

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)**

**Meeting #217 – February, 26 2019**

**NYISO Corporate Center, Rensselaer NY**

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**Attendees**

**Present    Phone**

**Members / Alternates:**

Rich Wright (CHG&E) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ruby Chan (CHG&E) .....	<input 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 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 type="checkbox"/>
Khatune Zannat (PSEG LI).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lubaba Islam (PSEG LI) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mariann Wilczek (PSEG LI) ICS Chair.....	<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>
Scott Leuthauser (HQUS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Akm Saijadul Islam (NYDPS) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alan Ackerman (CES).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wes Yeomans (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>

- Greg Drake (NYISO)..... .....
- Kai Jiang (NYISO) ..... .....
- Josh Boles (NYISO) ..... .....
- Frank Ciani (NYISO)..... .....
- Ryan Carlson (NYISO) ..... .....
- David Allen (NYISO)..... .....
- Nate Gilbraith (NYISO) ..... .....
- Emilie Nelson (NYISO) ..... .....
- Steve Lemme (NYISO) ..... .....
- Ken Galarneau (Direct Energy) ..... .....
- Richard Quimby (NYDPS)..... .....
- Chris Hall (NYSERDA)..... .....
- Matthieu Plante (HQUS)..... .....
- Brian Shanahan (National Grid)..... .....
- Adam Evans (DPS) ..... .....

**New Participants:**

- Peter Dotson-Westphalen (CPower)..... .....
- Jim D’Andrea (LS Power) ..... .....
- Erin Hogan (DOS-UIU) ..... .....
- Rich Gell (Ontario Power Gen) ..... .....

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**1. Introduction**

Chair Howard Kosel called the NYSRC Installed Capacity Subcommittee meeting to order at 10:00 A.M. on February 26, 2019.

**2. Approval of Minutes for Meeting #216**

- The meeting minutes were approved as revised.

**3. Review Action Item List**

- Josh Boles commented on item 190-1: NYISO has been approached by IESO, regarding the current agreements, which only allow capacity to be exported from Ontario to NYCA. IESO has reached out and is interested in making the agreement bi-directional. A new agreement would allow NY capacity to be sold to IESO (export capacity to Ontario).
- Item 197-1: NYISO will provide an update in a future meeting.

### 3.1. 5 versus 10 year EFORD (Ryan Carlson)

- This presentation discussed use of 5 and 10 year average EFORD impacts on IRM but did not present calculated 10 year average EFORD values. 10 year EFORD values were presented to the ICS at the January 2, 2019 ICS meeting (<http://nysrc.org/pdf/MeetingMaterial/ICSMeetingMaterial/ICS%20Agenda%20215/5v10eford.pdf>)
- When 5 year average EFORD has increased, IRM has increased; a 10 year EFORD also would produce a change in IRM.
- NYISO is recommending staying with 5 year EFORD values for the IRM study.
- Mark Younger commented: The presentation did not indicate whether 5 year EFORD data is a good representation. Is the 5 year fluctuation a good representation of future years or just noise and is there a consistency in 5 year data and market trends? Would a 10 year EFORD provide a better representation? This should be looked into.
- Mike Mager Commented: What's a better measure, a 5 or 10 year EFORD for the IRM.
- Nate Gilbraith commented that there were no parametric results to make a comparison of 5 vs. 10 year EFORD and as a result a NYISO adopted a 5 year EFORD.
- Kai Jiang commented: 5 year EFORD is a balancing consideration, using a too long period would place a heavier "weight" on historic values.
- NYISO will keep this as a lower end priority given other ongoing work for this year.
- A motion on this topic was put forward to include a 5 year EFORD for 2020 IRM: ICS agreed to keep the EFORD at 5 years while keeping an eye on potential future comparison with a 10 year EFORD.

## 4. 2020-21 IRM Study

### 4.1. 2020-21 IRM Study Tasks Updates

- 4.1.1. **Energy Storage Modeling** (Ryan Carlson)
  - Two new resources likely to be included in the 2020 IRM base case: two 5 MW/40 MW-Hr. units in Zone K at Montauk, LI and East Hampton, LI.
  - NYISO provided an update on GE's enhancements to MARS ESR model: year/month/day energy storage limits can be specified in the model. NYISO will ask for weekly limits as well (e.g., Gilboa).
  - NYISO will review the new software ESR model capabilities.
  - As a simplified modeling approach while GE develops the update: model ESR as an artificial DSM shape (similar to wind and solar).
  - GE indicated release of ESR functionality by end of January 2019. However, this feature has not yet been released and there is no new release date.
  - NYISO will notify ICS when a new model becomes available and will provide a recommendation on ESR modeling method for the 2020 IRM.
  - NYISO is planning to provide an update on April 3<sup>rd</sup>.
- 4.1.2. **External Area Model Update** (John Adams)
  - NYISO is validating option/case 4 by repeating prior 2 years IRM results.
  - For this year, NYISO will utilize option 4 for the base case for the 2020 IRM and if time permits will explore a simplified approach.
- 4.1.3. **HQ Cedars Upgrade and HQ Wheel** (Frank Ciani)

- NYISO would like to remove Cedars bubble because of the system upgrades and model 80 MW EDR contract in addition to existing 190 MW Emergency Assistance.
- This year NYISO would like to model the wheel, which has not been done in the past
- NYISO will start with the 2019 base case (with Selkirk in service), NYISO will remove the Cedars bubble, perform a Tan 45 to obtain indicative LCRs and import rights. Further, the HQ wheel and 80 MW EDR would be modeled and a Tan 45 performed to obtain indicative LCRs and import rights.
- NYISO will present about 5 different base cases that show the impacts of each of these changes and will make a recommendation for the best model representation of the HQ interface. Currently, 3 base cases with Tan 45/LCR results have been completed to date.
- HQ Wheel modeling scheduled for year 2020 and HQ Cedars scheduled for year 2021.

**4.1.4. DER Integration Update (Kai Jiang)**

- NYISO has started on this work recently and is a long term consideration
- Current DER market rules for participation is on track for implementation during years 2021/2022. Therefore, there are no planned DERs until 2021/2022.
- Al Adamson suggested performing sensitivity on DER integration. NYISO is open to this recommendation and stated they will work on this as the year progresses and try to gain a better understanding of the MW penetration of DERs.

**4.1.5. Load Shape Selection Update (Josh Boles)**

- NYISO is working on developing a schedule/task and will provide an update next meeting.
- Bulk of the work would be performed by NYISO Planning department.
- Josh Boles stated NYISO is open to looking into load forecast uncertainty and scaling impacts on the IRM, only if any parties suggest a valid methodology.
- NYISO clarified the 3 year time frame for developing load shapes: currently NYISO is still at year zero. When NYISO releases a schedule, start of the 3 year timeline will then commence.
- Josh Boles recommended the ICS task list be updated to include a draft timeline for Load Shape analysis for the April 3<sup>rd</sup> meeting.

**4.1.6. Exports to NE Update (Nate Gilbraith)**

- Additional materials will be provided next meeting.

**4.1.7. Public Appeals Update (Al Adamson)**

- Presentation on the EOP at RRS meeting this coming Thursday.

**4.2. Assumptions Matrix Update**

- No updates since the last meeting

**5. NYISO 2019-20 LCR Study Results**

**5.1. Analysis for aligning the 2019 base case IRM to the final IRM (G. Drake)**

- Since NYSRC EC adopted an IRM higher than the technical results, NYISO needs to make an adjustment to the database to capture that change.
- EC established IRM for 2019 at 17% on 12/7/2018
- Per policy 5, NYISO conducted the alignment process and found LOLE to be 0.097 days/year at the established 17% IRM.

- NYISO performed the alignment process for a second time with Selkirk back in service and found LOLE = 0.094 days/year at 17% IRM.

**6. Additional Agenda Items:** None

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

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**Upcoming meetings:**

Meeting 218, Wednesday, April 3<sup>rd</sup>, 2019 at NYISO Corporate Center