

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #247 – June 2nd, 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 type="checkbox"/> |
| Mike Mager (Couch White – Large Consumers) | <input type="checkbox"/> | <input type="checkbox"/> |
| Mark Younger (Hudson Energy Economics, LLC – Wholesale Sellers) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chris Wentlent (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 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"/> |
| Alan Adamson (Consultant) | <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 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 type="checkbox"/> |
| Kenneth Galarneau (Direct Energy)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Adam Evans (DPS) | <input type="checkbox"/> | <input type="checkbox"/> |
| Jonathan Forward (DPS) | <input type="checkbox"/> | <input 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 type="checkbox"/> |
| Matthieu Plante (HQ) | <input type="checkbox"/> | <input type="checkbox"/> |
| Matthew Schwall (IPPNY) | <input type="checkbox"/> | <input type="checkbox"/> |
| Jim D’Andrea (LS Power)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Brian Wilkie (National Grid) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Amanda Moyott (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Aaron Markham (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 checked="" 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 type="checkbox"/> |
| Max Schuler (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Mike Welch (NYISO)..... | <input type="checkbox"/> | <input 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 type="checkbox"/> |

| | | |
|-----------------------------------|--------------------------|-------------------------------------|
| Samantha Bergami (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ying Guo (NYISO) | <input type="checkbox"/> | <input type="checkbox"/> |
| Yvonne Huang (NYISO) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Zack Smith (NYISO)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Dan Mahoney (NYPA) | <input type="checkbox"/> | <input type="checkbox"/> |
| Jim Kane (NYPA) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Patti Caletka (NYSEG/RG&E) | <input type="checkbox"/> | <input type="checkbox"/> |
| Chris Hall (NYSERDA)..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Erin Hogan (UIU) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Andrea Calo (CES-LTD) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Randy Monica (Unknown) | <input type="checkbox"/> | <input type="checkbox"/> |
| Chris LaRoe (Unknown) | <input type="checkbox"/> | <input checked="" 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"/> |
| Michelle D'Angelo (Unknown) | <input type="checkbox"/> | <input type="checkbox"/> |
| Mitch Bringolf (Unknown) | <input type="checkbox"/> | <input type="checkbox"/> |
| Riaz Khan (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 type="checkbox"/> |

1. Roll Call

- Roll call was conducted.

2. Introduction and Request for Additional Agenda Items - B. Shanahan

- Chair Brian Shanahan called the NYSRC ICS meeting to order at 10:00 A.M. on June 2nd, 2021.

3. Approval of Minutes for Meeting #246 – B. Shanahan

- The minutes was approved with comments to be incorporated in the final version.

4. Review of Action Items List – B. Shanahan

- Item 220-1: This work will be completed in fall.
- Item 243-1: Editorial comments from the EC were received. Primarily, EC suggested the document should look like the NYSRC document rather than the NYISO document.
- Items 242-1, 242-2, 245-1 have been completed.
- Item 244-1: The title of the document will be modified to focus on the scope and it will be considered completed.
- Item 246-1 will be discussed in the meeting today.
- Current whitepaper topics: Several documents with the “TBD” statuses are anticipated to be done by the end of the year.

5. Status update to milestone tasks for the 2022 study – N. Gilbraith

- Mr. Gilbraith reported the status of the work that benchmarks the 2020 IRM is ongoing and it is on track. The new ELR modeling capability have been used in this study and It is anticipated the updated results will be available in July. One key change regarding the modeling issue is the old model that have been to represent IESO was replaced with the new models.
- Mr. Younger asked if the NYISO has the updated cable transition rates data. Mr. Gilbraith responded that it is available and has been included in the study.
- Mr. Younger also inquired whether the NYISO can provide the information regarding the aggregated cable outage rates to the participants. Mr. Gilbraith responded that he will need to double check and will provide the update later.

6. Update to the 2022 Preliminary Case Assumptions

- Draft 2022-2023 Preliminary Base Case (PBC) Matrix (K. Osse): Mr. Osse walked through version 5.0 of the document. Overall, compared to the previous, majority of the changes in this document involve New Generation Resources assumptions as shown in the table. Currently, these changes are being reviewed and it will take approximately 1 month to complete.
- IRM Proposed MARS Topology Updates (K. Osse):
Mr. Osse gave a presentation regarding the 2022-2023 Topology Updates which include several changes.
 - Since this assumption is scheduled to be presented to the ICS (seeking approval) in the next meeting, Mr. Drake requested the summary of the updates to be shared with the ICS before the next meeting. Alternatively, a call may be setup to review the document.
 - Mr. Younger also supports the concept that the NYISO should circulate this document within 2 weeks to allow the participants to be able to review the document. Mr. Osse agreed with the recommendation and will provide the update.

The presentation also indicated several topology updates that were made last month. These included rating changes at several interfaces such as Central East and IESO/NYISO interfaces.

- Mr. Drake has some questions about the rating of Dysinger East which Mr. Gilbraith will double-check and provide the updates.
- Mr. Younger also has a question regarding the expectation when the review for LIPA dynamic limit will be completed. Mr. Osse responded that he will provide some update later.

In addition, Ms. Zannat asked the NYISO if any information is still missing and anything that TO still needs to provide. Mr. Gilbraith responded that, at this point, it is more about the NYISO internal process. No other information is needed.

- New units modeled for the 2022 IRM Study (Y. Huang):
Ms. Huang walked through the document and indicated that the contents being presented in this meeting is based on the information in the gold book. Basically, these are generators that the NYISO recommends to be included in the study.
 - Mr. Younger brought up the issue/concern regarding using customer registration as a criterion to exclude some units. Ms. Huang and Mr. Patka provided some justifications and confirmed the NYISO's position to support the uses of customer registration as a criterion. At the end, Mr. Patka suggested that the Chair to seek ICS decision on this issue and move forward. Mr. Drake support the ISO's recommendation.
 - Mr. Shanahan indicated that he supports the ISO current position, but suggest the review will continue to be done which means some units could be included in Fall based on the review results. He also asked ICS members for their opinions or comments. At the end, there were no objection from the ICS to proceed according to the chair's proposal. This will be tracked via Action Item 247-1.
 - Mr. Younger also had questions regarding the ratings of units in the study that were derived from the gold book. Mr. Ciani had provided some responses. In addition, Mr. Younger also suggested some notes (clarifications) to be added to the Attachment G. Mr. Ciani agreed to implement it.
 - Ms. Hogan had a question regarding generation assumptions as shown in the attachment G1. Particularly, the table shows a unit that was listed as not modeled but it has CRIS capacity. She also recommended that the table should be revised to make it clearer. Mr. Gilbraith agreed to modify the table.
- PBC Load Shapes (N. Gilbraith):
Mr. Gilbraith provided a background that the load forecast was updated during the LCR study last year. However, the NYISO received several comments seeking more information regarding the load. This presentation intends to respond to these requests.
- Updated SCR performance (S. Bergami):
Ms. Bergami discussed the Demand Response (DR) model values for the 2022 IRM studies. The results showed a slight increase (2.9 MW) of SCR for the 2022 IRM study compared to the previous year.
- LFU for the 2022 IRM Study (R. Khan):

Mr. Khan provided a background of this study which is about the LFU model for 2022 study that uses 2021 data as input. The presentation explains the process to develop the LFU models, 2020 peak producing weather summary, 2020 weather response review, 2021 LFU Models with 2020 Data Included, 2022 LFU models recommendation.

- Mr. Drake asked about the relationship between this work and previous presentation from Mr. Alonge, especially the granularity issue. Mr. Alonge provided some clarifications regarding this issue. These assumptions were recommended to be used in the upcoming IRM, the ICS has no objection.

7. Preliminary Base Case – first set of Parametric Results – K. Osse

- Mr. Ciani presented the IRM 2022 Preliminary Base Case Parametric Results. He indicated that approximately 20 cases have been performed and the results are still being reviewed. What being presented today are the items that have been tested and ready for sharing with the ICS. These are 3 cases with material changes and another 3 cases with non-material changes.
 - Mr. Drake and Mr. Brophy suggested that a date to be added to the current document and going forward. MR. Osse agreed to provide that information.

8. White Paper Progress Updates – B. Shanahan

- Operating Reserves Distribution in the IRM Study (N. Gilbraith):
Mr. Gilbraith provided a background regarding this effort that was initiated last year after large number of EOP calls was observed. This issue was also discussed during the ICS meeting last month and, today, the updated results are being presented. At this point, the NYISO recommends using Case 3 for the upcoming 2021 IRM.
 - Mr. Younger recommended that case 4 is a better candidate as the reference. At the end, the ICS agreed that case 4 should be used for the 2022 IRM.
- LFU_Study_Phase_2_Scope_Review (C. Alonge):
Mr. Alonge gave a presentation regarding this issue and indicated this is a follow-up item from the Phase 1 study which includes slight scope change. Three primary topics that were included in this presentation are 1) Background & Motivation 2) LFU Phase 2 Study Scope 3) Phase 2 study timeline. Furthermore, additional scope that includes some work on Load Shapes is anticipated to be shared with the ICS in July. The draft whitepaper will be released in November 2021.

9. Draft Sensitivity list – G. Drake

- Mr. Drake presented the Preliminary 2022 IRM Study – Sensitivity Cases to the ICS. This document contains a table that provides the list of cases.
 - The table was constructed to compile the works and reasons why they were done. It contains a list of ten topics/cases that were discussed during the past couple of months. Mr. Drake is looking for comments from ICS and indicated this list can be adjusted as needed.
 - For case 8, Mr. Gilbraith will check the status of Neptune project and will report back to the ICS in the next meeting

- Mr. Younger suggested some changes to the scope of case 10. Basically, the conditions in 2024 and 2023 to be studied. This recommendation was accepted.

10 NYSRC Goals Draft – B. Shanahan

- Mr. Shanahan walked through the goals from the goals that EC would like to get some comments from each committee. Several of these goals are directly related to the ICS. Mr. Shanahan requested the ICS members to provide him some feedback by the end of next week. He will also circulate the comments that were discussed during the meeting today to the ICS.

11 Additional Agenda Items

- The ICS discussed potential in-person meeting. It was indicated that the NYISO won't plan to resume in-person meetings at least until September. At this point, no firm date for the in-person ICS meeting was set but it is anticipated that it could resume in Q4, 2021.

Next Meeting

Meeting #248 – Wednesday June 29th, 2021, 10 am – Telephone Conference