



MISO's Response to the Reliability Imperative

NASUCA Mid-Year Meeting
Indianapolis, IN

June 13, 2022

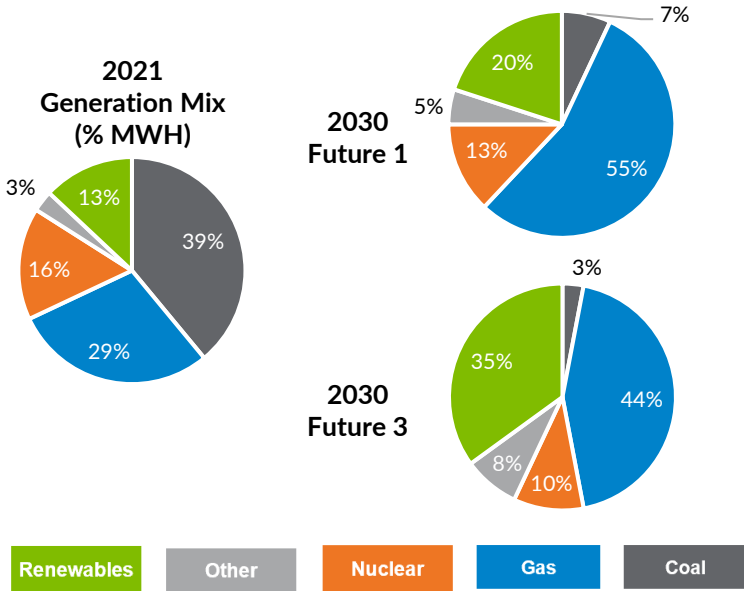
Executive Summary



- Transformational trends in the electric power sector create a reliability imperative. MISO has a four-prong response and roadmap
- Recent resource adequacy assessments indicate that the MISO North/Central sub-region is on the front edge of insufficient capacity
- Market reforms help mitigate risk. Coordinated action is needed to ensure ample resources as the fleet transitions and to manage the transition

Challenges resulting from the changing resource portfolio and increasing extreme weather risk have created an imperative for broad changes

FLEET CHANGE



MAJOR WEATHER EVENTS



MISO INSIGHTS

MISO Forward
 Renewable Integration Impact Assessment (RIIA)
 The February (2021) Arctic Event
 Resource Availability and Need (RAN)
 MISO Futures
 Regional Resource Assessment (RRA)
 Markets of the Future
 Electrification Insights

See Appendix for more details

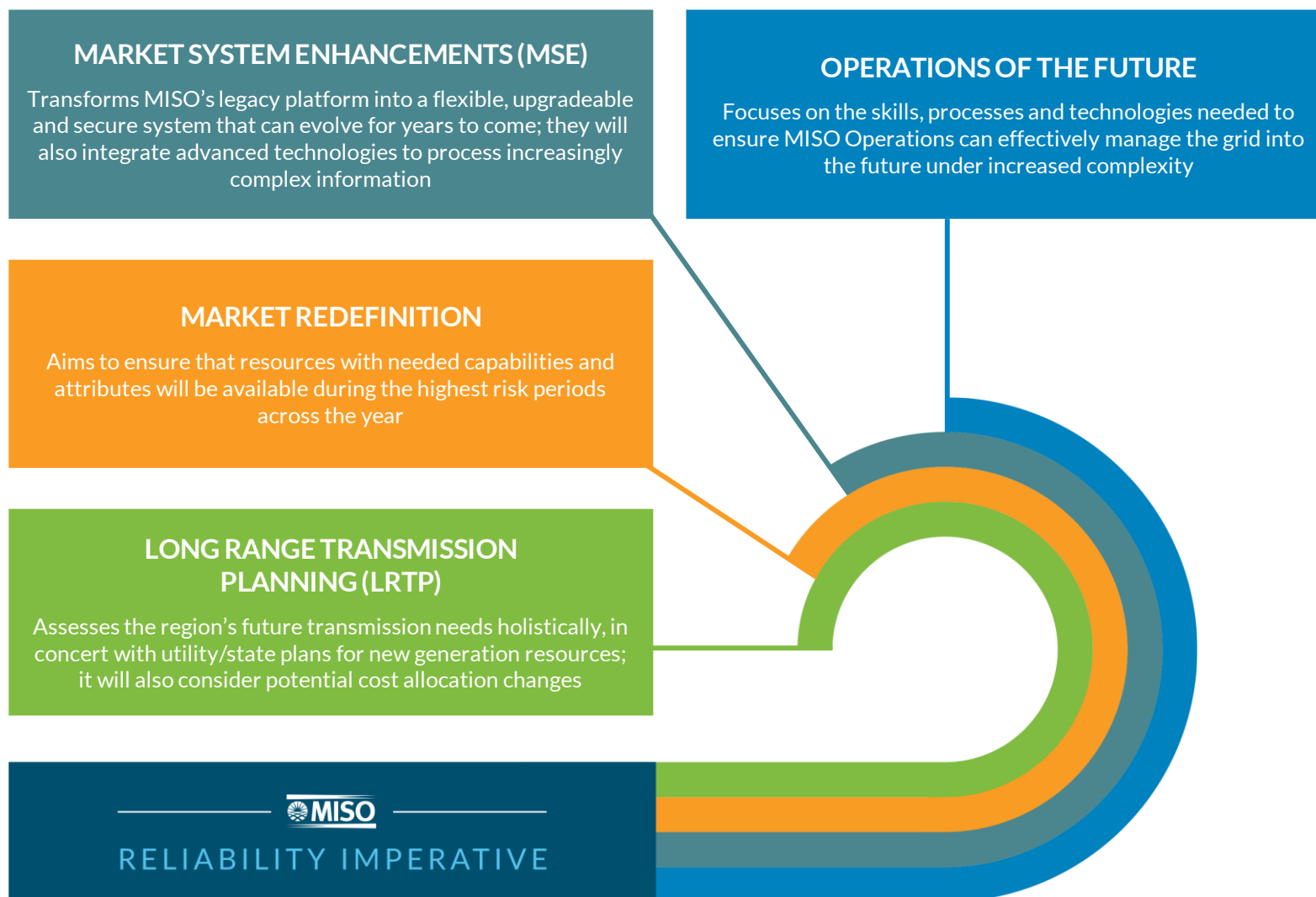
RELIABILITY IMPERATIVE

- Market Redefinition
- Long Range Transmission Planning
- Operations of the Future
- Market System Enhancement

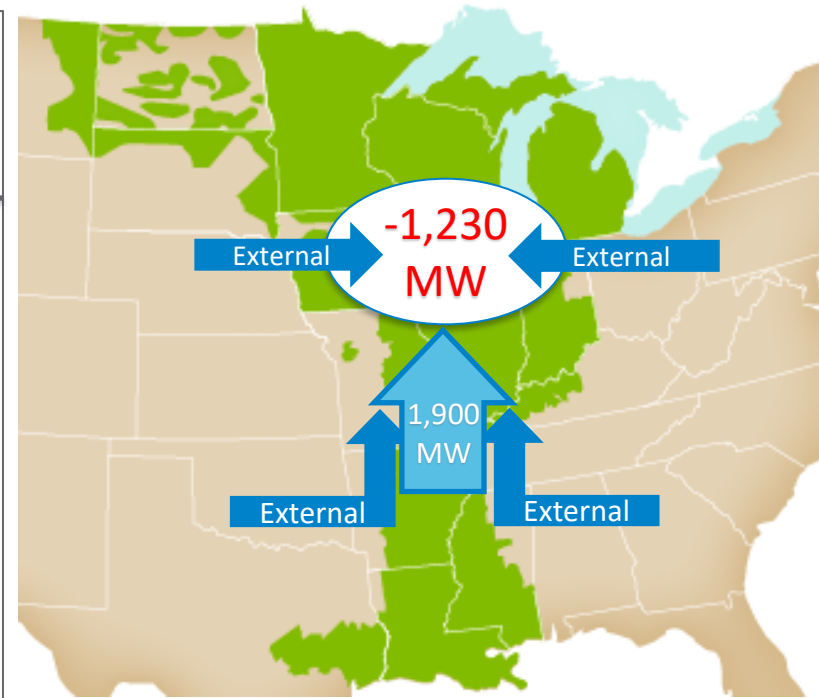
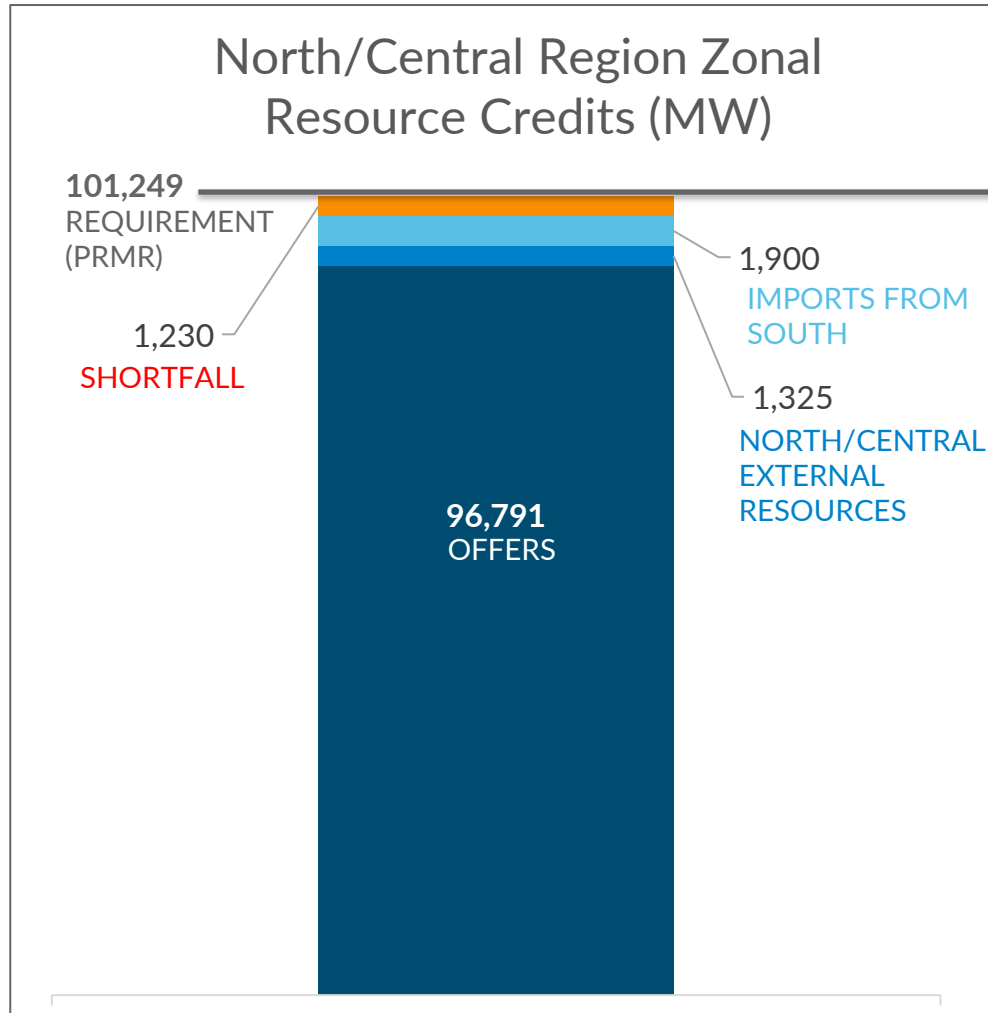
List is not representative of all efforts

MISO is actively pursuing multiple workstreams to ensure on-going reliability and value creation.

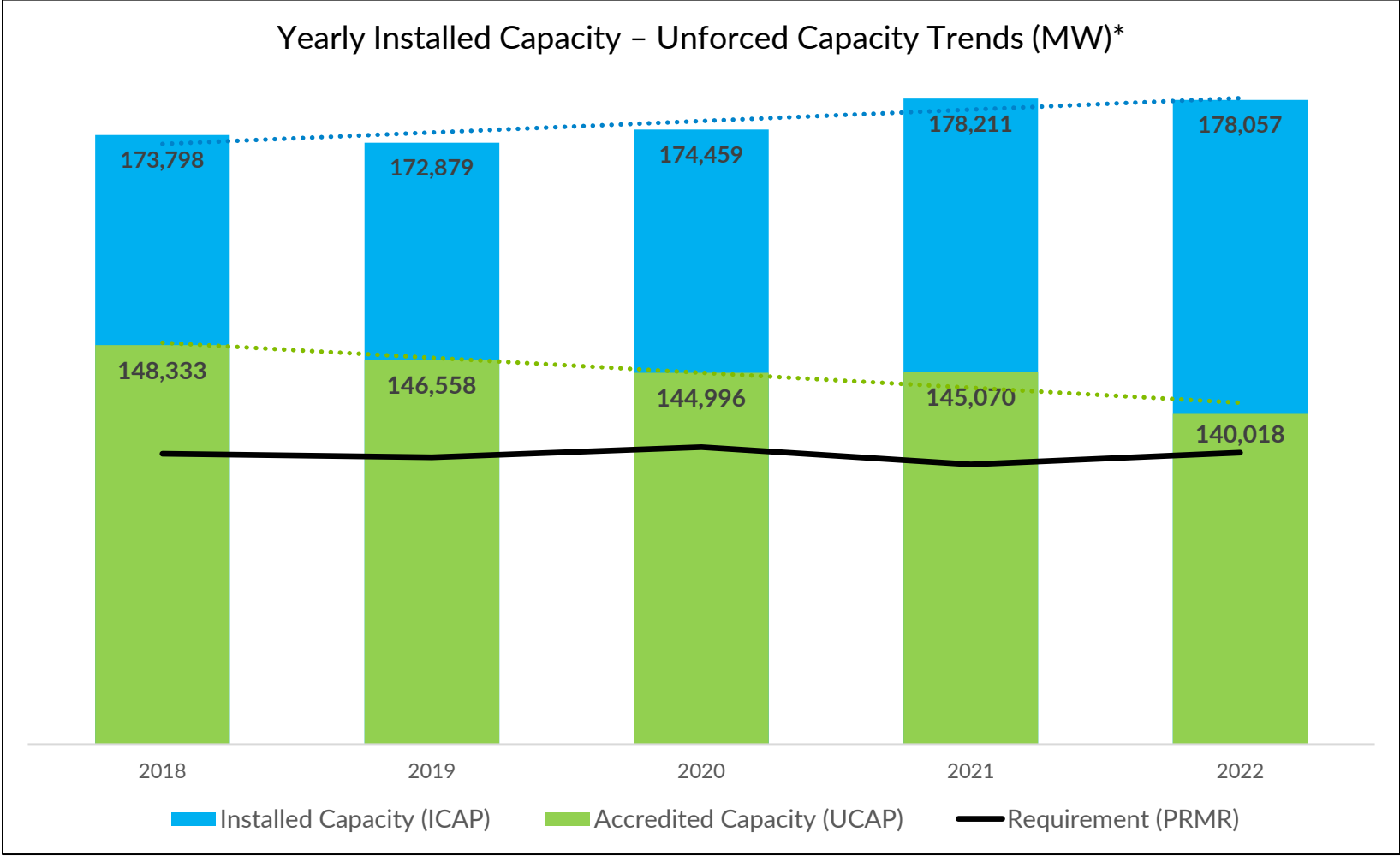
The Reliability Imperative is the collection of work urgently needed across MISO's markets, planning, and operations to reliably enable Member plans in the face of those growing risks



Capacity deficit in the recent Planning Resource Auction points to accelerating fleet change and increases reliability risk



While total installed capacity has steadily trended up, accredited capacity is moving in the opposite direction due to the capabilities of the resource types selected



We collectively need to be prudent in our actions to ensure sufficient resources and flexibility during the fleet transition

States

- Factor regional consideration into state resource adequacy, resource attribute, and market construct requirements
- Inform the broader policy and statutory discussion at the state level

Members

- Collaborate with MISO and States on timely resource adequacy, market enhancements and regional transmission
- Share resource plans with MISO to enable accurate regional view

MISO

- Enhance transparency of resource evolution and regional outlook
- Improve Resource Adequacy construct (implement filings pending at FERC and develop additional reforms)
- Visibility into and reviewing impacts of resource retirements
- Inform the broader policy discussion with federal policymakers and agencies