



## Energy imbalance market update

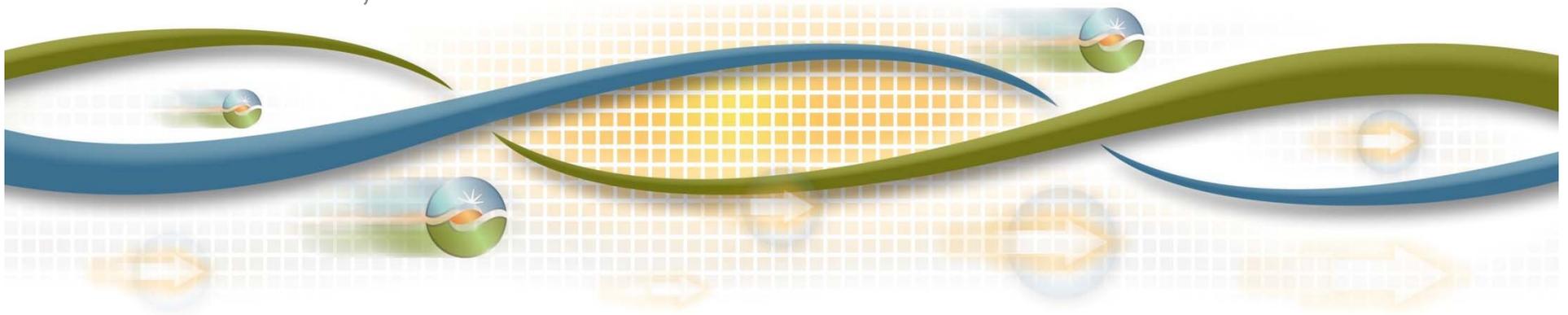
Mark Rothleder

Vice President of Market Quality and Renewable Integration

Board of Governors Meeting

General Session

March 26-27, 2015

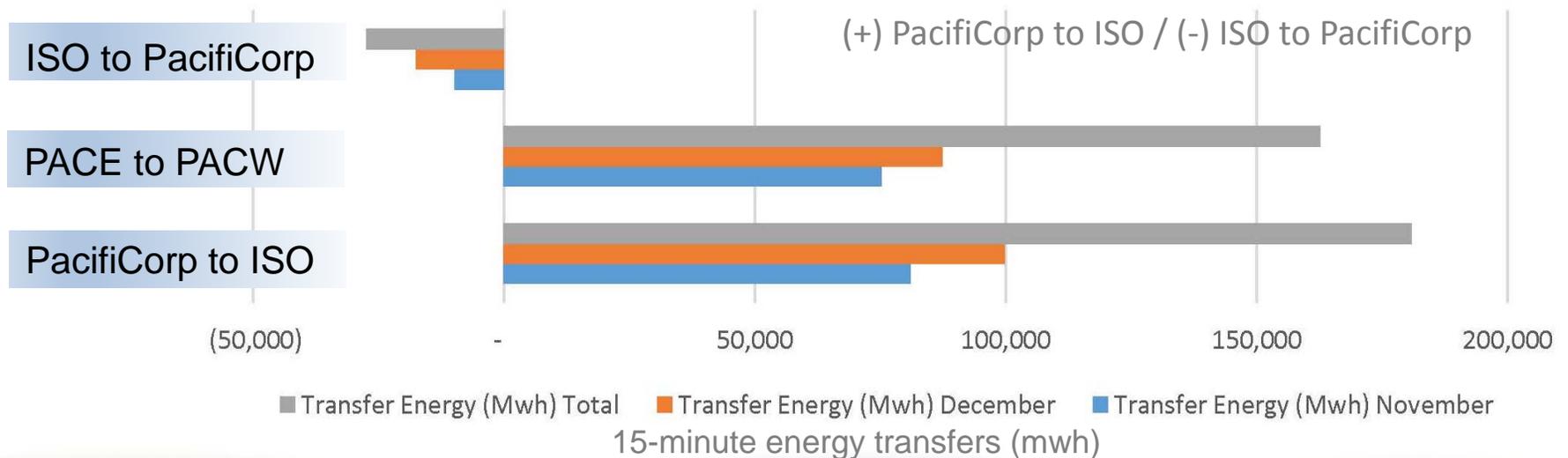


## EIM operations update

- Benefits assessment for 4<sup>th</sup> quarter 2014 issued
- Pricing update
- Review transfer patterns
- NV Energy implementation

# Estimated benefits over all balancing authority areas (BAAs) are consistent with earlier benefit analysis

BAA	November '14	December '14	Total
ISO	\$0.65	\$0.59	\$1.24
PACE	\$1.05	\$1.26	\$2.31
PACW	\$1.39	\$1.03	\$2.42
<b>Total</b>	<b>\$3.09</b>	<b>\$2.88</b>	<b>\$5.97</b>

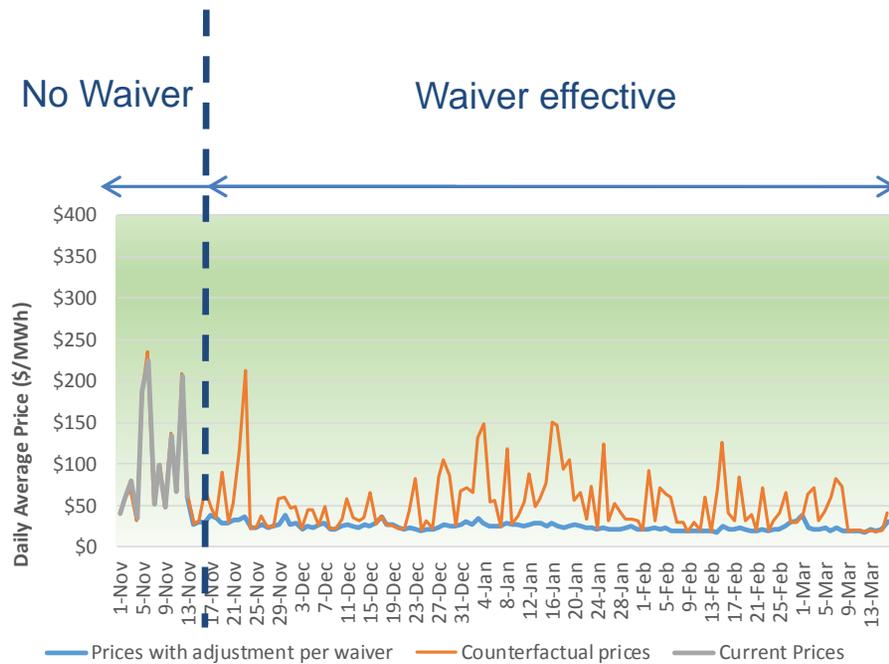


FERC rejected transitional period, extended the waiver, and convened a technical conference for April 9.

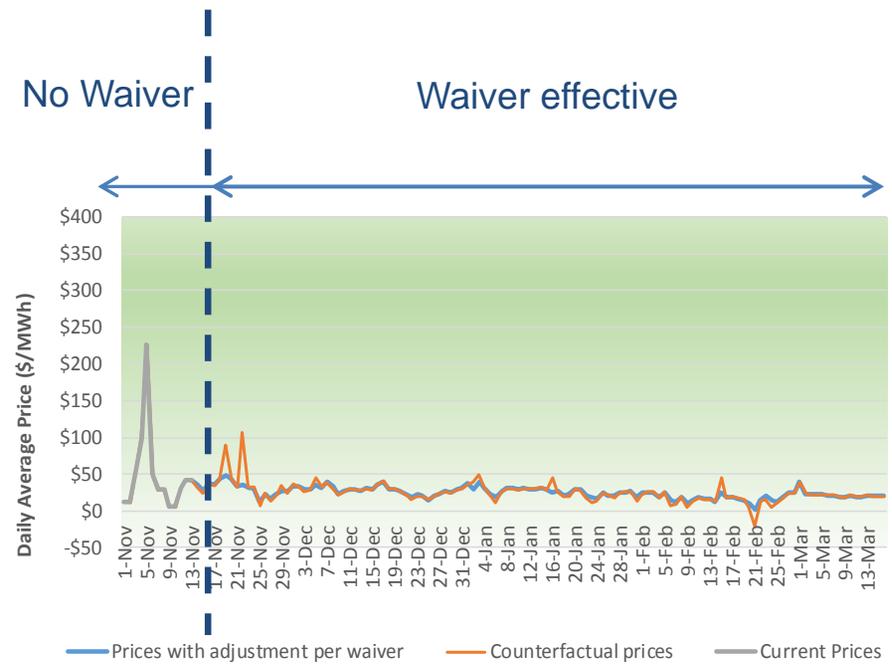
- Amendment to extend price discovery treatment was rejected and the waiver was extended for 90 days (Docket ER15-861-000)
  - Technical conference will consider whether pricing is just and reasonable
  - Compliance filing will include readiness requirements
    - Market simulation and parallel operations
    - Certificate of readiness
- Second waiver requested to include November 1-13 dates remains pending (Docket ER15-817-000)
- Tariff amendment to reduce administrative charges to a fixed amount was accepted (Docket ER15-850-000)

# PacifiCorp East performance improving in March; PacifiCorp West pricing performing well.

## 15-minute PACE Aggregate Price



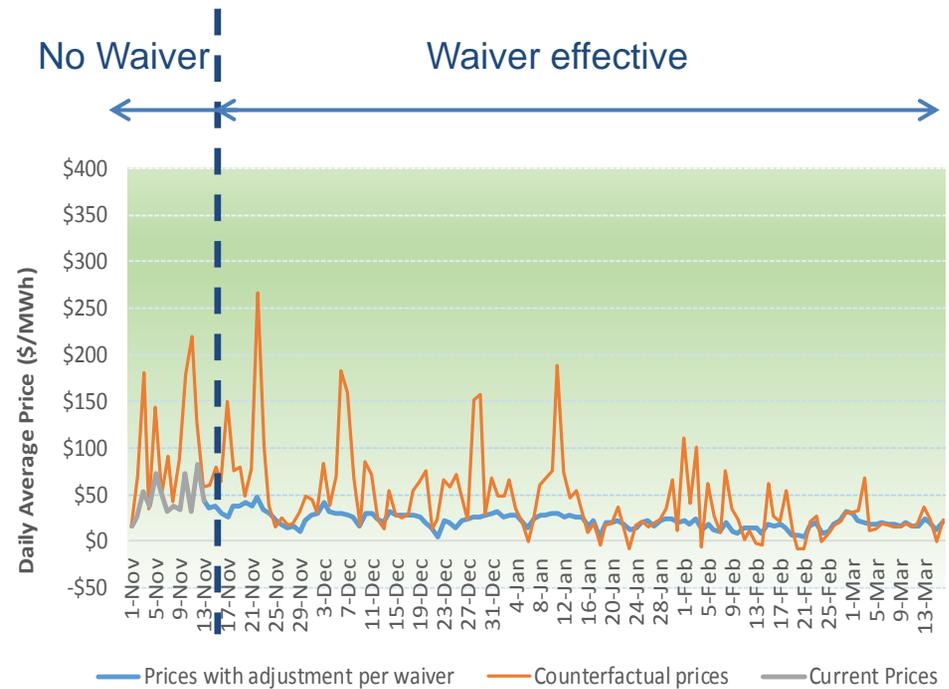
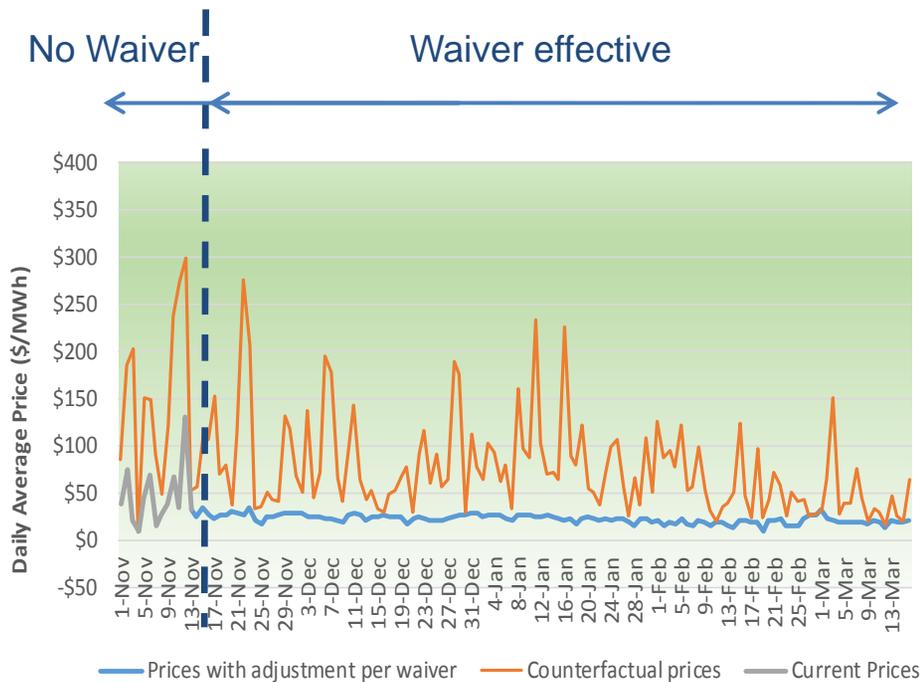
## 15-minute PACW Aggregate Price



# PacifiCorp East performance improving in March; PacifiCorp West pricing performing well.

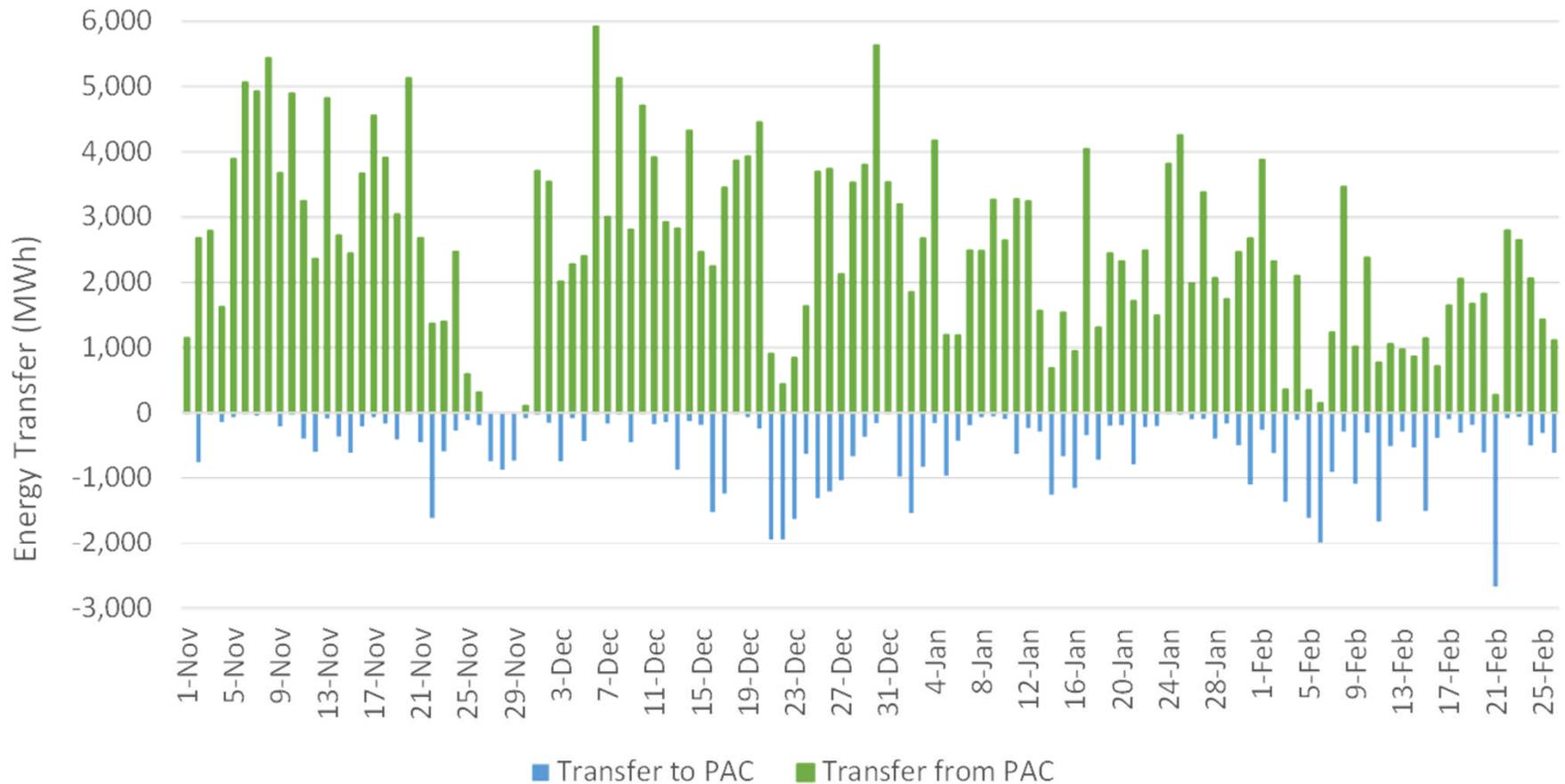
## 5-minute PACE Aggregate Price

## 5-minute PACW Aggregate Price



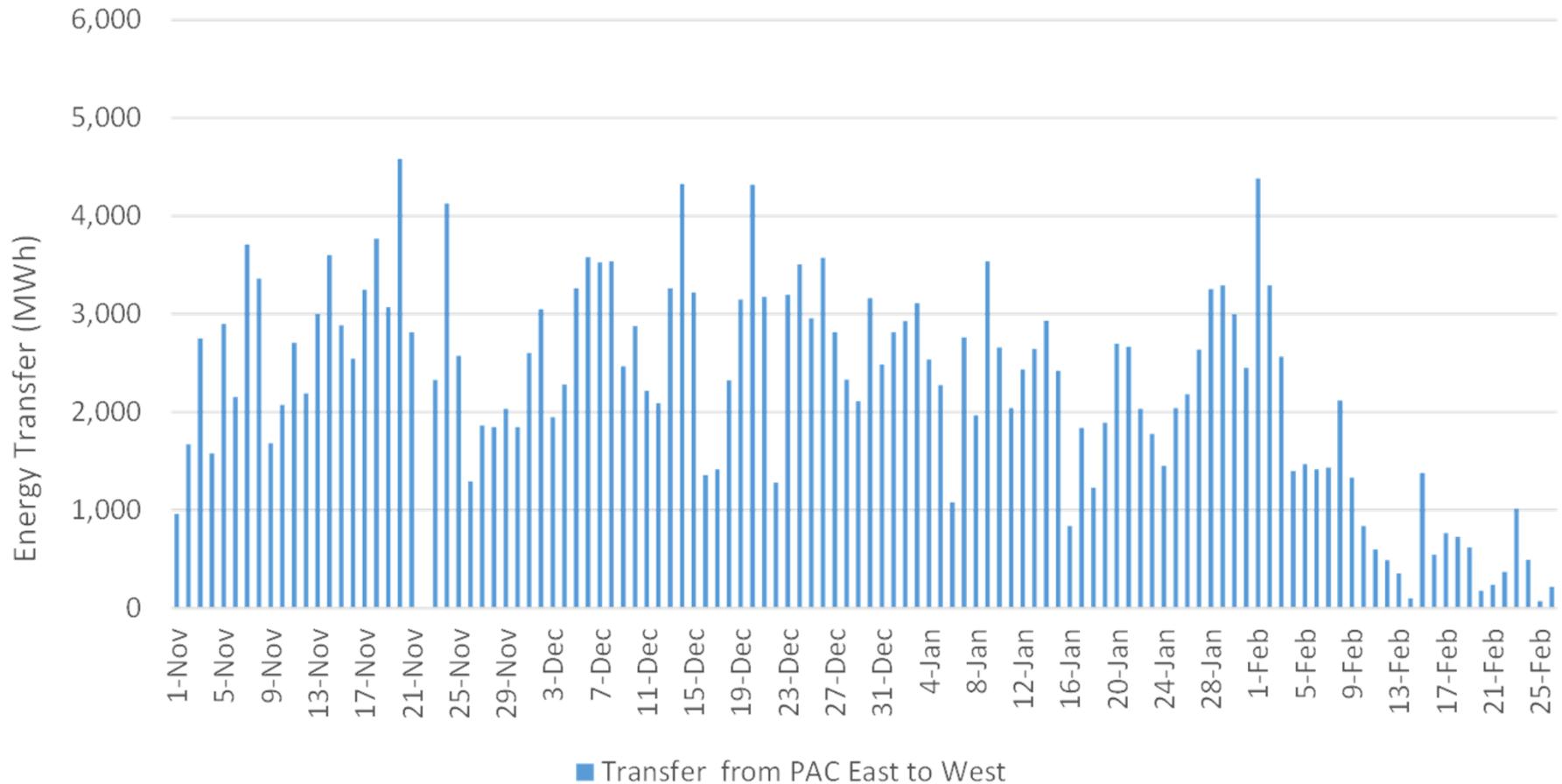
# 15-minute transfers between PacifiCorp and ISO

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



# 15-minute transfers between PACE and PACW moderated in February

(+) PacifiCorp East to PacifiCorp West



## NV Energy implementation progressing on schedule

- Information exchange occurring (network model, base schedule aggregation portal)
- Scheduling coordinator training to complete end of March
- NV Energy filed their revised open access transmission tariff on March 6
- Schedule for testing and market simulation being developed
  - Functional testing – April through June
  - Connectivity and integration testing – starting in May
  - Unstructured market simulation – starting in June
  - Structured market simulation – starting in August
  - Parallel production (non-binding) – starting September 1