

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #314– March 4th, 2026
Microsoft Teams**

Attendees

Present Phone

Members / Alternates:

Thomas Primrose (PSEG LI – ICS Chair)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
William Gunther (Con Edison)	<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 type="checkbox"/>
Caroline Decker (CHG&E)	<input type="checkbox"/>	<input type="checkbox"/>
Seamus Gorman (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 type="checkbox"/>
Jim Kane (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Patrick Danner (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Mager (MI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Wentlent (MEUA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hilme Athar (PSEG LI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike DeSocio (Luminary).....	<input type="checkbox"/>	<input type="checkbox"/>

Advisers/Non-member Participants:

Gary Jordan (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 type="checkbox"/>
Laura Popa (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Max Schuler (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Yvonne Huang (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Bianca Prinsloo (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lucas Carr (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Sanket Milind Ulagadde (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ryan Carlson (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heidi Nielsen (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brendan Long (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Carter Hempstead (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Garrett Bissell (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kathleen O'Hare (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Josif Figueroa (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Pramila Nirbhavane (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Ethan Avallone (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Keegan Guinn (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Pallavi Jain(NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Oyin Agunbiade (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Andrew Gregory (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Arjun Malhotra (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Claudia Bustamente (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Leila Nayar (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Sushant Varghese (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diego Meucci (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Benjamin O'Rourke (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Jack Garrett (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Afreen Vahora (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Syeda Lubna (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Akin Aroge (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Manish Sainani (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Zach T. Smith (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Helena Frudit (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Hamilton (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Aaron Markham (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Rajesh Subramanian (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alexis Drake (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>

Ansa Altaf (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Yi-An Chen (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ross Altmann (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Raj Dontireddy (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Dominic Riendeau-Krause (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ava Sealander (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mikaela Lucas (GE)	<input type="checkbox"/>	<input type="checkbox"/>
Matt Elkins (GE)	<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"/>
Holly Quattrocioni (DOS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wes Yeomans (RRS/RCMS)	<input type="checkbox"/>	<input type="checkbox"/>
Kristine Agati (Avangrid).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leen Almadani (CHG&E).....	<input type="checkbox"/>	<input type="checkbox"/>
Andrea Calo (CES)	<input type="checkbox"/>	<input type="checkbox"/>
Joe Coscia (Potomac Economics)	<input type="checkbox"/>	<input type="checkbox"/>
Mike Cadwalader (Atlantic Economics).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Grant Flagler (Con Ed Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Karl Hofer (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lucy Khazanovich (PSEGLI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
David Mirabella (PSEGLI)	<input type="checkbox"/>	<input type="checkbox"/>
Manny Panaligan (PSEGLI).....	<input type="checkbox"/>	<input type="checkbox"/>
Mark Magliola (PSEGLI)	<input type="checkbox"/>	<input type="checkbox"/>
Mariann Wilczek (PSEGLI).....	<input type="checkbox"/>	<input type="checkbox"/>
Peter Andolena (PSEGLI).....	<input type="checkbox"/>	<input 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 type="checkbox"/>
Richard Bratton (IPP NY).....	<input type="checkbox"/>	<input type="checkbox"/>
Khatune Zannat (NPCC)	<input type="checkbox"/>	<input type="checkbox"/>
Herb Schrayshuen (NYSRC).....	<input type="checkbox"/>	<input type="checkbox"/>
Amanda De Vito Trinsey (NYSRC)	<input type="checkbox"/>	<input type="checkbox"/>

Vincent Gabrielle (RTO Insider)	<input type="checkbox"/>	<input type="checkbox"/>
Marie French (Politico)	<input type="checkbox"/>	<input type="checkbox"/>
Aaron Breidenbaugh (C Power)	<input type="checkbox"/>	<input type="checkbox"/>
Eve Marengi (Luminary)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ray Stalter (Luminary)	<input type="checkbox"/>	<input type="checkbox"/>
Michael Lenoff (Earth Justice)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
William Sanchez (NYSERDA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rick Gonzales	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Elynor Reyes	<input type="checkbox"/>	<input type="checkbox"/>
Michael Swider	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Benjamin Cohen	<input type="checkbox"/>	<input type="checkbox"/>
Mackenzie Poulton	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Haizhen Wang	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jared Anderson	<input type="checkbox"/>	<input type="checkbox"/>
Mark Gaines	<input type="checkbox"/>	<input type="checkbox"/>
Kenneth Galarneau	<input type="checkbox"/>	<input type="checkbox"/>
John Norris	<input type="checkbox"/>	<input type="checkbox"/>
Leon Almadani	<input type="checkbox"/>	<input type="checkbox"/>
Yannick Vennes	<input type="checkbox"/>	<input type="checkbox"/>
Stephen Conant	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nilkesh Gowalani	<input type="checkbox"/>	<input type="checkbox"/>
Matthew Schwall	<input type="checkbox"/>	<input type="checkbox"/>
Stephanie Palmer	<input type="checkbox"/>	<input type="checkbox"/>
James Pigeon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Haff	<input type="checkbox"/>	<input type="checkbox"/>
Matthew Napoli	<input type="checkbox"/>	<input type="checkbox"/>
Alan Ackerman	<input type="checkbox"/>	<input type="checkbox"/>
Marisa Doherty	<input type="checkbox"/>	<input type="checkbox"/>
Scott Niemann	<input type="checkbox"/>	<input type="checkbox"/>
Vaibhav Parekh	<input type="checkbox"/>	<input type="checkbox"/>
Travis Atkinson	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Daniel Jerke	<input type="checkbox"/>	<input type="checkbox"/>
Timothy Duffy	<input type="checkbox"/>	<input type="checkbox"/>

Ryan Martin.....	<input type="checkbox"/>	<input type="checkbox"/>
Andrew Davis.....	<input type="checkbox"/>	<input type="checkbox"/>
Leonard Ashley (NYSERDA).....	<input type="checkbox"/>	<input type="checkbox"/>
Scott Berthiaume.....	<input type="checkbox"/>	<input type="checkbox"/>
Steve Whitley.....	<input type="checkbox"/>	<input type="checkbox"/>
Derek Hagaman.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Caelan Schaefer.....	<input type="checkbox"/>	<input type="checkbox"/>

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

No additional agenda items noted.

3. Approval of Previous Meeting Minutes – P. Danner

Meeting minutes for previous meeting #313 were approved with no edits.

4. Review of Action Item List – T. Primrose

T. Primrose highlighted the following:

- What was formerly action item EC 312-1 has been split into two: EC 322-1 & EC 322-2, so that the latter serves to enshrine the goal of following through on the former with next steps
- No changes to current white paper topics

Stakeholders noted that Evaluate EOP activations has been on the list of Additional Topics to Monitor in the near-term since 2024, and requested that attention be given to the possibility of modeling it.

5. Chair update on recent EC actions – T. Primrose

T. Primrose provided an update on the EC covering the following:

- EC approved the 2027-2028 IRM milestone schedule
- EC expressed interest in a review of 9300 code outages
- Split the EC 312-1 goal as noted in #4

6. ICF Fuel Constraints Study – Y. Huang

NYISO presented a briefing on the 2025 Study of Winter Fuel Constraints in New York State prepared by ICF Resources. The ICF study aimed to quantify the availability of natural gas and fuel oil deliveries to New York’s power sector from total supply perspective, identify potential supply constraints or shortfalls, and quantify the power generation that may be unserved due to insufficient fuel supply under a range of demand conditions over a 2025-2035 study horizon. NYISO provided a detailed overview of data sourcing, study setup, and key assumptions. NYISO also provided a summary of unserved generation capacity due to fuel availability for various scenarios, load bins, and pipeline expansion setups. The aforementioned topics of interest in addition to

summary conclusions are available in detail as part of the attached report and presentation. NYISO noted that ICF and the NYISO management team view the report as a starting point for NYISO's fuel availability assumptions in a winter reliability assessment, due to a number of factors not considered in the study and may further impact fuel availability to the power generators. NYISO will be back at the next meeting to discuss how the ICF study can be considered for winter fuel constraint assumptions in the IRM model.

C. Wentlent inquired about heat rates used for the analysis, NYISO replied that the study relied on EPA data for full load heat rates. He followed up on firm fuel requirements and NYISO clarified that the study looked at pipeline supply arrangements and generator surveys rather than elections.

M. Mager asked how the study conclusions might change with infrastructure changes and C. Wentlent followed up to ask if potential LDC upgrades were considered. NYISO noted that several interstate pipeline projects were considered and clarified that analysis was confined to interstate pipelines and that ICF did not look at LDC upgrades or constraints.

M. Cadwalader noted that the gas design day scenario is significantly more extreme than bin 1 IRM conditions, which could complicate comparisons. NYISO responded that gas system design conditions are more conservative because the impacts of losing gas pressure are more consequential in duration and magnitude than loss of electric service.

W. Gunther noted that most LOLE risk in the current model occurs in bin 2 and expressed interest in seeing more information based on that bin. NYISO replied that the study selected bins 1,4 and 7 to simulate a range of different weather conditions.

R. Gonzales asked for additional info on how gas deliveries outside of New York were considered. NYISO indicated that no hydraulic modeling was performed and data was based on pipeline receipts.

T. Primrose requested more detail on LNG/CNG peak shaving assumptions and NYISO clarified that gas from these satellite facilities was assumed to be released for firm customers and not made available to gas generators.

The ICF results indicated an increase in unserved capacity in Zone K when moving from the Design Day scenario to bin 1. Discussion occurred regarding the reasons for this outcome. NYISO responded that Zone K is subject to fewer pipeline constraints, resulting in lower overall unserved capacity relative to Zone J, and noted that it would follow up to provide additional clarification on the increase observed between the Design Day and bin 1 scenarios.

As the presentation concluded that the ICF study outcome represented theoretic maximum available fuel for power generators, M. Lenoff asked how it can be used to inform practical study assumptions. The NYISO concurred the challenge to combine theoretical results with actual historical data, and confirmed the plan to return to the next meeting for further discussion.

7. Maintenance Modeling & Output Factor Curves - Current Methodology – K. O'Hare

As part of the whitepaper effort to assess potential enhancements to the planned maintenance derates and outages modeled for the IRM study, K. O'Hare provided an overview of NYISO's

maintenance outage management practices. The NYISO performs various reliability assessments to determine whether, with the submitted maintenance outage schedules, seasonal capacity margins can be maintained, and any maintenance outage that takes effect but not approved by NYISO will be classified as forced outage.

Stakeholders were interested in

- whether there was any maintenance in January (K. O’Hare replied that it only would have been approved if capacity margins were available; resources must call NYISO before going into a maintenance outage even if previous approved)
- 9300 outages
 - K. O’Hare answered that yes they are included in MARS
 - Y. Huang answered that when a 9300 outage is reported, there is a matching transmission outage record

NYISO will return to a future ICS to review the modeling of maintenance within the GE MARS model.

8. Parametric Process Improvements Update – D. Riendeau-Krause

D. Riendeau-Krause outlined initial testing results for the potential improvements identified at the prior ICS meeting with respect to load forecast updates: Upstate/Downstate Parametric Split and Excess UCAP Shifting.

D. Riendeau-Krause reported that the initial testing results indicate that both potential enhancements may reduce the magnitude of divergence between the Parametric and Tan45 results, though additional test cases are needed to validate the impacts prior to finalizing recommendations.

9. Seasonal Topology Update – A. Sealander

A. Sealander reviewed considerations for seasonal impacts on internal transfer limits and the results of testing expected seasonal interface transfer limit increases for winter system conditions. Potentially impactful interfaces were identified, though there was no meaningful impact on LOLE observed after testing.

M. Cadwalader opined that this analysis changed one at a time, and to the extent that there are interactions might be interesting to try more than one.

NYISO will do further work to enhance the annual update process to capture seasonal topology inputs in the IRM study model.

10. 2027-2028 IRM PBC Parametric Results – R. Subramanian

R. Subramanian reported that GE had released a new MARS version, and that in testing the new MARS version (5.10.4171) against the version currently in use by the NYISO (5.8.3837), they found the results to be identical across all three types of studies (Parametric, Tan45, LCR).

11. 2027-2028 IRM PBC Assumptions Matrix – R. Subramanian

R. Subramanian highlighted that the 2027-2028 IRM PBC Assumptions Matrix was updated to reflect that the new MARS version (5.10.4171) will be used, following the NYISO's completion of testing for the new MARS version, as reported in the prior agenda item.

12. Work Scope For the TSL/LCR Working Group – R. Gonzales

In response to inquiries at the last ICS, R. Gonzales spoke on the scope of the TSL/LCR Working Group. Currently their efforts are focused on the Technical Assumption Alignment Issue, which will work to improve alignment of the NYISO's Transmission Security Limit (TSL) methodology and the NYSRC's Installed Reserve Margin (IRM) Study process. The other issue is the Timeframe Issue, where the Working Group will consider whether establishing a timeframe to finalize the NYISO's TSL methodology and/or TSL values is necessary.

In response to a question from M. Mager regarding timing, T. Primrose answered that they are aiming to make concrete recommendations by June since PBC lockdown is scheduled for July 8, and they want time for stakeholder input.

R. Gonzales invited stakeholders to send their thoughts to T. Primrose, who reiterated willingness to take input.

13. Additional Agenda Items

Y. Huang announced a successful hire to the NYISO's Resource Adequacy Manager position: Sushant Varghese, who has been with the NYISO two years in the Market Structures department and has worked with the Resource Adequacy team in the past, including the LCR Optimizer Improvement project.

No other additional agenda items were identified.

Next Meeting

Meeting #315 –Tuesday, March 31st, 2026, 10:00 am–MS Teams