



# Mid-C Seminar

## Update on WEIM and Day-Ahead Markets

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# Western Energy Imbalance Market (WEIM)

- Avista and Tacoma joined in March
- BPA and Tucson joined on May 4
- 19 participants serving 77% of WSCC demand
- Reduced over half a million metric tons of CO<sub>2</sub>



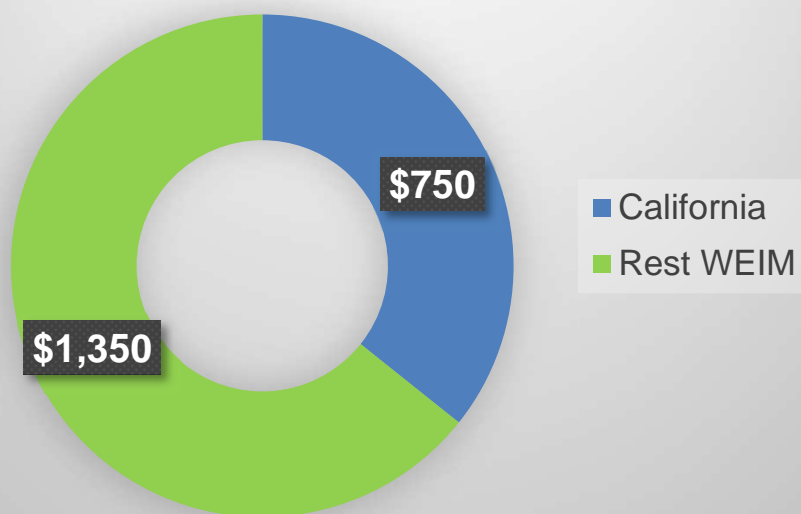
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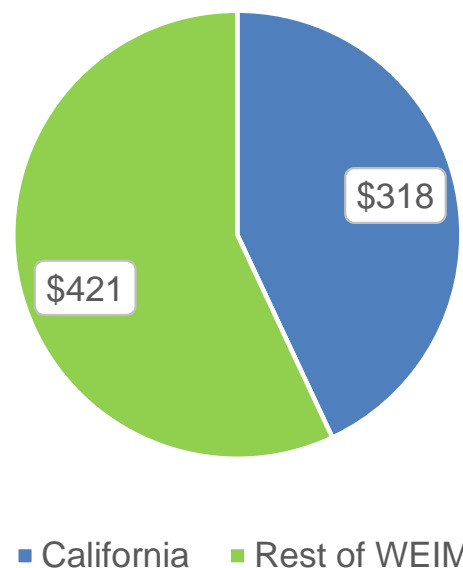
# WEIM Operational Benefits have exceeded \$2 billion

- Actual WEIM benefits have generally exceeded expected studied benefits

**Total WEIM Benefits (\$M)  
2014 – Q1 2022**



**2021 WEIM Benefit (\$M)  
15 WEIM Entities**



# Regional Markets Policy Update

- Enhance accuracy of WEIM resource sufficiency evaluation
- Extending day-ahead market to Western interconnection balancing authority areas
- More permanent solution for providing priority wheeling scheduling rights through the CAISO grid

# Several enhancements to WEIM resource sufficiency test following 2020 load shedding events

- Phase 1 developed an initial set of WEIM RSE enhancements for summer 2022
  - Improved resource counting rules and other enhancements to improve accuracy of the test
  - Approved through Joint Governance in February 2022; implemented June 17, 2022
- Phase 2 underway to further enhance WEIM resource sufficiency evaluation for summer 2023
  - Completed requested analysis to support policy direction on load conformance, load and inertia uncertainty and hourly exports
  - Changes to consequences of failing the test to allow for opportunity to cure supply shortages through market

# EDAM milestones

Q2

- April 28 EDAM straw proposal published
- May 25-26 EDAM stakeholder meeting (in-person and virtual)
- June 16 Straw proposal comments due
- July 11-27 EDAM technical workshops

Q3

- August 11 Publication of revised straw proposal
- August 25 Stakeholder meeting (revised straw)
- September 9 Stakeholder comments (revised straw)
- Week of Sept. 12 Publish draft tariff framework

Q4

- October 19 Publication of draft final proposal
- November 2-3 Stakeholder meeting (draft final)
- November 3 Publish draft tariff language
- November 18 Stakeholder comments (draft final and draft tariff)
- December 7 Publish final proposal (and separately draft BRS)
- December 14 Briefing to ISO Board and WEIM GB

2023

FERC filing (Q2), Implementation Activities (Fall 2023)

2024

EDAM Go-Live

## EDAM stakeholder process moving towards final design by the end of the year

- On May 25-26, held in-person stakeholder meeting with extensive participation and robust dialogue on almost every aspect of the overall design
- On June 16th we received stakeholder comments on the EDAM straw proposal
  - 47 different sets of stakeholder comments, a number of them representing multiple entities
  - indication of the wide stakeholder interest to meaningfully explore further regional collaboration opportunities building upon the success of the WEIM
  - no show stopper issues have been identified
- Targeting publication of revised straw proposal on August 11th

# EDAM Workshops in July

Date	Time	Workshop focus
July 11, 2022	1 p.m. – 5 p.m. (Pacific Time)	Transmission: Bucket 2 and unscheduled transmission
July 14, 2022	1 p.m. – 5 p.m. (Pacific Time)	Day-Ahead Resource Sufficiency Evaluation (RSE): (1) WSPP Schedule C firm energy transactions (2) Non-RA inertia bids treatment
July 15, 2022	8 a.m. – 2 p.m. (Pacific Time)	Day-Ahead RSE: (1) Failure consequences framework (2) Pooled WEIM RSE concept
July 19, 2022	8 a.m. – 12 p.m. (Pacific Time)	Transmission: Bucket 3 transmission and revenue recovery framework
July 20, 2022	8 a.m. – 12 p.m. (Pacific Time)	Transfer revenue and congestion rent allocation
July 26, 2022	9 a.m. – 5 p.m. (Mountain Time)	(1) Confidence in transfer (2) GHG accounting (3) Day-Ahead RSE and transmission (recap/review from prior workshops)
July 27, 2022	9 a.m. – 12 p.m. (Mountain Time)	GHG accounting



# Transmission service & market scheduling priorities

- The initiative is considering a framework for establishing market scheduling priority for wheeling through transactions
- Currently, an entity can establish scheduling priority equal to load for a wheeling through transaction by meeting certain criteria (45 days ahead of month)
  - Demonstrate a contract in place to serve load
  - Secured firm transmission, for the month, to the CAISO border
- Those unable to meet criteria have lower market scheduling priority for the wheeling through transaction

## New Framework for Establishing Wheeling Through Priority underway

- Calculation of Available Transfer Capability (ATC) that identifies a limited MW amount that can be reserved by wheeling through entities to establish priority
- ATC would be calculated and offered across different horizons:
  - 13-month horizon, monthly increments
  - Daily horizon, based upon more informed data
- ATC calculated across interties and internal Path 26

# Related and parallel stakeholder initiatives also underway

- Day-ahead market enhancements
  - New imbalance reserve product to better manage uncertainty and optimize diversity across broader regional footprint
  - Foundational for EDAM
  
- Price formation enhancements
  - Scarcity pricing
  - Enhanced methodology for balancing area market power mitigation in WEIM and EDAM
  - Fast start pricing