

Inverter-Based Technology Providing Ancillary Services – Tariff and Manual Revisions

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Overview

- **Background**
- **Tariff Revisions**
- **Manual Updates/Revisions**
- **Next Steps**

Background

Background

- The NYISO requested clarification from the NPCC as to whether inverter technology-based energy storage resources can provide synchronized reserve.
- The NPCC answered that “[...] a storage resource with inverter technology complies with the original intent of the synchronized reserve requirement and therefore shall qualify towards a BA’s complement of synchronized reserves.”
- On January 17, 2017 the NYISO presented to MIWG proposed changes to the Ancillary Services Manual to reflect the clarification received from the NPCC.

Background (Cont.)

- Stakeholders provided feedback on the wording of the proposed changes.
- The NYISO has captured the feedback in the updated proposal that is being presented today.
- Similarly, the NYISO is proposing Tariff revisions to fully capture the NPCC clarification received.

Background (Cont.)

- The version of the Ancillary Services manual posted with the meeting material also contains other proposed revisions related to the Transmission Constraint Pricing Project in Section 6.8.2. Those additional revisions are not being reviewed as part of this presentation and will instead be reviewed as part of a separate presentation.
 - Please refer to the presentation entitled “Transmission Constraint Pricing Manual Changes” posted with the meeting materials for additional details.

Updates/Revisions

Tariff Revisions

- **Operating Reserves** – Updated definition in OATT Sec. 1.15 and MST Sec. 2.15 to allow Generators and Demand Side Resources that utilize inverter-based energy storage technology, and that are otherwise eligible, to provide Spinning Reserves.
- **MST Section 15.4.1.2.1 - Spinning Reserve (Section 15.4 Rate Schedule 4 – Payments for Supplying Operating Reserves)**: Updated to explicitly permit Suppliers utilizing inverter-based energy storage technology to provide Spinning Reserve.

Ancillary Services Manual - Updates

- **Sections 6.1 and 6.2.2** – Updated to permit Generators and Demand Side Resources utilizing inverter-based energy storage technology to provide Spinning Reserve.

Ancillary Services Manual - Revisions

- **Global** – Ministerial housekeeping updates of acronyms and formatting.
- **Section 3.6.1** – Corrected the description of metering data flow process, which is not transmitted “from” the NYISO, but “to” the NYISO.
- **Section 4.2** – Removed requirement for Regulation providers’ bidding parameters that was already included in the same section.

Ancillary Services Manual – Revisions (Cont.)

- **Section 6.1** – Removed the description of resources providing Total 30-Minute Reserve, as it had been already included for the corresponding sub-categories.
- **Section 6.2.3.4** – Clarified existing provision that DSASP resources using a Local Generator cannot provide Spinning Reserves and Regulation Service simultaneously.

Next Steps

- The NYISO intends to bring the proposed changes to the Business Issues Committee for approval in September/October 2017.
- Present the proposed changes to the System Operations Advisory Sub-Committee in September 2017.

Feedback

- The NYISO seeks feedback on the materials presented today
- Email additional feedback to: Daniel F. Noriega
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Questions?

We are here to help. Let us know if we can add anything.

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- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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