

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #261 – June 01, 2022
Microsoft Teams**

Attendees **Present** **Phone**

Members / Alternates:

Brian Shanahan (National Grid) ICS Chair	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Noor Leghari (NYSEG/RG&E) ICS Vice Chair / Secretary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rich Bolbrock (Unaffiliated)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clay Burns (National Grid).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ruby Chan (CHG&E).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sanderson Chery (Con Edison).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
John Cordi (NYPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mark Gaines (NYSEG/RG&E).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Howard Kosel (Con Edison).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mike Mager (MI)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chris Wentlent (MEUA).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mark Younger (Hudson Economics)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Khatune Zannat (PSEG LI)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Advisers/Non-member Participants:

Alan Ackerman (CES).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
John Adams (ICS Consultant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
David Allen (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ethan Avallone (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samantha Bergami (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Josh Boles (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mitch Braun (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Andrea Calo (CES)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ryan Carlson (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jie Chen (Potomac)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Grant Flagler (Con Ed Energy)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ricardo Galarza (PSM Consulting)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ying Guo (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Karl Hofer (Con Edison).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Erin Hogan (UIU)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Yvonne Huang (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gary Jordon (ICS Consultant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tim Lundin (LS Power)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Randy Monica Jr. (DPS).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Matthew Napoli (Con Ed Energy)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Scott Nevins (DPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Otito Onwuzurike (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ben O'Rourke (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kevin Osse (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carl Patka (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Julia Popova (NRG).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Richard Quimby (DPS).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Syeda Lubna (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sushil Silwal (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Benjamin Cohen (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zachary Stines (Borrego)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gary Will (Unknown).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1. Roll Call – N. Leghari

- Roll call was conducted.

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

- No additional agenda items

3. Approval of Minutes for Meeting #260 – B. Shanahan

- Meeting #260 -- – B. Shanahan
 - Include First and Last names in the meeting minutes discussion
- NYISO In-person Meeting Requirements – B. Shanahan
 - B. Shanahan discussed the requirements for in-person meeting requirements – RSVP is required
 - Y. Huang – NYISO is prepared

4. Review of Action Items List – B. Shanahan

- 254-1 – Complete
- 255-1 – Complete
- 259-1 - Getting another presentation on load forecast uncertainty

- 257-1 – Place holder for Phase 4 High Renewables
- 259-1 – another presentation on June 29 load forecast uncertainties
- Phase 2 LFU - completed
- Sensitivity 11 and 12 from last year – completed
- Discussed future presentation
- Evaluate uniform versus dynamic load forecast uncertainty factors & Duration/Magnitude of Peak load events

5. Chair update on recent EC actions – B. Shanahan

- EC agrees with ICS approach – prefer sensitivity in new load shape rather than in the preliminary Base case the updated new load shape. This is approach recommend by NYISO

6. ICS Reviews Initial IRM Assumptions Matrix – K. Osse

- No new thermal generation for PBC
- No new solar and no new Battery
- Emergency operating procedure discussed
- EC also accepted the 350 MW assumption changed

6.1. Proposed Topology Change - Y. Guo

- NYISO is proposing update the topology for 2023 - 2024 IRM study
- Questions were asked regarding The Central East forward limits based on the derate due to Porter - Rotterdam (30 & 31) being out of service
- Transfer limit of Neptune cable is proposed to be restored to full capability
- Transfer limits with the external systems are also updated
- Y49 outage will reduce Long Island import capacity by 700-800 MWs – Will there be any update on the equipment by fall. ISO will not have any information
- Provide the status to ISO or this group

6.2. SCR Performance Report - M. Braun

- Preliminary SCR model values for 2023 IRM studies
- No fatigue factor at the moment.
- How to adjust the modelling in the future. How to track them
- Going through transition period for demand response.
- For zone K SCR value has decreased by 7%
- Major change would have been 15 to 20%

6.3. New Generation Inclusion Rules - Y. Guo

- Starting 2021, the NYISO adopted a transparent process in screening new proposed generators for recommending inclusion in the IRM model
- M. Younger – EC did not approve interconnected customer registration information for preliminary base cases. Planning department has well developed inclusion rules. We need to tell EC explicitly which generator were eliminated.
- Y. Huang - That is the criteria NYISO proposes
- 4 steps of generation inclusion was discussed

- M. Mager – All of these will be in June 2023. One that are unclear or not in interconnection queue are excluded from the base case
- M. Younger – Need clear presentation about the list and which one was eliminated from the list and why? And why eliminate if they will be in service next year
- Y. Huang - Broader set of data than RNA list. 14 DER and not in interconnection queue and are not in RNA list.
- N. Leghari – TO (AVANGRID) can find if anyone of these 14 DER's are progressing
- NYISO propose to exclude these 14 projects except for one that have started interconnection process
- M. Younger – We should have a presentation from customer service group regarding criteria
- G Jordon – What is the downside to not to include these projects in the Base Case
- M. Younger – downside is all of the project we are getting now might increase IRM and LCR. Will make a difference in precuring less UCAP.
- M. Mager - Goal should be the accuracy of base case avoid major changes in the IRM when EC is about to vote on it.
- Y. Huang – NYISO will make the presentation more clearer regarding projects elimination
- M. Younger – Customer registration process as a screening analysis might be an issue a year ahead
- Y. Huang - There are additional consideration apart from Customer registration process.
- M. Younger – Is ISO going to take these assumptions to the EC next Friday. ISO has to preset in manner that is clear. Inclusion rule.
- NYISO is going to provide spread sheet with additional information.
- C. Patka – what other addition of inclusion can ISO rely upon in determining whether a generator will certain be a capacity supplier in following June.
- M. Younger- We should not present this data to EC next Friday.
- B. Shanahan – ICS and EC not to approve assumption matrix until next month with additional consideration. Assumption matrix needs to be looked by EC

7. High Renewables Phase 3 Updated Results- □ - K. Osse

- Review the High Renewable Phase 3 part-2 study
- ESR are modeled using predetermined charge and discharge shapes
- 6000 MW of ESRs are added after Part 1 in which 27,000 MW of renewable resources were added to the system
- Discharging period for the ESRs is 4 hours
- What is the efficiency of the Battery?
- If you discharge 6000 than it will take more than 6000 to charge it
- Methodology is consistent with white paper so 100% efficiency
- Phase 2 IRM was increased by 18.3% and URM 13%. It was unexpected. NYISO to validate these results.
- Zannat – adjustment factor for ICAP and UCAP
- Adding 6000MW of Battery modelled we can remove 135MW of firm capacity (not providing lot of value the way they are modelled).

- M. Younger – is concerned with the result accuracy. Highlights the need to do additional work how ESR's are modelled in MARS.
- NYISO acknowledges that not good configuration for Battery's using ELR model. Using MARS will provide similar results. Modelling fixed output profile.
- Y. Huang – Lacking a good approach on how to model it.
- M. Younger – Need a better modelling option – Agreed by everyone
- Result of eliminating the Peakers were not presented in part 3.
- Peaker retirements will be included in Part 3 of the study. ESRs are expected to be more beneficial when the penetration of thermal resources is reduced
- M. Younger – He understands that there were 3 parts to the study, Add renewable, Add Battery and remove Peakers.
- Y. Huang - Retirement of Peakers is the last step
- Report is ready and will come out before next ICS meeting
- K. Osse - Need more investigation that benefit is going else where instead of NYCA

8. Preliminary List of 2022 IRM Sensitivity Cases – R. Carlson

- Discussed IRM Impacts of Key MARS Study Parameters
- Discussed IRM Impacts of Base Case Assumption Changes
- Gary Jordan – Item 4. Question about no wind only or no wind or solar
- Its only wind

9. Preliminary Parametric Results To date - R. Carlson

- 4 cases of which 2 cases have no impacts.
- Results are reasonable considering change in parameters
- C. Wentlent – Thermal outage rates. What was the difference in the outage rates? Are thermal outage rates in all zones
- NYISO will takes it back and answer
- R Carlson - Average levels thermal outage rates become less reliable. Shift happens in all zones

Next Meeting

Meeting #262 – Wednesday, June 29, 2022, 10 am – at NYISO, Krey Blvd, Rensselaer, NY