

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #246 – May 5th, 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 Wentlent (Municipals & Electric Coops).....	<input type="checkbox"/>	<input checked="" 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"/>
Alan Adamson (Consultant)	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>
Alan Ackerman (CES).....	<input type="checkbox"/>	<input type="checkbox"/>
Chris Gloria (Con Edison)	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>
Richard Quimby (DPS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Liam Baker (Eastern Generation)	<input type="checkbox"/>	<input type="checkbox"/>
Brian Krall (East Coast Power & Gas)	<input type="checkbox"/>	<input type="checkbox"/>
Matt Cinadr (E Cubed)	<input type="checkbox"/>	<input checked="" 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"/>
Aaron Markham (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ben O’Rourke (NYISO)	<input type="checkbox"/>	<input 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 checked="" 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 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"/>
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 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 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 checked="" 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 type="checkbox"/>
Julia Popova (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Michelle D'Angelo (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 checked="" type="checkbox"/>
Ryan Patterson (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sadhana Shrestha (Unknown)	<input type="checkbox"/>	<input 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

- Chair Brian Shanahan called the NYSRC ICS meeting to order at 10:00 A.M. on May 5th, 2021.

3. Approval of Minutes for Meeting #245 – B. Shanahan

- The Meeting Minutes for Meeting #245 was approved.
- A request to include page number in the meeting minutes was received. Mr. Shanahan confirmed that future ICS meeting minutes shall include page numbers.

4. Review of Action Items List – B. Shanahan

- Mr. Shanahan walked through the action item list (list of action item has been posted on the meeting webpage).
- Item 197-1 has been completed and will be removed from the list.
- Item 233-1
- Item 242-1
- Item 244-1 will be presented in the next meeting.

5. New Metrics paper from RAWG – A, Adamson, C. Wentlent

- Chris Wentlent and Alan Adamson provided the update regarding the Resource Adequacy metrics and their applications report.
- This is an ongoing effort led by the NYSRC Resource Adequacy Working Group (RAWG) to consider the values of other reliability metrics for measuring reliability risks in NYSRC probabilistic studies. It explores the uses of metrics used in the US and other countries (Europe and Australia). The first report was published in 2020 and three metrics (LOLE, LOLH and EUE) were identified as the possible application. In this report, these metrics were further evaluated.
- The latest report recommended that the LOLH and EUE should be used alongside the LOLE when evaluating IRM and Resource Adequacy. It also recommended that these metrics to be incorporated in all MARS studies. Furthermore, it also suggested the following activities:
 - Continue to monitor the work NPCC and NERC are doing regarding the RRMS
 - Encourage the NYISO to use the LOLH and EUE in the RNA and other planning studies, especially the studies that are related to the CLCPA. In addition, the NYISO should share the results with the NYSRC.
 - Continue the dialogue with the NYISO
- There were some concerns and comments raised by Ms. Hogan and Mr. Younger regarding the uses of new indices. Mr. Wentlent indicated this work is still in progress and these concerns will be considered and addressed later.

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

- Mr. Gilbraith informed the ICS that the updated MARs version will be used in the next study. The NYISO has been running this version successfully. However, there might be the need to adjust the ELR models for the future study. Overall, it looks like it is ready to be recommended for approval for the future study.

7. Updates to the 2022 Preliminary Case Assumptions

- The draft 2023 Preliminary Base CASE (PBC) Matrix – K. Osse
 - Mr. Osse indicated that several changes were made to the assumption's matrix. The summary of the latest assumptions is shown in the document.
 - There were several questions regarding the information in the last column of the table in the document. Particularly, the availability of some information and how it was incorporated in the tables. Mr. Osse clarified that additional information was added based on the available information such as the gold book.
 - The information in the last column is still missing for many items. More data will be available later, and these blanks will be filled.
 - Mr. Younger has a question if the ISD of the NY Public Policy project is still June 2022. Mr. Gilbraith confirmed it correct is and the NYISO reports the ICS if they is any change.

- 2022-2023 IRM Proposed MARS Topology Updates – K. Osse
 - Mr. Osse presented this topic to the ICS which focuses on the review of RNA updates. Overall, Dysinger East and West-Central transfer limits have been increased and, preliminary, the transfer limit between the IESO and Zone D could increase by 150 MW.
 - Ms. Hogan would like to confirm the limit of the interface that was mentioned on page 4 of the presentation. It has been clarified that the limit is 300 MW.

- Generation changes for 2021-2022 for model inclusion – Y. Huang
 - Ms. Huang presented list of generators that are eligible to be included in the study. This information was presented in 2 documents that were posted on the ICS meeting page. The first document contains list of generators from the Good Book but not included in the interconnection queue (item 7.3 a). The second document shows generators from the interconnection queue (item 7.3b).
 - The last column of each table shows the recommendation for the next step based on the results from screening. Modeling status of each generator was recommended as either Not Included, Included, or Detailed Review.
 - Mr. Younger suggested two recommendations to the NYISO. First, the generator list can be condensed since the current format is too long. Second, using the customer registration for the screening tool may not be appropriate and other approach should be used. The discussion regarding is issue is still pending. At this point, the NYISO would like the ICS to focus on the list of generators being presented in this meeting where 7 projects were recommended to be included or go through the detailed review. In addition, the NYISO will provide additional updates regarding the status of the generators that will go through detailed review. The NYISO anticipates it will seek the ICS approval soon.
 - At the end, Mr. Gilbraith also suggested the ICS to continue the discussion regarding potential improvements of the methodology to determine the resources that should be modeled.

8. First ICS annual report – G. Drake

- Mr. Drake provided an update regarding the NYSRC 2020 Installed Capacity Subcommittee Report. In general, the revised document has incorporated all the comments that have been received. The document was approved by the ICS.

9. White Paper Progress Updates – B. Shanahan

Mr. Shanahan led the discussion regarding the updates of these white papers.

- 9.1 High Renewable Phase 2 Results Summary: Mr. presented some revisions regarding the UCAP as well as presenting the updated study results. There were several questions from the ICS such as the availability of data for the assumptions, utilization of LOLH and LOLE. Mr. Ciani responded to most of the questions or will follow-up with the group later. Currently, the work to create this white paper is ongoing.
- 9.2.1 Summary of Questions regarding the Transmission Security Limits: Mr. Drake presented a summary of questions to the ICS, particularly for the significant questions. Mr. Gilbraith also suggested the ICS to go through this document since some questions might have been addressed already.
- 9.2.2 Transmission Security Limits in NYISO Capacity Markets: Mr. Markham gave a presentation regarding this topic which outlines the scope of the NYISO studies. Mr. Drake raised a question whether the DMNC is used in security analysis which Mr. Markham will confirm. Mr. Younger also suggested he would like to see the table on page 8 to include the constraints used in transmission security analysis conducted by the NYISO planning department. In other words, the primary comment is the group would like to see the consistency among the NYISO studies. Mr. Markham agreed to put together a comparison and will share with the ICS later. In addition, Mr. Cinadr also requested the boxes on page 8 to be rearranged to show things that are relevant. Mr. Markham also agreed to make such modifications.
- 9.2.3 Proposed mechanism to implement a TSL in the IRM Tan45 process: Ms. Guo presented the updates to the ICS. Several clarifying questions were raised by the participations and they were answered by Ms. Guo. No action item for this white paper.
- 9.2.4 Implement a TSL in the IRM Tan45 process: Ms. Guo presented the initial results to the ICS. There were some discussions regarding the need to revise the value of the TSL to 93.49% but it was determined it is not needed.
- 9.3 Energy Limited Resource Modeling White Paper: Ms. Huang walked through the contents of this white paper. GE also contributed to this work and its representative also participates in this ICS meeting and will be available for any questions. A question was raised by Mr. Drake whether the status of this white paper should be open or completed since the work is still ongoing? It was agreed that it should be considered completed but it could be revised if any changes occur. In addition, it was recommended that a note (disclaimer) should be added to clarify that the work was done based on the current information. At the end, this white paper was approved by the ICS
- 9.4 Load Forecast Uncertainty Modeling: Sensitivity Case: Ms. Guo went through this document with the ICS and it was approved by the ICS.

- 9.5 Operating Reserves Modeled in the IRM Study: Mr. Carlson went through the latest update with the ICS. He also indicated that more results will be presented to the ICS next month.

10 Additional Agenda Items

- Mr. Drake raised a question whether the work to determine the reserve performed by the ISO should be included in the scope of the ICS work? Mr. Shanahan confirmed it should be included.
- Mr. Shanahan also seek some input from the group regarding what is the most significant things regarding the TSL discussion? In general, the group feels the issue around the discrepancies among several processed at the NYISO is the most important.

Next Meeting

Meeting #247 – Wednesday June 2nd, 2021, 10 am – Telephone Conference