

## DOCKETED

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**EMPLOYEE COMMITMENT**

**CUSTOMER SERVICE**

**OPERATIONAL EXCELLENCE**

**REGULATORY INTEGRITY**

**ENVIRONMENTAL RESPECT**

**BERKSHIRE**  
FINANCIAL STRENGTH  
**OWNERSHIP**

# CALIFORNIA RENEWABLE ENERGY TRANSMISSION INITIATIVE DISCUSSION

**Walter Spansel, Vice President, Transmission Officer**



# Operational Experience Energy Imbalance Market

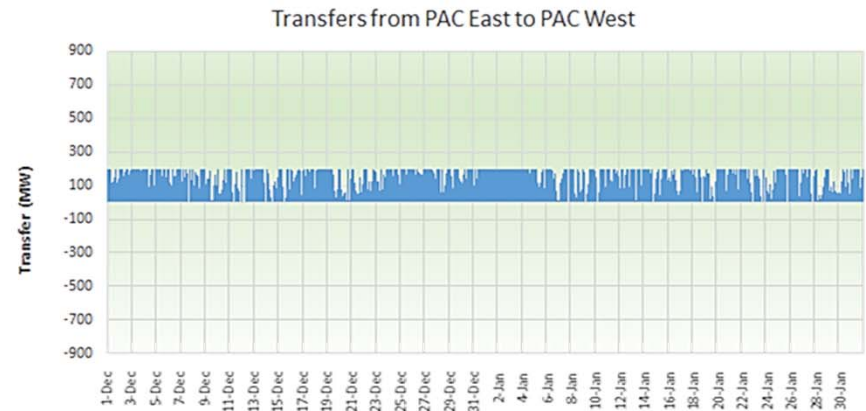
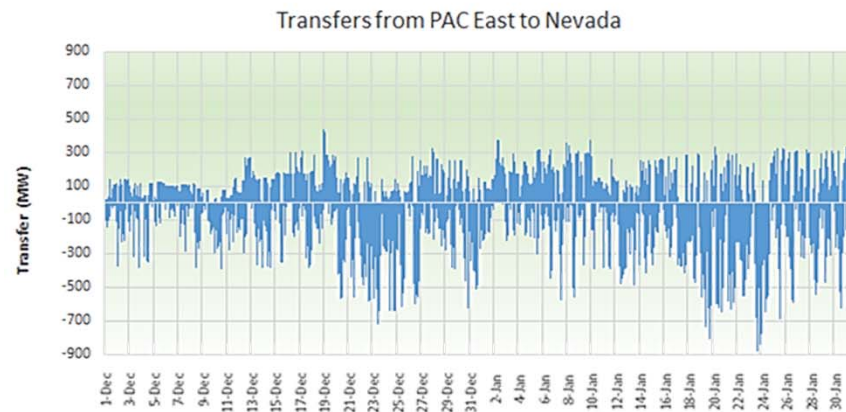
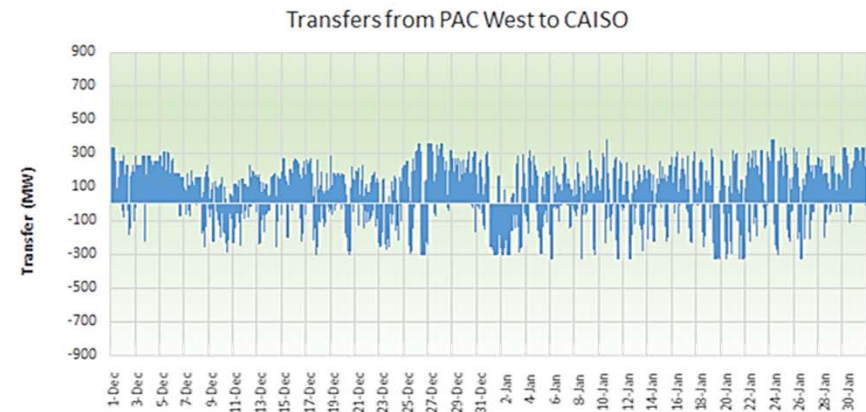
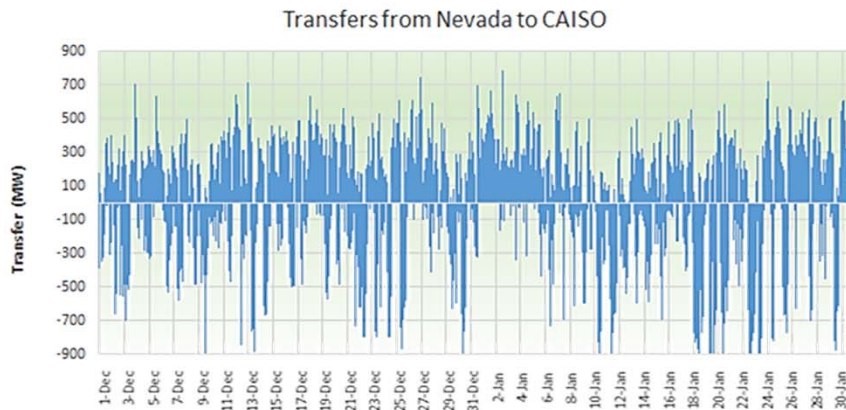


- **More efficient dispatch**, both inter- and intra-regional, in the Fifteen-Minute Market and Real-Time Dispatch
- **Reduced renewable energy curtailment**, by allowing balancing authority areas to export or reduce imports of renewable generation when they would otherwise need to be economically curtailed,
  - Avoided curtailments displaced an estimated 67,969 metric tons of CO2 for Q2 2016
  - Avoided renewable curtailment volume for Q2 2016 calculated to be 158,806 MWh
- **Reduced flexibility reserves needed in all balancing authority areas**, which saves cost by aggregating the load, wind, and solar variability and forecast errors of the combined EIM footprint.
- The EIM continued to show significant benefits during the second quarter of 2016. The **total gross benefits for the quarter of \$23.6 million** are consistent with pre-launch studies, and reflect the transfer benefits of a more robust EIM footprint, that includes both PacifiCorp and NV Energy. **\$88.19 million gross benefits since November 2014.**

# Operational Experience



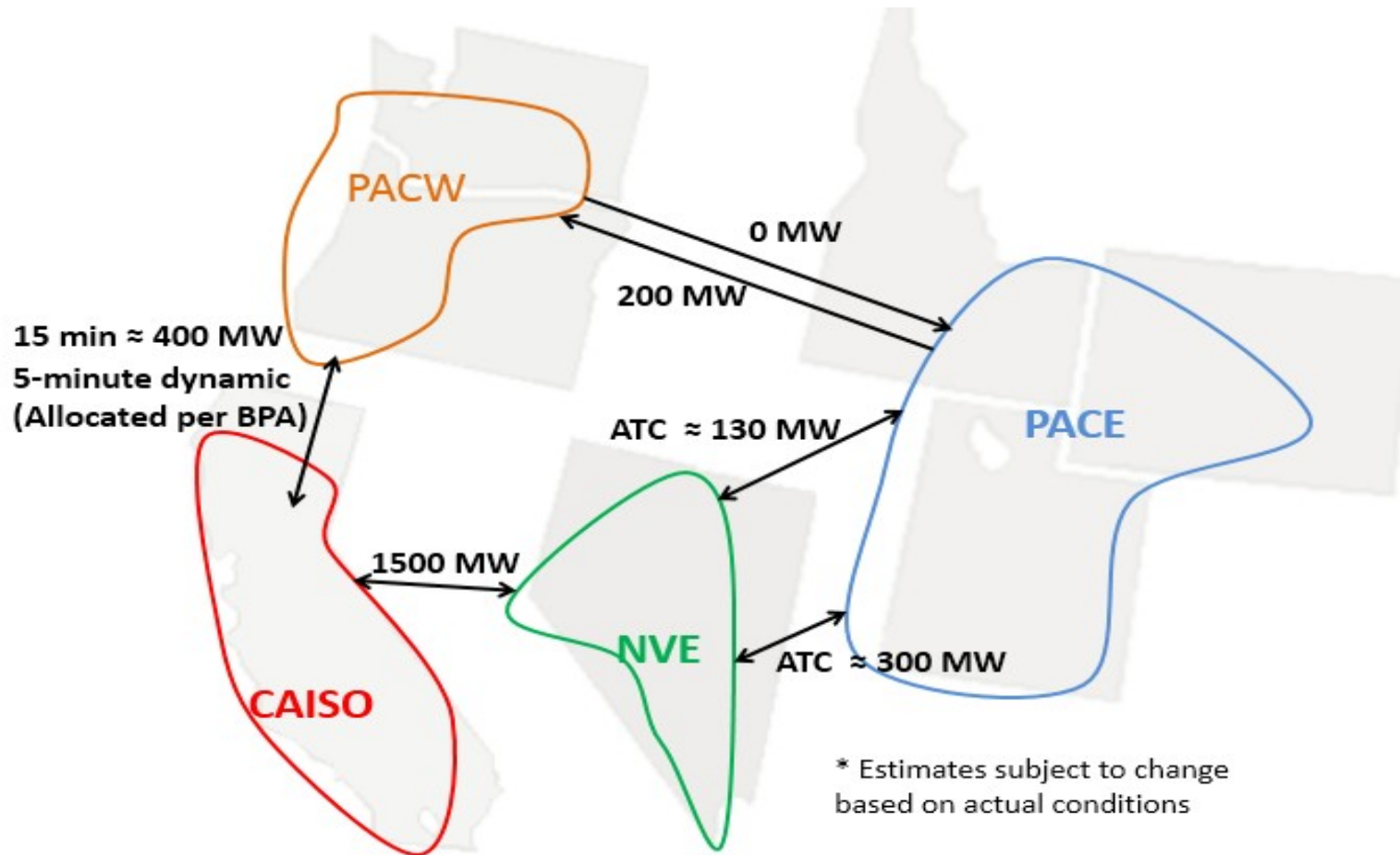
Robust bi-directional transfers observed with NV Energy- December 1, 2015 to January 30, 2016



# Operational Experience



## EIM Available Transfer Capability



# Transmission Overview



- **NV Energy transmission high level overview**
- **Transmission expansion overview**

Thank You