

Exploring Western Organized Market Configurations: A Western States' Study of Coordinated Market Options to Advance State Energy Policies

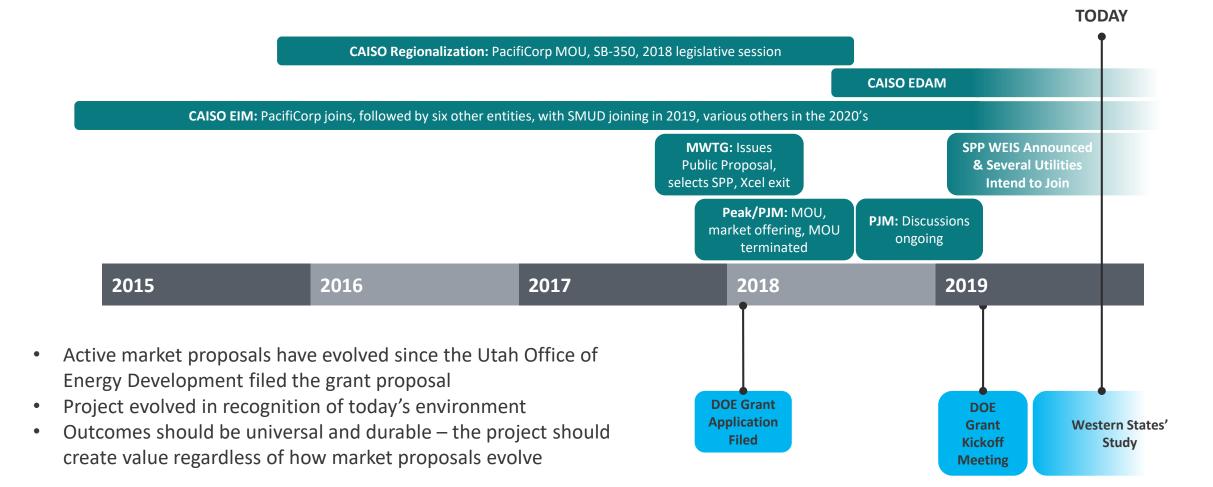
NASEO 2019 Annual Meeting Panel Discussion: Western Electric System Regionalization Opportunities and Options September 17, 2019

Presentation Outline

- Historical context and current status of wholesale energy market developments in the West
- Summary of project and why it is being undertaken
- Example of issues being considered by states
- Project schedule and stakeholder engagement

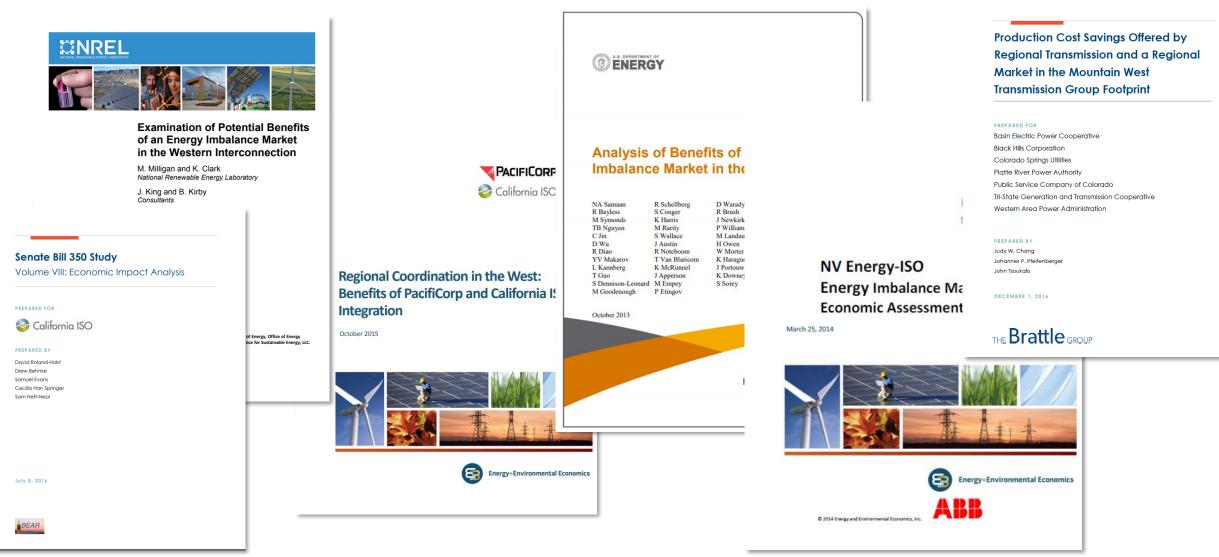


Regionalization Efforts and Timing



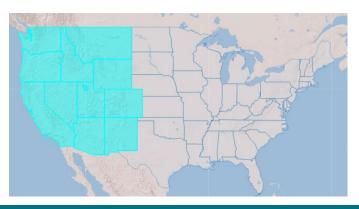
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No shortage of market benefits studies in the West. What makes this effort different?



Summary of the "State-Led Study"

- <u>Premise</u>: Decision-makers in Western States need a neutral and transparent forum to evaluate market options
- Project goal: Facilitate a neutral forum, and neutral analysis, for Western States to independently and jointly evaluate the options and impacts associated with new or more centralized wholesale energy markets and their footprints
- Participating States: 11 Western States



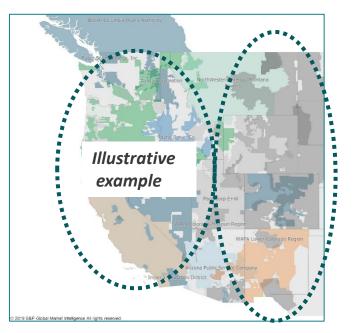
• <u>Key Players:</u> Lead Team or "the states"; Lead Team Support (contractor and Utah Office of Energy Development); Stakeholders (everyone else; hopefully utilities, NGOs, and others that can provide useful guidance)

Scope:

- Regular interstate stakeholder engagement that includes utilities, non-governmental organizations, State and Federal agencies
- Technical Modeling: Estimate relative operational benefits associated with a subset of organized market configurations identified by participating states; studied under common framework
- Market & Regulatory Analysis: Create "Market Factor Scorecard" for states to use in evaluating future market proposals: energy market offerings, ancillary services, seams issues, transmission planning, transmission cost allocation, public policy considerations, and stakeholder processes.

To demonstrate the complexities of this project: Examples of issues that states are or will be grappling with...

Assumed market footprints



Footprints to calculate benefits...

- □ State
- □ Balancing area
- Utility
- UWECC-wide

Market services to study...

- □ Imbalance/real-time
- Day-ahead
- □ Full service/RTO

Study timeframe...

- □ Near-term
- □ Long-term
- □ Effects of policy

New Transmission Build...

- □ Approved in IRP?
- □ Regional O1K Plans?
- Permitting status?

State policy considerations...

- Major legislation in WA, NM, CO, NV
- □ Aggressive track for CA

Types of benefits to consider...

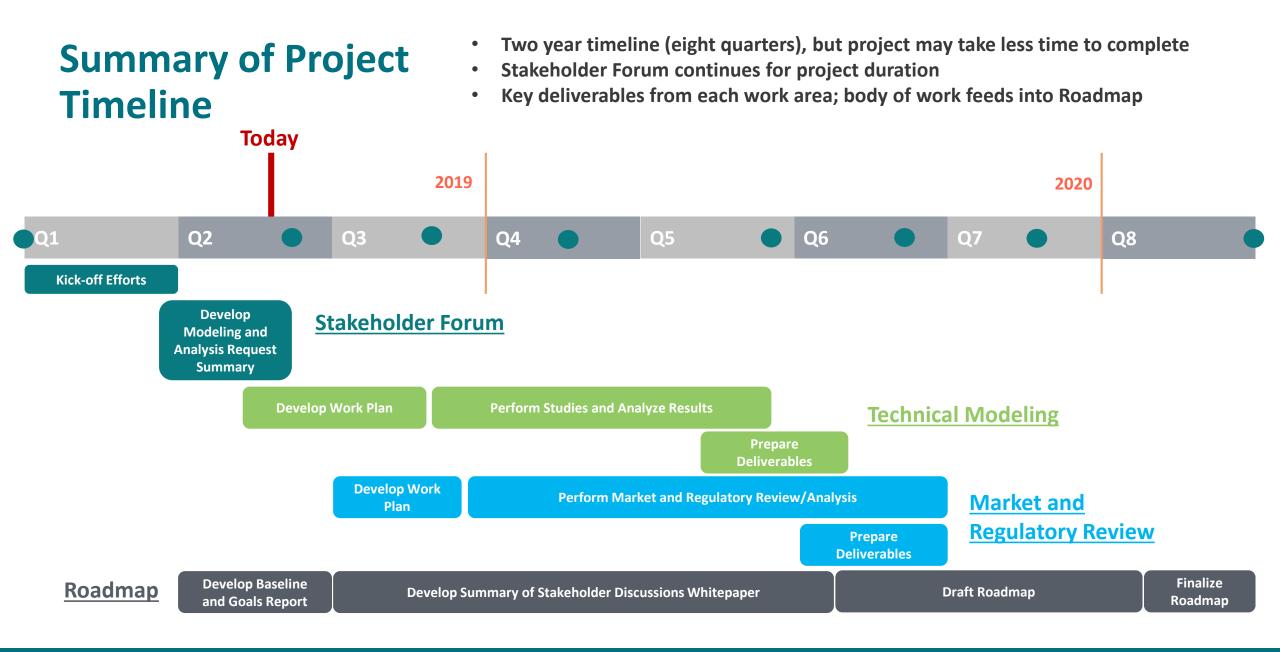
- Production benefits
- Capacity savings

Consideration of costs...

- □ Market operator costs?
- □ Lost transmission revenue?

Policy issues to explore...

- □ Seams?
- □ Transmission planning and cost allocation?





THANK YOU

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