

Modeling Improvements for Capacity Accreditation: Firm Fuel

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ICAPWG

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Agenda

- **Background**
- **Incremental Updates to Proposed Tariff Revisions**
- **Next Steps**

Background

Background

- **On July 23, 2024, FERC accepted the tariff revisions for the Modeling Improvements for Capacity Accreditation project**
 - As part of its acceptance, FERC directed the NYISO to submit a compliance filing that delayed the implementation of the firm fuel election process to the 2026-2027 Capability Year
 - On October 24, 2024, FERC accepted the NYISO compliance filing
- **Throughout 2024 and early 2025, the NYISO has worked with stakeholders to develop changes to the approved tariff related to the firm fuel election process and requirements**

Incremental Updates to Proposed Tariff Revisions

Incremental Updates

- **The proposed tariff revisions accompanying today's presentation include updates reflecting stakeholder feedback received since the March 18, 2025, BIC Meeting**
 - Revisions made since the BIC are highlighted in yellow for ease of review
- **Incremental updates have been made to MST Sections 5.12.12.3 and 5.12.15 and do not materially modify the concepts approved at the BIC**
 - The edits clarify the concepts that were approved by the BIC
- **Additional ministerial edits were made to MST Sections 5.12.1 – 5.12.2, 5.12.4 – 5.12.9, 5.12.11 – 5.12.14**

Next Steps

Next Steps

- April 17 Special MC Meeting
- May 2025 Board Review and subsequent FERC filing
- For any questions or feedback, please email ntubbs@nyiso.com

Appendix

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: https://www.nyiso.com/documents/20142/35880057/2023-01-26%20ICAPWG%20Modeling%20Improvements%20-%20Kick%20Off.pdf/c7ac6b6e-c90b-54b4-832d-ec6ecfc8f7ff
February 28, 2023	ICAPWG	Correlated Derates - Overview: https://www.nyiso.com/documents/20142/36499713/Correlated_Derates_MIWG_022823_FINAL.pdf/35eaab46-740e-aed0-9e2d-2207c06a0659 Natural Gas Constraints - Overview: https://www.nyiso.com/documents/20142/36499713/Gas%20Constraints%2002_28_2023%20ICAPWG_Final.pdf/e258d867-12f9-8453-c93b-49bc94b8e803 SCR Modeling - Overview: https://www.nyiso.com/documents/20142/36499713/2023-02-28%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/c1a52495-bc30-3e7c-f5c1-61c38f30fbe4
April 27, 2023	ICAPWG	Natural Gas Constraints - Gas Availability Estimates and Classification: https://www.nyiso.com/documents/20142/37254128/Natural%20Gas%20Constraints%202023_04_27_Final.pdf/0821aba8-bdcd-b1ce-96f3-2d8a740e1356 SCR Modeling - Exploratory Testing Methodology for Existing SCRs: https://www.nyiso.com/documents/20142/37254128/2023-04%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/30382824-7468-24d2-e567-56c770d6a185 Start up Notifications - Project Overview: 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
May 8, 2023	ICAPWG	Correlated Derates - Ambient Adjustments and Emergency Capacity: https://www.nyiso.com/documents/20142/37431277/5%20Correlated_Derates_ICAPWG_050823.pdf/a1e9a0f4-d922-503d-06d0-682b49c46c4c

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: https://www.nyiso.com/documents/20142/37883690/Natural%20Gas%20Constraints%2006_01_2023_ICAPWG_Final.pdf/d479ea64-a0d0-86d1-388a-f93d01ff1e10
June 7, 2023	ICAPWG	SCR Modeling – Exploratory Testing Methodology (Continued): https://www.nyiso.com/documents/20142/38023757/2023-06-07%20ICAPWG%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/250f8f1d-9dfe-5756-640b-c1e31f3a6328
June 27, 2023	ICAPWG	Natural Gas Constraints – Addressing Stakeholder feedback and discussion on simpler framework for classifying units: https://www.nyiso.com/documents/20142/38423065/2%20Natural%20Gas%20Constraints_06_23_2023_ICAPWG_Final.pdf/177ad95e-1fa3-5c57-a626-d06182b55c9b
July 11, 2023	ICAPWG	SCR Modeling – Exploratory Testing Methodology Initial Results: 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
July 27, 2023	ICAPWG	Correlated Derates - Ambient Adjustments and Emergency Capacity: https://www.nyiso.com/documents/20142/39044934/Correlated_Derates_ICAPWG_072723_final.pdf/0f80f8f2-8100-b8f7-0c65-0098242634e1 Start-up Time – Long Start-up Time and Considerations: https://www.nyiso.com/documents/20142/39044934/Startup%20time%20-%20ICAPWG%207.27.2023_v2.pdf/bbf6fa0d-b45e-6b7f-1697-2c002442b1de
August 9, 2023	ICAPWG	Gas Constraints – Classification Proposal, Requirements for Firm Units, and Data Submittal Timeline: https://www.nyiso.com/documents/20142/39257338/Natural%20Gas%20Constraints_08_09_2023%20ICAPWGv4%20(002).pdf/de6053e0-030d-5520-ed59-18f2225f0f92

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

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: https://www.nyiso.com/documents/20142/40834869/2023-10-26%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/7d81b04c-e08a-0298-eea6-cf99d92aa88c
November 8, 2023	ICAPWG	Gas Constraints – Response to Stakeholder Feedback and Market Design Summary + Tariff: https://www.nyiso.com/documents/20142/41049783/Natural%20Gas%20Constraints_11_8_w_Tariff_v5.pdf/8badbfff-06cd-3db3-46f9-c7de5107e993
November 17, 2023	ICAPWG	Gas Constraints – Response to Stakeholder Feedback: https://www.nyiso.com/documents/20142/41273741/Natural%20Gas%20Constraints_11_17_ICAPWG_v3.pdf/9e3b921a-0161-3a21-4874-21811077efb5
November 27, 2023	ICAPWG	Modeling Improvements for Capacity Accreditation – Summary: https://www.nyiso.com/documents/20142/41393553/2023-11-27%20ICAPWG%20-%20Modeling%20Improvements%20Summary.pdf/9c383992-bebf-6a4a-e660-4cb96f842ef2
December 4, 2023	ICAPWG	Modeling Improvements for Capacity Accreditation – Tariff Review: https://www.nyiso.com/documents/20142/41570800/2023-12-04%20ICAPWG%20-%20Modeling%20Improvements_v3.pdf/7d334598-46c3-23d8-3217-4bf3eeacadce
December 13, 2023	BIC	Modeling Improvements for Capacity Accreditation – BIC Presentation: https://www.nyiso.com/documents/20142/41671891/06%20Modeling%20Improvements%20for%20Capacity%20Accreditation.pdf/470bc7a0-277c-dfac-62e6-9cd439f9c813 Motion: https://www.nyiso.com/documents/20142/41671891/06%20Modeling%20Improvements%20for%20Capacity%20Accreditation%20Motion.pdf/f6afdb1e-f59a-584b-8280-b9b1cab39151

Previous Discussions on Modeling Improvements for Capacity Accreditation

Date	Working Group	Discussion Points and Links to Materials
December 15, 2023	ICAPWG	Modeling Improvements for Capacity Accreditation – SCR Modeling: https://www.nyiso.com/documents/20142/41825507/12-15-2023%20ICAPWG%20-%20Modeling%20Improvements%20-%20SCR%20Modeling.pdf/7c754c58-381e-0532-4b13-83181677f3db
February 2, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation – Gas Constraints Tariff & ICAP Supplier Bidding Requirements: https://www.nyiso.com/documents/20142/42748388/2%202024-2-2%20ICAPWG%20-%20Modeling%20Improvements.pdf/0d4f32dd-036d-0a5a-2481-cdf230d35a16
February 20, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation – Gas Constraints Tariff & ICAP Supplier Bidding Requirements: https://www.nyiso.com/documents/20142/43038997/7%202024-2-20%20ICAPWG%20-%20Modeling%20Improvements.pdf/9d48164f-4617-48da-dc06-3838e0fd042f
March 4, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation: https://www.nyiso.com/documents/20142/43315080/2024-3-4%20ICAPWG%20-%20Modeling%20Improvements.pdf/a6f5b52d-6adb-5cec-2e30-c362788dfc50
March 20, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation: https://www.nyiso.com/documents/20142/43621521/3%202024-3-20%20ICAPWG%20-%20Modeling%20Improvements_v6.pdf/b86db27c-79af-4cdd-24ff-fb9e9d4a339f
March 27, 2024	MC	Modeling Improvements for Capacity Accreditation: https://www.nyiso.com/documents/20142/43713211/5%202024-03-27%20MC%20-%20Modeling%20Improvements_v2.pdf/0dc344f9-22e8-20a8-cda6-95c38b85a73e
May 8, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation – Update: https://www.nyiso.com/documents/20142/44546131/Modeling%20Improvements%20for%20Capacity%20Accreditation%20Firm_non-firm%20Update%205_8_2024.pdf/acd199e7-dc94-2c06-02f9-bb68cec94ce4
August 1, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation – Update: https://www.nyiso.com/documents/20142/46161626/4%20MICA%20Update%20August%201%20icap.pdf/c7393f29-2919-df63-82df-226de0a8537b

Previous Discussions on Modeling Improvements for Capacity Accreditation

Date	Working Group	Discussion Points and Links to Materials
August 29, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation – ICAP Manual Changes and Firm Requirements: https://www.nyiso.com/documents/20142/46679593/August%20MICA%20Manuals%20and%20Requirements_v1.6.pdf/8335b836-1ca6-1b01-c6eb-154e7e90a3b7
November 21, 2024	ICAPWG	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/48151567/MICA%2011_21%20ICAPWG_v6.pdf/3901561d-5c11-db8a-b22a-3dfad962786b
February 4, 2025	ICAPWG	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/49572424/MICA_FFR_2_4_ICAPWG_v5_Final.pdf/76d55a2f-2776-10af-e6d2-7dc4af5557ce
February 25, 2025	ICAPWG	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/49964716/MICA_FFR_2_25ICAPWG_v6_clean.pdf/6b5aae49-8910-91a7-7c8e-199a995f1335
March 3, 2025	ICAPWG	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/50076312/MICA_FFR_3_3_ICAPWG_v3_Clean.pdf/ebb3b256-58ac-03bd-3f11-ee8bb3ae296b
March 17, 2025	ICAPWG	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/50337038/MICA_FFR_3_17_ICAPWG_Redline.pdf/aca0e2bf-6882-27d9-9a86-67bb7e7a2d9d
March 18, 2025	BIC	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/50304990/04%20MICA%20FFR%20BIC.pdf/86f9e6a1-1420-94d4-180f-453da1f7826f
March 24, 2025	ICAPWG	Modeling Improvements for Capacity Accreditation – Firm Fuel Requirements: https://www.nyiso.com/documents/20142/50467048/MST%205.12%20FID5213_3.21.pdf/ca970060-c4d0-eccc-f050-7661b9fd7c15