

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #223 – September 4, 2019
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) ICS Vice Chair/Secretary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dmitriy Kiselev (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Howard Kosel (Con Edison) ICS Chair	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sanderson Chery (Con Edison)	<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"/>
Richard Brophy (NYSEG-RGE).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Cordi (NYPA)	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>
Clay Burns (National Grid).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Advisers/Non-member Participants:

Jack DiOdoardo (CHG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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 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 Jiang (NYISO)	<input checked="" 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"/>
Carl Patka (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
David Allen (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nate Gilbraith (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Steve Lemme (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ken Galarneau (Direct Energy).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Richard Quimby (NYDPS)	<input type="checkbox"/>	<input type="checkbox"/>
Adam Evans (DPS)	<input type="checkbox"/>	<input type="checkbox"/>
Chris Hall (NYSERDA).....	<input type="checkbox"/>	<input type="checkbox"/>
Dan Mahoney (NYPA)	<input type="checkbox"/>	<input type="checkbox"/>
Matthieu Plante (HQUS)	<input type="checkbox"/>	<input type="checkbox"/>
Brian Shanahan (National Grid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Welch (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Zach Smith (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Jim D’Andrea (LS Power).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Max Schuler (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Jack O’Connell (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Hoël Wiesner (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jeremiah Brockway (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rich Bolbrock (NYSRC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1) Introduction

Chair Howard Kosel called the NYSRC ICS meeting to order at 10:00 A.M. on September 4, 2019

2) Minutes for Meeting #222

- Several changes will be made to the meeting minutes
 - Run Tan 45 cases on
 - High renewable sensitivity

- Somerset Retirement
 - Reword “Old method of calculation LCRs to be used for cases x & y”
 - Rephrase to Tan 45
 - Move down to List of Sensitivity Cases
- Will repost Meeting #222 Minutes

3) Review of Action Items List

- Start list of possible white paper topics

4) Renewable Sensitivity Scenario and Assumptions

- Begin with the 2020 IRM preliminary base case
- Add 12,000 MW of renewable resources
 - Consistent with the 2018 IRM sensitivity’s resource locations and output shapes
 - 4,000 MW of on-shore wind
 - 4,000 MW of solar
 - Scaled based on NYSDPS’ projection of wind and solar installation
 - 4,000 MW of off-shore wind, evenly split between NYC and LI
 - GE will provide off-shore wind production shapes (5 years) for interconnection locations near NYC and LI
 - Total losses of 11.5% from off-shore site to POI
 - NYISO will be posting the 8760 off shore wind shape
- Data that is available: 5 years of on-shore wind, 1 year of PV and 6 years of off-shore wind that GE modeled
- Calculate an IRM for the high renewable sensitivity using the Tan 45 method
- A white paper on results of high renewable penetration on IRM will be prepared in the November timeframe

5) SCR test vs. Event Performance Data

- **Event & Test data vs Event data only**
 - Both Event & Test data and Event data only included 20 event hours for Zone A to 64 event hours for Zone J
 - Event & Test data included 13 Performance test hours
 - Event data only
 - Did not include the 13 Performance test hours in the analysis
 - Decreases the Zonal Performance Factor in all zones compared to current Event & Test methodology
 - Minimal impact on ACL to CBL Translation Factor
 - 5% decrease in Effective Performance Factor when using Event data only vs current Event & Test methodology
- NYISO’s recommendations
For 2020 IRM Analysis

- Use current approach using Event & Test data for calculation of Zonal Performance and ACL to CBL Translation Factors
- Run a sensitivity study using the Event data only to assess impact

6) Updated 5-year Wind and Run of River Posting

- Raw data is available and posted
- Unable to post raw data by zone since some zones have less than three resources; if only two resources, then one owner would be able to determine the other owner's resource

7) Parametric and Preliminary Tan45

- ICS requesting EC approval of the preliminary IRM base case results
 - Preliminary IRM = 18.6%
 - Preliminary Zone J LCR = 83.9%
 - Preliminary Zone K LCR = 102.3%
 - Preliminary G-J LCR = 98.0% (Informational Only)
- Parametric IRM Impact Comparison – 2019 IRM Study vs 2020 PBC IRM Study
 - 2019 IRM Study – Final Base Case: 16.7%
 - Biggest impacts to the IRM
 - Summer LFU +1.2%
 - External Areas Replacement +0.7%
 - Topology -0.6%
 - 2020 IRM Study – Preliminary Base Case: 18.6%

8) GE Quality Assurance Review

- No material issue with the database
- GE suggested NYISO review a few things (e.g., interface ratings)
- Sent the case for GE to mask; once masked, the case will be sent to the TOs

9) Future White Papers and Policy 5 Changes

Possible list of topics

- Using the new GE ELR methodology for SCR and test the new MARS functionality
- With the increase in Load Forecast Uncertainty from PV, is there a way to PV normalized load?
- How to model all the new technologies (e.g., battery, DER, SCR)?
- How to handle change in study year?
- Updating the external area – how to simplify the outside world?

Meeting #224 – Wednesday, October 2, 2019 at 10 am – NYISO Corporate Center - Krey Blvd, Rensselaer, NY