

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)  
Meeting #222 – July 30, 2019  
NYISO Corporate Center, Rensselaer NY**

**Attendees**

	Present	Phone
<b>Members / Alternates:</b>		
Rich Wright (CHG&E) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ruby Chan (CHG&E) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Akim Faisal (CHG&E) <b>ICS Vice Chair/Secretary</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dmitriy Kiselev (Con Edison) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Howard Kosel (Con Edison) <b>ICS Chair</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sanderson Chery (Con Edison) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Khatune Zannat (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 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"/>
<b>Advisers/Non-member Participants:</b>		
Al Adamson (Consultant) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Adams (Consultant) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ricardo Galarza (PSM Consulting) .....	<input type="checkbox"/>	<input checked="" 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 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"/>
David Allen (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Nate Gilbraith (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steve Lemme (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>
Ken Galarneau (Direct Energy).....	<input type="checkbox"/>	<input type="checkbox"/>
Richard Quimby (NYDPS) .....	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>
Zach Smith (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>
Jim D’Andrea (LS Power).....	<input type="checkbox"/>	<input type="checkbox"/>
Max Schuler (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jack O’Connell (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoël Wiesner (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**New Participants:**

**1. Introduction**

Chair Howard Kosel called the NYSRC ICS meeting to order at 10:00 A.M. on July 30, 2019.

**2. Approval of Minutes for Meeting #221**

- The meeting minutes were approved.

**3. Review Action Item List**

- Roger Clayton (EC) asked to track public appeals for EOP as an action item.
- Mr. Younger requested to determine if any of LIPA’s 80 MW EOP were already active due to Cuomo’s order.

**4. SCR Performance (J. Brockway)**

- First half of the presentation was covered
- This presentation talks about updated SCR values for IRM based on July enrollment.
- Based on July enrollment, the Final SCR values were presented.
- Total MW enrolled 1,281.9 MW
- Final model value: 872.4 MW (68.2% performance factor)
- The updated values above were used in the parametric analysis
- No significant change in effective performance factors since 2019 IRM studies.

**5. Load Forecast Uncertainty (M. Schuler)**

- LFU presentation by M. Schuler
- 2020 LFU comparison with 2018 models for the Summer period
  - Comparison of 2018 models show changes in the LFU multiplier resulting in potential IRM changes.

- Years 2013, 2016, 2018 experienced above normal weather.
  - Months: June – September (Weekdays and no holidays)
  - 3<sup>rd</sup> order polynomial curve fit
  - Differences in LFU models for different NYCA zones were discussed and presented.
  - One NYCA model for Winter based on 2017/18 and 2018/19
    - Months December - February
    - 2<sup>nd</sup> order polynomial
    - Weekdays only (no Holidays)
- 6. Summer Maintenance (J. Adams)**
- 2018 summer maintenance analysis used for 2019-20 IRM study.
  - Daily summer peak loads greater than 28,000 MW
  - In 2018 - 24 daily peak loads above 28,000 MW
  - Summary of maintenance de-rates, planned outage, maintenance outages, etc.
  - 40 out of 63 maintenance events reported occurred in Zones J & K.
  - Recommendation: Summer maintenance at 50 MW and distributed in 2019-2020 IRM study in Zones J & K – 25 MW in each zone.
- 7. EFORD Update (J. O'Connell)**
- Presentation by Jack O'Connell on Updated EFORD Figures in the IRM Assumption Matrix
  - EFORD values increased slightly except in Zone K
  - IRM increased slightly due to the increase in EFORD.
- 8. Parametric Study Results (N. Gilbraith)**
- Summary of parametric study and impact on IRM was presented.
    - 2019 IRM Final Base Case: 16.7
    - Summer LFU resulted in an increase of 1.077 in IRM values
    - Current Parametric Result: 17.7
    - Topology reduces IRM by -0.608
    - Old method of calculation LCRs to be used for cases x & y
  - Feedback from GE
    - Differences in 2019 and 2020 results could be due to difference in the start day of the year (e.g., Tuesday for 2019 vs. Wednesday for 2020). Also may be impacted by 2020 being a leap year which added another day to the simulation.
    - Workaround would be to “freeze” the case start day at study year 2019.
- 9. List of Sensitivity Cases – ICS Approval (H. Kosel)**
- Review of sensitivity cases
  - Two additional cases will be added to the sensitivity cases
    - Case #10: Model EDR from HQ to NY
    - Case #11: IP unit #3 retirement
  - For informational purposes only an Offshore wind case will be studied
    - will be a separate report from IRM sometime in Sep/Nov time frame
    - Executive committee will look further into this as a future study case and will provide more details on this topic.
  - ICS approves the sensitivity cases for 2020 IRM study
- 10. Renewable Sensitivity Scenario Assumptions (Hoël Wiesner)**
- High penetration of renewables
    - Begin with 2020 IRM base case
    - 4,000 MW of on shore wind, 4,000 MW of solar, 4,000 MW of off shore wind split between NYC and LI. Total of 12,000 MW of renewables across NYCA zones.

- Wind Tool Overview by GE
  - NREL wind tool kit uses a six historical wind years
  - Hourly wind profile
- Output offshore wind characteristics will be discussed on 8/15 call
- This sensitivity case will be performed in parallel with 2020 IRM sensitivities.

**11. 2020-21 IRM Study Assumptions Matrix – Update** (N. Gilbraith)

- 2020 Model Assumptions values updated in the Assumptions Matrix

**12. 2020 Meeting Schedule** (A. Adamson)

- 2020 ICS schedule released

**13. Additional Agenda Items**

**Other Discussions:**

- Ruby Chan (Central Hudson) will transition to ICS Vice Chair role effective 8/1/2019
- ICS Call: August 15, 2019 10 AM

*Prepared by: Akim Faisal, Central Hudson ([AFaisal@cenhud.com](mailto:AFaisal@cenhud.com))*

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**Upcoming meetings:** Meeting 223, Wednesday, September 4, 2019 at NYISO Corporate Center