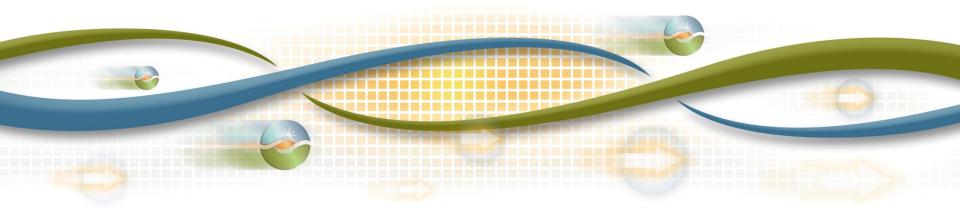


Briefing on Energy Imbalance Market

John Anders, Lead Counsel

EIM Transitional Committee Meeting General Session June 25, 2015



Agenda

- EIM operations update
 - Current ISO/PAC transfers
 - 15- and 5-minute pricing
 - Status of FERC issues
- Year one enhancements
 - status of Phase 1 tariff revisions
 - beginning Phase 2 stakeholder process
- EIM implementation update
 - NV Energy
 - Puget Sound Energy
 - Arizona Public Service



EIM Operations update

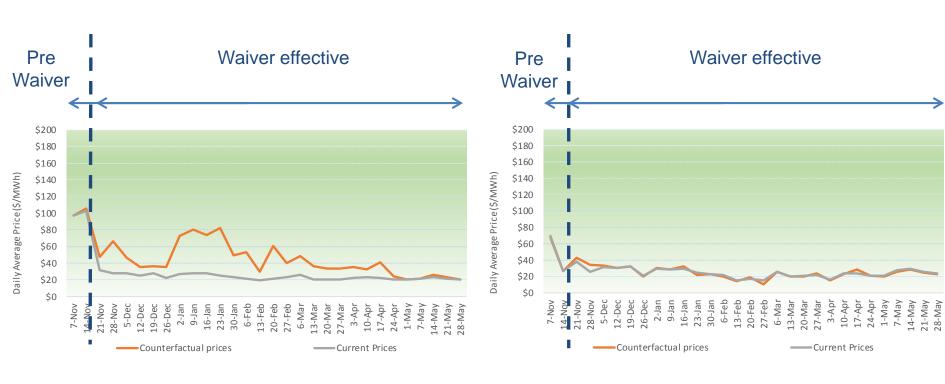
- Benefits assessment for 2015-Q2 prepared by July 30.
- Pricing discovery waiver update
 - FERC extended waiver until the implementation of a solution directed in a subsequent FERC order
 - ISO filed proposal to automate recognition of capability available to EIM Entity
 - Infeasibilities improved in PACW but continue in PACE
- Transfers increase in May
- Frequency of infeasibilities improves in May



Pricing performance continues to improve in May

15-minute PACE Aggregate Price

15-minute PACW Aggregate Price

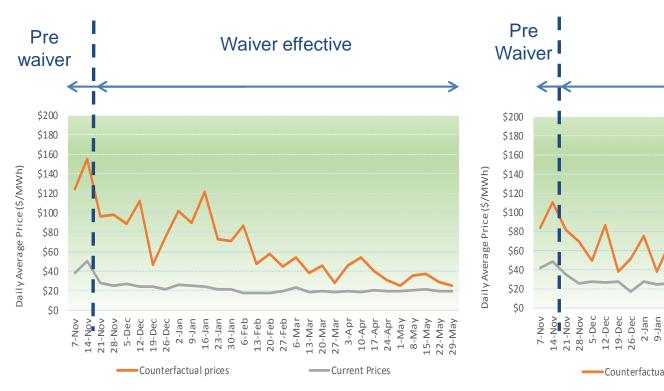


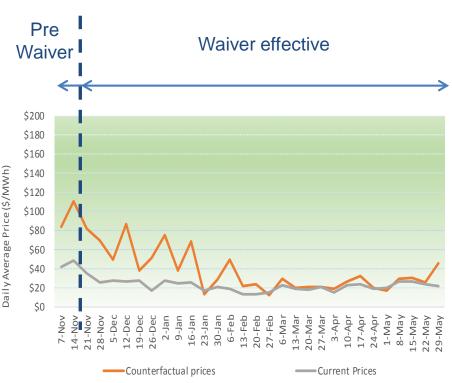


Pricing performance continues to improve in May

5-minute PACE Aggregate Price

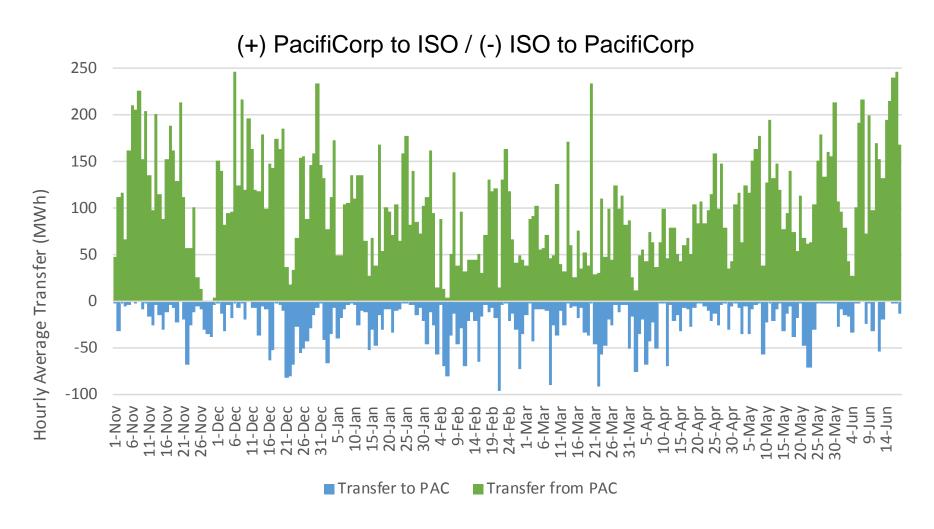
5-minute PACW Aggregate Price





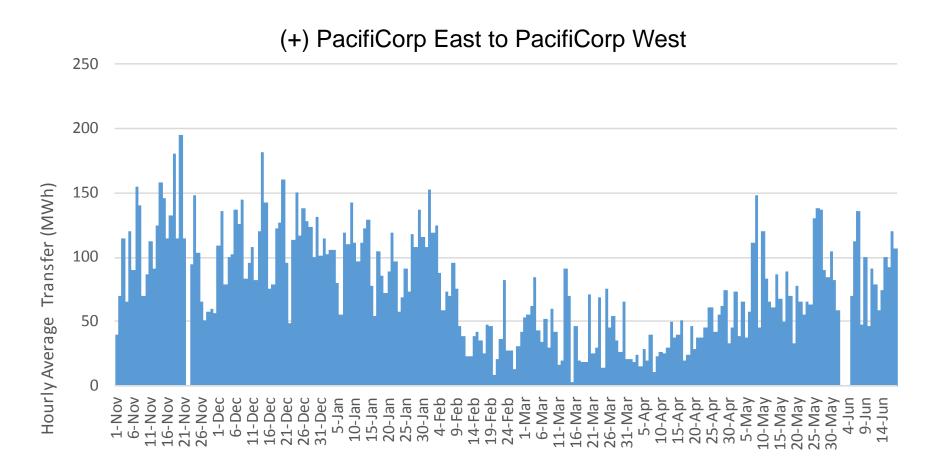


Hourly average transfers from PacifiCorp and ISO increased in May



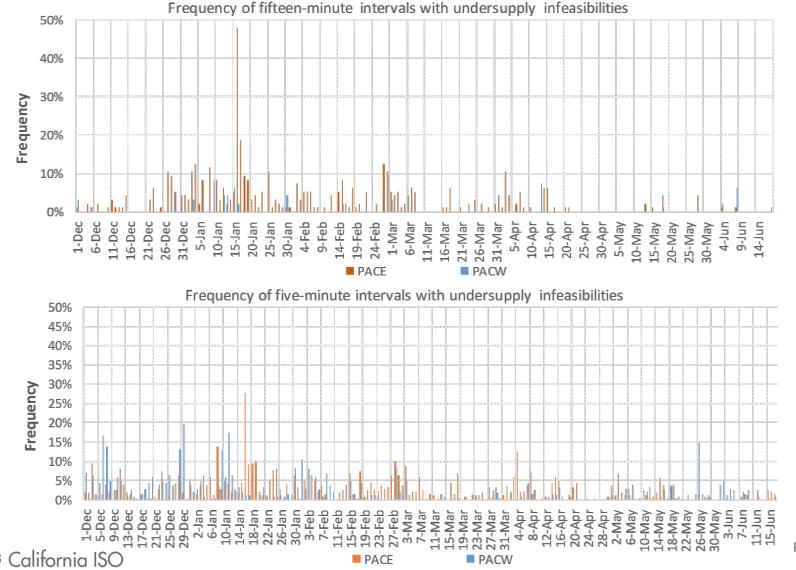


Hourly average transfers between PACE and PACW increased in May





Frequency of 5' and 15' intervals with MW undersupply infeasibilities continue to show improvement in May



Status of FERC matters

- 206 proceeding from rejection of 1 year transition period
 - Technical Conference: proposal regarding available capacity
 - Extended pricing waiver until proposal can be implemented
 - Decision on available capacity proposal is still pending
 - Must file additional waiver of flexible ramping constraint relaxation parameter by July 6
 - Readiness criteria
 - Compliance filing made May 6, FERC acceptance pending
 - 2015 readiness criteria stakeholder comments June 24, finalize June 30
- EIM Year 1 Enhancements Phase 1 tariff filing
 - Filed June 15, Seeking decision by September 1
- Updated transition period
 - 6 month duration with ability to request additional 6 months
 - Price discovery mechanism is in effect
 - Updated tariff will be reviewed with stakeholders mid July
 - Filing planned by end of July, decision by October 1



Year One Enhancements: Phase 2 items informed by one year of operational experience or need additional discussion

- EIM transmission charge
- Additional sub-allocation of real-time congestion offset (flow entitlements)
- 15-minute bidding on intertie scheduling points
- Congestion settlement on EIM transfer limits
- Dynamic market power mitigation
- Other items identified during implementation

May seek Board decision on discussion items in 2015



Proposed schedule for Phase 2

June 30 Post issue paper/straw proposal

July 8 Stakeholder call

July 22 Comments due

Aug 5 Post revised straw proposal

Aug 12 Stakeholder meeting (Bellevue, WA)

Aug 26 Comments due

Sept 17 Post draft final proposal*

Sept 24 Stakeholder call

Oct 1 Comments due



^{*} For "discussion" items seeking 2015 Board decision

EIM Implementation project – NV Energy

On track for EIM activation (full binding) on 10/1/15

- Initiated connectivity testing in MAP Stage environment on 6/18/15.
- Plan to post draft settlement configuration files on 6/30/15.
- Formally start "day-in-the-life" practice exercises on 7/1/15 (anticipate earlier start based on connectivity success to date).
- NVE full network model to be included in DB 2015Q3 on 7/23/15.
- Preparing for start of structured market simulation scenarios on 8/3/15.
- Anticipate filing EIM readiness criteria certification on 8/31/15.
- Plan to start parallel production on 9/1/15.

Operational readiness track

- Continued operator training according to plan and readiness criteria.
- Certification of real-time desk completed.
- Operations involvement in connectivity, "day-in-the-life" and market simulation.



EIM Implementation project – Puget Sound Energy

- Created baseline of project plan and schedule on 6/1/15.
- Initiated all work streams and they are progressing per the project plan.
- Held monthly executive meeting on 6/8/15; topics included:
 - Working with BPA on execution of MOU
 - PSE is evaluating work and options associated with exporting the full network model in the required CIM 15 format
 - PSE is completing vendor selection for EIM system interfaces
- High level touch point mapping held on 6/10/15
- Operations touch point mapping held on 6/16/15
- Settlements 101 scheduled for 6/26/15
- Overall status is on track for scope, budget, and resource with minor schedule caution related to exporting full network model.



EIM Implementation project – Arizona Public Service

- Implementation agreement signed on 5/28/15.
- Project planning and implementation kickoff meeting held on 6/15/15.
- Plan to baseline project plan and schedule on 7/1/15.
 - Initiating work streams and project tracks
 - Aligning target dates with PSE implementation
- APS has capability to export their full network model in CIM 15 format which meets ISO requirement.



Questions

