

# Installed Capacity (ICAP) Manual Updates for the Co-located Storage Resources (CSR) Participation Model

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September 20, 2021

# Agenda

- **Co-located Storage Resources (CSR) participation model background**
- **Proposed ICAP Manual Updates**
- **Next Steps**

# CSR Participation Model Background

# Background

- **In 2020, NYISO developed modifications to the market rules that are necessary to accommodate Co-located Storage Resources (CSR)<sup>1</sup>**
  - A CSR consists of a wind or solar Intermittent Power Resource (IPR) and an Energy Storage resource that are co-located behind a single Point of Injection and share a set of common Injection/Withdrawal limits.
  - The two generators that constitute the CSR will participate in the NYISO markets as distinct generators. The market software will take into account the common Injection/Withdrawal limits when determining energy and ancillary services schedules for these generators.
- **The NYISO plans to deploy the CSR participation model in Q4 2021**
- **This presentation will review the updates to the ICAP manual that are necessary for the implementation of CSR participation model**

1. Comprehensive CSR Market Design Proposal:  
[https://www.nyiso.com/documents/20142/16364783/Hybrid%20Storage\\_CSR%20proposal%20overview%20ICAPWG%20MIWG%2010.27.20%20final.pdf](https://www.nyiso.com/documents/20142/16364783/Hybrid%20Storage_CSR%20proposal%20overview%20ICAPWG%20MIWG%2010.27.20%20final.pdf)

2. Proposed CSR Energy Market Manual Changes:  
[https://www.nyiso.com/documents/20142/23492128/CSR%20Manuals%20Updates\\_draft%20final\\_ICAPWG.pdf/1819d8dc-f976-a927-37c1-7f75c3225573](https://www.nyiso.com/documents/20142/23492128/CSR%20Manuals%20Updates_draft%20final_ICAPWG.pdf/1819d8dc-f976-a927-37c1-7f75c3225573)

# Proposed ICAP Manual Updates

# CSR ICAP Manual Updates

- **Section 4.1.3**
  - New section to reference that resources in a CSR must fulfill all obligations applicable to their respective resource types
- **Section 4.2.2.1**
  - Discussion that each resource in a CSR must fulfill all applicable DMNC requirements
- **Section 4.4.9**
  - New section to discuss data reporting requirements for resources in a CSR
- **Section 4.5**
  - Discussion pertaining to the derating factor dispute process, which is applicable to all resource types in addition to resources in a CSR
  - High-level discussion of UCAP calculation methodology for Generators in a CSR
- **Section 4.8.7**
  - New section referencing the requirement that CSR Generators submit a CSR injection Scheduling Limit and CSR withdrawal Scheduling Limit for each hour of the DAM

# CSR ICAP Manual Attachment J Updates

## ■ Section 3.8

- Additional section detailing the UCAP calculation procedure for Generators in a CSR
  - Methodologies for each Generator are based on the existing method for each respective resource type, with revisions to incorporate the shared injection equipment

# Next Steps

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- **Return to future working groups to discuss any substantive incremental revisions**
- **BIC: October 13, 2021**
  - Seek approval of the proposed manual revisions

# Questions?

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- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

