

Draft Minutes
New York State Reliability Council
Installed Capacity Subcommittee
Meeting #212 – October, 3 2018
NYISO Corporate Center, Rensselaer NY

Attendees

Present Phone

Members / Alternates:

Rich Wright (CHG&E)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ruby Chan (CHG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Akim Faisal (CHG&E)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dmitriy Kiselev (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Howard Kosel (Con Edison) ICS Vice Chair/Secretary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sanderson Chery (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Khatune Zannat (PSEG LI)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lubaba Islam (PSEG LI)	<input type="checkbox"/>	<input type="checkbox"/>
Mariann Wilczek (PSEG LI) ICS Chair	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Richard Brophy (NYSEG-RGE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Cordi (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mark Younger (Hudson Energy Economics, LLC – Wholesale Sellers)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chris Wentlet (Municipals & Electric Coops)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Mager (Couch White – Large Consumers)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clay Burns (National Grid)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Advisers/Non-member Participants:

Al Adamson (Consultant)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Adams (Consultant)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ricardo Galarza (PSM Consulting)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Scott Leuthauser (HQUS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Akm Saijadul Islam (NYDPS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alan Ackerman (CES).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Greg Drake (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kai Jaing (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dana Walters (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Josh Boles (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frank Ciani (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ryan Carlson (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
David Allen (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nate Gilbraith (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emilie Nelson (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steve Lemme (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mike Welch (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Ken Galarneau (Direct Energy).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Erin Hogan (DOS)	<input type="checkbox"/>	<input type="checkbox"/>
Richard Quimby (NYDPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Hall (NYSERDA).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dan Mahoney (NYPA)	<input type="checkbox"/>	<input type="checkbox"/>
Matthieu Plante (HQUS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brian Shanahan (National grid).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Betty Watson (Tesla).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1. Introduction

Chair Wilczek called the NYSRC Installed Capacity Subcommittee meeting to order at 10:00 a.m. on October 3, 2018.

2. Approval of Minutes for Meeting #211

The meeting minutes were approved.

3. Review Action Item List

ICS reviewed the Action Item list, no changes were made.

4. Review of ICS Tasks

4.1. Fall Load Forecast

Arthur Maniaci presented the updated fall load forecast to ICS. The table below summarizes the updated load forecast for the IRM study and the changes compared to the Preliminary Base Case:

Comparison of Load Forecast Used in IRM Cases (MW)	NYCA	NYC	Long Island
2018 Final Base Case	32,868	11,541	5,445
2019 Preliminary Base Case	32,857	11,474	5,323
2019 Final Base Case	32,488	11,585	5,346

ICS approved the fall load forecast.

4.2. Final Base Case Assumptions Matrix

Greg Drake provided an update to the 2019 IRM assumptions matrix. Changes of note included the Ontario to Zone D limit being reduced from 300 MW to 150 MW to reflect the Line 33 PAR being out of service, the B & C feeders transfer capability being reduced to 0 MW to reflect the ongoing outage and SCR values reflecting the updated performance adjustment factors. ICS approved the assumptions matrix for the final base case.

4.3. 2019 IRM Parametric Study and Preliminary Tan 45 Results

Greg Drake provided updated results for the proposed sensitivity cases performed on the preliminary base case. The preliminary base case resulted in a 16.9% IRM, 79.2% NYC LCR and 100.7% LI LCR. GE and the TO's finished their review of the preliminary base case and found no major issues.

4.4. 2019 IRM Study EFORD Charts

Nate Gilbraith provided an update on changes to be made to the EFORD charts in the IRM study. The changes aim to align the data to what is used in the final IRM study which will include all internal NYCA generation, not just thermal units, and the zonal groupings will be aligned with the actual capacity zones. The report will change the verbiage from EFORD to derating factor since it now includes wind, hydro and solar resources whose credit for the capacity market is based on actual operations during specific periods of the year. A note will be added to the report explaining the changes from previous IRM studies.

4.5. External Modeling Recommendation

As discussed at ICS meeting #211 the update to the external area model resulted in significant reductions in the NYCA IRM and raised concerns as to why the changes occurred. NYISO and John Adams presented some options to address the issue which included making each external area meet their LOLE criterion and have reserve margins not exceed the requirements that are set during the control areas own studies, adding load to the external areas in proportion to generation rather than load when bringing them to criterion or to keep the 2018 IRM study external assumptions and investigate the issue further in 2019. Howard Kosel raised concerns that having each external area meet their reliability criterion and reserve margin is not a valid approach since the external areas each conduct their own analysis very differently and are not applicable when conducting the NYCA IRM (i.e. internal constraints, removal of EOP's etc.). ICS

members decided it was prudent to keep the 2018 external model and study the issue in more detail in 2019.

4.6. Valuing Capacity for Energy Limited Resources

Wes Hall presented findings from GE's study evaluating the capacity value of energy limited resources with various penetrations, duration and persistence. The study showed that resources reach 100% capacity value between 8-16 hour durations, the higher the penetration the longer the duration must be to reach 100%, 10-25 day persistence is needed to reach 100% capacity value and that diversity in scheduling resources (in smaller block sizes) increases the capacity value. The NYISO will use the results of the study to determine capacity credit for varying duration energy limited resources. The full report can be found on the NYRSC website by following the link below:

<http://nysrc.org/pdf/MeetingMaterial/ICSMeetingMaterial/ICS%20Agenda%202012/09242018%20Capacity%20Value%20of%20Resources%20with%20Energy%20Limitations.pdf>

Prepared by Howard Kosel (Con Edison)

Upcoming meetings:

Meeting 213, Tuesday, October 30, 2018 at NYISO Corporate Center

Meeting 214, Wednesday, November 27, 2018 at NYISO Corporate Center