

# Incremental Manual Updates for the Co-located Storage Resources (CSR) Participation Model

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# Agenda

- **Background**
- **Proposed Incremental ICAP Manual Updates**
- **Proposed Incremental Energy Market Manual Updates**
- **Next Steps**

# Background

# ICAP Manual Updates Background

- **At the 09/20/2021 ICAPWG/MIWG, the NYISO presented draft changes to the ICAP Manual to incorporate the CSR participation model**
  - 09/20/2021 Presentation
- **The NYISO subsequently received stakeholder feedback, which has driven some incremental clarifying revisions**
  - Incremental revisions are highlighted in yellow

# Energy Market Manual Updates

## Background

- At the 10/05/2021 MIWG, the NYISO discussed with stakeholders incremental Tariff revisions that were necessary to accommodate scenarios when other constraints in the NYISO optimization should be prioritized above the CSR injection Scheduling Limit and the CSR withdrawal Scheduling Limit constraints
  - [10/05/21 Presentation](#)
- Today's presentation proposes the corresponding manual changes
  - Incremental changes from previous CSR revisions are highlighted in yellow

# Proposed Incremental ICAP Manual Updates

# Incremental CSR ICAP Manual Updates

- **Attachment J, Section 3.8 (pages III and JJJ)**
  - Introduced the “Average Capacity Factor” variable to more accurately describe the calculation of the average production factor for an IPR in a CSR
  - Additional clarifications for variable names

# Proposed Incremental Energy Market Manual Updates



# Incremental CSR Energy Market Manual Updates

- **The NYISO added clarifying language in the following Manual Sections pertaining to circumstances under which the NYISO may relax a CSR Scheduling Limit when it is in direct conflict with other limits, such as a Generator-specific response rate, upper operating limit or lower operating limit**
  - Ancillary Services Manual, Sections 6.3.1 and 6.4.1 (pages 85 and 87)
  - Day-Ahead Scheduling Manual, Section 4.3.6 (page 33)
  - Transmission & Dispatch Operations Manual, Section 6.1.1 (page 58)

# Example–Proposed Revisions to Section 6.1.1 of the T&D Manual

“The sum of (a) the Energy injection schedule(s) minus the Energy withdrawal schedule, (b) the Operating Reserve schedule, and (c) the Regulation Capacity schedule(s) for a set of CSR Generators ~~shall~~ will ordinarily be less than or equal to the applicable CSR injection Scheduling Limit. The sum of (a) the Energy withdrawal schedule minus the Energy injection schedule(s), and (b) the Regulation Capacity schedule(s) for a set of CSR Generators ~~shall~~ will ordinarily be less than or equal to the applicable CSR withdrawal Scheduling Limit.

The NYISO may relax a CSR Scheduling Limit when it is in direct conflict with other limits. Conflicting limits are expected to be a response rate, upper storage limit (USL), lower storage limit (LSL), upper operating limit or lower operating limit of a CSR Generator. In all cases, the NYISO will relax the CSR Scheduling Limit by the minimum amount and for the shortest time period necessary to resolve the conflict.”

# Next Steps

# Next Steps

- **BIC: November 9, 2021**
  - Seek approval of the proposed manual revisions

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