

Automating bid duration for economic demand response participating in energy markets

Issue Source

Voltus, Inc. is bringing forth this issue for consideration. Voltus is a provider of economic demand response in PJM, including in the energy market. Voltus could bring more economic demand response to the market if demand response offers could reflect the operational parameters of demand response assets, including limitations in the duration of curtailment and a need for downtime between curtailment events. Voltus also offers economic demand response into the energy market in MISO, and has observed that in that market demand response offer parameters include minimum and maximum dispatch duration, maximum dispatch count per day, minimum time between dispatches, and minimum notification time (i.e. minutes of notice before a curtailment begins). Generators' market offers reflect their operational capabilities, and as such demand response assets should also be able to reflect their capabilities in market offers.

Issue Content

The issue addresses a specific technical limitation, wherein demand response assets cannot set key operational parameters as part of market offers to PJM.

Key Work Activities and Scope

1. The assigned stakeholder group will need to determine which offer parameters should be available to demand response in the energy market.
2. The stakeholder group will need to determine the relative level of effort to add those parameters and have them properly considered by PJM's market clearing algorithm.
3. ~~The stakeholder group will need to update the PJM tariff and market manuals to reference the new parameters.~~

Expected Deliverables

- 1. ~~PJM Manual 11 edits~~
- 2. ~~Tariff edits~~
- 3.1. Markets Gateway User Guide edits
- 2. Identify Updates to offer parameters and clearing algorithm

Corresponding PJM Tariff revisions will be developed by the appropriate committee once a solution is approved by the MIC. Conforming Manual revisions will be developed by the appropriate committee to correspond with the FERC approved Tariff revisions.

Decision-Making Method

~~Tier 1 (Voltus is open to debate about the exact set of parameters, and to a Tier 2 approach)~~

CBIR Lite

Stakeholder Group Assignment

DISRS

Expected Duration of Work Timeline

Less than 6 months

Start Date	Priority Level	Timing	Meeting Frequency
4/17/2023	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	<input checked="" type="checkbox"/> Immediate <input type="checkbox"/> Near Term <input type="checkbox"/> Far Term	<input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Quarterly

Charter

(check one box)

<input type="checkbox"/>	This document will serve as the Charter for a new group created by its approval.
<input checked="" type="checkbox"/>	This work will be handled in an existing group with its own Charter (and applicable amendments).

More detail available in M34; Section 6