

# NYSRC Installed Capacity Subcommittee

Meeting #147

May 1st, 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), <b>Acting Chairperson</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Yuri Fishman (LIPA) .....	<input 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 checked="" 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).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Andrea Fossa (NYPA) .....	<input type="checkbox"/>	<input 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).....  .....
- Mr. 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 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"/>

**1. Assumption Matrix**

Frank Ciani (NYISO) stated that there haven't been any changes since version 2 from the April meeting. The NYISO will be updating the matrix with new information, such as forecasted peak load and generation changes, from the final versions of the Gold book that was recently released.

Mr. Ciani also mentioned that for external modeling, the PJM LOLE was above 0.4 assuming 2014 load and capacity projections. The NYISO has proposed to make adjustments (to load) to bring PJM back to 0.1-0.15 LOLE. Dana Walters (NYISO) mentioned that part of the problem came from the removal of emergency operating procedures (EOP) in PJM and other external areas. Demand response and EOPs are now a larger portion of these external area resources. Al Adamson (NYSRC – Consultant) suggested that the NYISO should come up with some verbiage for a Policy 5 update. **(AI 145-2)**

Frank Vitale (NYISO – Consultant) asked about the order in which the external areas implement their EOPs. Mr. Adamson stated that in the past, the assumptions were that the external areas would not implement their EOPs to

support New York. Mark Younger (Hudson Energy Economics) said that if we know that they will call on their EOPs to give us support, then we need to model the external EOPs. If our neighbors won't activate their EOP to support us, even when they don't need it, then there's no reason to change the model. Mr. Ciani said the NYISO does not know if they will or won't.

## **2. Renewable Project List**

Erin Hogan (NYSERDA) stated that responses to the RFP were received but RPS awards are still on hold pending PSC ruling. She mentioned that project selection is not only based on bids, but there's another consideration called economic development. She was concerned that the ruling will not be in time for this working group's determination. Ms. Hogan circulated the list of renewable projects to members and she suggested that the transmission owners should provide feedbacks on expected renewable projects if the projects are moving forward (bottom part of the NYSEDA renewable project spreadsheet). Mr. Adamson said that the late June meeting would be the deadline for the members to decide which project to include. Ms. Hogan asked for feedback by June 5<sup>th</sup> meeting. **(AI 147-1)**

Ms. Hogan presented a table of NYSEDA customer-sited solar installations by zone for 2012 and 2013 for consideration for inclusion in the IRM study. Ms. Hogan said that the New York Sun Initiative goal is 120 MW customer-sited solar installations for this year, and 120 MW continues into the future years assuming the funding level remains the same. It was decided not to reflect the customer-sited solar in the IRM because the energy from existing capacity is endogenous in the load forecast and the incremental energy is so small and dispersed through the state it was considered negligible. Mr. Ciani asked which projects to be included in the model and Ms. Hogan said to include large-scale grid-connected solar projects from RPS sheet.

## **3. 2013-2014 IRM Study Model Development**

Mr. Adamson mentioned that the two items listed under this agenda item, which were multi-year load shape model and the wind shape model, were not available for discussion and review at this meeting. The non-standard modeling changes were supposed to be approved by this meeting.

John Adams (NYISO) said that the wind shape white paper may be available within 2 weeks, as only validation remained at this time. **(AI 146-5)** The multi-year load shape will be delayed since the NYISO are still trying to implement the method into the model.

Mr. Adams mentioned that the multi-year load shape model has all the data developed, but MARS did not work correctly when it first ran. Mr. Adams said he will check with Mr. Drake for the status. The paper has been completed; the only thing missing is the run results. He is confident that the NYISO should have the report ready by next ICS meeting. **(AI 140-6)**

Mr. Adams stated that the NYISO has collected actual wind unit data from 2012 and he mentioned that there wasn't a significant difference when compared to the 2002 simulated shape. He reported that the capacity factor for 2002 shape is 11%, while the 2012 actual data had 18% capacity factor. The NYISO would like to confirm some 0 MW days for peak days in 2002 were not erroneous, since these days were also present in the 2012 data set. For the randomization feature, plus minus 5 days of data were examined. He saw an 80 MW benefit and it dropped IRM from 17.1% to 16.9%. He also stated that with the random feature on, the 0 MW days were gone.

Mr. Younger wondered if the random feature is zonal or statewide based. Mr. Adams said that the feature is by plant, as each plant has its own shape. Mr. Younger clarified that if the model can pick from any of the 10 days, the model should pick the same day for all of the plants. Mr. Adams will check with GE.

#### **4. SCR Performance Level for 2013-14 IRM Study**

Donna Pratt (NYISO) presented the performance data for CBL from summer 2012 events, including voluntary and mandatory events. She mentioned that 94.8% of the obligated MW reported CBL data this summer, as compared to approximately 76% of the previous summer. The obligated ACL response from SCR was 87.5% during mandatory events. The obligated ACL response from SCRs who reported CBL data was 89.3%. The CBL response was actually only 66%.

The ACL response for voluntary events was only 34.4% due to no reporting obligation.

The NYISO recommended 76.5% SCR performance factor for the IRM study. The amount of SCR to be modeled is 1030 MW, which included derates from translation factor, effective capacity value, and fatigue factor. Ms. Pratt pointed out that the model value of 1030 MW is approximately 66% of the enrolled ICAP of 1558.4 MW, which exhibited the same CBL performance of 66% previously mentioned in her presentation.

Mr. Younger was concerned about the 5% derate between ACL and CBL. He was also concerned with performance differences between mandatory and voluntary events and has asked the NYISO to consider additional derates to SCR to capture this difference. He felt another 5% derate could be applied due to the failure of providing advance warning to SCRs and the subsequent lack of performance due to the events being voluntary. Ms. Hogan questioned the additional derate because drawing a conclusion based on 1 year of data seemed premature. She believed voluntary events were an anomaly more than a common practice. Ms. Pratt stated that she will take this suggestion back for the NYISO to review.

## **5. APA/EFORd Methodology Review**

Mr. Ciani stated that they will report the final version of the EFORd deviation study results at the next ICS meeting. He said that Dr. Singh will be reviewing all of the results prior to the next meeting. Mr. Adamson asked if this will have an

impact on the model. Mr. Ciani said that the model will not be impacted. **(AI 145-5)**

## **6. New Capacity Zone Study**

Mr. Ciani said that there were no new developments for ICS discussion. Mr. Adams said that the filing has been completed and responses are due by May 21<sup>st</sup>.

## **7. ESPWG/ICS – CARIS metric**

Tim Duffy (NYISO) took to the podium and mentioned that CARIS study undertaken by ESPWG contained an ICAP metric. He stated that it is currently using MW impact methodology as instructed by the tariff. He further stated that members of ESPWG have asked the NYISO to explore the possibility of using a tangent 45 study to determine the metric as an alternative. He said that the NYISO had problem creating the IRM/LCR curve. Mr. Duffy said that the NYISO has agreed to look at application of unified methodology to CARIS. The NYISO will create the study scope by September 2013, with analysis starting in February 2014 following the current IRM cycle.

Mr. Walters said that ICS would be acting in an advisory role and that Policy 5 may need to be updated.

## **8. IRM Study Required Information for Next Meeting**

Mr. Adamson stated that Arthur Maniaci (NYISO) should attend the next ICS meeting to discuss Load Forecast Uncertainty and load shape to be used in the IRM study. **(AI 147-2)**

He also reminded the NYISO that Bill Lamanna needs to provide the topology updates with TPAS and ICS. **(AI 146-3)**

Secretary: Gregory Chu

*(Con Edison)*

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Next meetings:

Meeting 148, Wednesday, June 5<sup>th</sup> at NYISO HQ  
Meeting 149, Wednesday, June 26<sup>th</sup> at NYISO HQ  
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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