

# Automating Bid Duration for Economic Demand Response Participating in Energy Markets

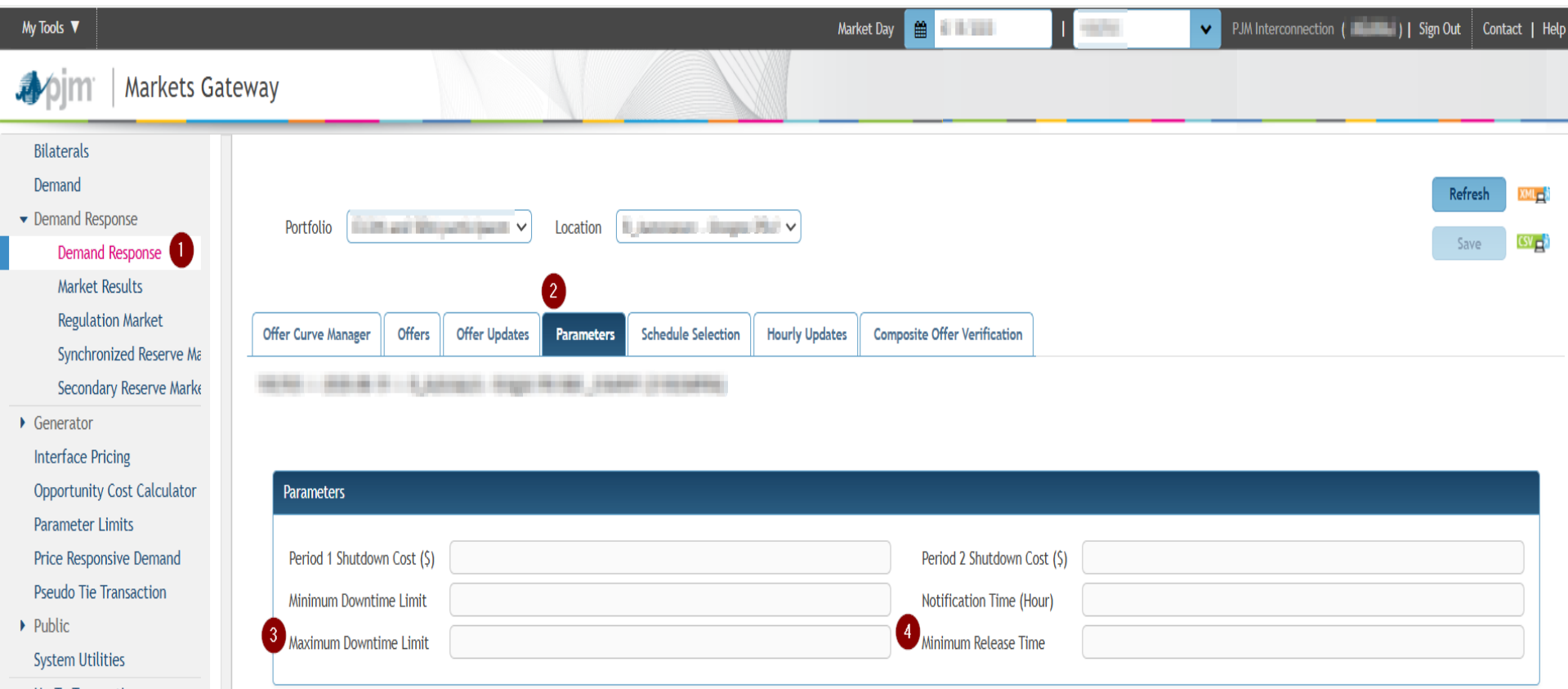
James McAnany, Sr. Analyst  
Distributed Resources Subcommittee  
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- Difficult to align Economic DR load reduction capability with day-ahead energy commitment and/or real-time energy dispatch. Some customers have specific load reduction requirements:
  - Can only reduced load for certain amount of time
  - After DR is released, can only reduce load again after a certain amount of time

- 2 new Economic DR bid parameters for the energy market.
  - Maximum Down Time - the maximum number of continuous hours for which an Economic Load Response Participant's load curtailment offer can be committed in the energy market.
  - Minimum Release Time - the minimum number of continuous hours that must elapse between the end of an Economic Load Response Participant's load curtailment commitment and the start of its next load curtailment commitment in the energy market.
- Economic DR bid parameters do not impact Load Management (Pre-Emergency and Emergency DR) required availability and associated financial penalties.



- Implemented into PJM Energy Market as of September 1, 2025.
  - DA and RT engines/logic modified to accommodate the new parameters.
  - MarketsGateway User Interface and XML updated to accommodate the new parameters.
  - Maximum Down Time -
    - DR resource will be released from energy commitment once its continuous curtailment hours are greater than “Maximum Down Time” even if still economic.
    - Expressed as a number of hours and is treated as undefined and not enforced by market clearing engines if not submitted.
    - Must be greater than or equal to the Minimum Down Time parameter.
  - Minimum Release Time -
    - Expressed as a number of hours and is defaulted to zero if not submitted.
- Note: Both new parameters are optional inputs

1. In the Demand Response Subdirectory,
2. Select the Parameters tab, and note:
3. Maximum Downtime Limit (number of hours), and
4. Minimum Release Time (number of hours)



The screenshot shows the PJM Markets Gateway interface. The top navigation bar includes "My Tools", "Market Day", and "PJM Interconnection". The left sidebar lists various market categories, with "Demand Response" highlighted and marked with a red circle 1. The main content area shows the "Parameters" tab selected, marked with a red circle 2. The "Parameters" section contains several input fields, with "Maximum Downtime Limit" marked with a red circle 3 and "Minimum Release Time" marked with a red circle 4.

Portfolio:  Location:

Refresh  Save 

Offer Curve Manager Offers Offer Updates **Parameters** Schedule Selection Hourly Updates Composite Offer Verification

**Parameters**

Period 1 Shutdown Cost (\$)	<input type="text"/>	Period 2 Shutdown Cost (\$)	<input type="text"/>
Minimum Downtime Limit	<input type="text"/>	Notification Time (Hour)	<input type="text"/>
<b>3</b> Maximum Downtime Limit	<input type="text"/>	<b>4</b> Minimum Release Time	<input type="text"/>

- We can use the existing 'DSRDetail' XML to submit or edit value for the two new parameters, by adding the new elements in the XML body.

```

▼<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
  ▼<Body>
    ▼<SubmitRequest xmlns="http://emkt.pjm.com/emkt/xml">
      ▼<DSRDetail day="YYYY-mm-dd" location="XXXXXXXXXX">
        <MinimumDownTime>XX</MinimumDownTime>
        <NotificationTime>XX</NotificationTime>
        <MaximumDownTime>XX</MaximumDownTime>
        <MinimumReleaseTime>XX</MinimumReleaseTime>
      </DSRDetail>
    </SubmitRequest>
  </Body>
</Envelope>

```

## Contact Information

### Facilitator:

Ilyana Dropkin,  
[ilyana.dropkin@pjm.com](mailto:ilyana.dropkin@pjm.com)

### Secretary:

David Hauske,  
[david.hauske@pjm.com](mailto:david.hauske@pjm.com)

### SME/Presenter:

James McAnany  
[james.mcanany@pjm.com](mailto:james.mcanany@pjm.com)

**Automating Bid Duration for Economic Demand  
Response Participating in Energy**



### Member Hotline

(610) 666 – 8980

(866) 400 – 8980

[custsvc@pjm.com](mailto:custsvc@pjm.com)

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