September peak conditions 2022-2025

Gap of “1800 MW results in need for incremental procurement by Summer 2025”

~1700 MWs of contingency measures to meet planning standards in 2022
The greatest risk of low reserve margins is when solar is unavailable

- 81% percent of the minimum reserve margins occurred during the hours ending 19:00 to 21:00 – hours of little to no production from solar resources.
Non-carbon resources grow to meet 119.6 percent of load plus exports.
Western Energy Imbalance Market (WEIM)

Since its launch in 2014, the WEIM has enhanced grid reliability, generated ~ $2 billion in benefits for participants, and improved the integration of renewable energy resources.

- Voluntary wholesale energy real-time market.
- Optimally and economically dispatches resources.
WEIM Implementation Status

We are here
Comprehensive Straw Proposal Released May 28th

Evolving regional collaboration in the West

Market governance considerations
- Coordinated long-term planning
- Resource adequacy
- Transmission access

Transmission provisioning
- Resource sufficiency
- Efficient resource commitment

Bid-to-bill
- Full network model
- Metering

RTO
- Single control & planning area
- A regional, multi-state entity under independent governance

EDAM
- Day-ahead market
- The EDAM would cover the complete wholesale market from Day-ahead to Real-time

EIM
- Under joint governance
- Real-time market
- The EIM achieves efficient “last minute” trading across participating regions
Overview of Resource and Transmission Development

- In-state
- Offshore
- Out of state