

# Wind Integration Team Update



- **WIT Work Plan Update: Preston Michie**
- **Intra-Hour Scheduling: Peggy Olds**
- **Enhanced BPA BA: Eric King**



# WIT Work Plan Update



## WIT Work Plan Update: CSGI

- BPA's CSGI Pilot participant continues to successfully implement the CSGI Pilot.
- BPA will work with the participant to test an additional feature for the Pilot: allowing short term market purchases delivered to the centroid.
- This additional feature is expected to help the participant manage station control error in a new way.
- Implementation and policy issues are still under discussion and a final decision to implement will be determined once these issues are resolved.
- Expected implementation for the market to centroid flexibility: Summer, 2012.
- BPA also expects to evaluate the CSGI Pilot Program this fall.

# WIT Work Plan Update: Business Practices



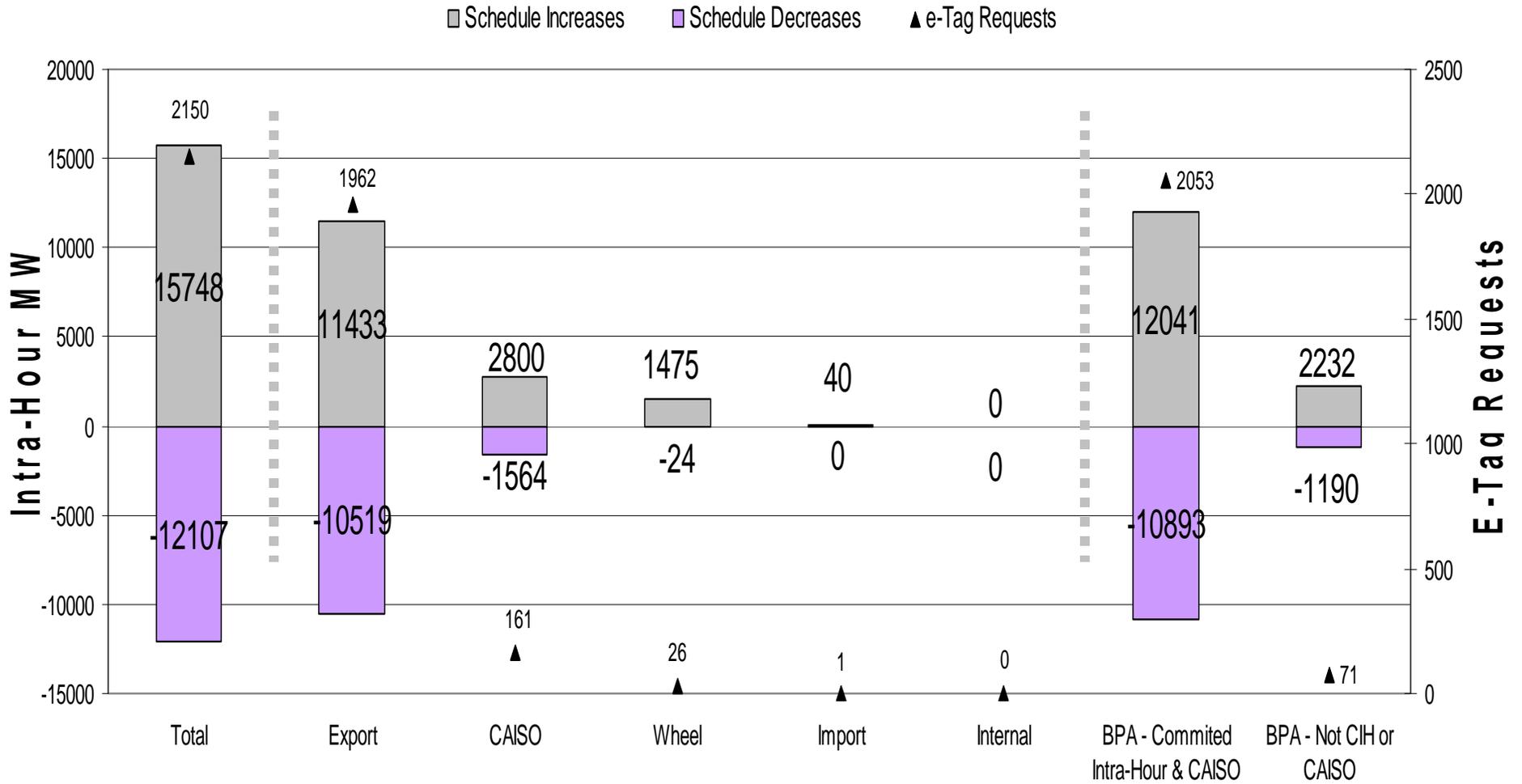
- As the plans are laid for upcoming rate case discussions, BPA's goal in the WIT process is to provide customers choice and necessary information to make informed decisions.
- Many WIT Pilot decisions were tied to a rate case period. To prepare for future revised Pilots, BPA will try to streamline the business practice processes and align programs with upcoming rate case deadlines.
- The CSGI and DTC business practices will be revised and out for customer comment this summer in preparation for the FY14-15 rate proposal, expected later this fall.
- Planning another DTC offer period is also expected in early fall to allow enough time for new DTC awards to be implementable by October 1, 2013.

# Intra-Hour Scheduling



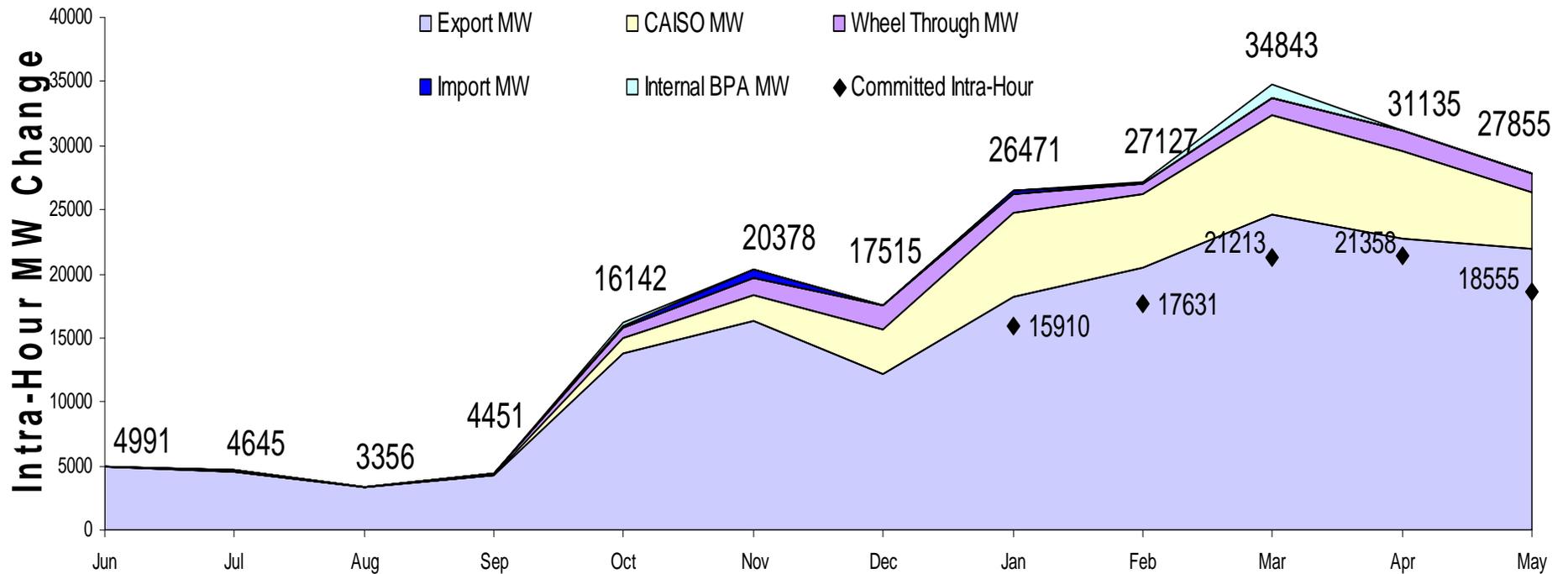
# Intra-Hour Scheduling

## May 2012



# Intra-Hour Scheduling Last 12 Months

Absolute Value of MW Change



# Intra-Hour Scheduling

## Current Status

- 30-Minute Intra-Hour Scheduling
  - Fully Implemented
  - No Pending Changes
  
- CAISO Intra-Hour Scheduling
  - Fully Implemented
  - Evaluation and Recommendation – Summer 2012

# Intra-Hour Scheduling Current Status (Continued)

- Committed Intra-Hour Scheduling
  - 34% Reduction in Wind Integration Rate
  - Exemption from Persistent Deviation
  - 572 of 1200 MW Subscribed
  - 30-Minute Persistence (30-MP) Schedule Available in Generation Advisor
  
- Customer Feedback needed --
  - How is it working?
  - What would make it more useful for customers?

# Enhanced BPA BA (EBBA)



# Enhanced BPA Balancing Authority (EBBA)

- BPA held a public meeting last March to initiate discussions on what “enhanced” balancing authority services might look like for the BPA BA in FY17 and beyond time frame.
- After previewing the EBBA concepts, BPA asked for customer feedback and held a comment period to gather input.
- BPA received comments from 11 parties on the initial EBBA construct.
- BPA’s responses to the comments are posted at:
  - [http://transmission.bpa.gov/wind/ebba/BPA\\_Response\\_to\\_Customer\\_Comments-EBBA.pdf](http://transmission.bpa.gov/wind/ebba/BPA_Response_to_Customer_Comments-EBBA.pdf)
- BPA will continue to refine the EBBA concepts based on these comments and responses.
- EBBA implementation and policy issues are still under discussion internally. As issues and solutions mature, and further customer input is gathered, a final EBBA proposal will be developed.

# EBBA: Comments/Response Summary

- **Parties support the optional purchase of supplemental reserves on a short-term basis.**
  - *BPA shares the interest in continuing to pursue efforts related to enhancing supplemental service*
  
- **Parties support Bonneville's responsibility to maintain reliability but have concerns regarding the implementation of DSO 216**
  - *Regardless of whether BPA eventually develops the ability to call on additional non-federal reserves to cover wind generation when it requires more INC reserves than are standing ready, BPA will need to maintain DSO216 or a similar mechanism to limit schedules when necessary for reliability purposes*
  
- **Parties note that tagging should be in accordance with all applicable FERC, NERC, and WECC standards**
  - *BPA agrees that tagging should be in accordance with all applicable FERC, NERC, and WECC standards, however, tagging should also reflect the mutual understanding of the seller, purchaser, and source and sink BAs*

# EBBA: Comments/Response Summary

- **Parties support and encourage Bonneville to take all possible actions to support and promote increased intra-hour scheduling**
  - *BPA agrees that expansion of Committed Intra-Hour Service could enable more efficient use of the FCRPS resource to manage more wind generation in the region*
  
- **Parties encourage Bonneville to take all possible actions to support and promote dynamic scheduling on Bonneville's system to enable other entities to assist Bonneville in its system balancing functions**
  - *BPA agrees that allowing more dynamic transfer and increasing dynamic transfer capability (DTC) across the WECC interconnection may be desirable by many parties*
  
- **Parties are interested in, and requests further discussions on how BPA envisions it would implement centralized forecasting for wind projects in their BA**
  - *BPA appreciates support for the idea of developing better forecasting tools to better predict BPA's balancing reserve needs. If wind generators were scheduling to a centralized forecast and committing to a specific scheduling approach, such as 30/30 or 30/60 scheduling, reserve use would become more predictable, although some uncertainty will always remain. If scheduling becomes more accurate, reserve use will decrease and eventually the reserve requirement could be reduced*

## EBBA (Continued)

- **Parties encourage BPA to participate in the Northwest Market Assessment and Coordination Committee (MC)**
  - *BPA expects to be an active participant in the Northwest Market Assessment and Coordination Committee*
  
- **Parties would like the Base Level of Service to not set a fixed maximum of service**
  - *The uncertainty involved in planning river operations to meet load obligations and non-power constraints on an ongoing basis make it very difficult for BPA to make additional on-demand capacity products available on a short-term basis without impacting future river operations*
  
- **Parties supports continuation of self-supply and encourages Bonneville to explore potential expansion of self-supply**
  - *BPA agrees that self-supply options will continue to be an important element for managing balancing capacity in our BAA*

# EBBA: Enhanced Supplemental Service

## Enhanced Supplemental Service expectations:

- Make significant progress in increasing the ability of market participants to make shorter-term purchases of balancing capacity to meet the balancing needs of their Variable Energy Resources.
- This service is expected to allow participants that desire a higher level of service to acquire Balancing Reserves through a Supplemental Service.
- Implementation and policy issues are still under discussion and final decision to implement will be determined once these issues are resolved.
- BPA will work with interested parties.