

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #244 – March 3rd, 2021
Telephone Conference**

Attendees

Present Phone

Members / Alternates:

Brian Shanahan (National Grid ICS Chair	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Paul Didsayabutra (NYSEG/RG&E) ICS Vice Chair / Secretary	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rich Wright (CHG&E)	<input type="checkbox"/>	<input type="checkbox"/>
Ruby Chan (CHG&E).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Howard Kosel (Con Edison).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sanderson Chery (Con Edison).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Mager (Couch White – Large Consumers)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mark Younger (Hudson Energy Economics, LLC – Wholesale Sellers)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Wentlet (Municipals & Electric Coops)	<input type="checkbox"/>	<input type="checkbox"/>
Clay Burns (National Grid).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Cordi (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alan Michaels (NYPA).....	<input type="checkbox"/>	<input type="checkbox"/>
Richard Brophy (NYSEG/RG&E).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Dellatto (PSEG LI).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Khatune Zannat (PSEG LI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mariann Wilczek (PSEG LI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rich Bolbrock (Unaffiliated Member)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Advisers/Non-member Participants:

Dan Jerke (CPV)	<input type="checkbox"/>	<input type="checkbox"/>
Jack DiOdoardo (CHG&E).....	<input type="checkbox"/>	<input type="checkbox"/>
John Adams (Consultant)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ricardo Galarza (PSM Consulting)	<input type="checkbox"/>	<input type="checkbox"/>
Scott Leuthauser (HQUS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alan Ackerman (CES).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Gloria (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Karl Hofer (Con Edison).....	<input type="checkbox"/>	<input type="checkbox"/>

Nelson Eng (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Norman Mah (Con Ed Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Greg Drake (Consultant)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jonathon Newton (Direct Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kenneth Galarneau (Direct Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adam Evans (DPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Richard Quimby (DPS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Liam Baker (Eastern Generation)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brian Krall (East Coast Power & Gas)	<input type="checkbox"/>	<input type="checkbox"/>
Matt Cinadr (E Cubed)	<input type="checkbox"/>	<input type="checkbox"/>
Eduardo Ibanez (GE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Matthieu Plante (HQ)	<input type="checkbox"/>	<input type="checkbox"/>
Matthew Schwall (IPPNY)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jim D'Andrea (LS Power).....	<input type="checkbox"/>	<input type="checkbox"/>
Amanda Moyott (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ben O'Rourke (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carl Patka (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Charles Alonge (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
David Allen (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Frank Ciani (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Josh Boles (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kevin Osse (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Laura Popa (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Max Schuler (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mike Welch (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nate Gilbraith (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Norman Mah (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Ryan Carlson (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ying Guo (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Yvonne Huang (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Zack Smith (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dan Mahoney (NYPA)	<input type="checkbox"/>	<input type="checkbox"/>

Jim Kane (NYPA)	<input type="checkbox"/>	<input type="checkbox"/>
Patti Caletka (NYSEG/RG&E)	<input type="checkbox"/>	<input type="checkbox"/>
Chris Hall (NYSERDA).....	<input type="checkbox"/>	<input type="checkbox"/>
Erin Hogan (UIU)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Andrea Calo (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Randy Monica (Unknown)	<input type="checkbox"/>	<input type="checkbox"/>
Chris LaRoe (Unknown)	<input type="checkbox"/>	<input type="checkbox"/>
Craig Bury (Unknown).....	<input type="checkbox"/>	<input type="checkbox"/>
Jie Chen (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Julia Popova (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mitch Bringolf (Unknown).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Robert German (Unknown)	<input type="checkbox"/>	<input type="checkbox"/>
Ryan Patterson (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sadhana Shrestha (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Zachary Hutchins (Unknown)	<input type="checkbox"/>	<input type="checkbox"/>
Zahid Qayyum (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1. Roll Call

- Roll call was conducted.

2. Introduction and Request for Additional Agenda Items

- Chair Brian Shanahan called the NYSRC ICS meeting to order at 10:00 A.M. on March 3rd, 2021.
- No additional agenda item was added.

3. Approval of Minutes for Meeting #243– –B. Shanahan

- Minor clarifying and typographical corrections were made.
- The Meeting Minutes for Meeting #243, with edits, was approved.

4. Review of Action Items List – – B. Shanahan

- Item 197-1: Mr. Gilbraith provided update to the amount of NY capacity exports to ISO-NE.
 - ISO-NE ran their annual FCM auction and published their aggregate results. NY is expected to have several hundred MWs of obligations to New England (NE) for 2024-2025 which is a slight increase in obligations compared to 2023-2024.
 - For the upcoming capability year, NYCA resources have about 500-600 MWs of obligations to NE. However, what very often happens is the actual flows over the AC ties into NE are much lower, and that often corresponds approximately with HQ Wheel obligation initially sold in the market.
 - The information of 2024-2025 obligations will be available soon and it is anticipated to be about the same as what will be seen for this summer.
 - Regarding the obligations coming from LHV or NYC to NE for this summer or the forward period, large resources located in zones G-K are no longer have forward obligations for this summer. There are smaller resources in G-K that may have a small amount of obligations into NE.
- Item 220-1: A continuing item will be available later this year.
- Item 233-1: Anticipated May 2021 deliverable.
- Item 242-1: This is the High Renewable Phase II White Paper. Anticipated May 2021 deliverable.
- Current White Paper Topics (For 2021) was reviewed, no recommended change
- Future (2021 and beyond) White Papers
 - Energy Storage Resources (ESR): Recommendation to possibly remove this from the list
 - Load Shifting Methodology: No change
 - TSL's use in TAN-45 Analysis: Recommendation to remove this from the list

5. Update on Executive Committee actions regarding ICS – B. Shanahan

- Market sensitive data procedure
 - The Executive Committee approved a protocol for handling market sensitive information. In short, it may not be shared with market participants prior to it becoming public information.
- Updates to ICS meeting schedule
 - The next ICS will not be held on March 31st due to a conflict with a NYISO Management Committee meeting. It will be held on March 30th and the meeting schedule will be updated.

6. Average Outage Rates Recent – M Younger

- An evaluation on the impact of using different Average Outage Rates in MARS IRM Studies was presented. Specifically, the analysis looked at whether using a shorter period (current 5 years) vs 10-year average outage rates, provides a better estimate of future availability. Some conclusions were:
 - Both the 5-year and 10-year estimates produced similar average outage rate estimates.
 - However, the standard deviation from the 10-year estimates over time was much lower than for the 5-year data – i.e. the estimates were much more stable
 - Using 10 years of data for outage rate assumptions should reduce random variation in IRM and LCR results.
- With respect to cable outages (based on a recent NYISO analysis):

- The analysis showed that the Long Island cable transition rate had about a 2.3% downward impact on the Long Island LCR.
- At the same time that the lower outage rate assumption was lowering the Long Island LCR, the system was experiencing extended outages on Y49, Neptune and the Cross-Sound Cable.
- Using a 5-year average for outage rates will result in the recent outages having an outsized impact on future outage expectations. Using a longer time period would smooth that impact out.

7. Status of White Paper Scopes – B. Shanahan

- White Papers Approved (Any further discussion): – B. Shanahan
 - Examination of Transmission Security Limits in the IRM Study: Minor typos were corrected, otherwise no comments.
 - Modeling Energy Limited Resources: No comments.
 - Evaluate Improvements to Modeling SCR Duration Limits: No comments.
 - Load Forecast Uncertainty Modeling” No comments.
- Mr. Younger noted that all these white papers are due in May, he asked the NYISO if there would be any preliminary results available prior to that date. Mr. Gilbraith said that the NYISO plans to provide information as it becomes available and discuss it at upcoming meetings.
- Regarding LFU modeling, Mr. Younger noted that in California and Texas have had more extreme weather than they had experienced in the past and questioned whether that possibility would be considered in our analysis. Mr. Gilbraith said the NYISO is following the events in California and Texas and is considering those events very seriously. In discussing how we model LFU, the NYISO is open to whether ICS thinks enhancements to our process are needed. LFU will be reviewed both here at the ICS and by the subject matter experts at the LFTF.

8. Recent Updates to the 2022 Preliminary Case Assumptions Matrix – K. Osse

- Not many changes to report are expected. A version number was added to the title page.
- Mr. Mager suggested that the Estimated IRM Impact column should be blank at this point since their impact is based on how those assumptions impact the IRM and there is no data at this point. Mr. Osse stated that the estimated impacts listed are based on past experience, but they will be removed for now as requested.
- There was some discussion regarding Peak Load Forecast. Mr. Drake asked if NYCA is already expecting the October load forecast in November. Mr. Osse said that timing is consistent with how it occurred last year. The NYISO will take this back and provide an update in the next meeting.

9. Initial Testing Results of GE’s ELR Modeling Functionality – Y. Huang & GE

- GE presented 1) a refresher of new models for ELR (as needed energy limited (EL3) and dynamic storage (ES)) and framework and metrics to evaluate dynamic vs. fixed shape models 2) Preliminary results of their evaluation of the directional movement of LOLE/LOLH/EUE with different models and identified the effect of selected features.
- GE plans to continue testing of EL3 MARS model. This includes modeling all NYISO ELRs using the ES/EL3 model and conduct the comprehensive testing with full suite of cases using benchmarking NYISO data. GE also plans present additional results in the next meeting.
- A final analysis of results and summary will be presented as a white paper.

10. New generators inclusion rules: NYISO process update – Y. Huang

- The NYISO presented a follow-up presentation to the February meeting as a dry run for new generator assumptions in the IRM before the actual implementation in 2022-2023 IRM study. The process would be implemented in both the Preliminary and Final Base Cases to determine whether a new Generator should be included in that year’s IRM determination.

- NYISO plans to implement this process for the treatment of new generators in IRM Study assumptions starting the Preliminary Base Case for the 2022-2023 IRM study.

11. Additional Agenda Items

- Mr. Shanahan will send out a copy of the EC approved policy for handling market sensitive data “NYSRC Openness and Records Management Policy” to ICS members. The topic will be added to the next meeting’s agenda for review of the policy and discussion.
- Jim Kane will be a new Alternate Member for NYPA.
- All Code of Conduct forms have been received from ICS members.

Next Meeting

Meeting #245 – Wednesday March 30th, 2021, 10 am – Telephone Conference