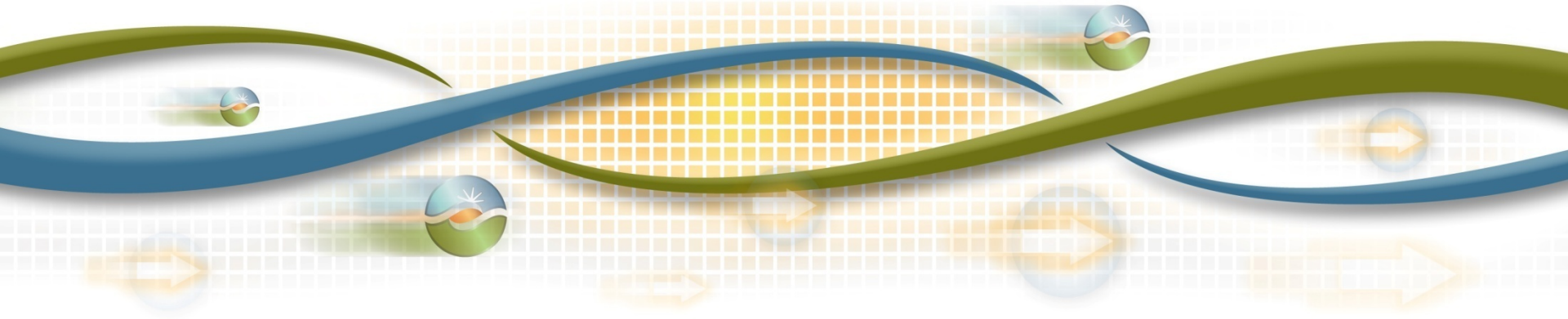


Briefing on energy imbalance market deployment

- Mark Rothleder, VP, Market Quality and Renewable Integration

EIM Transitional Committee meeting
General Session
December 19, 2014



EIM Implementation Update (1)

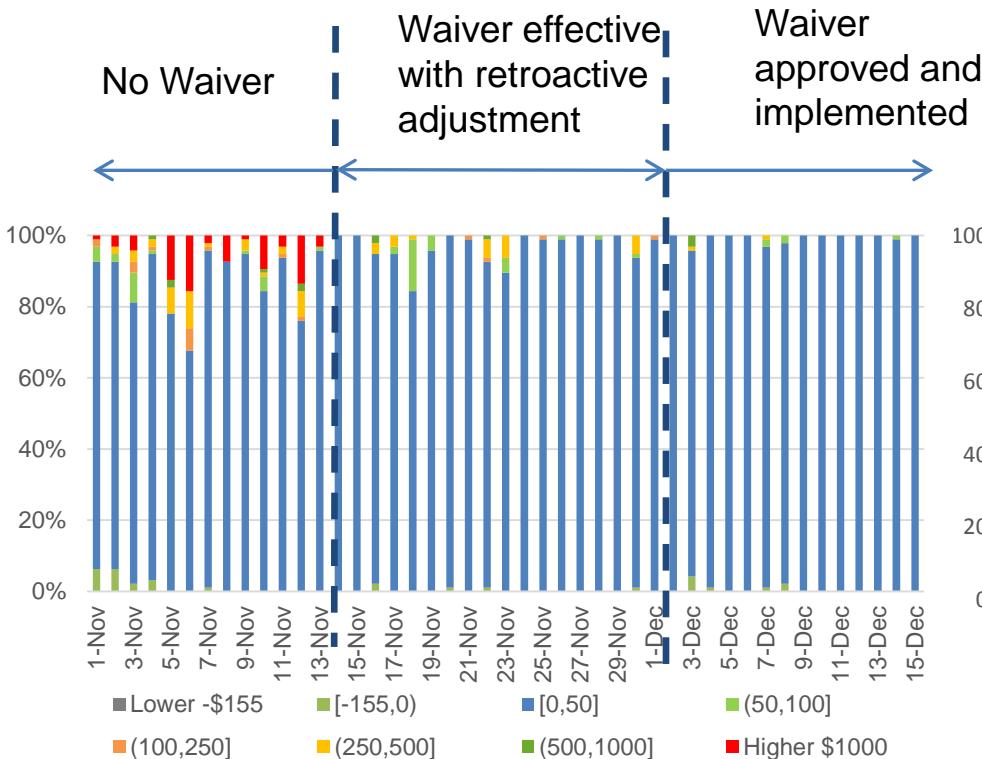
- December 1 - FERC approved temporary waiver:
 - Price based on marginal bid instead of ISO relaxation parameters starting November 14.
 - Filed first 30-day report to FERC pursuant to FERC approval of waiver
- 3,150 MW of participating resources added
- Enhance tools to increase visibility of situational awareness of balancing and ramping capability.
- Completed training on process to inform market of response to outage events.
- Added resources deviation displays

EIM Implementation Update (2)

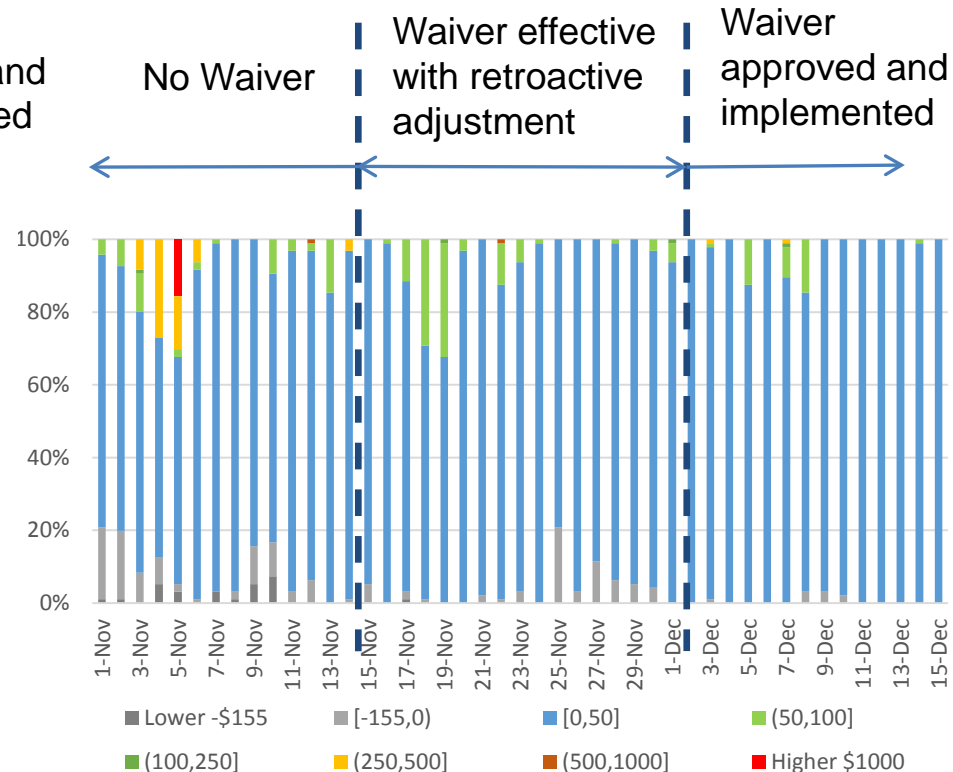
- Pricing performance improves with reduction of price excursions.
- Bi-directional 15-minute transfers continue:
 - Transfers from PacifiCorp to ISO reduced during period of COI north to south congestion.
- 5-minute transfers active between PACE and PACW.
- Continue to test 5-minute transfer capability across COI.

15-Minute price frequency in PACE and PACW

15-minute PACE Aggregate Price

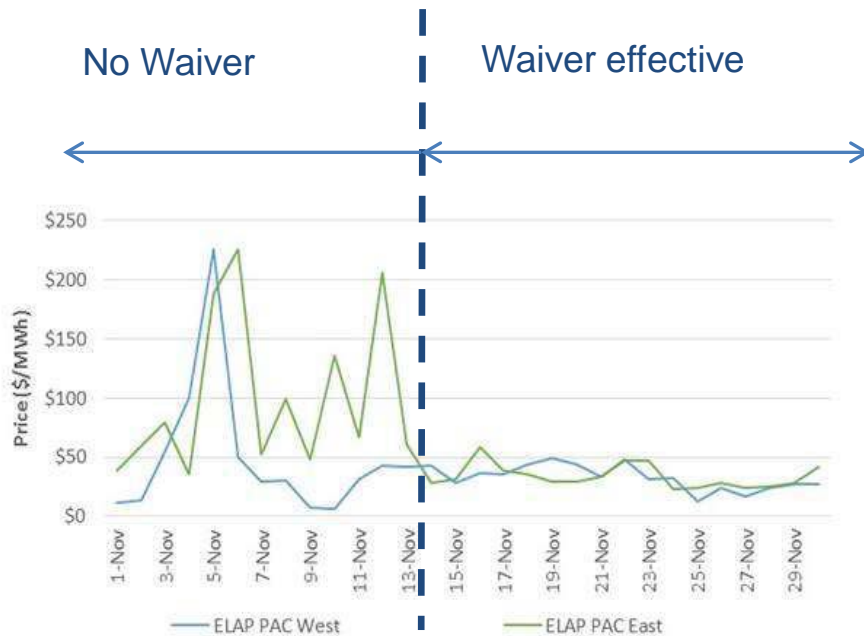


15-minute PACW Aggregate Price

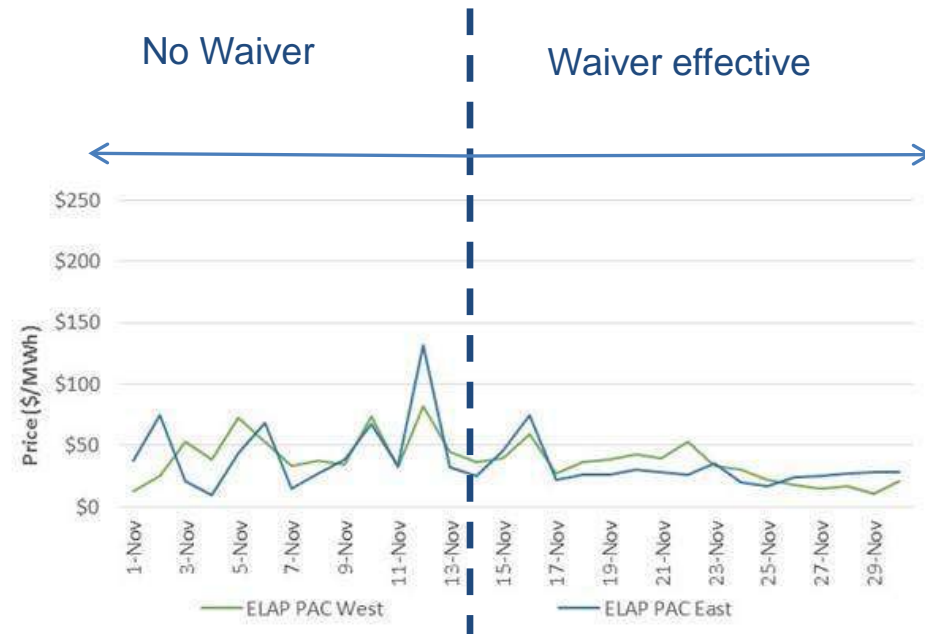


Prices stabilized after November 14

15-minute PACE Aggregate Price

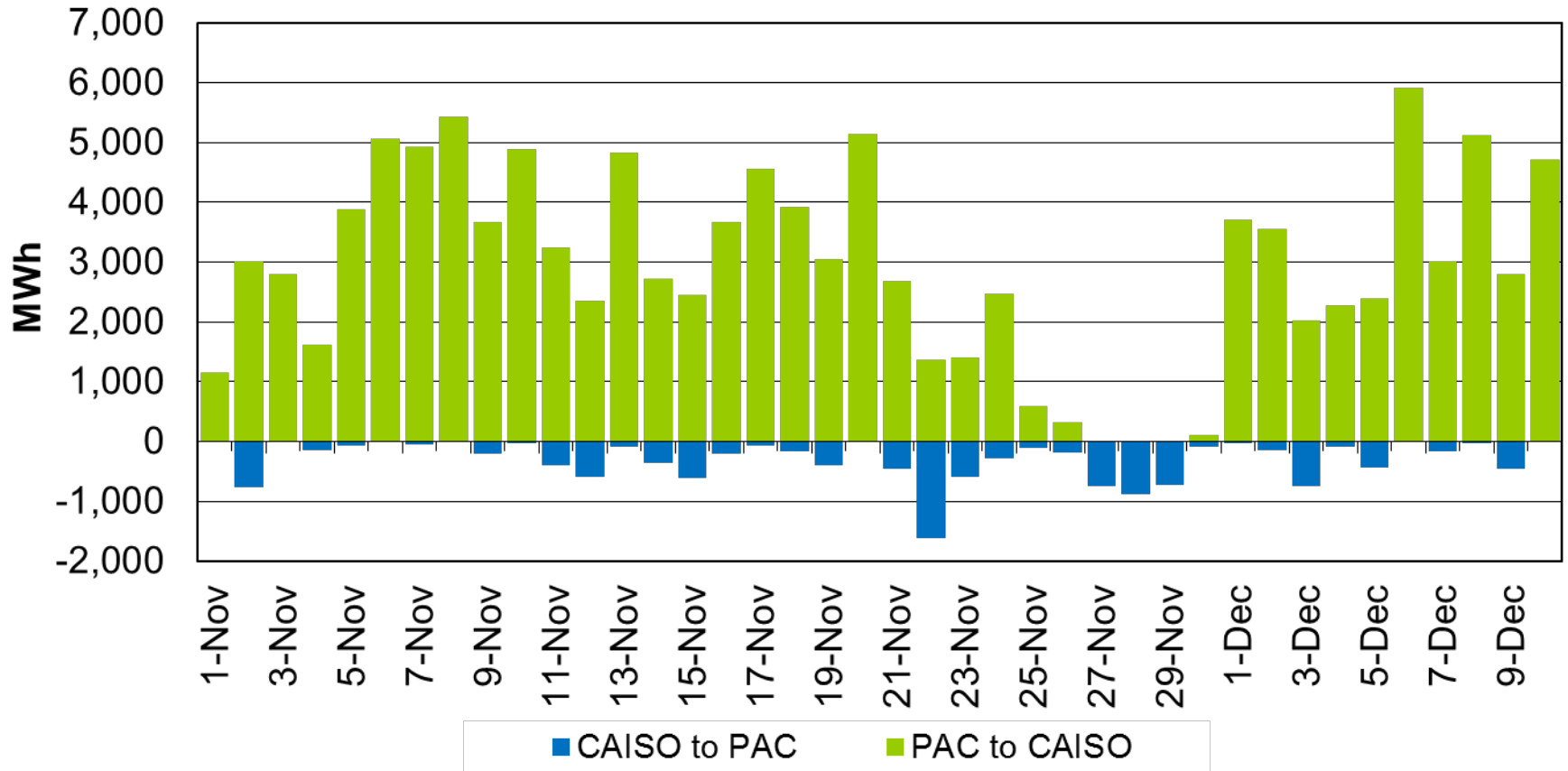


5-minute PACW Aggregate Price



15-minute transfers between PacifiCorp and ISO

(+) PacifiCorp to ISO / (-) ISO to PacifiCorp



Questions