

Briefing on Market Performance

Mark Rothleder Director, Market Analysis and Development

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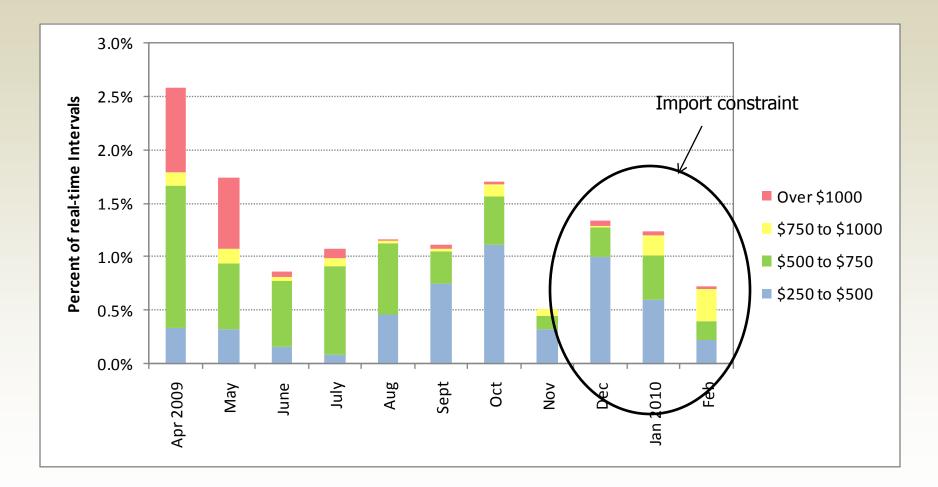
Energy Markets - Overview

Market successful since launch

- Price volatility is reasonable
- Price convergence has improved
- Exceptional Dispatches have declined
- Several areas still need improvement
 - Congestion revenue right (CRR) adequacy
 - Quality of data
 - Market model
 - Load forecasting

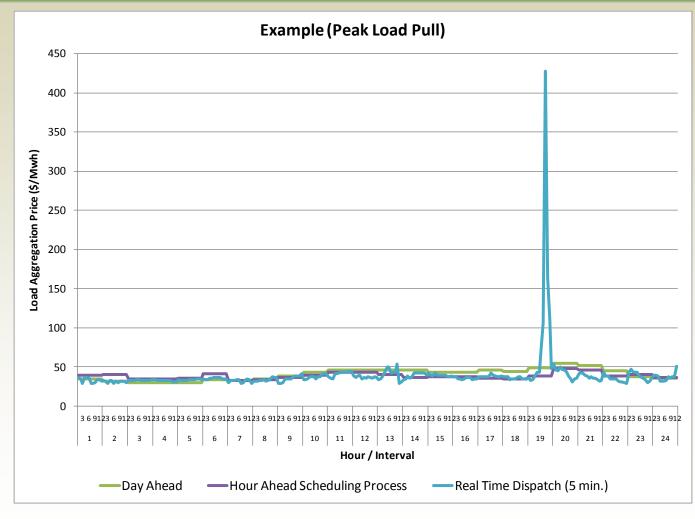


Frequency and magnitude of price volatility in real-time has generally decreased, particularly for extreme price (>\$500/MWh).





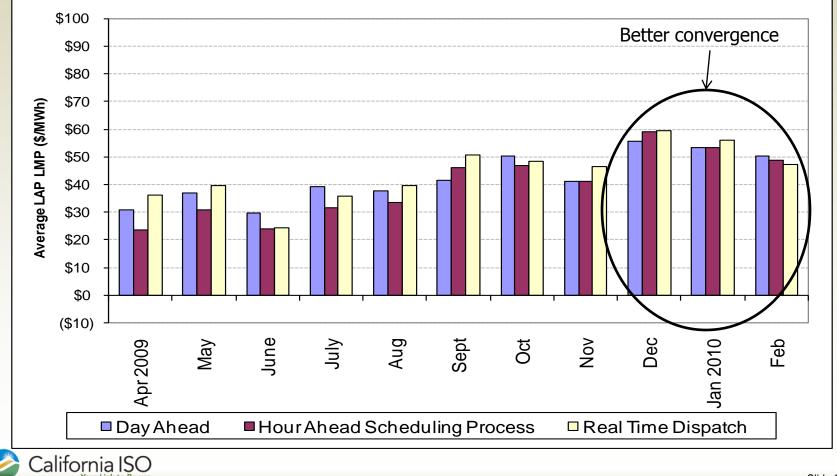
When real-time volatility occurs it is related to system conditions.



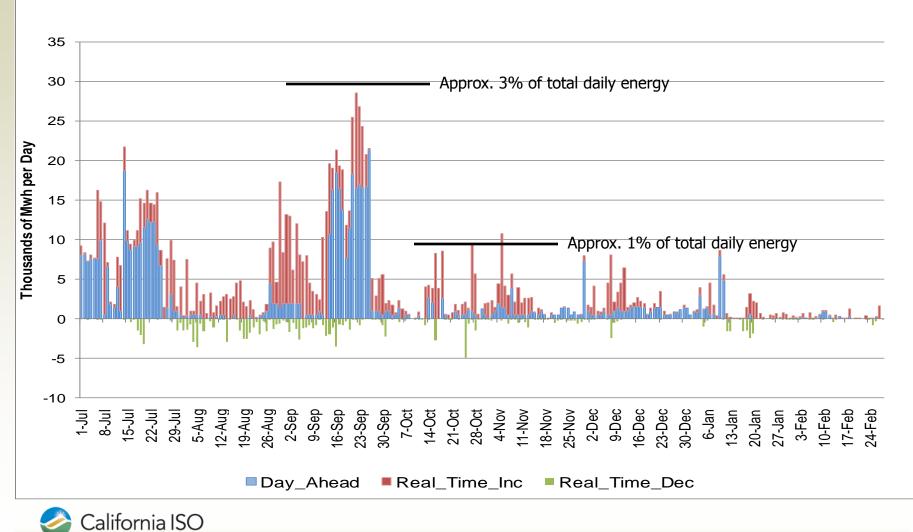


Price convergence between markets has improved.

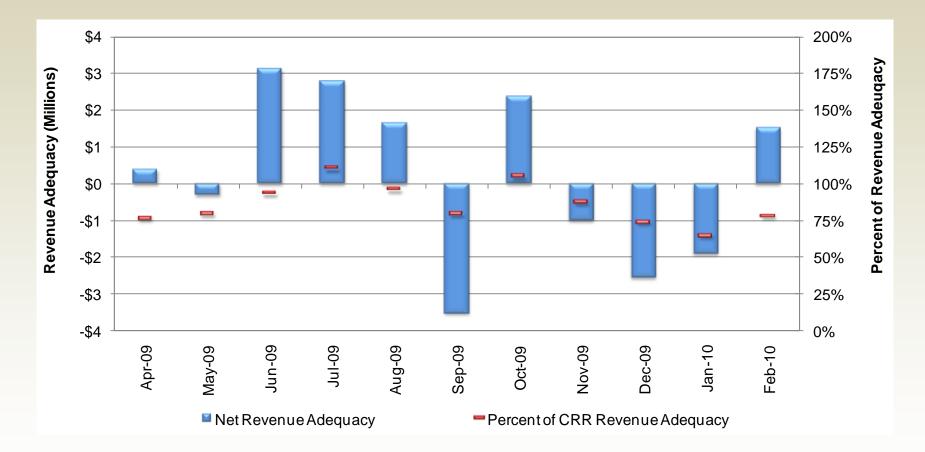
Average Monthly Prices – PG&E Load Aggregation Point (Peak Hours)



Exceptional dispatch volumes continue to decrease as effort to incorporate constraint into the market continues.



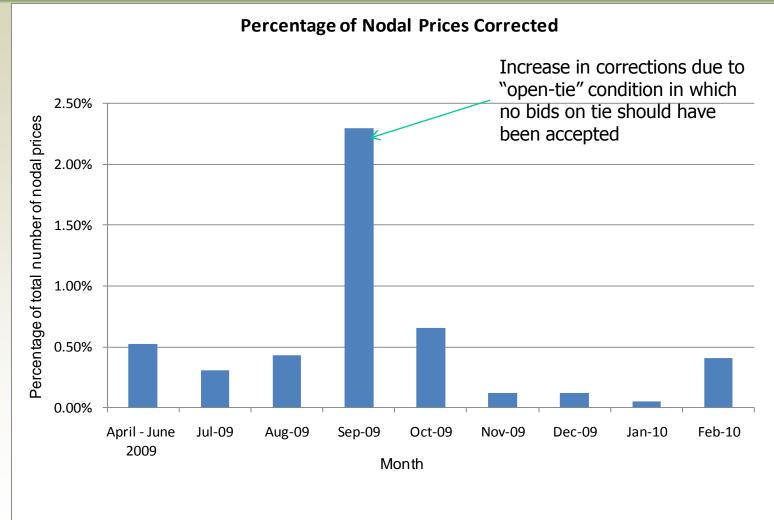
Monthly CRR revenue adequacy continues to be an issue due to unanticipated transmission outages.



Note: Net revenue adequacy includes auction revenue

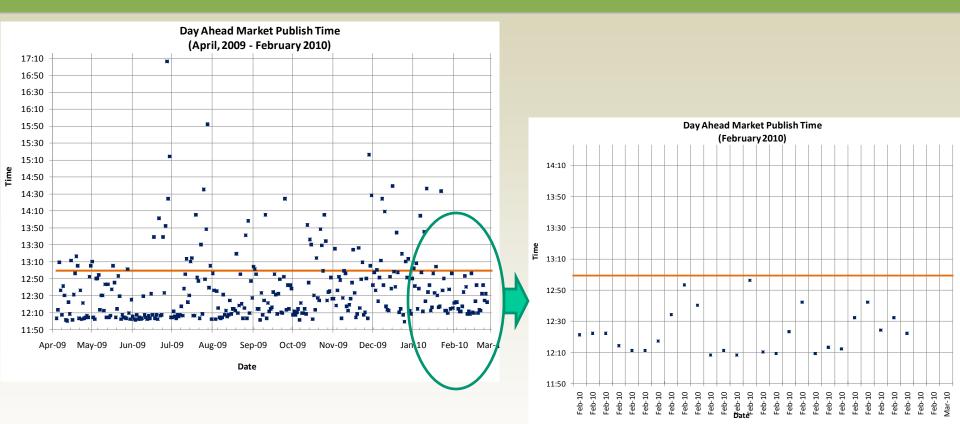


Price-corrections have fluctuated due to "open-tie" conditions.



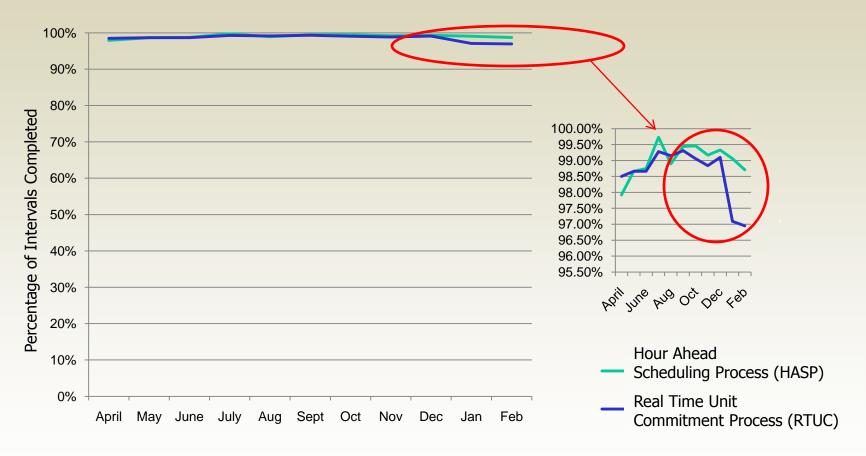


Day-ahead market timing improved in February





Real-time market completions have been near 100%, but declined in January and February.





Areas of focus going forward.

- April 1 1 year changes
 - Spring release
 - Scarcity price, forbidden region, ancillary service in hour ahead process
 - Energy bid-cap increases from \$500 to \$750
 - Eliminate \$2,500 price cap
 - Update to competitive path assessment
 - Mitigated bid adder
- Congestion revenue rights adequacy
- Reduce need for exceptional dispatch
- Increase market transparency
- Improve market model process and detail

