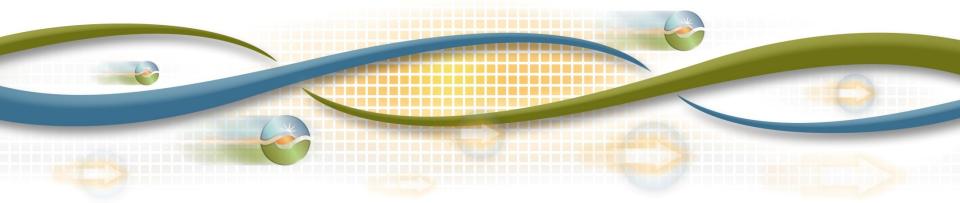


## Briefing on Market Performance

Mark Rothleder

Executive Director, Department Analysis and Development

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## Market performance improved since August update in several areas.

### • Improved performance areas:

- -Hour ahead and real-time prices convergence
- Real-time imbalance energy offset reduces
- -Bid cost recovery downward trends

#### Opportunities for improvement:

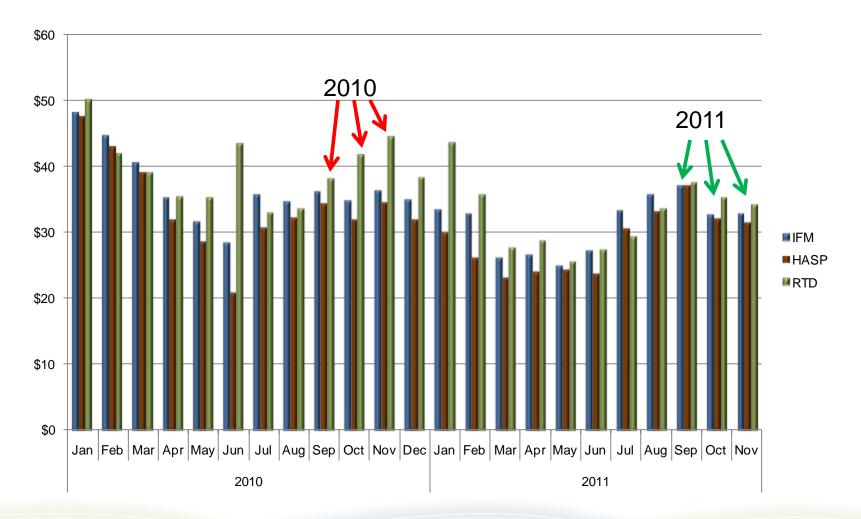
- Price corrections
- Exceptional dispatch

#### Recent changes:

- -Suspension of intertie convergence approved by FERC
- -Flexible ramping approved by FERC and enabled
- Dynamic transfer policy approved by FERC
- -Pilot intra-hour schedule for 200MW of northwest wind

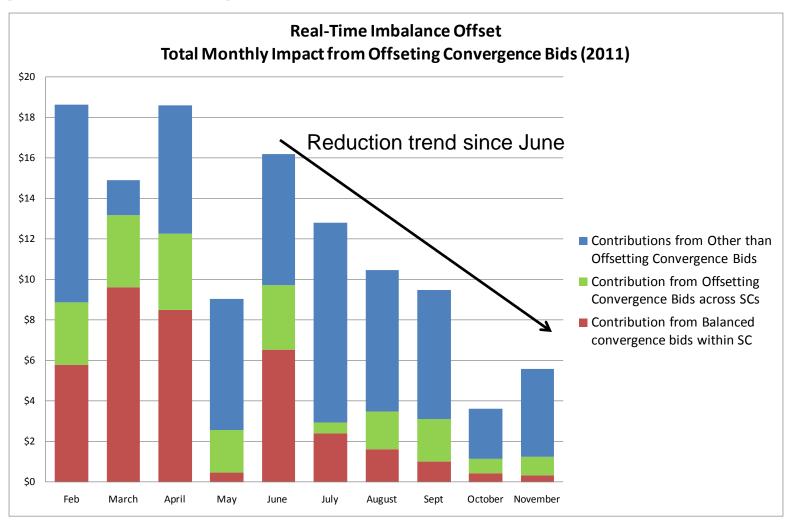


# Hour-ahead and real-time price convergence improved significantly over the same period in 2010.



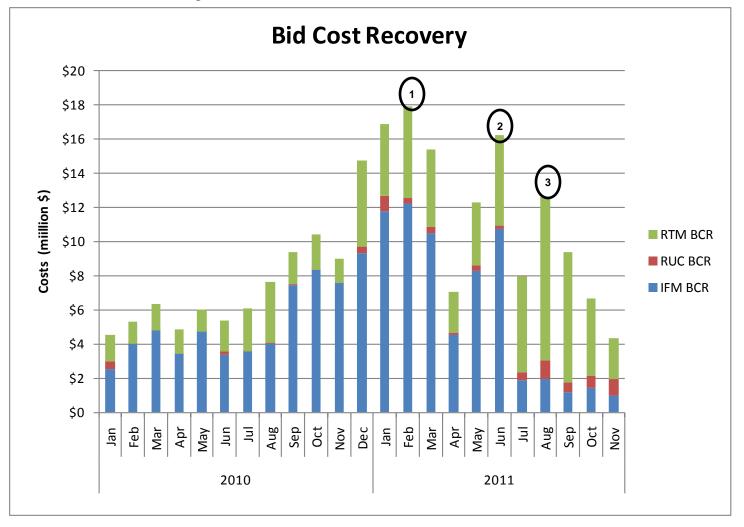


# As hour-ahead and real-time price convergence improves, the impact on costs reduces.





### Bid cost recovery continues downward trend.



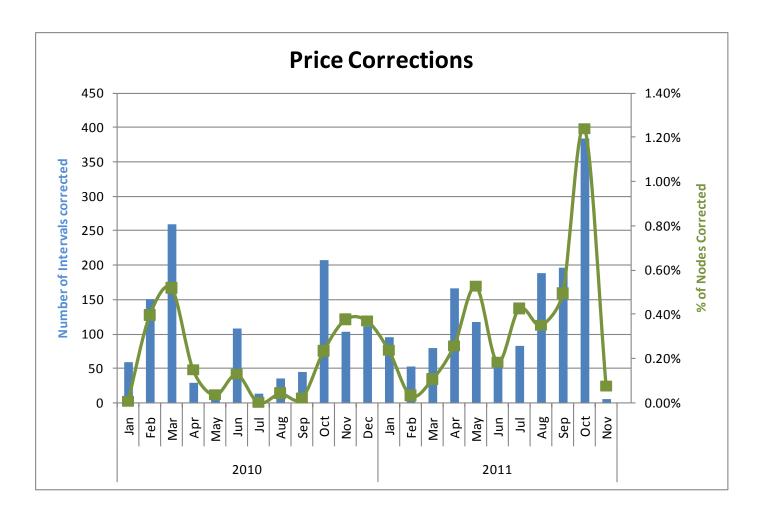
Note 1: Bid cost recovery increase due to bidding and scheduling practice related to March tariff filing

Note 2: Bid cost recovery increase due to bidding and scheduling practice related to June tariff filing

Note 3: August increase due to post day ahead reliability commitments

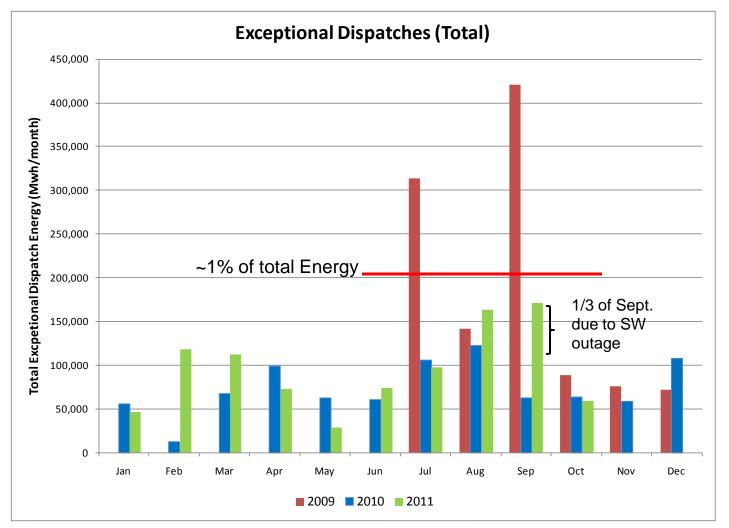


# Price correction events increased October and declined in November.





# Exceptional dispatch volumes remain at relatively low but increase for some months relative to 2010





### The following future improvements are planned:

- Flexible ramping
  - Constraint implemented
  - Full product policy in development
- Enhance management of resource fleet
- Enhance price validation and correction process
- Expand intra-hour schedule pilot with Bonneville Power Administration
- Continue to address conditions leading to exceptional dispatch

