

**BPA Wind Integration Team Initiatives  
Update to WIT email list  
August 2011**

This is the monthly update on BPA's Wind Integration Team initiatives for August 2011. If you have questions, contact WIT Program Manager Eric King at 503-230-5236.

**BPA seeks comments on new supplemental service business practice**

BPA is accepting comments through Sept. 9 on a draft business practice for the new Supplemental Service Pilot the agency committed to develop in the BP-12 rate case. This optional service will allow wind project operators in the BPA balancing authority to purchase or ask BPA to purchase non-federal balancing reserve capacity to help them avoid DSO 216 curtailments.

Customers have two options for supplemental service. They can purchase an eligible balancing resource and provide that resource to BPA, or they can ask BPA to purchase supplemental reserves from suppliers in the market.

Once the resource is acquired, BPA will integrate it with the agency's automatic generation control system. BPA will call on that resource when a DSO 216 curtailment is issued. The service is not a guarantee against curtailments during a DSO 216 event, but it would provide the participating customers an additional margin of protection.

BPA is accepting comments via [techforum@bpa.gov](mailto:techforum@bpa.gov) through Sept. 9. BPA expects to finalize the business practice by Sept. 26. At that time, customers can begin the process to acquire or ask BPA to acquire resources. The draft business practice is posted at [http://transmission.bpa.gov/ts\\_business\\_practices/](http://transmission.bpa.gov/ts_business_practices/).

**BPA seeks comments on draft business practices to advance intra-hour scheduling**

BPA has posted for comment six draft business practices that will expand the intra-hour scheduling practices BPA already has in place. Intra-hour scheduling is one of the most promising ways to manage large amounts of wind power in the transmission grid. If all wind resources in the BPA balancing authority submitted accurate 30-minute schedules, BPA estimates it could significantly reduce its balancing reserve capacity requirements, potentially by more than 30 percent.

BPA will accept comments on the business practices via [techforum@bpa.gov](mailto:techforum@bpa.gov) through Sept. 23. They are posted at [http://transmission.bpa.gov/ts\\_business\\_practices/](http://transmission.bpa.gov/ts_business_practices/).



Here is a summary of each business practice:

#### Intra-Hour Scheduling Pilot Program Phase III

Currently, intra-hour scheduling is limited to non-firm schedule increases. Under phase III of the Intra-Hour Scheduling Pilot Program, BPA will allow both intra-hour schedule reductions and increases. BPA will also allow firm and non-firm schedule requests. BPA expects to initiate Phase III on or before Sept. 27.

#### Requesting Transmission Service

This business practice describes the process and guidelines for requesting transmission service from BPA. It has been revised to reflect changes in the transmission service products available within the hour to support intra-hour schedules allowed under the pilot.

#### CAISO Intra-Hour Scheduling Pilot Program

This joint pilot with the California Independent System Operator (CAISO) will evaluate the use of intra-hour scheduling on the California-Oregon Intertie. If successful, the pilot will provide better scheduling and balancing flexibility for variable energy resources exported from BPA's BAA into the CAISO BAA. Currently the market design does not allow for bilateral intra-hour schedule changes with the CAISO.

BPA previously sought and selected wind plant operators within BPA's BAA to agree to schedule some or all of the output of their wind plants to the CAISO every half hour. While CAISO is the only California party participating in this pilot, all California parties can participate in BPA's other intra-hour scheduling pilot programs. The pilot is expected to begin Oct. 1 and last at least one year.

#### Committed Intra-Hour Scheduling Pilot

BPA agreed to conduct this pilot in the 2012 rate case. Wind generators that commit to submit schedules every 30 minutes with a certain degree of accuracy are eligible for a 34 percent reduction in the wind integration rate for variable energy resource balancing. BPA could launch this pilot by Oct. 1, 2011 if there are interested participants.

#### Generation Imbalance Service/Energy Imbalance Service

The generation imbalance service is taken by transmission customers when there is a difference between scheduled and actual generation in each hour. Energy imbalance service is taken when there is a difference between hourly energy scheduled to a load and actual energy delivered to that load. Currently, imbalance charges are calculated using hourly information. Now the charge will be calculated using 30-minute information when a customer submits an intra-hour schedule.

#### **BPA hosts workshop on draft business practices**

BPA held a customer meeting Aug. 29 to answer questions about the supplemental service and intra-hour scheduling draft business practices. Approximately 40 people attended. The discussion

focused on the technical details of the business practices. For example, BPA clarified that the CAISO Intra-Hour Scheduling Pilot does not consume dynamic transfer capability. The meeting agenda and handouts are available at

[http://transmission.bpa.gov/business/Business\\_Practice\\_Updates/](http://transmission.bpa.gov/business/Business_Practice_Updates/).

### **Northwest Wind Integration Forum follows through with action items**

Work continues on the seven [action items](#) that resulted from the Northwest Wind Integration Forum Steering Committee meeting last June. One of the actions is to examine potential reliability concerns. Accordingly, BPA hosted an Aug. 23 workshop on voltage stability and transient issues associated with large-scale wind integration. The agency will develop and share a meeting summary in the coming weeks.

See the [Northwest Wind Integration Forum](#) website for other developments, including a new public discussion forum and the work of the Oversupply Technical Oversight committee.