

Communication of Synchronized Reserve Quantities to Resource Owners

When PJM initiates a synchronized reserve event, any resource in the applicable reserve zone that is able to ramp up and provide additional MWs to the system is encouraged to do so with a financial incentive. Resources that offer in to the Synchronized Reserve Market receive a Tier 2 assignment if their offer clears. These resources are obligated to provide the assigned MWs else they will incur a compensation refund in the amount of the shortfall. Online generating resources that are estimated to have remaining MW capability based on their current economic dispatch basepoint and ramp rate are also factored into the synchronized reserves estimated to be available to respond during an event. This remaining capability on economically dispatched units is referred to as Tier 1 synchronized reserve. While PJM relies on Tier 1 resources to respond to a synchronized reserve event consistent with Good Utility Practice, Tier 1 resources are not financially obligated to provide their Tier 1 estimated MW during an event. While Tier 2 assignments are communicated to resource owners by Markets Gateway or ICCP link, the Tier 1 MW estimated on the unit is not transparent to the resource owner. If this MW amount is being counted on to respond during a synch event, PJM feels that it is beneficial to communicate this estimate directly to the resource owners in real time so they are aware that PJM has estimated that the unit may be able to respond during the event.

Starting in the spring of 2015, resource owners began receiving additional data points via ICCP link directly to their resources. Previously, flexible resources were only receiving their Tier 2 Synchronized Reserve assignments along with their energy dispatch signals via ICCP link. In an effort to provide transparency to resource owners, additional data points are now being communicated to provide transparency into the unit-specific values used in clearing the Synchronized Reserve Market. Flexible resources are receiving their Tier 1 MW estimate amount, as well as the DGP value used to calculate the Tier 1 MW estimate, via ICCP link. The DGP is the Degree of Generation Performance, a factor used to de-rate the ramp rate of the unit depending on how closely the unit has been following economic dispatch over the past 30 minutes. In addition to communicating these additional data points via ICCP link, the Tier 1 MW estimate, the DGP, and the Tier 2 assignment are posted on the Dispatch Lambda page in Markets Gateway. The Tier 1 MW estimate and the DGP data points are informational, while the Tier 2 MW assignment carries an obligation to respond should a synch event be called.

Below is a screenshot of the Markets Gateway Dispatch Lambda screen that includes the three fields.

Market Day: Portfolio: Refresh

COMP >> Date >> Portfolio 1 Last Queried: Date Total Steam: 1010.9 Total Regulation MW: 40

Location	Schedule	Lambda	Gen. MW	Non-Ramp MW	Reg. MW	Deviation MW	Econ. Min.	Econ. Max.	Capacity Max.	Tier 1 MW	Tier 2 MW	DGPSR	Status
Resource 1	PRICE	28.4	316.0	316.0	0.0	0.0	0.0	615.0	615.0	60.0	0.0	1	Committed in DA and run in RT

PJM will contact resource owners separately with the specific ICCP Object ID that owners must add to their systems in order to receive the Tier 1 estimate and DGP information correctly. The resource owner will not need to supply any additional data to PJM. If there are any questions regarding the ICCP link, please direct them to the Real Time Data Management Group at pjmtelemetrysupport@pjm.com. If there are any questions regarding the values resources are receiving or the data itself, please direct them to PJM Member Relations at 610-666-8980 or at custsvc@pjm.com.