

# NYSRC Installed Capacity Subcommittee

Meeting #100

June 2<sup>nd</sup>, 2009

9:30 a.m. – 3:30 p.m.

Meeting Minutes

## Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA), Chairman .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Carlos Villalba (Con Edison) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Timothy Bush (Generation Owners).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Bart Franey (National Grid) .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Steve Jeremko (NYSEG-RGE) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Mark Younger (Slater Consulting - Generation Owners) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Rajee Mustafa (NYPA).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Rich Wright (CHG&E) Ruby Chan (filling).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mrs. Patricia Caletka (NYSEG-RGE) .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Madison Milhous (National Grid).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ms. Hilary Goldman (Con Edison).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Kelvin Chu (Con Edison).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Mark Cordeiro (Municipal Power Agency).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Han Huang (NYPA).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Glenn Haake (Dynergy, Inc. - Generation Owners) .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Harry Joscher (PSEG Power, LLC).....	<input type="checkbox"/>	<input type="checkbox"/>
Advisers/Non-member Participants:		
Mr. Al Adamson (Consultant) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Frank Vitale (Consultant) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. John Adams (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Greg Drake (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Frank Ciani (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Peter Carney (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Arthur Maniacci (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>

Mr. Ed Schrom (NYPSC).....  .....

Guests Present:

Mr. Robert Boyle (NYPA) .....  .....

Mr. John Charlton (NYISO) .....  .....

Mr. Bill Lamanna (NYISO).....  .....

Mr. Frank Francis (BEMI) .....  .....

Mr. Clyde Custer (NYISO).....  .....

Ms. Erin Hogan (NYSERDA).....  .....

Mr. John Pade (NYISO-Consultant).....  .....

Mrs. Mariann Wilczek (NYISO) .....  .....

Mr. Sam Krueger (Dynergy, Inc.).....  .....

Mr. Alan Ackerman (Customized Energy Solutions .....  .....

Mr. Paul Gioia (NYSRC) .....  .....

Mr. Chris De Graffenried (NYPA) .....  .....

New Guests Present:

Dr. Roy Shanker .....  .....

Yannick Vennes (HQ).....  .....

Liam Baker (US Power Gen).....  .....

**1. Review Previous Meeting Minutes**

1.1. Meeting #99 minutes were reviewed and changes were made.

1.2. Secretary to circulate final version.

**2. Action Items – Updates and New Action Items Added**

[Fade out items denotes Action Item has been completed]

[Bold dates denotes items that are behind schedule or due for the next meeting]

NO.	Action Item	Responsible Individual(s)	Sched./Actual Comp. Dates
66-2	Con Edison and NYISO to automate the IRM/LCR curve calculation and perform the benchmarking. Update: NYISO is performing test.	F. Ciani/ C. Villalba	<b>5-5-09</b>
78-1	Refine PJM East area model and interconnections with NYISO through IPSAC. Include the reserve margin for PJM and we'll revisit.	B. Lamanna	<b>1/1/09</b>
85-1	Perform MARS runs without external capacity derates to determine if there is any impact in the NYCA LOLE. The NYISO will send the OT09 file flow results and build an IRM/LCR curve. Update: We need a white paper for this issue and present it to the EC before making these changes More investigation will be required.	NYISO	<b>6/1/09</b>

89-4	Whether actual hourly load used to analyze the load shape are adjusted for load management programs, voltage reduction, and zonal outages.	A. Maniacci	<b>5/1/09</b>
92-1	Send Spreadsheet with all regressions to analyze using more than 4 points regardless of the R-square results.	Curt Dahl	<b>10-05-08</b>
92-3	Investigate the effectiveness of a. four or more points curve regression.	LIPA	1/10/09
94-1	Perform the Linden VFT sensitivity	NYISO	1/10/09
95-1	Circulate and coordinate review Con Edison filing of actual load reductions in Rider-U? that uses CBL methodology vs. the NYISO's methodology.	Mark Younger	3/4/09
95-2	Use RNA assumptions of additions and retirements with the existing 2009 IRM study database	G. Drake	3/4/09
95-3	Finalize zones H, I, and J LFU calculation methodology.	K. Chu/ A. Maniaci	<b>7/1/09</b>
95-4	Prepare a paper on the methodology of shifting capacity and impact on the IRM calculation when including wind generation.	G. Drake/ M. Younger/ C. Villalba	<b>7/1/09</b>
95-5	Present to the ICS the NYISO's areas of improvement in the calculation of the IRM.	NYISO	2/4/09
95-6	NYISO to work with the ICS to build EFORD trends	F. Vitale/ B. Boyle	<b>7/1/09</b>
95-7	Prepare an assumption matrix to calculate the FCPM IRM.	NYISO	3/4/09
96-1	Upstate/Downstate study	J. Pade	<b>4/8/09</b>
97-1	SCRs Performance & Modeling Technique- White paper. Received some information from Dave Lawrence. Next meeting for presentation	Dave Lawrence/M. Younger	7/1/09
97-2	Finalize schedule tracking for IRM Study. Steve sent a schedule, the group reviewed.	G. Drake/S. Jeremko	<b>4/24/09</b>
97-3	Comments on the external ICAP Paper.	All	<b>6/2/09</b>
97-4	NYISO to circulate Ot.09 file from 2009 IRM base case	NYISO/G. Drake	<b>4/8/09</b>
97-5	Status of Susquehanna – Lackawanna – Jefferson – Roseland – Hudson - Branchburg PJM Line planned through RTEP.	C. Villalba	<b>4/8/09</b>
97-6	Find out if NERC has a service to produce an analysis of the NYCA forced outage rate.	F. Vitale	<b>7/1/09</b>
98-1	Forecasted Wind Capacity	Erin Hogan	<b>7/1/09</b>
98-2	SAS program code and process to calculate transition rates	G. Drake/C.Villalba	<b>6/2/09</b>
98-3	Curt to talk with Clyde Custer about EFORD calculations	Dahl	<b>4/28/09</b>
98-4	Send to the group either the summary of all results on the Loop Flow analysis or the OT09 output files	G. Drake	<b>6/2/09</b>
98-5	Group to review NYISO's loop switch conclusion before starting with MARS runs.	All	<b>6/2/09</b>
99-1	ISO in June will provide ICS an evaluation of last years load shape and the applicability of the 2002 load shape	NYISO/A. Maniaci	<b>6/2/09</b>
99-2	Request for NYISO legal department to provide information and justification on why Zonal generation EFORDs A, B, C, D E, F, GHI, J and K and SCR/EDRP forecasts A through D, E through I, J and K are confidential.	NYISO/G. Drake	<b>6/2/09</b>
99-3	Collect schedule outage inputs for IRM 2010 study	NYISO/G. Drake	<b>6/2/09</b>

99-4	Circulated updated IRM 2010 timeline schedule to ICS group.	NYISO/ F. Ciani	6/2/09
99-5	Review and finalize modeling of New Transmission Capability – modeling 300 MW Linden VFT. Need explanation for why the flows are higher over ABC lines.	NYISO/B. Lamanna	7/1/09
99-6	Con Edison to get Transmission Cable Forced outages earlier than July. NYISO needs this information sooner than traditionally provided.	Con Edison/Kelvin Chu	7/1/09
99-7	Decision needs to be made by ICS on how to weight last two years of EFORD data into the 2010 IRM base case assumptions. Also should 5 or 10 years of data be incorporated into the average	ALL	6/2/09
100-1	Re-build and coordinate with the IESO the HQ and Ontario MARS topology.	B. Lamanna	7/1/09
100-2	NYISO to expand on the SCR/EDRP performance factor measurement through CBL to add a white paper and expand on the CBL methodology.	D. Lawrence	7/1/09
100-3	Investigate the interconnection schedule of the 112.5 MW High Sheldon Wind Farm. Why it was missed last from last year IRM Study.	S. Jeremko	6/17/09
100-4	Calculate the tan 45 point after removing loop flow switch, and added deliverable external ICAP. Do same using contracts to model external capacity.	G. Drake	6/17/09
100-5	Proof EFORD and Transition rates are similar calculations	C. Villalba	12/1/09
100-6	Stop Jim Pirtico from gathering more data	G.Drake	6/17/09

#### Action Items continued....

- 2.1. Version 3 of the IRM timeline was revisited
- 2.2. ICS attendees revisited the time line again and changes were made that make assign proper sequence and due dates for many components of IRM study – NYISO to send changes made out to committee.
- 2.3. Request to issue once per month prior to each monthly ICS meeting.
- 2.4. Lots of action items outstanding - Bill Lamanna called in and gave a status update on his items:
  - 2.4.1. Transmission model – action item 99-5
    - 2.4.1.1. 2010 base cases completed - one with 50/50 load and another with 90/10 load level
    - 2.4.1.2. Cases sent to Con Edison to begin work on the Lower Hudson Valley/Dunwoodie South voltage limit interface work and transmission topology. Bill also mentioned he needs similar work on the Western New York and Central East transmission limits.
    - 2.4.1.3. This study should be done by end of June.
  - 2.4.2. PJM / New York Border Action item 78-1
    - 2.4.2.1. Behind on 2013 analysis for interregional study work
    - 2.4.2.2. Reach out to PSEG/PJM to capture potential limits from PJM east to zone J interface. Hoping that PSEG can share nomograms and interface limits.

- 2.4.2.3. Carlos asked Bill to send Carlos's proposal on how to divide PJM East into separate load pockets in hope that they will provide accurate feedback and advice on how best to model this change.
- 2.4.2.4. ICS requested Bill to circulate a draft of the transfer limit map before June 17<sup>th</sup> conference call.
- 2.5. June 17<sup>th</sup> 1:30 to 3:30 pm – conference call scheduled to discuss outstanding action items.

### **3. Review of the Forward Capacity Market IRM study report**

- 3.1. Draft report on findings on FCM study.

### **4. Preliminary discussion on Forecasted Wind for 2010 IRM Study**

- 4.1. Erin Hogan from NYSERDA presented a draft of the wind units to be considered in the 2010 IRM study.
- 4.2. Revisited procedure for screening processes for “likely” projects to include in 2010 IRM study.
- 4.3. The main concern is that wind units can be approved and built much quicker than thermal units; so it is important to know potential wind units or wind project proposals to get a good approximation of the wind capacity for 2010 IRM study.
- 4.4. Two years ago, IRM study didn't incorporate all wind units by relying on data from NYISO study queue – IRM underestimated how quickly wind units were getting built. Last year, used RPS because wind owners will be penalized if they don't get built on time.
- 4.5. Last NYSERDA solicitation for RPS was in 2007 – no new wind capacity has been added – some projects have been canceled, some have asked for an extension. Footnote 7 shows wind units that have been cancelled in spreadsheet.
- 4.6. Concern that we are missing units in NYISO queue. Erin asked group for feedback on how to best incorporate all “expected” wind units. ISO should check to make sure that all information is incorporated. John Adams should be consulted. We should also rely on information from TOs who would know about construction projects or plans.

### **5. Increase in Ontario ICAP wheel**

- 5.1. Discussion on limit increase from Ontario ICAP wheel to HQ interface – tie from Ontario to HQ.
  - 5.1.1. Yannick Vennes called in to discuss the Ontario – HQ wheel and interface limits.
  - 5.1.2. Currently IRM models interface between Ontario and HQ as 350 MW. By July 1<sup>st</sup>, it will be 650 MW and by May 1<sup>st</sup>, 2011 it will be increased to 1250MW due to new transmission lines installed – transmission reinforcements.
  - 5.1.3. Request that Bill work with counter parties from Ontario to find out if 2010 IRM transmission limits and incorporate them into the transmission topology study.
  - 5.1.4. Mark breaks down this issue into 3 pieces:

- 5.1.4.1. STEP 1: NYISO need back up material from Ontario so they can back up what line changes are being done on HQ IMO interface and get that into the MARS model. ICS also needs to decide how we are going to model imports and grandfathered contracts and see whether FERC approves 1090 MW contract from HQ.
- 5.1.4.2. STEP 2: HQ needs to make formal proposal to NYISO and ICAP working group proposing a methodology for NYISO to take it's representation of the MARS IRM based allocation of ICAP between interfaces to be done in a manner that allows multiple layers of constraints to be represented – similar to how we came up with deliverability of short term import rights.
- 5.1.4.3. STEP 3: What are the requirements to bring in requirements through Ontario – transactions and import rights (qualification issue). Must have capability to wheel through Ontario or NYCA granted import rights from this increase in transmission limits in tie between HQ and Ontario.
- 5.1.4.4. Yannick agrees with Mark's 3 steps. Must provide topology and import levels to Bill prior to June 17<sup>th</sup> meeting.

## **6. 2010 IRM Study Assumptions**

### **6.1. SCR modeling methodologies:**

- 6.1.1. Discussed two methodologies to determine amount of actual load reduction for SCR on the day when a SCR is called.
- 6.1.2. Study used August 2 2006 (last time we called SCR resources) as representative of the SCR performance.
- 6.1.3. Two methodologies were presented: Average Peak Monthly Demand (APMD) and Customer Baseline Load (CBL).
- 6.1.4. APMD Methodology:
  - 6.1.4.1. APMD during 2006 was based on peak hour at any time during the day; however, ICAP rules were modified in 2007 that states that peak occurs between noon and 8 pm only. This rule change in place in 2006 may have reduced the APMD aggregate values and resulted in lower performance measurement.

### **6.1.5. CBL methodology:**

- 6.1.5.1. CBL method is used to determine energy payment to SCR during event.
- 6.1.5.2. Looks at the last 10 days before the incident or event. Begin with the weekday two days prior to the demand response event and then look back ten weekdays. Using weather adjusted data; the baseline consumption is determined by five previous days with the highest energy consumption during time of SCR event.

- 6.1.5.3. Issue that these previous ten days may not be representative of peak load day when SCRs were called. Could underestimate SCRs actual load reduction.
- 6.1.6. ICS needs to determine how to account for SCR load reduction in base case. It was recommended that 20% discount to SCR load reduction should be implemented instead of 30% discount.
- 6.1.7. CBL is less accurate because is relying more in the lower loads and also the extrapolation of the weather adjusting.
- 6.2. Loop Flow Analysis and External ICAP
  - 6.2.1. Request that a curve (or a few points) be generated to validate tan 45 procedure for 2009 IRM with new loop flow (switched to N position) and external ICAP modeling changes (only grandfathered contracts considered).
  - 6.2.2. Results of studies seem to be contradictory to what would be expected with change in IRM and LCR.
  - 6.2.3. Also addressed that definition of grandfathered has changed due to deliverability filings and external ICAP filings. This needs to be determined for the 2010 base case. Suggestion to begin process assuming that grandfathered contracts of 1090 and 1080 are approved.

## **7. Next Meetings**

July 1st, 2009 – Meeting#101  
August 5, 009 – Meeting#102  
September 2, 2009 – Meeting#103  
September 30, 2009 – Meeting#104  
November 4, 2009 – Meeting#105  
November 30, 2009 – Meeting#106

Meeting #100: June 2nd, 2009, 9:30am – 4:00pm.

*Secretaries:* Carlos Villalba and Hilary J. Goldman

*(Con Edison)*

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