Draft Minutes

New York State Reliability Council - Installed Capacity Subcommittee (ICS) Meeting #260 - May 04, 2022 Microsoft Teams

Attendees	Present	Phone
Members / Alternates:		
Brian Shanahan (National Grid) ICS Chair	⊠	
Noor Leghari (NYSEG/RG&E) ICS Vice Chair / Secretary	⊠	
Rich Bolbrock (Unaffiliated)		
Clay Burns (National Grid)		
Ruby Chan (CHG&E)		
Sanderson Chery (Con Edison)		
John Cordi (NYPA)		
Ayman Elkasrawy (NYSEG/RG&E)		
Jim Kane (NYPA)	⊠	
Howard Kosel (Con Edison)		
Mike Mager (MI)		
Chris Wentlent (MEUA)		
Rich Wright (CHG&E)		
Mark Younger (Hudson Economics)		
Khatune Zannat (PSEG LI)		
Advisers/Non-member Participants:		
John Adams (ICS Consultant)		
Leen Almadani (CHG&E)		
Josh Boles (NYISO)		
Andrea Calo (CES)		
Ryan Carlson (NYISO)		
Jie Chen (Potomac)	⊠	
Michelle D'Angelo (Con Edison)	⊠	
Grant Flagler (Con Ed Energy)	⊠	
Kenneth Galarneau (Rise Light & Power)	⊠	
Ricardo Galarza (PSM Consulting)	⊠	
Ying Guo (NYISO)		

Karl Hofer (Con Edison)
Yvonne Huang (NYISO)
Riaz Khan (NYISO)
Tim Lundin (LS Power)
Randy Monica Jr. (DPS)
Pallavi Jain (NYISO)
Scott Nevins (DPS)
Otito Onwuzurike (NYISO)
Ben O'Rourke (NYISO)
Kevin Osse (NYISO)
Carl Patka (NYISO)
Keegan Guinn (NYISO)
Madeline Mohrmad (NYISO)
Laura Popa (NYISO)
Julia Popova (NRG)
Benjamin Cohen (NYISO)
Sushil Silwal (NYISO)
Dylan Zhang (NYISO)
Syeda Lubna (NYISO)
Kathleen O'hare

1. Roll Call - N. Leghari

• Roll call was conducted.

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

• Josh Boles announced that Yvonne Huang has accepted the position of Manager, Resource Adequacy.

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

- Concern were raised regarding very less level of details in the meeting minutes #259
- Brain suggested that only Action items, Capturing key points, Significant recommendations or key objections should be included in the meeting minutes.

4. Review of Action Items List - B. Shanahan

- 220-1 Tracking of what kind of load reduction TO have
- 249-17 Complete

- 254-1 Discussion in today's meeting
- 255-1 Discussion in today's meeting
- 257-1 Scope out early next year
- 259-1 More discussion needed later this year
- Current White Paper Topics (For 2023 IRM Study) were discussed
 - Load Forecast Uncertainty / Load Shape selections (Phase 2) and Study of 2022
 Sensitivity #11 & #12 (GT retirements and AC Transmission Upgrades) were complete
 - Maintaining Operating Reserves and High Renewable Phase 3 were complete
- Model Improvement work in 2022 were discussed
 - Evaluate uniform versus dynamic load forecast uncertainty factors & Duration/Magnitude of Peak load events How we use them and its effects on IRM Ongoing

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

• No EC action that impacts ICS

6. ICS Reviews Initial IRM Assumptions Matrix -2 - K. Osse

- Gary sent it day before meeting.
- To be approved on June 29th meeting instead of June 1st.
- Load shapes still using 2006, 2002 and 2007
- Gen model updated, removed deactivation 1265 MW. Internal new gen screening process
- Concern were raised regarding the forecast
- Absent of inertia issue was raised
- Josh Safest approach is to not include new load shape in base case. Sensitivity be done with new load shape. Decision to make in September.
- Yvonne using new load shapes might delay the preliminary base case timeline which could delay all the other sensitivities
- Delay the completion of base case time line.
- Rich Bolbrock and Mark Younger were supportive of including the new Load Shapes into the Preliminary Base Case vs in a Sensitivity.
- Everyone else was in agreement with NYISO's recommendation to use the new Load Shapes as a Sensitivity and then adopt the Sensitivity into the Final Base Case if results look reasonable
 - The existing load shape do not have load peaking at the right hour because of behind the meter solar.
- Mr. Leuthauser (HQ rep) supported Mark Younger's idea to include the new Load Shapes in the PBC, vice used as a sensitivity
- Brian Shanahan suggested to discuss both approaches in the EC meeting.

7. ICS Decision - Use of new ELR Model in 2023 MARS Model - 2 - Y.Guo High Renewable Phase 3 Study Draft Report 2 - K. Osse

7.1. Use of new ELR Model in 2023 MARS Model

- Study background was given
- Sensitivity cases using the GE ELR functionalities with the TC4C configurations were Used

- The IRM reduced by ~1% and lowers the EOP activations by ~15 calls/year.
- The plan for the 2023-2024 IRM is to adopt the enhanced GE ELR functionalities to model the ELR units in the base case.
- Results were discussed and the recommendation were given
- · Work with GE to complete the modeling enhancement
- Conduct a special sensitivity case with the ELR units modeled using the pre-determined output profiles
- Josh they will continue investigating the changes like including west central reverse limit flow. Next couple of months there might be new EOP limit.
- Mark concerns for underlying issues that are not captured in the base cases
- Brian ICS will use enhanced GE ELR functionalities to model the ELR units in the base case
 and brain will follow up to get a better sense for ELR improvement. ICS is confident in TC\$C
 model in the preliminary base cases.

7.2. High Renewable Phase 3 Study Draft Report

- First portion of the Phase 3 study 27,000 MW of hypothetical renewable resources were added to the 2022 IRM FBC with internal NYCA transmission constraints removed.
- Results in Phase 3 study are based on parametric comparisons
- Increasing renewable resources, the ICAP required to maintain the system LOLE at the 0.1 criterion increases
- UCAP for the NYCA also increases with higher renewable resources.
- Discussion regarding the increase in ICAP and UCAP Reserve Margin based on the assumption of 27000 MW renewable capacity
- Concerns were raised against modeling regarding winter peak
- Gary concern was raised- when 1000 MW was removed, the risk with it is in July/August or all year round
- Mark FBC should run without the transmission constrain to translate between FBC and Part1. ISO has run that and they will include that column.
- Might be worth to look at winter peaking system.
- Brian move cautiously forward. Introduce the changes in next couple of year. See the results of peaker retirement.
- Next step inclusion of 6000 MW of battery and including 1600 MW peaker. Including this in the next white paper.

8. Whitepaper/Study Final Results of 2022 Sensitivity #11 & #12 (GT retirements and AC Transmission Upgrades) 2 – R. Carlson

- ICS requested to run TAN 45 cases with AC Transmission in service and Peaker retired
- These assumptions are a projection of future conditions and likely will change between now and the time when actual IRM and LCR values are calculated
- Lowering of the G-J TSL by 10%. IRM reduced by 0.5% in all cases
- Mark strongly support revised analysis. ignore the previous result with higher TSL
- Additional results were discussed
- NYISO Disclaimer was read out regarding study assumptions.

• Brian – Closing this topic.

9. Load Forecast Uncertainty Model for 2023 IRM - 2 - C. Alonge

- Summer and winter LFU value 7 load levels
- Mark concern that 2021 showed much less sensitivity to temperature than previous year that might bring down result
- LFU models were developed using summer data from 2018, 2019 and 2021. A single year model with only 2021 data was also developed. Weekends and holidays were excluded.
- Concern was raised about the reversal of trends
- Sensitivity study should be done for how much difference from last year to this year. This could have real world implication for IRM
- how much change in methodology from 2 yrs to 3 yrs
- NYISO response is that NY did not get 80 90 percentile weather since 2013
- Mark suggested use more years of data. if this is not capturing year to year change of weather sensitivity then it might not be correct
- ISO This is the best estimate of the correct load response to weather changing
- Summary of Different LFU values were presented
- Using more weather year offers more stability

10. Update on Maintaining Operating Reserves during Load Shedding Events White Paper Study Results Discussion (White Paper) − 2 - Y Huang

- NYISO proposes to maintain a level of operating reserves during load shedding event
- The NYISO recommends maintaining 350 MW of 10-minute OR at the time of load shedding in the 2023-2024 IRM study
- The IRM increased by about 1%~3%
- Mark raised concern that what if big unit going out in that 10 min period
- Calculation is performed on net load basis. Load minus solar and wind
- mark Is there already a periodic plan to do underlying analysis
- NYISO refresh the regulation study in next couple of years
- Brian ICS approves using 350 MW
- NYISO will calculate the exact IRM % number
- Level of detail provided regarding allocation of 350 mw
- NYISO will model this in preliminary base case an run sensitivity without 350 MW
- After this NYISO will review study assumption next steps. Additional analysis schedule in next few years.

Next Meeting

Meeting #261 - June 1, 2022, 10 am - Microsoft Teams