

Final 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) .....	☐	.....	☒
William Gunther (Con Edison) .....	☐	.....	☒
Brian Shanahan (National Grid) .....	☐	.....	☒
Rich Bolbrock (Unaffiliated) .....	☐	.....	☒
Clay Burns (National Grid) .....	☐	.....	☒
Ruby Chan (CHG&E) .....	☐	.....	☐
Caroline Decker (CHG&E) .....	☐	.....	☐
Seamus Gorman (CHG&E) .....	☐	.....	☒
Sanderson Chery (Con Edison) .....	☐	.....	☒
Ayman Elkasrawy (NYSEG/RG&E) .....	☐	.....	☒
Jin Hao (NYSEG/RG&E) .....	☐	.....	☐
Jim Kane (NYPA) .....	☐	.....	☒
Patrick Danner (NYPA) .....	☐	.....	☒
Mike Mager (MI) .....	☐	.....	☒
Chris Wentlent (MEUA) .....	☐	.....	☒
Hilme Athar (PSEG LI) .....	☐	.....	☒
Mike DeSocio (Luminary) .....	☐	.....	☐

Advisers/Non-member Participants:

Gary Jordan (ICS Consultant) .....	☐	.....	☒
John Adams (ICS Consultant) .....	☐	.....	☒
Henry Fox (NYISO) .....	☐	.....	☒
Dylan Zhang (NYISO) .....	☐	.....	☐
Laura Popa (NYISO) .....	☐	.....	☒
Max Schuler (NYISO) .....	☐	.....	☐
Yvonne Huang (NYISO) .....	☐	.....	☒

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

Ansa Altaf (NYISO)	☐	☐
Yi-An Chen (NYISO)	☐	☒
Ross Altmann (NYISO)	☐	☐
Raj Dontireddy (NYISO)	☐	☐
Dominic Riendeau-Krause (NYISO)	☐	☒
Ava Sealander (NYISO)	☐	☒
Mikaela Lucas (GE)	☐	☐
Matt Elkins (GE)	☐	☐
Adam Evans (DPS)	☐	☒
Richard Quimby (DPS)	☐	☒
Randy Monica Jr. (DPS)	☐	☒
Holly Quattrociocchi (DOS)	☐	☒
Wes Yeomans (RRS/RCMS)	☐	☐
Kristine Agati (Avangrid)	☐	☒
Leen Almadani (CHG&E)	☐	☐
Andrea Calo (CES)	☐	☐
Joe Coscia (Potomac Economics)	☐	☐
Mike Cadwalader (Atlantic Economics)	☐	☒
Grant Flagler (Con Ed Energy)	☐	☒
Karl Hofer (Con Edison)	☐	☒
Lucy Khazanovich (PSEGLI)	☐	☒
David Mirabella (PSEGLI)	☐	☐
Manny Panaligan (PSEGLI)	☐	☐
Mark Magliola (PSEGLI)	☐	☐
Mariann Wilczek (PSEGLI)	☐	☐
Peter Andolena (PSEGLI)	☐	☐
Tim Lundin (LS Power)	☐	☒
Julia Popova (NRG)	☐	☐
Ricardo Galarza (PSM)	☐	☐
Richard Bratton (IPP NY)	☐	☐
Khatune Zannat (NPCC)	☐	☐
Herb Schrayshuen (NYSRC)	☐	☐
Amanda De Vito Trinsey (NYSRC)	☐	☐

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

Ryan Martin .....	☐	.....	☐
Andrew Davis.....	☐	.....	☐
Leonard Ashley (NYSERDA).....	☐	.....	☐
Scott Berthiaume.....	☐	.....	☐
Steve Whitley.....	☐	.....	☐
Derek Hagaman .....	☐	.....	☒
Caelan Schaefer .....	☐	.....	☐

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
 - o K. O'Hare answered that yes they are included in MARS
 - o 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