PJM Real-Time Energy Market

PJM State & Member Training Dept.
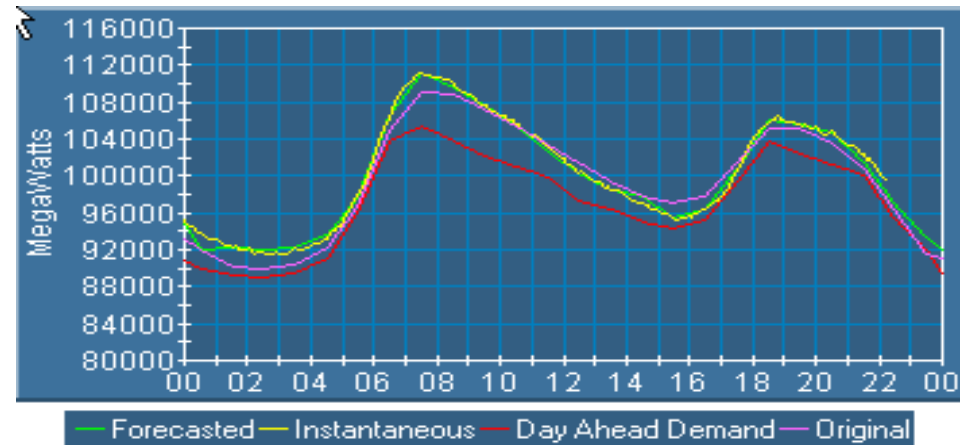
Objectives

Students will be able to:

- Identify the process and procedures for participating in the Real-Time Energy Market

Reliability Analysis

- Second commitment to ensure that there is enough generation to meet the real-time load forecast
- Day Ahead results are posted at 16:00
- Rebid period is 16:00-18:00
- Gives units not picked up in day ahead the opportunity to change their offers/parameters
- Reliability Analysis begins at 18:00
- Committed units will be notified by phone

Reliability Analysis (RA)

- Re-bid period closes at 1800

- For the RA, focus is reliability

- Analysis includes:
  - Updated offers
  - Unit availabilities
  - PJM load forecast
  - DASR Objectives

Timelines

Unit hourly updates may be changed during the operating day for the current hour or future hours

- Any changes that are made during the current hour will be prorated to reflect the change only for the remainder of the hour

- Any changes that are made for future hours in the current operating day will be fully reflected for that hour

- Any changes that are made for future hours in the next operating day (changes must be made prior to noon the previous day) will be considered in the Day Ahead Market

The Unit Hourly Updates page is used to submit real-time changes to unit statuses and MW operating limits

Changes made to the unit data using the Unit Hourly Updates web page supersede all schedule data (Schedule Detail web page), weather curve data (Unit Detail web page), and unit limits (Unit Detail web page)

Commit Status

- Economic - Unit is available and offered into the market for PJM to schedule
- Must Run - Indicates that the generating unit is self-scheduling. Unit MUST be committed. The unit is committed at Economic Min and allowed to move up to Economic Max
  - **Note:** To fix output, make economic min and max the same value
- Emergency - Entire unit is placed in "Max Emergency" category and will not be scheduled unless PJM calls for Max Emergency generation
- Unavailable - Unit is out of service and will not be scheduled
  - **Note:** Must have a corresponding outage ticket in eDART if a capacity resource

Unit Hourly Updates

Tabs: Unit | Schedules | Dispatch Lambda | Market Results | Regulation Market | Synchronized Reserve Market | Nonsynchronized Reserve Market | DA Scheduling Reserve Market | Con Ed | Parameter Limits | Interface Pricing | Opportunity Cost Calculator

Sub-tabs: Unit Hourly Updates | Unit Detail | Energy Ramp Rates | SyncRes Ramp Rates | Weather Forecast | Wind Forecast

Unit Hourly Updates Search

Get Report | Get CSV Report

Portfolio: [ ]   Unit: [ ]   Date: 12/27/2013 (mm/dd/yyyy) | Change Date

Hourly Values   Apply To: 08-23   Apply   Use Unit Defaults

| Defaults | 211.0 | 211.0 | 330.0 | 330.0 | Not Available | No |
| Emergency Min 211.0 | Economic Min 211.0 | Economic Max 330.0 | Emergency Max 330.0 | Commit Status Not Available | Fixed Gen No |

Unit Hourly Updates for   on 12/27/2013

Submit

Hour Ending	Em. Min. Def.	Em. Min. MW	Ec. Min. Def.	Ec. Min. MW	CIR	Ec. Max. Def.	Ec. Max. MW	Em. Max. Def.	Em. Max. MW	Commit Status	Fixed Gen.	Notification Time.
01	211.0	165.0	211.0	165.0	(null)	330.0	330.0	330.0	330.0	Economic	No	(null)
02	211.0	165.0	211.0	165.0	(null)	330.0	330.0	330.0	330.0	Economic	No	(null)
03	211.0	165.0	211.0	165.0	(null)	330.0	330.0	330.0	330.0	Economic	No	(null)
04	211.0											
05	211.0											
06	211.0											
07	211.0											
08	211.0											
09	211.0											
10	211.0											
11	211.0											
12	211.0											
13	211.0											
14	211.0											
15	211.0											
16	211.0	0.0	211.0	0.0	(null)	330.0	0.0	330.0	0.0	Not Available	No	(null)
17	211.0	165.0	211.0	165.0	(null)	330.0	330.0	330.0	330.0	MustRun	No	(null)

Fixed Gen - This field should be set to yes if a generation resource intends to remain "fixed" or otherwise not follow PJM real-time dispatch

Notification Time - This can override the daily scheduled, Hot, Cold, or Intermediate Notification Times
- Can only be changed during real-time operations

Generator/Unit Hourly Updates

Questions?