

# NYSRC Installed Capacity Subcommittee

Meeting #149

June 25th, 2013

10:00 a.m. – 3:00 p.m.

Meeting Minutes

## Attendees

|  | Present                             | Tel                                 |
|--|-------------------------------------|-------------------------------------|
| Members / Alternates:  |                                     |                                     |
| Mr. Curt Dahl (LIPA) .....                                     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Ms. Polina Adelson (LIPA) .....                                | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Yuri Fishman (LIPA) .....                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Ms. Kathune Zannat (LIPA) .....                                | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Rich Wright (CHG&E) .....                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Mr. Luting Pan (Con Edison).....                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Mr. Gregory Chu (Con Edison), <b>Secretary</b> .....           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Mr. Kelvin Chu (Con Edison) .....                              | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Syed Ahmed (National Grid) .....                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Mr. Bart Franey (National Grid).....                           | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mrs. Patricia Caletka (NYSEG-RGE) .....                        | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Edward Gilroy (NYSEG-RGE) .....                            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. John Tigue (NYSEG-RGE) .....                               | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Richard Brophy (NYSEG-RGE) .....                           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Mr. Robert Boyle (NYPA), <b>Chairman</b> .....                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Mr. Andrea Fossa (NYPA) .....                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Mr. Bradley Kranz (NRG Energy, Inc.) .....                     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Chris LaRoe (IPPNY).....                                   | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Mark Younger (Hudson Energy Economics, LLC.) .....         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Mr. Mark Cordeiro (Municipal Power Agency) .....               | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Mr. Michael Mager (Couch White, LLP), <b>EC Chairman</b> ..... | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Advisers/Non-member Participants:                              |                                     |                                     |
| Mr. John Adams (NYISO) .....                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

- Mr. Peter Carney (NYISO) .....  .....
- Mr. Frank Ciani (NYISO).....  .....
- Mr. Dave Lawrence (NYISO) .....  .....
- Mr. Greg Drake (NYISO).....  .....
- Mr. Bill Lamanna (NYISO) .....  .....
- Mrs. Kathy Whitaker (NYISO) .....  .....
- Ms. Mariann Wilczek (NYISO) .....  .....
- Mr. Steve Lemme (NYISO) .....  .....
- Ms. Erin Hogan (NYSERDA) .....  .....
- Mr. Ed Schrom (NYPSC) .....  .....
- Mr. Nicholas Occhionero (NYPSC) .....  .....
- Mr. Al Adamson (Consultant).....  .....
- Mr. Frank Vitale (Consultant) .....  .....
- Mr. Arthur Maniaci (NYISO) .....  .....
- Mr. Scott Leuthauser (Consultant for H.Q. Services) .....  .....
- Mr. Henry Chao (NYISO).....  .....
- Mr. Howard Tarler (NYISO) .....  .....
- Mr. Wes Yeomans (NYISO).....  .....
- Mr. Paul Gioia (NYSRC) .....  .....
- Mr. Dana Walters (NYISO) .....  .....
- Ms. Donna Pratt (NYISO) .....  .....
- Mr. David Allen (NYISO).....  .....
- Dr. Kai Jiang (NYISO).....  .....
- Mr. Mark Walling (GE) .....  .....
- Mr. Gary Jordan (GE) .....  .....
- Mr. Glenn Haake (NYPA).....  .....

Guests Present:

- Mr. Charlie Shafer (AES) .....  .....
- Mr. Dean Ellis (Dynergy) .....  .....
- Mr. Jim D'andrea (Transcanada) .....  .....
- Mr. Alan Ackerman (Customized Energy Solutions).....  .....
- Dr. Roy Shanker .....  .....

|  |                                     |       |                                     |
|--|-------------------------------------|-------|-------------------------------------|
| Mr. Phil Fedora (NPCC).....                              | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Arvind Jaggi (NYISO) .....                           | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Frank Francis (Brookfield) .....                     | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Tom Patrit (EPS) .....                               | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Ruben Brown (The E Cubed Co.) .....                  | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. John Dalwin.....                                     | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Richard Quimby.....                                  | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Randy Wyett (NYISO).....                             | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. John Dowling (Luthin Associates).....                | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Timothy G. Lundin (Customized Energy Solutions)..... | <input type="checkbox"/>            | ..... | <input checked="" type="checkbox"/> |
| Mr. Norman Mah (Con Edison) .....                        | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Matt Renninger (Energy Curtailment Specialist) ..... | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Ms. Kathy Slusher (SUNY) .....                           | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Rick Roby (Dynergy).....                             | <input type="checkbox"/>            | ..... | <input type="checkbox"/>            |
| Mr. Shaun Johnson (NRG) .....                            | <input checked="" type="checkbox"/> | ..... | <input type="checkbox"/>            |

## 1. Renewable Projects for the Model

Erin Hogan (NYSERDA) said that RPS contracts have not been awarded yet at the time of this meeting. She mentioned that she will separately provide information to the NYISO directly when the information becomes available. Chairman Bob Boyle (NYPA) mentioned that if the data does not become available by model lockdown, we would not include any renewable projects for the base case, and follow up with a sensitivity case.

## 2. SCR Study Revisited

Donna Pratt (NYISO) revised the SCR numbers for the MARS model based on the July enrollment results. She mentioned in her presentation that zonal performance factors were also revised for their proportions in the superzones.

Mark Younger (Hudson Energy Economics) inquired about the change due to this revision. Ms. Pratt responded that by defining superzones differently, the %

breakdown allocated to the zones within the superzone differed. Each zone would have performance factors calculated based on their proportion of SCR MW in the superzone.

Chairman Boyle also commented that the NYISO should consider calculating SCR performance factor for Lower Hudson Valley superzone.

The NYISO is also recommending an additional 5% derate on ACL to CBL translation factor due to CBL reporting results that showed lower than expected performance. In the end, out of the total 1195.4 MW of enrollment, 758.2 MW of SCR will be modeled in the IRM base case.

Mr. Younger asked for additional 5% derate on the effective capacity value (ECV) due to the 4 hours typically used to measure performance. He argued that ECV calculated from 4 hours is not accurate and if their response is considered over ALL event hours, the derate would be more representative and larger. ICS members did not agree with Mr. Younger and voted against additional 5% derate.

### **3. Assumption Matrix**

Gregory Drake (NYISO) displayed the latest version of the matrix on WebEx. This version of the matrix is expected to be presented to the Executive Committee on July 12<sup>th</sup>. Mr. Drake mentioned that the matrix is still missing information from other parties and thus the matrix has many undetermined parameters. Chairman Boyle has reiterated the rule of providing information to the group at least 5 days in advance of the meeting for review.

Al Adamson (NYSRC- Consultant) mentioned that the matrix should say “multiple load shape” under the load shape section of the matrix.

Mr. Drake stated that there is a new addition to the list of generator retirement. He said that Trigen Syracuse has just notified them the intent to retire. As a result, attachment B2 of the matrix will be revised to include this retirement notice, along with Dunkirk 1, which will retire June 1<sup>st</sup>.

Frank Vitale (NYSRC- Consultant) said that the NYISO has not yet provided to him the summer maintenance schedule. **(AI 149-1)**

If the maintenance data will not be available in time, last year's maintenance schedule should be used. Chairman Boyle asked if it would be too much trouble to separate maintenance into zonal proportions. Mr. Vitale cautioned that confidentiality may be compromised in that format.

Mr. Drake commented that capacity sale to be included in the model is estimated to be 279 MW.

For cable interface forced outage rates, Mr. Drake said that the NYISO is still waiting for the Neptune EFORD results from LIPA. Yuri Fishman (LIPA) responded that LIPA is still waiting for New Jersey outage information and will provide the calculated outage rates by the end of the week. **(AI 149-2)**

As previously stated by Ms. Pratt, 758 MW of SCR will be modeled.

When asked about how the voltage reduction is determined, the NYISO commented that the reduction amount was determined through actual tests. The number is not yet available but will be entered into the matrix.

The NYISO also stated that there is a decreasing trend in voluntary curtailment because participants are moving to SCR/EDRP programs instead.

The table of proposed solar farms should be removed from the matrix.

Howard wind project should also be removed.

ICS approves the matrix pending these minor changes.

#### 4. 2012 Wind Shape White Paper

John Adams (NYISO) stated that the NYISO has completed the requested study on the synergistic effects of combining multi-year load shape and 2012 wind shape. He said that the result is the same, with or without the multi-year load shape while using the 2012 wind shape.

Mr. Younger asked about the number of SCR calls in this study, to which Mr. Adams said there were 34 calls.

ICS has accepted the NYISO recommendation to use actual 2012 wind shape in this year's IRM model.

#### 5. Multi-year Load Shape White Paper

Mr. Adams presented the model results for using 2007 or 2002 shape for the 5<sup>th</sup> bin. The difference between the two cases amounted to only a 0.1% change in IRM and LCRs. The NYISO is recommending using 2007 for the 5<sup>th</sup> bin. Mr. Adams reported that the number of SCR calls was around 18 or 19. Mr. Younger would like to see an additional row added to table 7 that displays the actual number of SCR calls for each case. **(AI 149-3)**

#### 6. APA EFORd Deviation Study Comments

Gregory Chu (Con Edison) stated that Con Edison has additional questions and comments after reviewing the study report. He inquired if the NYISO was going to provide a complete list of the units that the NYISO has observed deviations. Mr. Drake said that the NYISO can provide a table on the top 10 units and their deviations. **(AI 149-4)**

Mr. Chu also inquired about the 4 units that had data overridden by the previous year's data. Mr. Drake said this was caused by manual entry and should not happen in the future.

Mr. Younger asked if the cause identified by the report can be explained as data anomalies. Mr. Drake clarified that the anomalies were due to different sets of GADS data used by market versus APA EFORD. Dr. Kai Jiang (NYISO) stated that even in cases where the data are the same, the results may still be different because of the APA methodology and market methodology.

Mr. Chu also asked if the event data can be screened and filled in like performance data. Dr. Jiang said the NYISO receives the event data from outside source and to review and fill in performance data in house would be impossible due to the size of the records that may be in the thousands per generator.

Chairman Boyle was concerned that the NYISO would allow event data to be inconsistent with performance data, and not do anything to correct it. Since NERC now has a requirement for generator to submit GADS data, hopefully this will allow the generator to report proper data that would lead to better data sets.

Mr. Chu said that while the NYISO reported the deviations only led to a 200 MW difference, the main concern Con Edison has is with the software's possible inability to properly convert complex events into transition rates/Equivalent Forced Outage Rate. While the MW may seem small now, the deviation may get larger in the future due to complex events. Mr. Chu recommended that the NYISO should look at deviations for next year, and return to the ICS to report if deviations still exist. Mr. Drake said the NYISO will do that on an annual basis and report back of any anomaly they may observe.

## **7. Policy 5 - Outside World Modeling – External Area LOLE**

The NYISO is still conducting a study to determine the necessary steps to bring outside world's LOLE closer to 0.1. Mr. Younger mentioned that he directed the NYISO to relevant information on the PJM website regarding their DR program.

Mr. Younger recommended in the study that the NYISO is currently undertaking, the NYISO should set up the model so that DR can be called a zone at a time, and not set up with a single step that includes all 8000 MW of DR to avoid calling the entire amount of MW due to 1 MW PJM shortage.

## **8. Environmental Impacts**

Peter Carney (NYISO) provided an email to the group stating that there would be no expected environmental impacts in this year's IRM study. All units that regulations may impact will be able to meet the compliance requirements.

## **9. Lower Hudson Valley Locational Capacity Requirement**

Chairman Boyle asked that there needs to be a write-up on the methodology to determine LHV LCR, either in Policy 5 and/or IRM report. **(AI 149-5)**

## **10. MARS Topology**

Bill Lamanna (NYISO) presented the MARS topology to be included in this year's MARS model. He mentioned the 3 changes in model. Dysinger East interface limit was lowered by 75 MW and West Central nomogram was removed and replaced with a 50 MW reduction on its lowest limit. The 3<sup>rd</sup> update was the A line + VFT limit increase by 15 MW and the nomogram was updated to 815/700/550/200 MW. The members accepted the changes.

## **11. Load Forecasting Uncertainty**

Arthur Maniaci (NYISO) presented the final version of the Load Forecasting Uncertainty tables to the working group. He stated that tables for zones H, I, and J have not been finalized as a result of continuing and ongoing discussion with Con Edison. Carlos Villalba (Con Edison) called into the meeting and provided more background information about the discussion.

Mr. Maniaci mentioned that Con Edison had some different demand response values for load reconstruction. He still recommended using the values the NYISO provided from May instead of Con Edison's values.

Mr. Villalba stated that because he now has access to real time load data from each individual accounts, he said that Con Edison was able to do a more accurate assessment of demand side management response. He said that Mr. Maniaci suggested a change using metered load (for billing) for LFU calculation, instead of using total CECONY load and split into sub areas matching zones H-J, which was done in the past. He further stated that Con Edison SCR numbers has been sent to the NYISO/Ms. Pratt for review.

Mr. Younger asked the magnitude of the demand response difference between Con Edison and the NYISO. Mr. Villalba said it differs; sometimes Con Edison would have a higher value when compared to the NYISO due to more granular data that would include other local demand responses that the NYISO has not included in their reconstruction, while sometimes it is lower. Mr. Villalba said Con Edison can forward the information to members if they'd like. He also said all of the data have been submitted to Mr. Maniaci for review.

Mr. Chu argued that the group should be consistent with the treatment of all the other parameters in the assumption matrix. In absence of agreed values for model update, the group should use values from last years' model until the new value is determined. Due to a lack of agreement at this time, the members were faced with 2 choices: use the same LFU values from last year or use the NYISO proposed results as an intern solution. Chairman Bob Boyle called for a consensus vote. NYPA abstained and all other participants voted to use the NYISO's LFU, with Con Edison voting against this decision. Chairman Boyle reiterated that the parties need to work to reach a consensus prior to the Executive Committee meeting on July 12<sup>th</sup> and if Con Edison does not agree with the assumption in the end, the NYISO results should not be imposed. Mr. Adamson will work with both parties to reach an agreement expeditiously.

Chairman Boyle inquired about effects of combining multi-year load shape with the LFU. Mr. Maniaci said that they are independent of each other and there should not be any synergistic effects.

Secretary: Gregory Chu

*(Con Edison)*

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Next meetings:

Meeting 150, Tuesday, July 30<sup>th</sup> at NYISO HQ  
Meeting 151, Wednesday, September 4<sup>th</sup> at NYISO HQ  
Meeting 152, Wednesday, October 2<sup>nd</sup> at NYISO HQ  
Meeting 153, Tuesday, October 29<sup>th</sup> at NYISO HQ  
Meeting 154, Monday, December 2<sup>nd</sup> Teleconference

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