Markets Gateway Roadmap

As of June 16, 2020
• Added information about increasing energy offer segments from 10 to 20
• Added information about submitting Hourly Differentiated Segmented Ramp Rates for resources in both the Day Ahead and Real Time Markets
• Added the restriction of changing a unit committed as must-run in the Day Ahead Market to Economic later in the day
<table>
<thead>
<tr>
<th>Action Required</th>
<th>Deadline</th>
<th>Who May Be Affected</th>
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<tbody>
<tr>
<td>Dual Fuel Capable/Available validation update – Awareness only</td>
<td>Effective on June 16 12 a.m.</td>
<td>Markets Gateway UI &amp; XML Users</td>
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<tr>
<td>DA must-run to Economic change</td>
<td>Effective on July 28 12 a.m.</td>
<td>Markets Gateway UI &amp; XML Users</td>
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<td>Action Required</td>
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<td>Increase Energy Offer curve segments from 10 to 20 for all resources in DA and RT</td>
<td>Effective on Sep. 8 12 a.m.</td>
<td>Markets Gateway UI &amp; XML Users</td>
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<tr>
<td>Submit Hourly Differentiated Segmented Ramp Rates for resources in both the DA and RT</td>
<td>Awaiting FERC</td>
<td>Markets Gateway UI &amp; XML Users</td>
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### 2020 Markets Gateway Roadmap

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- **Production: June 16**
- **Train: August 25**
- **Production: September 8**
- **Train: July 14**
- **Production: July 28**
- **TBD**
PJM Opportunity Cost Calculator has been retired

- Rather than have PJM and Monitoring Analytics support 2 separate Opportunity Cost Calculators, a vote was taken at the MIC to retire the PJM calculator on June 1, 2020.
- From this date forward, participants will use the Monitoring Analytics Opportunity Cost Calculator.
- Target schedule: Beginning June 1, the Opportunity Cost Calculator will no longer be available in Markets Gateway in the Train or Production environments.
The Offer Verification Enhancement has now been implemented

- To comply with FERC Order 831, PJM implemented a verification process for cost-based incremental energy offers above $1,000/MWh, in early 2018
- The design that was implemented included an opportunity for users to request an exception if their initial offer over $1000/MWh did not pass the automated verification
- Based on stakeholder input, PJM is improving this exception process
- Current process requires users to fill out an Excel template with relevant offer data, proof of fuel purchase and Fuel Cost Policy information then submit this through SharePoint
- The improved process will allow users to enter this information via Markets Gateway
- Target schedule: Spec. Guide/xsd – March 16 (Complete), Train – April 1 (Complete), Markets Gateway User Guide – April 1 (Complete), Production – June 2
Dual Fuel Capability/Availability Validation

- For dual fuel units, there are 2 opportunities in Markets Gateway to specify their status
  - Generator > Unit > Detail – to set the unit as Dual Fuel Capable
  - Generator > Schedules > Restriction Information – to set schedules as Dual Fuel Available

- Validation has always existed such that a unit must be Dual Fuel Capable to set schedules as Dual Fuel Available. An error message is provided if this rule is broken.

- However, it was discovered that if the unit was set as Dual Fuel Capable, and schedules were set as Dual Fuel Available, but then subsequently the Dual Fuel Capable flag was unchecked, there was no validation that reminded the user to make schedules Dual Fuel Unavailable. This validation is now being added and error messages will be provided in both the UI and XML.

- Target schedule: Production – June 16
Changes for Modeling Generation

- PJM plans to provide more flexibility for complex resources (like combined cycles) in their next generation energy market (nGEM).

- Since nGEM will not be available for several years, the Modeling Generation Senior Task Force has requested that PJM develop modeling options which can be implemented in the near-term.

- The near term items planned are:
  - Add additional segments to the Energy Offer Curve beyond the 10 currently available to increase resource configuration modeling capabilities for all resources, in both DA and RT. Plan is to move from 10 to 20 segments:
    • Target schedule: Train – August 28, Production – September 8
  - Provide market participants with the ability to submit Hourly Differentiated Segmented Ramp Rates for resources in both the DA and RT Markets. Hourly updates follow Intraday Offers (IDO) rules:
    • Target schedule: Awaiting FERC approval
PJM has determined that the current Day Ahead Market software allows units that are committed as must-run in the Day ahead Market to subsequently change that status to Economic after the Day Ahead market clears.

Per PJM’s Manual, if the unit was committed as MUST RUN for a specific hour then they cannot make the unit Economic for that hour. If the unit is not committed for an hour then they may update the status.

Generators who have been making this change have been contacted.

PJM will provide the fix for this issue: Train – July 14, Production – July 28.
Product Details
Markets Gateway allows users to submit information and obtain data needed to conduct business in the Day-Ahead, Regulation and Synchronized Reserve Markets.

**Key Product Features**
- View Market Results
- Manage Generation and Load Response Portfolios
- Manage Ancillary Service Data
- Manage Market Offers and Transactions