

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #300– February 5th, 2025
Microsoft Teams**

Attendees **Present** **Phone**

Members / Alternates:

| | | |
|--|--------------------------|-------------------------------------|
| William Gunther (Con Edison – ICS Chair) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Brian Shanahan (National Grid) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Rich Bolbrock (Unaffiliated) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Clay Burns (National Grid)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ruby Chan (CHG&E) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Richard Wright (CHG&E) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sanderson Chery (Con Edison)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ayman Elkasrawy (NYSEG/RG&E) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Jin Hao (NYSEG/RG&E)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Jim Kane (NYPA) | <input type="checkbox"/> | <input type="checkbox"/> |
| Anthony Abate (NYPA) | <input type="checkbox"/> | <input type="checkbox"/> |
| Mike Mager (MI) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chris Wentlet (MEUA)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mark Younger (Hudson Economics) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hilme Athar (PSEG LI)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Thomas Primrose (PSEG LI)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Advisers/Non-member Participants:

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| Gary Jordon (ICS Consultant) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| John Adams (ICS Consultant) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Henry Fox (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Dylan Zhang (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Laura Popa (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Max Schuler (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Yvonne Huang (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Otito Onwuzurike (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Bianca Prinsloo (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Lucas Carr (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| Sanket Milind Ulagadde (NYISO)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Mikaela Lucas (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ryan Carlson (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Timothy Duffy (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Heidi Nielsen (NYISO)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Abdul Mohammed (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Brendan Long (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Victoria Swider (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Adam Evans (DPS)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Richard Quimby (DPS)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Randy Monica Jr. (DPS) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Wes Youmans (RRS/RCMS) | <input type="checkbox"/> | <input type="checkbox"/> |
| Herb Schrayshuen | <input type="checkbox"/> | <input type="checkbox"/> |
| Rick Gonzales | <input type="checkbox"/> | <input type="checkbox"/> |
| Alan Ackerman | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Kristine Agati (Avangrid) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Leen Almadani (CHG&E) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Majdi Baccouche (NYSEG/RG&E)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Patrick Danner (NYPA) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Liam Baker..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Garrett Bissell..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mike Cadwalader | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Andrea Calo (CES) | <input type="checkbox"/> | <input type="checkbox"/> |
| Joe Coscia (Potomac Economics) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Caroline Decker..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Christina Duong..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Grant Flagler (Con Ed Energy) | <input type="checkbox"/> | <input type="checkbox"/> |
| Chris Hall | <input type="checkbox"/> | <input type="checkbox"/> |
| Karl Hofer (Con Edison)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mariann Wilczek (PSEGLI) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tim Lundin (LS Power) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Julia Popova (NRG)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Ricardo Galarza (PSM) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| Elynor Reyes..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Kathleen O’Hare..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Jie Chen | <input type="checkbox"/> | <input type="checkbox"/> |
| Michael Swider..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Benjamin Cohen..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Lucy Khazanovich | <input type="checkbox"/> | <input type="checkbox"/> |
| David Mirabella..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mackenzie Poulton | <input type="checkbox"/> | <input type="checkbox"/> |
| Richard Bratton (IPP NY) | <input type="checkbox"/> | <input type="checkbox"/> |
| Josef Figueroa | <input type="checkbox"/> | <input type="checkbox"/> |
| Vincent Gabrielle | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Haizhen Wang..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Marisa Dougherty | <input type="checkbox"/> | <input type="checkbox"/> |
| Tomasz Dziedzic | <input type="checkbox"/> | <input type="checkbox"/> |
| Claudia Bustamente..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Jared Anderson | <input type="checkbox"/> | <input type="checkbox"/> |
| Anand Chandrashekar..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Manny Panaligan..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Mark Magliola | <input type="checkbox"/> | <input type="checkbox"/> |
| Mark Gaines | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Pallavi Jain..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Oyin Agunbiade..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Andrew Gregory..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Arjun Malhotra..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Leila Nayar | <input type="checkbox"/> | <input type="checkbox"/> |
| Shah Saeed..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Sushant Verghese | <input type="checkbox"/> | <input type="checkbox"/> |
| Ken Galarneau..... | <input type="checkbox"/> | <input type="checkbox"/> |
| John Norris | <input type="checkbox"/> | <input type="checkbox"/> |
| Benjamin ORourke | <input type="checkbox"/> | <input type="checkbox"/> |
| Leon Almadani | <input type="checkbox"/> | <input type="checkbox"/> |
| Syeda Lubna | <input type="checkbox"/> | <input type="checkbox"/> |
| Yannick Vennes | <input type="checkbox"/> | <input type="checkbox"/> |

Jack Garrett..........

Afreen Vahora..........

1&2 Roll Call and Request for Additional Agenda Items – W. Gunther / T. Primrose

No additional agenda items identified.

3. Approval of Previous Meeting Minutes – T. Primrose/B. Shanahan

Meeting minutes for previous meeting #299 were approved with minor comments.

4. Review of Action Item List – W. Gunther

No new action items were presented. The list was updated to reflect current completion status.

- Action item 299-1 was completed.
- Minor editorial updates were made to the action items list and Gantt chart.

5. Chair update on recent EC actions - W. Gunther

W. Gunther provided an update on the EC discussion regarding a forward-looking IRM study. Several EC members expressed interest in additional sensitivity work within the IRM study as an alternative to doing a forward-looking IRM study. No current plans to conduct a forward IRM study, but additional sensitivity work will be considered. The EC had no objections to proposed whitepaper scopes as presented.

6. IRM Milestone Schedule – W. Gunther

W. Gunther presented on minor editorial changes to the IRM milestone schedule. ICS approved the IRM Milestone Schedule.

7. NYSRC Proposed Whitepaper Scopes– D. Zhang

D. Zhang presented on updates to the NYSRC Proposed Whitepaper Scopes integrating feedback from ICS and the EC. ICS approved the NYSRC Proposed Whitepaper Scopes

8. Fuel Availability Constraints Modeling Phase 2– L. Carr

L. Carr presented a plan for the Fuel Availability Constraints Modeling Phase 2 covering:

- Recap of assumptions from the original Fuel Availability Whitepaper.
- Plan to update “available oil” assumptions incorporating more recent fuel survey data and changes to NYISO firm fuel duration requirement. Updated information is currently planned for review at the March 5, 2025 ICS.
- Plan to update “available gas” assumptions incorporating more recent data. Updated information is currently planned for review at the March 5, 2025 ICS.
- Recommendation to not model annual fuel elections for 2026-2027 IRM study due to uncertainty in market design.
- Recommendation that assumptions on “available gas” and “available oil” are updated annually for IRM study.
- Recommendations for this year’s study planned to be finalized by Q2 of this year.

Significant stakeholder discussion occurred throughout presentation. Stakeholders emphasized the need for fuel availability constraints to be incorporated into the base case in order to create a functional market design.

M. Younger expressed significant disagreement with proposal to not model annual fuel elections for 2026-2027 IRM study. He argued that fuel elections should be modeled to create differentiation between firm/non-firm CAFs to justify the additional requirements placed on firm generators (also that not modeling fuel elections eliminates market-reliability feedback loop).

G. Jordan opined that the IRM model's primary goal is to determine system reliability and that fuel availability should be modeled based on what is reasonably expected to be available rather than strictly based on market elections.

M. Mager expressed that there has been confusion amongst stakeholders due to uncertainty of market design implementation and fuel constraints assumptions to the IRM model and that stability is desired.

Y. Huang clarified that the overall goal is to reflect on the aggregate how much fuel can be depended on from a probabilistic perspective and emphasized that the assumption to not model fuel elections is in light of the high uncertainty during this IRM cycle. She clarified that the NYISO recommends that future implementation cycles can incorporate election information and introduce the markets and reliability model feedback loop. She expressed that as time goes on it is expected that modeling assumptions and elections should converge as more historical data is gathered.

Several stakeholders expressed an interest in seeing more detail behind how the NYISO determined levels of firm resources. Stakeholders also suggested bringing the Fuel Availability Constraints Modeling to the EC.

9. Tan45 Methodology Review: Thermal Shifting – A. Mohammed

A. Mohammed presented an overview of the Tan45 Thermal Shifting Methodology covering:

- Recap of key findings from 2024 "Tan45 Methodology Review" whitepaper.
- Overview of current shifting methodology based on average zonal resource vs thermal shifting methodology based on average zonal thermal resource.
- Comparison of methodologies tested on 2025-2026 IRM FBC as well as 2024-2025FBC+9000MW OSW case from 2024 Tan45 testing. Testing on the 2025-2026 IRM FBC revealed significant change to the "low point" of the Tan45 curve, but more moderate impact to IRM and LCR values.

Stakeholder discussion ensued with a general consensus that thermal shifting is not a standalone fix for the Tan45 under changing system dynamics. Discussion identified the need for consideration of an alternative approach beyond the upstate vs downstate trade-off that the Tan45 was constructed to address.

10. 2026-2027 Assumptions Matrix v0.0- H.Fox

Reviewed the matrix for the upcoming study year. Matrix to be populated as the study year progresses.

11. Additional Agenda Items

No additional agenda items identified.

Next Meeting

Meeting #301 –Wednesday, March 5th, 2025, 10 am – MS Teams