

# Modeling Improvements for Capacity Accreditation

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**ICAPWG**

March 20, 2024

# Agenda

- **Incremental Tariff Revisions**
- **Data Submittals Overview**
  - 2025/2026 Capability Year Data Submittals
- **Next Steps**

# Proposed Tariff Revisions

# Proposed Tariff Revisions: Gas Constraints

- Included with today's material is draft tariff language with incremental changes from the 3/4 ICAPWG
  - Incremental changes have been made to MST 5.12 and MST 5.14 and are highlighted in yellow
    - Changes to MST 5.12 include:
      - Grammar edit to 5.12.7.2.1
      - Clarifying edits to 5.12.15 including the removal of “resubmission” to clarify that MPs having submitted materials prior to Aug. 1 of the subject Capability Year with no changes only need to confirm with the NYISO that no changes have occurred rather than resubmitting all materials
        - » Additional details on the confirmation process will be included in the ICAP Manual
      - Changes to 5.12.6.2.2 to reflect that ICAP Suppliers, under some circumstances (partial firm election or aggregations), may receive a CAF comprising multiple CAFs from more corresponding CARCs
    - Changes to MST 5.14 include:
      - Minor clarifying edits to 5.14.2.3.5

# Data Submittals

# Data Submittals

- **For a subject Capability Year, Installed Capacity Suppliers may submit the relevant data for preliminary ISO review, in accordance with ISO Procedures, starting January 1 of the calendar year preceding the subject Capability Year (*e.g.*, January 1, 2025 for the 2026-2027 Capability Year)**
  - The NYISO will undertake reasonable efforts to review the submitted data and notify the Installed Capacity Supplier in a timely manner if the documentation provided is not sufficient to support the elected level of firm capability, in accordance with ISO Procedures.
    - Communication regarding the data submission will be from NYISO MMA
- **Elections are due by August 1 of the calendar year preceding a subject Capability Year**
  - Elections are to be submitted to [participation@nyiso.com](mailto:participation@nyiso.com)
- **Data submitted prior to August 1 of the subject Capability Year must be confirmed after August 1 of the subject Capability Year to meet the December 1 data submission requirement**

# 2025/2026 Capability Year Data Submittals

# 2025/2026 Capability Year Data Submittals

- **Installed Capacity Suppliers may submit the relevant data to meet the requirements at the relevant MW level, in accordance with ISO Procedures for the 2025/2026 Capability Year, starting today, March 20, 2024 for preliminary ISO review**
  - Submit all data to [accreditation@nyiso.com](mailto:accreditation@nyiso.com)
- **Elections are due by Aug. 1 2024 for the 2025/2026 Capability Year**
  - Submit elections to [participation@nyiso.com](mailto:participation@nyiso.com)
- **Data submitted for preliminary ISO review prior to August 1, 2025 must be confirmed after August 1, 2025 to meet the December 1, 2025 data submission requirement for the 2025/2026 Capability Year**



# 2025/2026 Capability Year Data Submittals

- The NYISO asks MPs to submit a coversheet with their data submission including the following items:
  - PTID
  - Unit Name
  - Market Participant
  - Nameplate
  - Unit Type
  - Fuel Type
  - Subject Capability Year
  - Date of Submission
  - Summary of Submission
  - Main Contact (name)
  - Main Contact (email)
  - Main Contact (phone)
  - Total Firm Election (MW)
    - Primary-Fuel Firm Election (MW)
    - Secondary-Fuel Firm Election (MW)
- Materials should be submitted to [accreditation@nyiso.com](mailto:accreditation@nyiso.com)

# Next Steps

# Next Steps

- **March 27 MC Meeting**
- **Q2 2024: Board Review and FERC filing**
- **For any questions or feedback please email [ntubbs@nyiso.com](mailto:ntubbs@nyiso.com)**

# Previous Discussions

# Previous Discussions on Modeling Improvements for Capacity Accreditation

Date	Working Group	Discussion Points and Links to Materials
January 26, 2023	ICAPWG	Modeling Improvements for Capacity Accreditation: Project Kick Off: <a href="https://www.nyiso.com/documents/20142/35880057/2023-01-26%20ICAPWG%20Modeling%20Improvements%20-%20Kick%20Off.pdf/c7ac6b6e-c90b-54b4-832d-ec6ecfc8f7ff">https://www.nyiso.com/documents/20142/35880057/2023-01-26%20ICAPWG%20Modeling%20Improvements%20-%20Kick%20Off.pdf/c7ac6b6e-c90b-54b4-832d-ec6ecfc8f7ff</a>
February 28, 2023	ICAPWG	Correlated Derates - Overview: <a href="https://www.nyiso.com/documents/20142/36499713/Correlated_Derates_MIWG_022823_FINAL.pdf/35eaab46-740e-aed0-9e2d-2207c06a0659">https://www.nyiso.com/documents/20142/36499713/Correlated_Derates_MIWG_022823_FINAL.pdf/35eaab46-740e-aed0-9e2d-2207c06a0659</a> Natural Gas Constraints - Overview: <a href="https://www.nyiso.com/documents/20142/36499713/Gas%20Constraints%2002_28_2023%20ICAPWG_Final.pdf/e258d867-12f9-8453-c93b-49bc94b8e803">https://www.nyiso.com/documents/20142/36499713/Gas%20Constraints%2002_28_2023%20ICAPWG_Final.pdf/e258d867-12f9-8453-c93b-49bc94b8e803</a> SCR Modeling - Overview: <a href="https://www.nyiso.com/documents/20142/36499713/2023-02-28%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/c1a52495-bc30-3e7c-f5c1-61c38f30be4">https://www.nyiso.com/documents/20142/36499713/2023-02-28%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/c1a52495-bc30-3e7c-f5c1-61c38f30be4</a>
April 27, 2023	ICAPWG	Natural Gas Constraints - Gas Availability Estimates and Classification: <a href="https://www.nyiso.com/documents/20142/37254128/Natural%20Gas%20Constraints%202023_04_27_Final.pdf/0821aba8-bdcd-b1ce-96f3-2d8a740e1356">https://www.nyiso.com/documents/20142/37254128/Natural%20Gas%20Constraints%202023_04_27_Final.pdf/0821aba8-bdcd-b1ce-96f3-2d8a740e1356</a> SCR Modeling - Exploratory Testing Methodology for Existing SCRs: <a href="https://www.nyiso.com/documents/20142/37254128/2023-04%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/30382824-7468-24d2-e567-56c770d6a185">https://www.nyiso.com/documents/20142/37254128/2023-04%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/30382824-7468-24d2-e567-56c770d6a185</a> Start up Notifications - Project Overview: <a href="https://www.nyiso.com/documents/20142/37254128/Start-up%20notification%20time%20-%20ICAPWG%204.27.2023%20v0.2%20clean.pdf/b44eb773-6f7d-e895-e202-a12f2fb6e24e">https://www.nyiso.com/documents/20142/37254128/Start-up%20notification%20time%20-%20ICAPWG%204.27.2023%20v0.2%20clean.pdf/b44eb773-6f7d-e895-e202-a12f2fb6e24e</a>
May 8, 2023	ICAPWG	Correlated Derates - Ambient Adjustments and Emergency Capacity: <a href="https://www.nyiso.com/documents/20142/37431277/5%20Correlated_Derates_ICAPWG_050823.pdf/a1e9a0f4-d922-503d-06d0-682b49c46c4c">https://www.nyiso.com/documents/20142/37431277/5%20Correlated_Derates_ICAPWG_050823.pdf/a1e9a0f4-d922-503d-06d0-682b49c46c4c</a>

# Previous Discussions on Modeling Improvements for Capacity Accreditation

Date	Working Group	Discussion Points and Links to Materials
June 1, 2023	ICAPWG	Natural Gas Constraints – Potential methods for quantifying firm capacity, CARC designation, and fuel election timelines: <a href="https://www.nyiso.com/documents/20142/37883690/Natural%20Gas%20Constraints%2006_01_2023_ICAPWG_Final.pdf/d479ea64-a0d0-86d1-388a-f93d01ff1e10">https://www.nyiso.com/documents/20142/37883690/Natural%20Gas%20Constraints%2006_01_2023_ICAPWG_Final.pdf/d479ea64-a0d0-86d1-388a-f93d01ff1e10</a>
June 7, 2023	ICAPWG	SCR Modeling – Exploratory Testing Methodology (Continued): <a href="https://www.nyiso.com/documents/20142/38023757/2023-06-07%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/250f8f1d-9dfe-5756-640b-c1e31f3a6328">https://www.nyiso.com/documents/20142/38023757/2023-06-07%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/250f8f1d-9dfe-5756-640b-c1e31f3a6328</a>
June 27, 2023	ICAPWG	Natural Gas Constraints – Addressing Stakeholder feedback and discussion on simpler framework for classifying units: <a href="https://www.nyiso.com/documents/20142/38423065/2%20Natural%20Gas%20Constraints_06_23_2023_ICAPWG_Final.pdf/177ad95e-1fa3-5c57-a626-d06182b55c9b">https://www.nyiso.com/documents/20142/38423065/2%20Natural%20Gas%20Constraints_06_23_2023_ICAPWG_Final.pdf/177ad95e-1fa3-5c57-a626-d06182b55c9b</a>
July 11, 2023	ICAPWG	SCR Modeling – Exploratory Testing Methodology Initial Results: <a href="https://www.nyiso.com/documents/20142/38699263/2023-07-11%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling%20v2%20-%20clean.pdf/2f27473b-2292-31d4-ecb7-5d30d6b860f0">https://www.nyiso.com/documents/20142/38699263/2023-07-11%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling%20v2%20-%20clean.pdf/2f27473b-2292-31d4-ecb7-5d30d6b860f0</a>
July 27, 2023	ICAPWG	Correlated Derates - Ambient Adjustments and Emergency Capacity: <a href="https://www.nyiso.com/documents/20142/39044934/Correlated_Derates_ICAPWG_072723_final.pdf/0f80f8f2-8100-b8f7-0c65-0098242634e1">https://www.nyiso.com/documents/20142/39044934/Correlated_Derates_ICAPWG_072723_final.pdf/0f80f8f2-8100-b8f7-0c65-0098242634e1</a> Start-up Time – Long Start-up Time and Considerations: <a href="https://www.nyiso.com/documents/20142/39044934/Startup%20time%20-%20ICAPWG%207.27.2023_v2.pdf/bbf6fa0d-b45e-6b7f-1697-2c002442b1de">https://www.nyiso.com/documents/20142/39044934/Startup%20time%20-%20ICAPWG%207.27.2023_v2.pdf/bbf6fa0d-b45e-6b7f-1697-2c002442b1de</a>
August 9, 2023	ICAPWG	Gas Constraints – Classification Proposal, Requirements for Firm Units, and Data Submittal Timeline: <a href="https://www.nyiso.com/documents/20142/39257338/Natural%20Gas%20Constraints_08_09_2023%20ICAPWgv4%20(002).pdf/de6053e0-030d-5520-ed59-18f2225f0f92">https://www.nyiso.com/documents/20142/39257338/Natural%20Gas%20Constraints_08_09_2023%20ICAPWgv4%20(002).pdf/de6053e0-030d-5520-ed59-18f2225f0f92</a>

# Previous Discussions on Modeling Improvements for Capacity Accreditation

Date	Working Group	Discussion Points and Links to Materials
September 5, 2023	ICAPWG	Correlated Derates – Ambient Adjustments: <a href="https://www.nyiso.com/documents/20142/39768278/5%20Correlated_Derates_ICAPWG_090523_final.pdf/5aa71990-e873-166b-a520-e8e6c44b42e1">https://www.nyiso.com/documents/20142/39768278/5%20Correlated_Derates_ICAPWG_090523_final.pdf/5aa71990-e873-166b-a520-e8e6c44b42e1</a>
September 18, 2023	ICAPWG	Startup Notification - Recommendation and Draft Tariff Revisions: <a href="https://www.nyiso.com/documents/20142/40044890/7%20Startup%20Time%20Proposed%20Capacity%20Tariff%20Revision%20-%20ICAPWG%2009-18.pdf/9d6e8c5e-b7cd-384c-b713-be93507912ed">https://www.nyiso.com/documents/20142/40044890/7%20Startup%20Time%20Proposed%20Capacity%20Tariff%20Revision%20-%20ICAPWG%2009-18.pdf/9d6e8c5e-b7cd-384c-b713-be93507912ed</a>
September 20, 2023	ICAPWG	Gas Constraints – Updated Requirement, Data Verification Timeline and Shortfall Penalty: <a href="https://www.nyiso.com/documents/20142/40085480/Natural%20Gas%20Constraints_9_20_2023_v4.pdf/8c76a250-d1e0-d30a-2c24-115f10268c65">https://www.nyiso.com/documents/20142/40085480/Natural%20Gas%20Constraints_9_20_2023_v4.pdf/8c76a250-d1e0-d30a-2c24-115f10268c65</a>
October 3, 2023	ICAPWG	SCR Modeling – Project Update: <a href="https://www.nyiso.com/documents/20142/40342797/2023-10-03%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/e5b6faa3-7865-c92a-dbf2-39e1ea6c65e8">https://www.nyiso.com/documents/20142/40342797/2023-10-03%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/e5b6faa3-7865-c92a-dbf2-39e1ea6c65e8</a>
October 10, 2023	ICAPWG	Gas Constraints – Response to Stakeholder Feedback, Liquid Receipt Point Guidance, Additive Arrangements: <a href="https://www.nyiso.com/documents/20142/40481418/2%20Natural%20Gas%20Constraints_10_10_v3.pdf/7f39851d-f477-6a12-d7d2-52f52af87fcb">https://www.nyiso.com/documents/20142/40481418/2%20Natural%20Gas%20Constraints_10_10_v3.pdf/7f39851d-f477-6a12-d7d2-52f52af87fcb</a>  Correlated Derates – Ambient Adjustment Procedures and CLR Tariff: <a href="https://www.nyiso.com/documents/20142/40481418/3%20Correlated_Derates_ICAPWG_101023_final.pdf/76326e11-e97f-cb93-2ca4-902d11365bda">https://www.nyiso.com/documents/20142/40481418/3%20Correlated_Derates_ICAPWG_101023_final.pdf/76326e11-e97f-cb93-2ca4-902d11365bda</a>
October 19, 2023	ICAPWG	Startup Notification – Proposed Capacity Tariff Revisions: <a href="https://www.nyiso.com/documents/20142/40696384/Startup%20Time%20Capacity%20Tariff%20Discussion-%20ICAPWG%2010-19.pdf/247ea46c-9bc3-60c5-9363-69d787bb78c9">https://www.nyiso.com/documents/20142/40696384/Startup%20Time%20Capacity%20Tariff%20Discussion-%20ICAPWG%2010-19.pdf/247ea46c-9bc3-60c5-9363-69d787bb78c9</a>

# Previous Discussions on Modeling Improvements for Capacity Accreditation

Date	Working Group	Discussion Points and Links to Materials
October 26, 2023	ICAPWG	SCR Modeling– Enhanced SCR Modeling Results: <a href="https://www.nyiso.com/documents/20142/40834869/2023-10-26%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/7d81b04c-e08a-0298-aaa6-cf99d92aa88c">https://www.nyiso.com/documents/20142/40834869/2023-10-26%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/7d81b04c-e08a-0298-aaa6-cf99d92aa88c</a>
November 8, 2023	ICAPWG	Gas Constraints – Response to Stakeholder Feedback and Market Design Summary + Tariff: <a href="https://www.nyiso.com/documents/20142/41049783/Natural%20Gas%20Constraints_11_8_w_Tariff_v5.pdf/8badbfff-06cd-3db3-46f9-c7de5107e993">https://www.nyiso.com/documents/20142/41049783/Natural%20Gas%20Constraints_11_8_w_Tariff_v5.pdf/8badbfff-06cd-3db3-46f9-c7de5107e993</a>
November 17, 2023	ICAPWG	Gas Constraints – Response to Stakeholder Feedback: <a href="https://www.nyiso.com/documents/20142/41273741/Natural%20Gas%20Constraints_11_17_ICAPWG_v3.pdf/9e3b921a-0161-3a21-4874-21811077efb5">https://www.nyiso.com/documents/20142/41273741/Natural%20Gas%20Constraints_11_17_ICAPWG_v3.pdf/9e3b921a-0161-3a21-4874-21811077efb5</a>
November 27, 2023	ICAPWG	Modeling Improvements for Capacity Accreditation – Summary: <a href="https://www.nyiso.com/documents/20142/41393553/2023-11-27%20ICAPWG%20-%20Modeling%20Improvements%20Summary.pdf/9c383992-bebf-6a4a-e660-4cb96f842ef2">https://www.nyiso.com/documents/20142/41393553/2023-11-27%20ICAPWG%20-%20Modeling%20Improvements%20Summary.pdf/9c383992-bebf-6a4a-e660-4cb96f842ef2</a>
December 4, 2023	ICAPWG	Modeling Improvements for Capacity Accreditation – Tariff Review: <a href="https://www.nyiso.com/documents/20142/41570800/2023-12-04%20ICAPWG%20-%20Modeling%20Improvements_v3.pdf/7d334598-46c3-23d8-3217-4bf3eeacadce">https://www.nyiso.com/documents/20142/41570800/2023-12-04%20ICAPWG%20-%20Modeling%20Improvements_v3.pdf/7d334598-46c3-23d8-3217-4bf3eeacadce</a>
December 13, 2023	BIC	BIC Presentation: <a href="https://www.nyiso.com/documents/20142/41671891/06%20Modeling%20Improvements%20for%20Capacity%20Accreditation.pdf/470bc7a0-277c-dfac-62e6-9cd439f9c813">https://www.nyiso.com/documents/20142/41671891/06%20Modeling%20Improvements%20for%20Capacity%20Accreditation.pdf/470bc7a0-277c-dfac-62e6-9cd439f9c813</a> BIC Motion: <a href="https://www.nyiso.com/documents/20142/41671891/06%20Modeling%20Improvements%20for%20Capacity%20Accreditation%20Motion.pdf/f6afdb1e-f59a-584b-8280-b9b1cab39151">https://www.nyiso.com/documents/20142/41671891/06%20Modeling%20Improvements%20for%20Capacity%20Accreditation%20Motion.pdf/f6afdb1e-f59a-584b-8280-b9b1cab39151</a>



# Our Mission & Vision



## Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



## Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation