



2017 Illinois Summer Preparedness Policy Session

May 9th, 2017

Tim Aliff
Director of Central Region Operations

Proactive preparations support reliable operations during challenging conditions



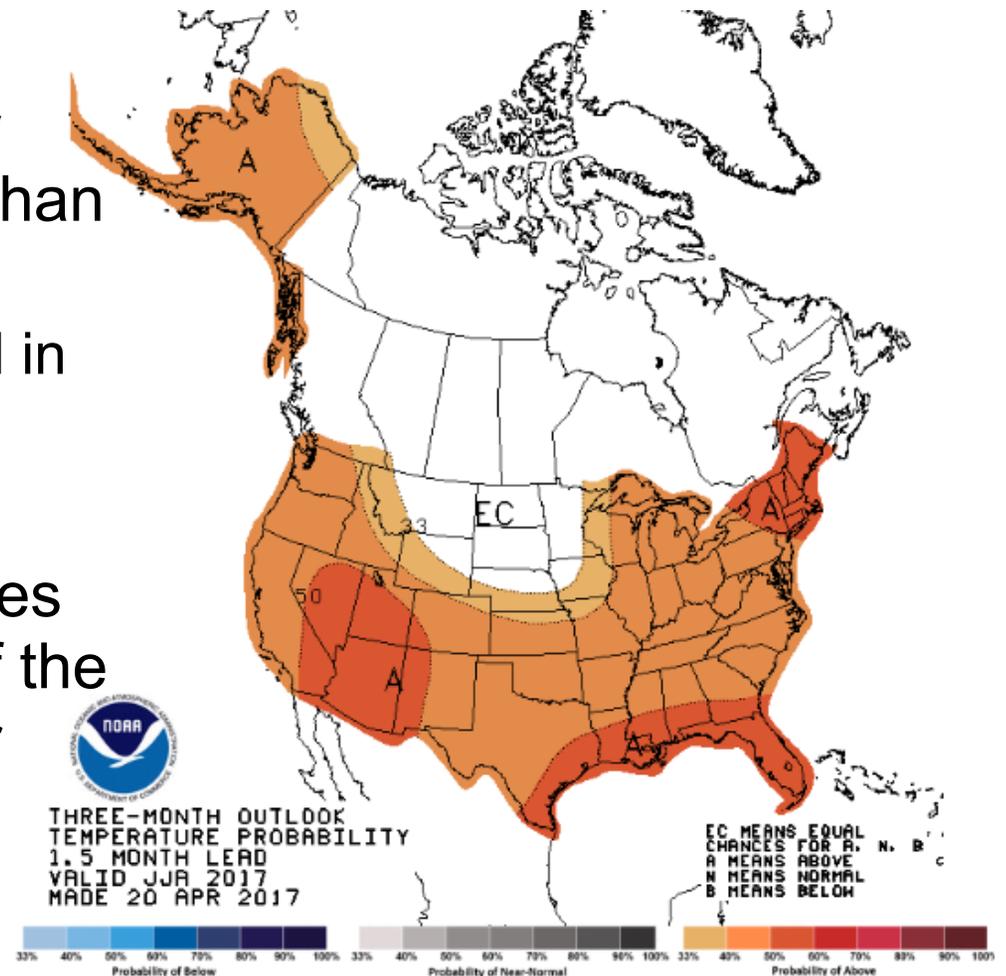
Additionally, MISO coordinates with members and neighbors to meet challenges and ensure the integrity of the electric grid

- **Communication, Coordination, and Planning**
- **Situational Awareness**
- **Operational Tools and Procedures**
- **Education, Drills, and Workshops**
- **Engagement with state officials**
- **Electric-Gas Coordination**



2017 summer weather forecast is for higher than normal temperatures

- Summer 2017 is currently forecasted to be warmer than normal
 - Precipitation is expected in the normal range
- Above normal temperatures are forecasted for most of the United States, with higher probabilities for the MISO south region



MISO projects adequate footprint-wide reserves to meet 2017 summer peak demand

- Negative load growth from last year's forecasts combined with an increase in demand response resources has resulted in an increase in reserves

	Demand Forecast (GW)	Reserve Margin Requirement (GW)	Supply (GW)	Reserves (GW)
2015/16 PY	127.3	145.5	150.3	23.0 (18.0%)
2016/17 PY	125.9	145.1	148.8	22.9 (18.2%)
2017/18 PY	125.0	144.8	148.5	23.5 (18.8%)
2017/18 Minimum Reserve Requirement:				15.8%

MISO engages with its state officials to maximize preparation during emergency conditions

MISO State Official Communication Protocols will be initiated anytime there is a projection of, or actual loss of load that may undermine public health, safety, and welfare.

- **Capacity Emergencies** requiring firm load curtailments
- **Transmission System Emergencies or Forced Transmission Outages** requiring firm load curtailments
- **Severe risk of terrorist attack, man-made or natural disasters** with potential to cause loss of firm load

In summary, MISO is well prepared to handle operational challenges this summer

- MISO projects adequate reserves, 18.8% reserve margin, to meet 2017 summer peak forecasted demand of 125.0 GW
- No identified issues with the transmission system
- MISO partners with members, drills on emergency procedures, and builds on past lessons learned to ensure operational readiness for summer
- MISO engages with its state officials to maximize preparation during emergency conditions

Contact Info

Tim Aliff

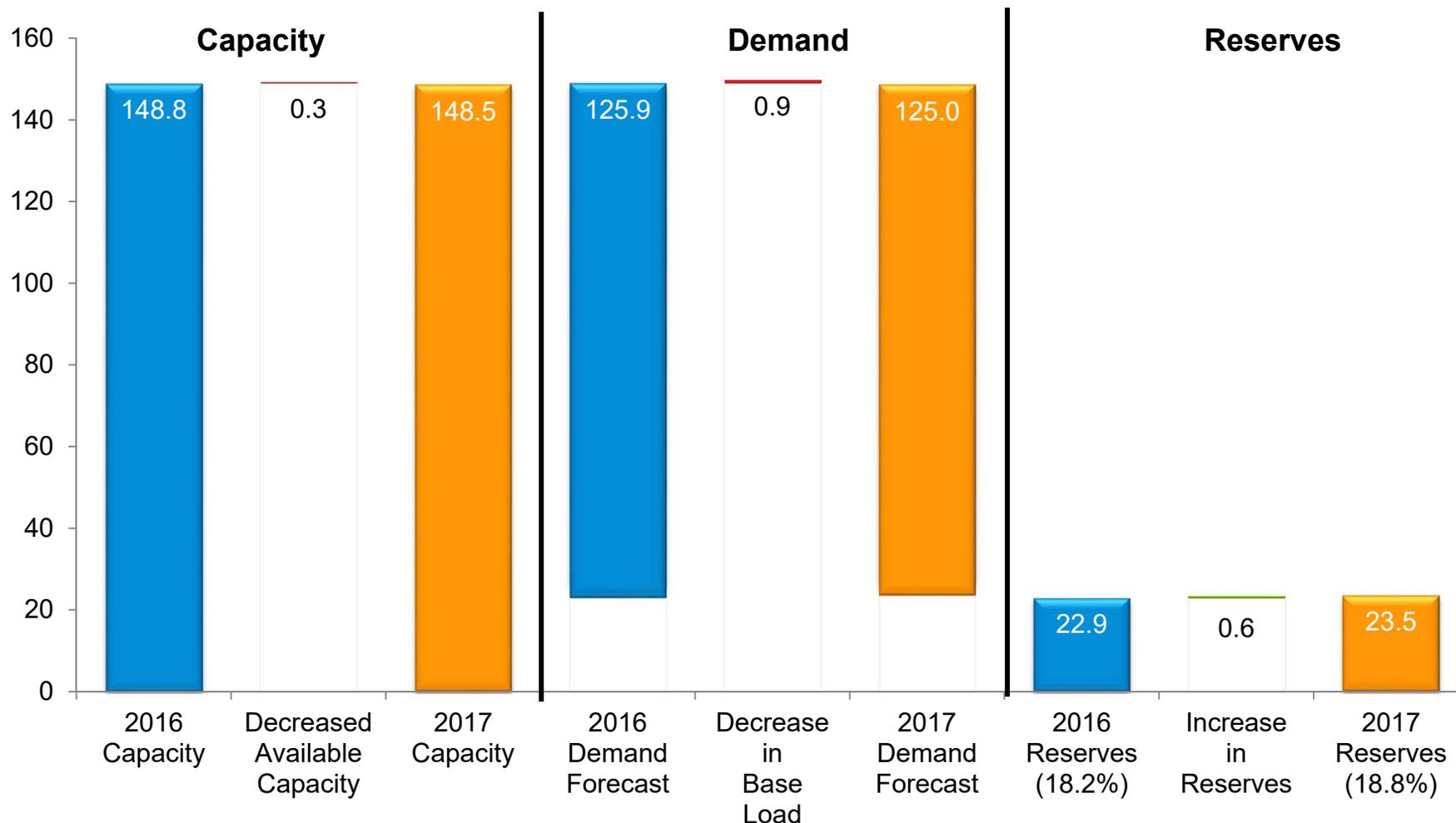
taliff@misoenergy.org



Questions?

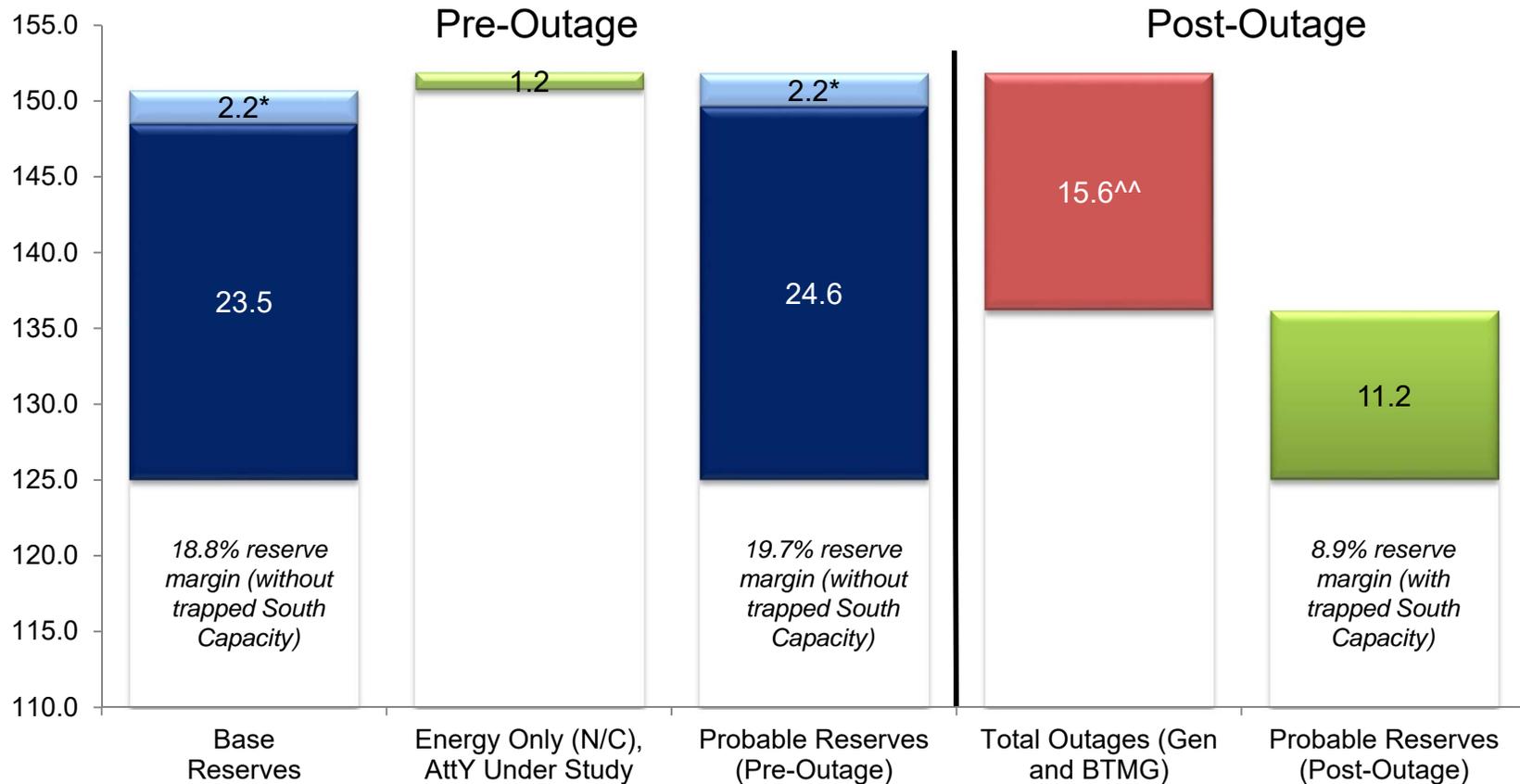
Appendix

Higher reserves for summer 2017 are primarily driven by reduced load forecast



Probabilistic study analyzes the risk for Real-Time margins to reach a level of emergency

Probable Reserve Margin Scenario



Total Outage Predictions based on 5-year summer outage data from GADS

To gain access to certain resources, MISO must progress through its Maximum Generation Emergency Procedures

