

--- MISO Roadmap ---

MARKET REDEFINITION INITIATIVES	2022				2023				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Managing Uncertainty & Variability									
Implementation of Seasonal Construct and Conventional Accreditation	████████████████████				████████████████				
Recommend Accreditation Reforms for Renewables, Hybrids and Storage	████████████████████				████████████████				
Update Ancillary amounts and Short-term Reserves	████████████████								
Enhance Internal Risk Information Management	████████████████████				████████████████████				
Improve Scarcity Pricing	████████████████████				██████████████████				
Assess Severe Weather Implications					██████████████████				
Resource Models & Capabilities									
Increase Effectiveness of Demand Response and Load Modifying Resources	████████████████				████████████████████				
Implement Energy Storage Resource Participation - FERC Order 841 Compliance	████████████████								
File Distributed Energy Resources (DER) - FERC Order 2222 Compliance and Begin Implementation Plan	████████████████████				████████████████████				
Assess Hybrid Resource Participation					██████████████████				
Identifying Locational Needs									
Update Regional Constraints Based on Conditions					██████████████████				
Enhancing Coordination									
Facilitate Ambient Adjusted Line Ratings Adoption	████████████████████				████████████████████				
Enhance Regional Resource Assessment	████████████████								

OPERATIONS OF THE FUTURE INITIATIVES	2022				2023				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Situational Awareness									
Real Time Display Replacement					██████████████████				
Advance Synchrophaser Applications Evaluation					██████████████				
Operations Planning									
Look Ahead Commitment Needs Definition					██████████████				
Operations and Planning Models Alignment					████████████████████				
Outage Coordination Analysis Processing					██████████████				
Operations Preparedness									
Operations Simulation	██████████████				████████████████████				
Operator in Training Programs	██████████████				████████████████████				
Critical Communications									
MISO Communications System Declarations	████████████████████				████████████████████				
Operator Logging Needs Evaluation					██████████████				
Business Continuity									
Conduct Business Impact Assessment to Identify Needs to Mitigate Emerging Threats	██████████████								

LONG RANGE TRANSMISSION PLANNING INITIATIVES	2022				2023				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Futures / Policy Consensus									
Continue to Understand Evolving Member Plans, IRP Trends, and Policy Objectives	████████████████████				████████████████████				
Planning and Business Case Development									
Plan, Analyze and Recommend Robust Transmission Solutions	████████████████████				████████████████████				
Develop Methodologies to Better Quantify Resiliency and Other Benefits	████████████████████								
Complete Holistic Cost and Benefit Analysis for Business Cases	████████████████████								
Cost Allocation									
Explore New Sustainable Cost Allocation Mechanisms to Fit Future Transmission Needs	████████████████████				████████████████████				
Other Planning Efforts									
Enhance Joint Transmission Planning with Seams Partners	████████████████████				████████████████████				
Explore a Better Aligned Planning Process	████████████████████				████████████████████				
Develop a Customer Self-Service Portal for Planning Customers					██████████████				

MARKET SYSTEM ENHANCEMENT INITIATIVES	2022				2023				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Market System Enhancements									
Market User Interface	██████								
Model Manager (Phase 1)	██████████████								
Energy Management System (EMS) Upgrade	████████████████								
Day-Ahead Market Clearing Engine (DA-MCE)	████████████████				██████████████				
Real-Time Market Clearing Engine	████████████████				████████████████				

The MISO Roadmap is a living document that will be revised as necessary to reflect MISO's strategic priorities and timelines. In addition, for your convenience the document will include links to additional information contained in the MISO Dashboard (previously known as the Issue Tracking Tool). The work to update the Dashboard and links is currently underway, and the functionality will be evolving through the late-February timeframe. We appreciate your patience and understanding as we work to ensure the continued ability to track key work efforts.