



California ISO  
Your Link to Power

# Briefing on ISO Markets

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Board of Governors Meeting  
General Session  
July 20, 2009

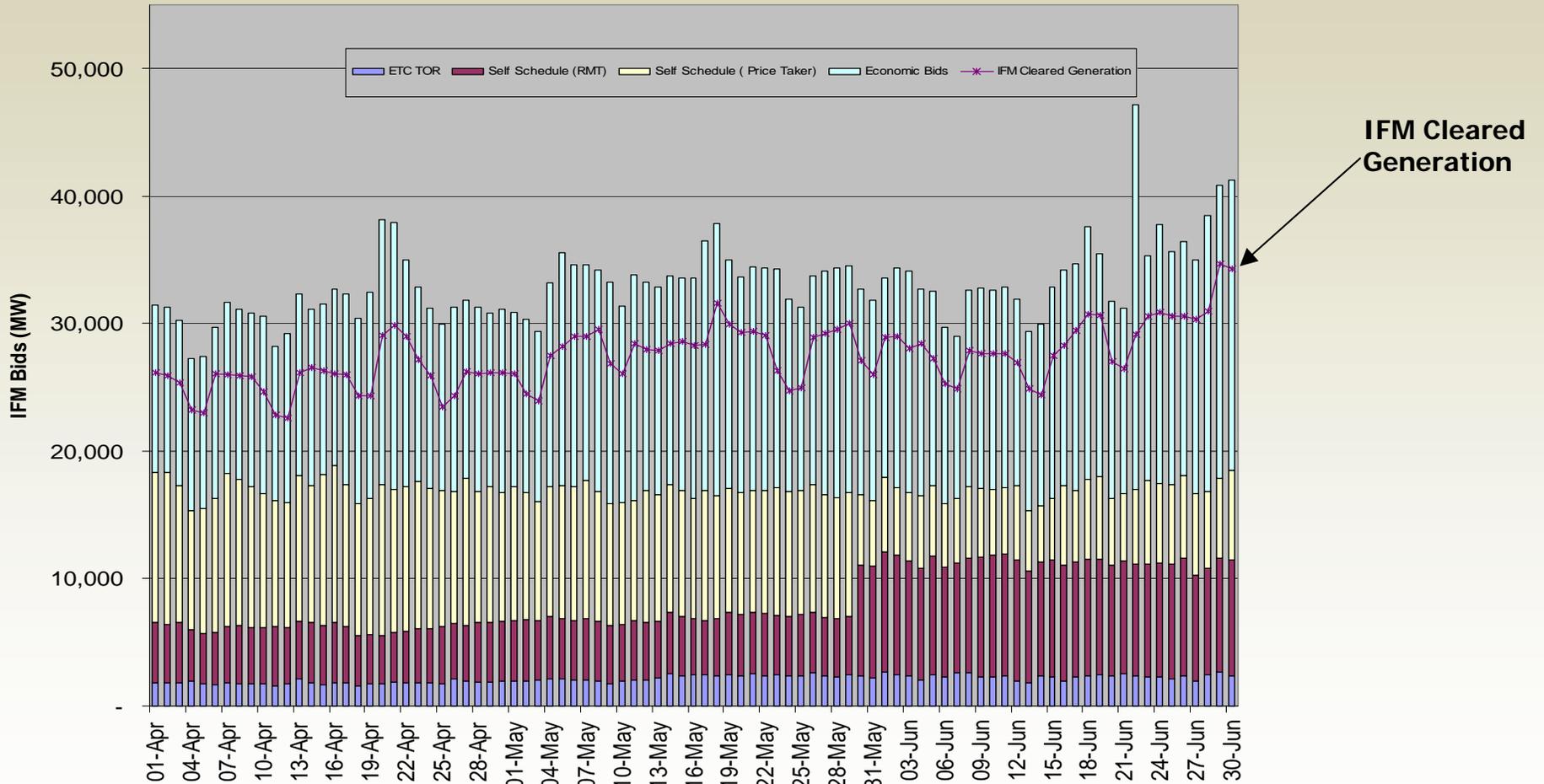
In the first 90 days, daily process and outcome review indicate markets are running well.

- Teams continue daily review and validation
  - Monitor and investigate price excursions
  - Expanded control room support
  - Validating downstream processes and data
  - Settlement statements for accuracy and timeliness
- Significant improvements made to address identified concerns quickly
  - Root cause identification
  - Process and procedure updates
  - Software modification

# Markets are publishing and operating as expected.

Day-Ahead published by 13:00	82.4%
published by 13:30	93.5%
published by 14:00	96.3%
Hour Ahead Scheduling Process	98.19%
Real-Time Pre-Dispatch	98.57%
Real-Time Dispatch	99.57%

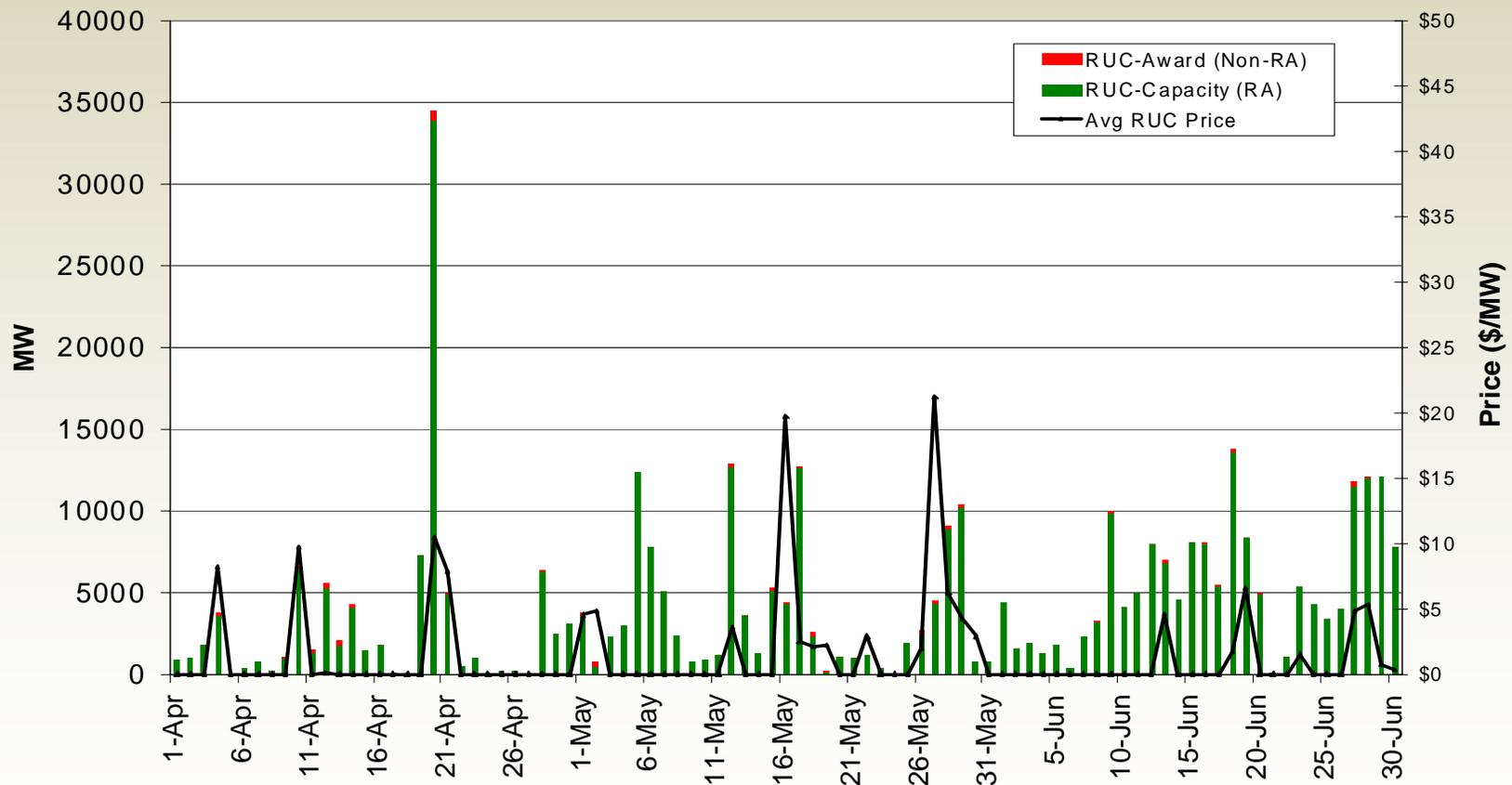
# Schedules and economic bids are greater than IFM needs.



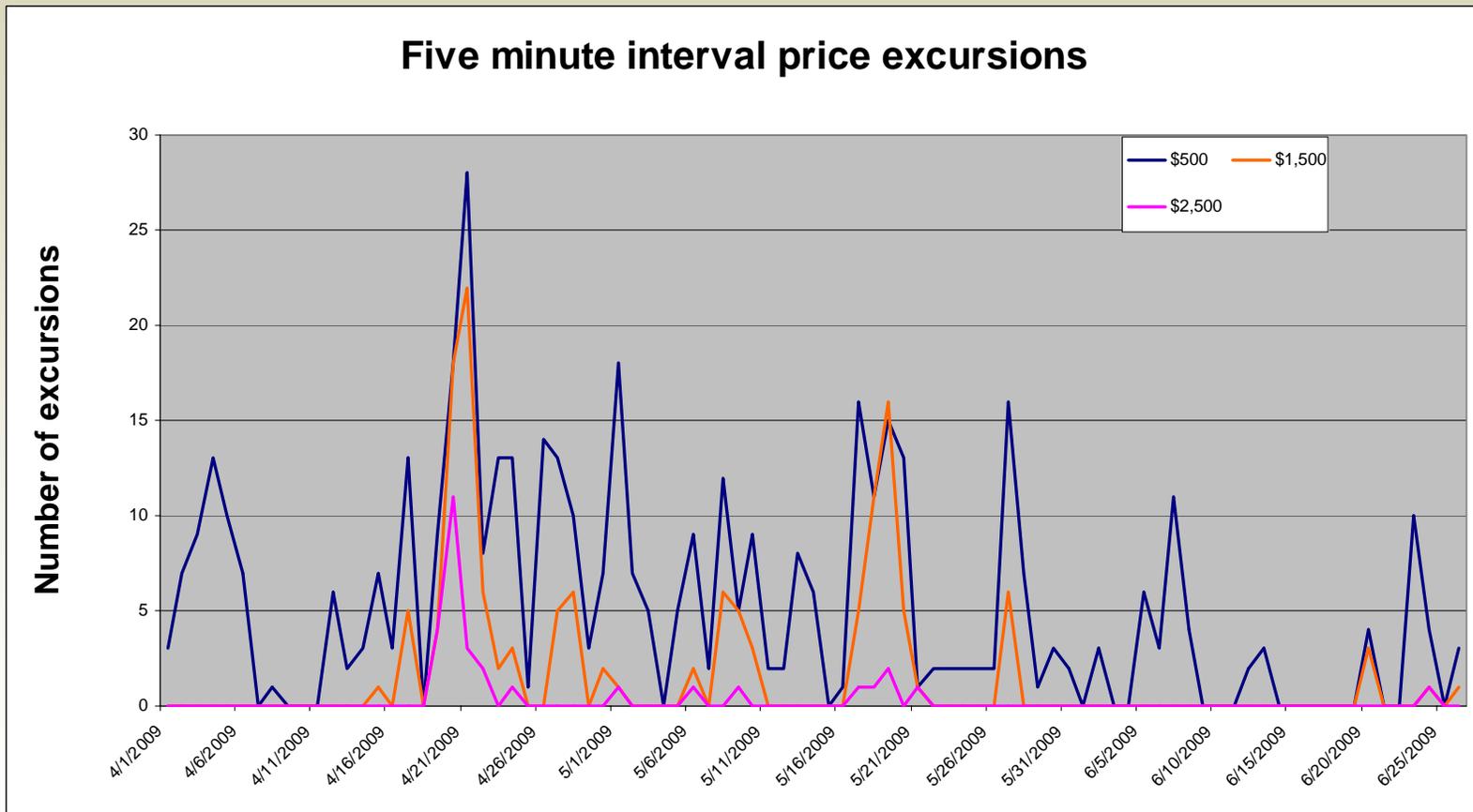
IFM Cleared Generation

# Procured residual unit commitment capacity is generally met by resource adequacy units.

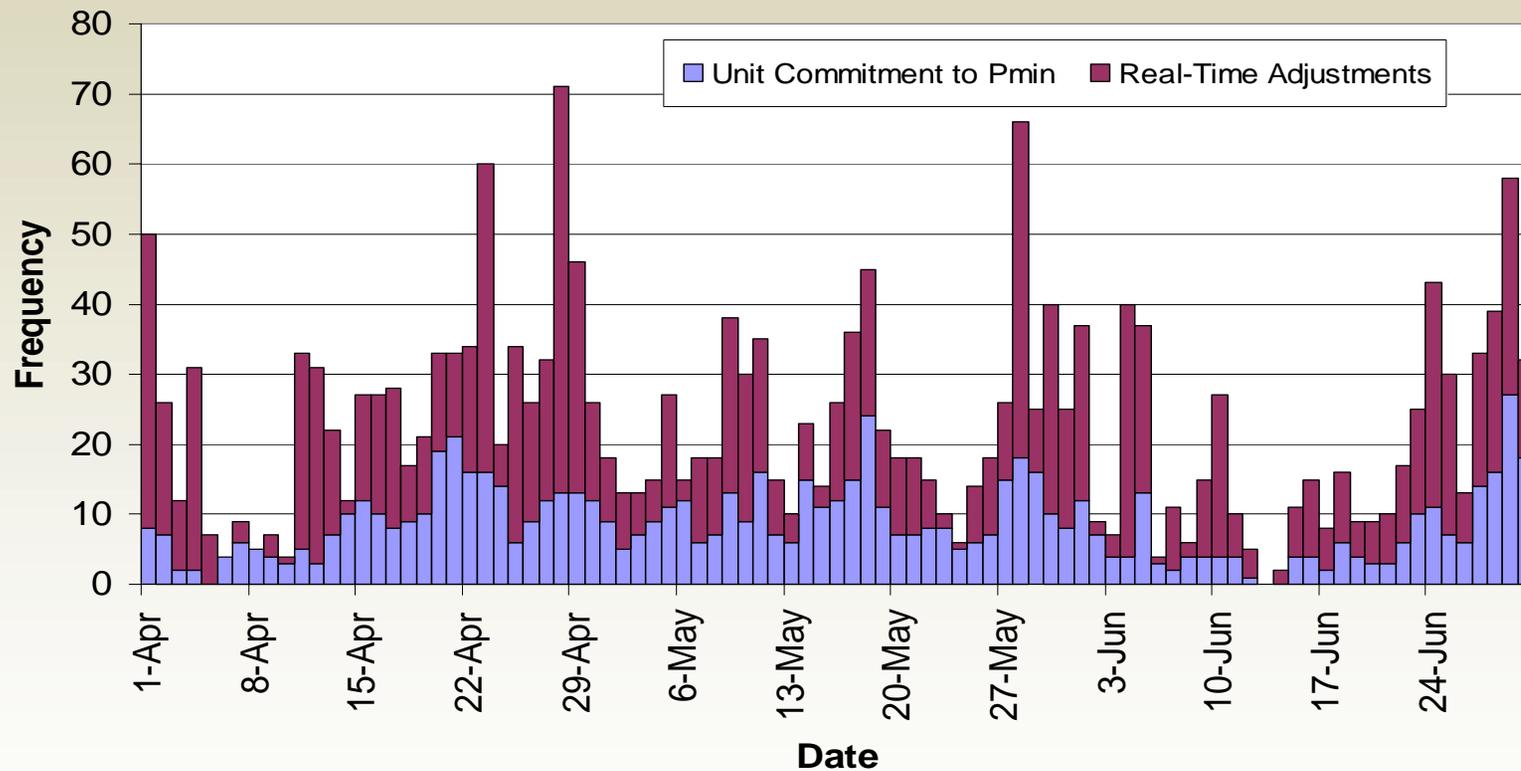
Daily Cumulative RUC-Capacity RUC-Award and Average RUC Price



# Five minute interval price excursions have decreased in real-time.



# Continued monitoring to reduce exceptional dispatch frequency.



# Settlement statements have processed and published timely.

	<u>First publishing date</u>
Advisory Daily Credit	April 10
<ul style="list-style-type: none"><li>▪ Published 7 days after each trade date</li></ul>	
Daily Initial	May 26
Daily Re-Issue	June 12
Monthly Initial Invoice	June 24
<ul style="list-style-type: none"><li>▪ April monthly due July 1</li></ul>	
Daily T+76	July 20

# Disputes of settlement statements are less than expected.

- As the end of June
  - 575 total dispute
  - 486 closed or resolved - 146 valid (30%)
  - 89 in progress
- Market participant settlement inquiries resolved prior to first initial statement
- Early market participant outreach
- Additional analysis response established in preparation for wave of disputes

# Looking forward, there are opportunities for improvement.

- System tuning continues
  - Load forecasting accuracy
  - Ramping capacity availability
- Market modeling
  - Revisions to model setup process
  - Improve information from transmission owners
- Price correction process
  - Continue automation efforts and expand metrics
  - Reduce causes for corrections
- Reduce exceptional dispatch
  - Evaluate exceptional dispatches to date and determine solutions
  - Determine software fixes to allow automation of dispatches