



Energy Interim Committee of the Montana Legislature

Presentation on the Western Energy Imbalance Market (EIM)
Stacey Crowley, Vice President of External Affairs
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The primary function of an ISO is to ensure that the grid is operating reliably and efficiently

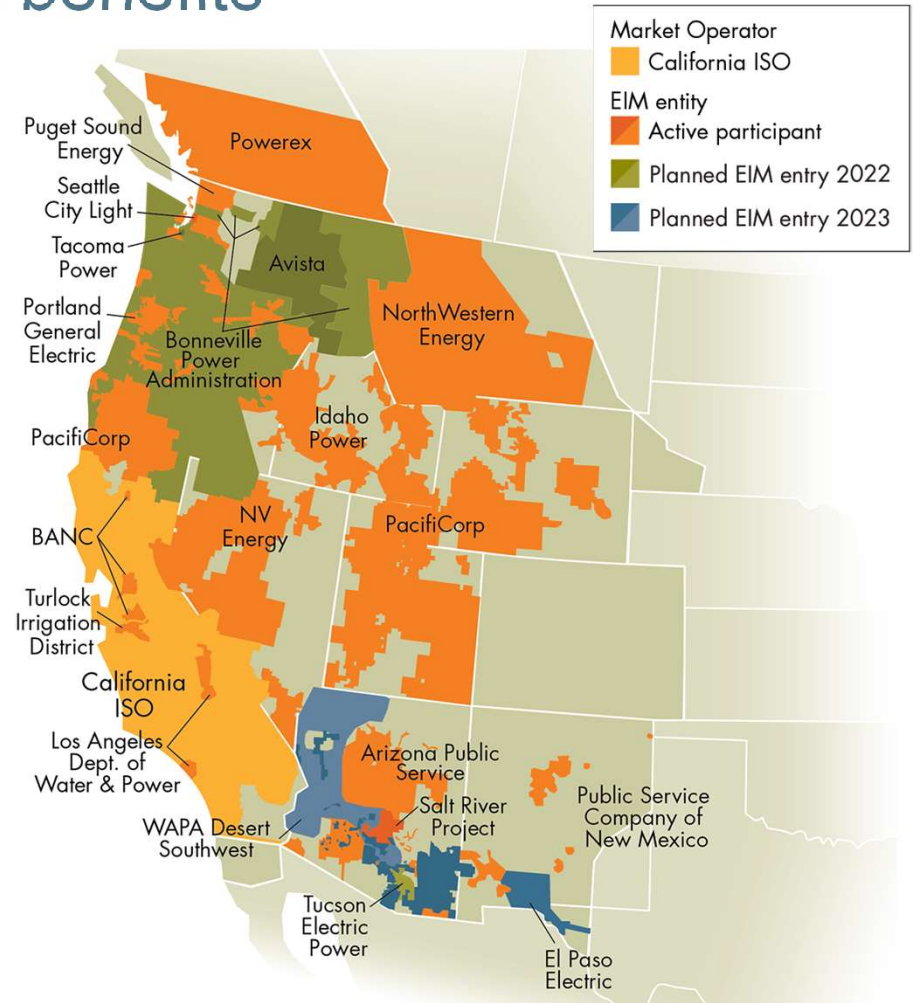
- **Reliability** – Fluctuating conditions and power dynamics require high-tech forecasting tools, competitive market outcomes and real-time precision
- **Efficiency** – Software optimizes available resources every 4 seconds
- **Innovation** - Support deployment of clean technologies such as demand response and aggregated distributed resources
- **Transparency** – Open public processes and structured organized markets provide transparent pricing



The Western Energy Imbalance Market (EIM) has provided over \$1.4 billion in benefits

The EIM is a real-time wholesale power trading market that provides low-cost energy and enhances grid reliability

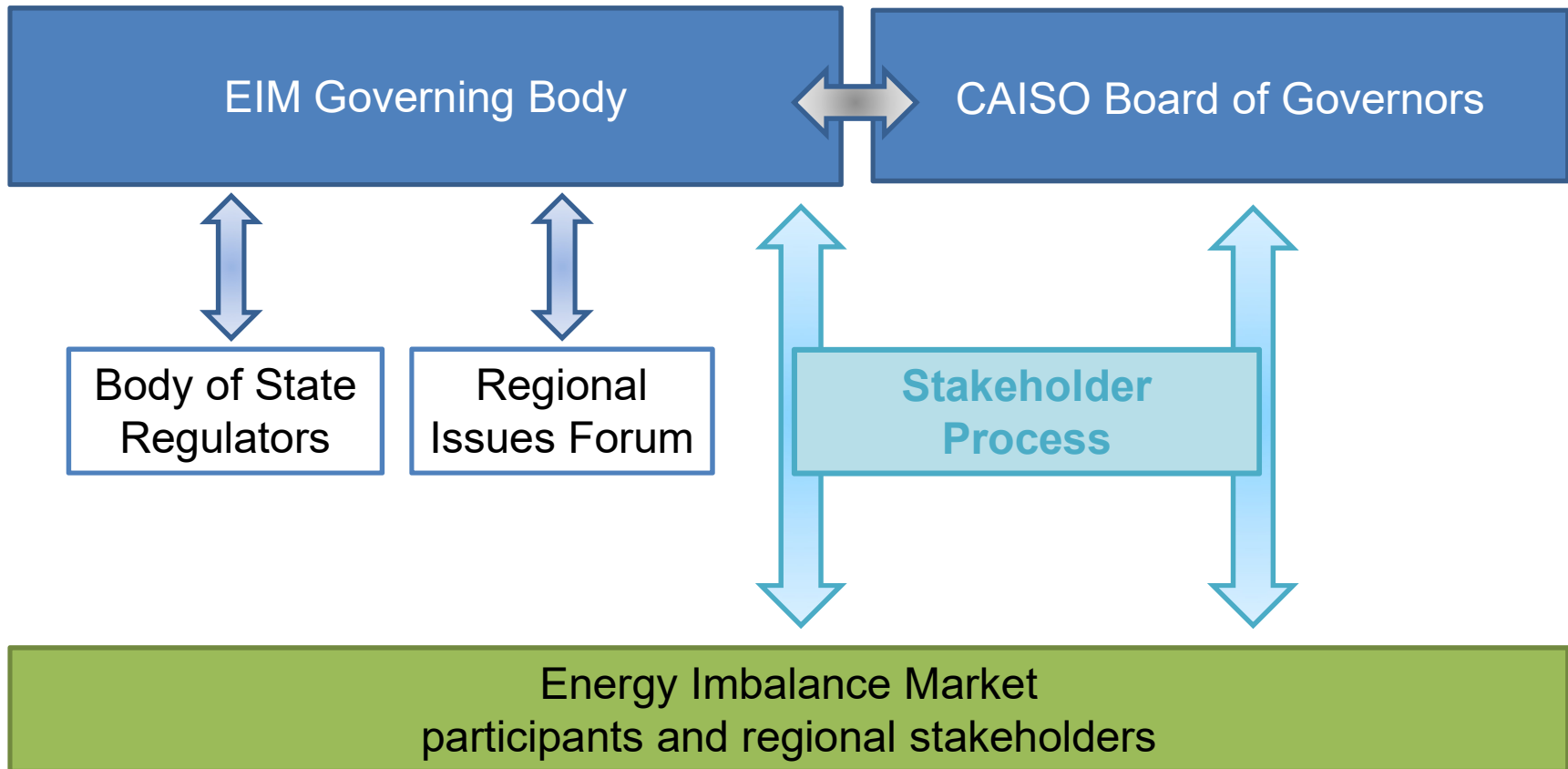
- Improves integration of diverse resources across large area
- 22 active and pending participants will cover more than 79% of WECC load by 2023
- Open, public process to identify enhancements



Map boundaries are approximate and for illustrative purposes only.

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EIM governance structure includes shared authority for our Board and the EIM Governing Body





Diversity is key to providing reliable energy to consumers

- Geographic diversity helps manage extreme weather events
- Technology diversity helps manage the variable nature of some resources
- Demand response and conservation play a key role during extreme events
- Deeper coordination amongst states can assist in meeting:
 - ✓ Long-term reliability needs of each individual system
 - ✓ Reduce costs to consumers by sharing diversity savings (reduced need for new resources)
 - ✓ More efficient transmission planning across larger area



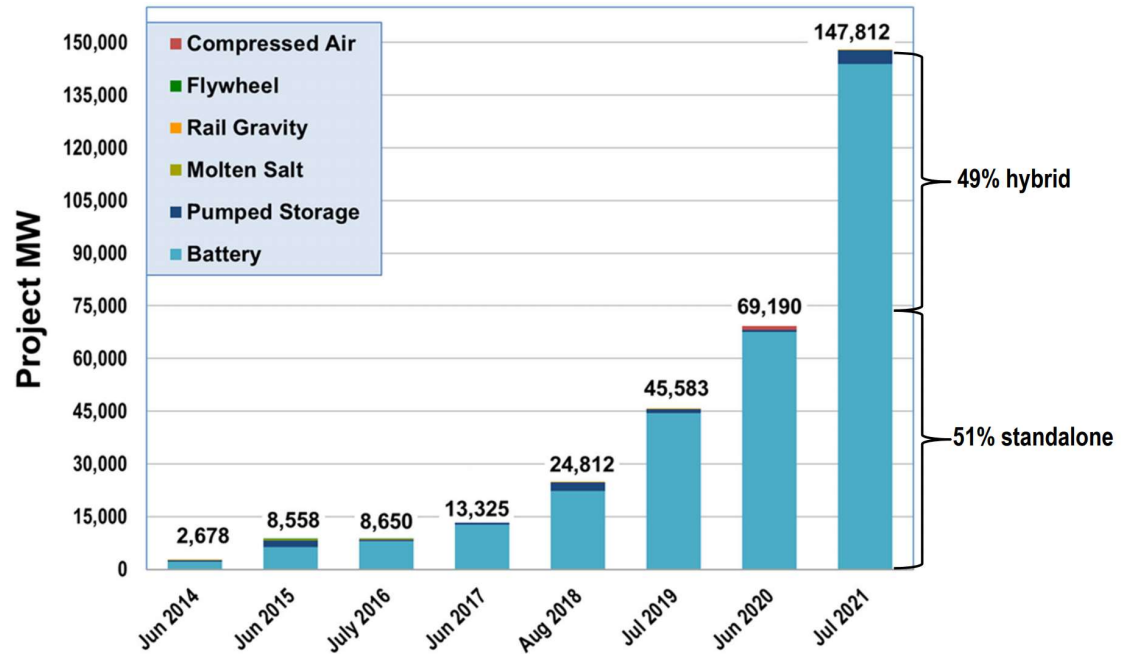
Battery storage increasingly part of the mix

Summer 2020 - 250 MW

Today – over 1,500 MW

End of 2021- nearly 3,000 MW

Energy storage capacity in ISO queue



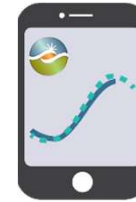
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