy and Operating Reserves Market includes a Day-Ahead Market, a Real-Time Market, and a Financial Transmission Rights (FTR) Market. These markets are operated and settled separately.

- \$37 billion annual gross market charges (2014)
- 2,446 pricing nodes
- 413 Market Participants who serve 42 million people

## Renewable Integration

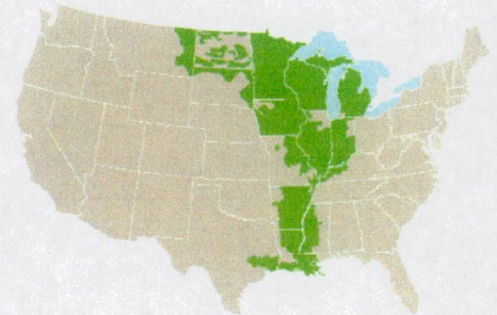
- 15,215 MW active projects in interconnection queue
- 13,453 MW wind in service
- 13,726 MW registered wind capacity (Feb. 2015)

## Transmission Expansion Planning

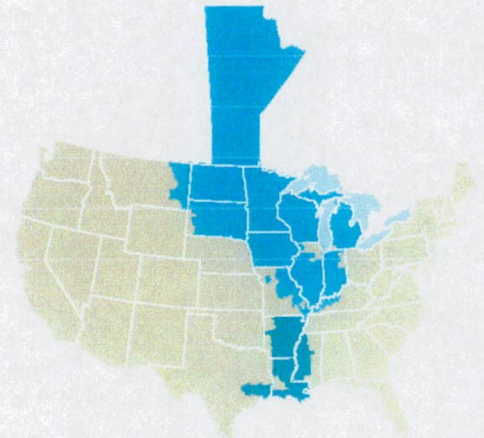
- 369 approved new projects in MTEP14, representing \$2.5 billion investment.
- Since 2003, \$8.4 billion in approved projects constructed now in service.
- 8,400 miles new/upgraded transmission lines planned through 2023.
- Multi-Value Project Portfolio creates up to \$50 billion in benefits through first 40 years of operation.
- MVP benefits: 2.6 to 3.9 times cost.

## Diversified Fuel Mix

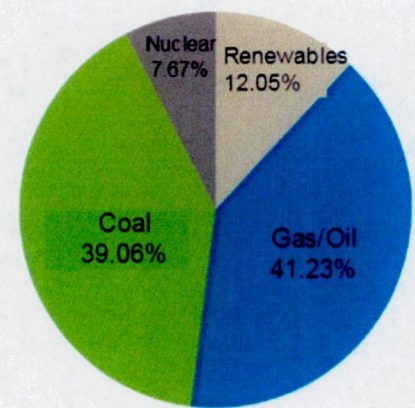
- Hydroelectric, coal, gas, oil, wind, and nuclear.



Market Area



Reliability Coordination Area



Fuel Mix





**Governance**

An independent, nine-member Board of Directors governs MISO - eight independent directors elected by the membership, plus MISO's chief executive officer.

Under MISO's Standards of Conduct, all MISO board members, employees and their immediate family members are required to divest of any holdings in member or user companies.

**Membership**

- 50 Transmission Owners with \$31.4 billion in transmission assets under MISO's functional control
- 123 Non-transmission owners

**Membership Sectors**

- Transmission Owners Vertically Integrated Stand-Alone Transmission Companies
- Coordination Member
- Power Marketers
- Independent Power Producers / Exempt Wholesale Generators
- Municipals / Cooperatives / Transmission-Dependent Utilities
- End-Use Customers
- Environmental Groups
- State Regulatory Authorities
- Public Consumer Groups
- Competitive Transmission Developers

**Key Committees**

- Board of Directors
- Advisory Committee
  - Reliability Subcommittee
  - Finance Subcommittee
  - Market Subcommittee
- Alternative Dispute Resolution Committee
- Transmission Owners Committees
- Planning Advisory Committee

**State Regulatory Committee**

- Organization of MISO States
- Energy Regional State Committee

**Awards and Recognition**

- OSEG 2011 Governance, Risk Management and Compliance Achievement Award
- 2011 Franz Edelman Award Winner for extraordinary achievement in applying operations research in market operations
- North American Electric Reliability Corp. Examples of Excellence (2007)
  - Training Tools (3 honors)
  - System Restoration Operational Scorecard
  - Examples of Excellence (2005)
    - Voltage stability analysis
    - Best Practices (2005)
    - Manual redispatch
- Computer World Laureate, Data Storage Best in Class; Best Practices (07)

**How to Contact Us**

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**Key Dates**

