

# NYISO Management Committee Meeting Minutes

March 25, 2009

NYISO – Krey Corporate Center

10:05 a.m. – 1:46 p.m.

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## 1. Introductions, Meeting Objectives, and Chairman's Report

The Chair of the Management Committee (MC), Mr. Bill Palazzo (NYPA) called the meeting to order at 10:05 AM and welcomed the members of the MC. The members of the MC then identified themselves.

Under the Chairs report, Mr. Palazzo reminded members that there was a request made for input from Market Participants on how contracts might be posted on the NYISO website in compliance with FERC Order 719. He urged members to contact Ms. Elaine Robinson at [erobinson@nyiso.com](mailto:erobinson@nyiso.com) with their interest in working with the NYISO on this.

## 2. Approval of Minutes

The meeting minutes were deferred to the April Management Committee meeting.

## 3. President's Report

Mr. Steve Whitley (NYISO) presented highlights of the President's Report. He reported that LBMPs were averaging \$52.73 in February, down from \$73.28 in January, a 28% reduction. The reasons for this were natural gas prices were down, and demand through our system was down partly to weather and partly due to economy. He added that uplift was also in the low numbers.

Mr. Whitley announced two upcoming events, the April 29 EPRI Green Transmission Workshop and the April 30 NYISO Symposium, *Foundation to the Future: Infrastructure, Innovation, Investment*, to be held at the Desmond Hotel and Conference Center in Albany, NY. Mr. Whitley provided details on the events, and noted that FERC Chairman Jon Wellingoff would provide the keynote address at the Symposium. He urged all members to attend.

In response to a question regarding the status of Board vacancy, Mr. Whitley reported that the board has selected two candidates from the list and expects to see an announcement go out soon.

Mr. Matt Picardi (Shell) asked for an update on Interregional Congestion Management. Mr. Rana Mukerji (NYISO) reported that the NYISO has had very productive discussions with the neighboring ISO's around Lake Erie. NYISO, PJM, MISO and Ontario are looking at long term solutions regarding scheduling and pricing, as well as congestion management. Also, discussions between NYISO and ISO-NE have been ongoing, and the NYISO will come forth later this year with proposals. Mr. Mukerji added that this item has been included in the seams report.

Mr. Rick Gonzales (NYISO) reported on a new application, or trending analysis tool, that the NYISO has put in place, which will be used to minimize costs to consumers as well as protect system reliability. The analysis chart he presented would eventually show rolling 24-month trends of balancing market residuals, and would be indicative of showing seasonal issues involved with balancing market congestion residuals, most specifically the identification of thunderstorm watch and local reliability charges assigned to NYC and Con Edison service territories during the summer periods due to a thunderstorm watch. Mr. Gonzales pointed out that these charges, as identified on the chart were not allocated statewide, but the visibility is useful as there has been confusion on uplift costs and how they are allocated. By providing transparency, the NYISO would like stakeholders to have confidence that balancing market residuals and uplift costs are being monitored and evaluated.

Mr. Steve Whitley added that this is a new process that was put in place, as the NYISO was working on the Lake Erie issue, to hone in on identifying issues and anomalies. Market monitoring, credit and the control center is involved, and looks at our system and neighboring systems regarding changing flows, pricing conditions and anomalies. Mr. Rich Bolbrock (MEUA) urged the NYISO to combine the tariff violation procedures that are currently being developed, with this report.

Mr. Gonzales stated that he would look into including point of injections and point of withdrawals on the chart.

Mr. Mike Mager (Couch White) recognized and thanked the NYISO for their hard work with respect to reducing uplift.

Mr. Gonzales reported on the recent trends regarding the Lake Erie circulation assumptions in the day ahead market. He reported that the NERC TLR (transmission load reduction) process would be used to limit or reduce unscheduled transmission use of the NYISO grid. He added that the NYISO is hopeful that the ISO's and RTOs that surround Lake Erie will come up with a comprehensive congestion management process that will not only include internal re-dispatch but will look at identifying all sources of unscheduled transmission use through each other's system, and come up with an equitable way to manage unscheduled loop flows. In the short term, the NYISO is prepared to use the NERC TLR process to manage this. Mr. Gonzales provided examples on when the TLR's would be invoked.

Mr. Gonzales next reported on the 25-day outage involving the Beck Niagara 345 KV transmission facilities. Under these outage conditions, the NYISO has very restrictive system operation and there is no IESO to NYISO transaction scheduling allowed, there is a zero ATC, PJM to NYISO imports are being limited to about half their normal capability and HQ exports are being limited. The total western NY zone exports are being limited to 100 MWs ATC. Congestion patterns will be unusual during these periods as a result of these facility outages. Circulation values will be quite low and will be factored in when the outage is over. He stated that this is being closely monitored to ensure the NYISO does not incur any unwarranted costs.

Mr. Rick Mancini (CES) asked how the 30-day rolling average would be handled during the outage. Mr. Gonzales stated that a final decision on this would be made once the outage was over, and this would be shared with market participants.

#### **4. Waldwick PAR Update**

Mr. Rick Gonzales (NYISO) referred to the material the NYISO posted on March 11, and provided background information on the February 9 FERC Order on the NYISO's request for a tariff waiver for the Waldwick PAR input error. The order required that the NYISO provide all data and analysis requested by the Market Participants as well as their responses to the tariff waiver requests, to discuss with stakeholders whether any course of restitution was feasible, and to report back to FERC by March 11 with the results of the discussions. On March 11, the NYISO provided the requested data analysis to Market Participants through a posting on the NYISO website and an email to the main contact representation with each individual company's share of the increased balancing market residuals. The NY Transmission Owners were provided their share of the congestion rents.

Mr. Gonzales stated that Dr. David Patton and Pallas LeeVanSchaick of Potomac Economics were on the line to answer questions from members on data or analysis. He added that this topic will be discussed further at both the April Market Issues Working Group and the Business Issues Committee meetings. The sector meetings will provide an additional venue for discussion of this item.

Mike Cadwalader (LECG) asked if the NYISO was planning on performing any additional analysis before this was brought to the BIC or MIWG. Mr. Gonzales said that we will be looking for additional input from market participants on this. Additional analysis will be discussed by MPs at the April meetings.

Mr. Gonzales stated that the NYISO was willing to answer individual questions and asked that they be directed to Ms. Elaine Robinson. He summarized the data analysis and restitution information that was provided to Market Participants that was sent out on March 11.

Mr. Paul Gioia (representing the TOs) asked that the NYISO explore further ways to amend the tariff to create procedures that would enhance FERC's ability to order refunds in appropriate cases. If there are major errors or manipulation of the markets the interest of consumers should be protected.

Steve Whitley stated there have been many process improvements in place now in various departments, mainly brought about through Lean Six Sigma. The Lake Erie action plan ties into this; controls were modified after this error as well as everyday operations. Mr. Whitley noted that the NYISO is committed to improving its processes.

Mr. Mike Mager (Couchwhite) stated that while he appreciated and recognized the improvements, stakeholders need to be sent timely information and details when errors are made. He stated that a consistent policy should be put in place that would be fair to all market participants.

#### **5. Procedures for Notice of Tariff-Related Problems**

Mr. Wayne Bailey (NYISO) reported on the FERC Order, which directed the NYISO to develop procedures for early notification of stakeholders and stakeholder committees of possible errors affecting its markets, timely follow-up and detailed explanations

regarding errors, greater transparency and heightened responsiveness to the stakeholders and appropriate committees.

Mr. Bailey outlined the process NYISO would follow with respect to reporting issues to the Commission and also to Market Participants. Comments from Management Committee members were compiled during the meeting, and a straw proposal will be developed and discussed at future meetings.

## **6. NRG Appeal of Operating Committee Action on Q#266 Berrians GT III SRIS.**

At the request of NRG, this agenda item was tabled until the next Management Committee Meeting.

## **7. Two Year TCC Credit Requirements**

Ms. Janet Joyce (NYISO) presented background information on the NYISO proposal to obtain tariff authority via MST (Attachment K) and OATT (Attachment W) for the NYISO to establish credit requirements for two year TCCs. Also, Ms. Joyce explained the NYISO and TOs discussion in 2008 to offer two year TCCs for approximately 5% of auction capacity, subject to TO and MP concurrence. Ms. Joyce stated the NYISO would be evaluating the feasibility of deploying the software changes necessary to implement the credit requirements in support of offering the two year TCC in either the Spring 2010 Capability Period Auction or the Autumn 2010 Capability Period Auction.

Mr. Bruce Bleiweis stated that he would like to defer this action so NYISO and Market Participants could consider alternative methodologies for calculating credit requirements; Ms. Joyce responded that alternative methodologies had been reviewed internally and with LECG, but the proposed methodology was the only proposal the NYISO was comfortable moving forward with to ensure the risk associated with the two year TCCs was sufficiently covered. Ms. Joyce also suggested, per the information provided in the presentation, that once the NYISO and Market Participants had accumulated enough data to statistically validate another approach, the NYISO would evaluate alternative methodologies. Mr. Scott Harvey of LECG stated that there isn't another acceptable approach that can be statistically validated at this time due to the lack of NYISO and MP history with the two year TCC product. Mr. Bruce Bleiweis stated that FERC does not like filings without an implementation date. Ms. Joyce stated that the NYISO would not file the proposed tariff changes with FERC until the NYISO determined the targeted implementation date.

Mr. Kevin Jones (Hunton & Williams) stated that while Market Participants would be voting on credit requirements, the two year TCC would not be offered until such time NYISO and TOs agree that the product should be offered. Ms. Joyce stated that Mr. Jones was correct. Mr. Howard Fromer asked that copies of tariff language be distributed to chairs for their approval prior to being filed.

### **Motion #1**

The Management Committee hereby recommends that the Board of Directors approve revisions to the NYISO's tariffs to implement the credit requirements for two year TCCs, as more fully described in the presentation made to the Management Committee as modified at the March 25, 2009 meeting.

***The motion passed unanimously with one abstention.***

## **8. Attachment B Clarification – Regulating Units.**

Mr. Shaun Johnson (NYISO) reported on the background of the initiative, and explained that the purpose of the Attachment B clarification is conform to the Tariff to the code.

### **Motion #2**

The Management Committee hereby approves the revisions to Attachment B of the Market Services Tariff and Attachment J of the Open Access Transmission Tariff to indicate that regulating units should be treated as dispatchable in the pricing passes of RTS, in a manner that is consistent with the tariff provisions presented to the Management Committee this date, and recommends to the Board that it authorize a Section 205 filing.

***The motion passed unanimously.***

## **9. Land Fill Gas as Intermittent Resource**

Mr. Shaun Johnson reviewed a presentation on the topic. He noted that there are currently approximately 77 MWs of landfill gas to electricity suppliers scheduled throughout the NYISO. This number, he noted differed from what was reported at the MIWG.

Mr. Ray Kinney (NYSEG) stated many facilities have been granted PURPA status and sell output to local utility, and it is not the Plant Owners, but the Transmission Owners who are subject to penalties. Mr. Kinney requested that when the NYISO makes the filing at FERC it seeks immediate activation of this penalty provision, and waive the 60 day notice provision. Mr. Johnson replied the NYISO will request day after filing effective date. Mr. Howard Fromer (PSEG) requested the NYISO clarify whether this applies solely to methane gas units or if dual fuel units are applicable. Mr. Johnson replied this is meant for methane gas units only. Mr. Fromer asked that the proposed Tariff Language be clarified before the MC so that is clear.

Mr. Nachmias stated that the language is intended to address the issue raised at BIC, which was a concern that resources could game the exemption by not depending on landfill gas but using it and getting the exemption.

### **Motion #3**

The Management Committee hereby approves the revisions to the Market Services Tariff to compensate resources which depend on landfill gas as their fuel at their actual output, in a manner that is consistent with the presentation made to the Management Committee this date, and recommends to the Board that it authorize a Section 205 filing.

***The motion passed unanimously.***

## **10. LTFT Provisions Proposal**

Ms. Patti Farrell (NYISO) provided background. On November 20, 2008 the Commission issued an order on the NYISO's compliance filing implementing long- term transmission Rights. In its Order, the Commission rejected two parts of the NYISO's filing for being outside the scope of a compliance proceeding without prejudice to the NYISO re-submitting its proposed tariff language under Section 205 (Termination provision and

Billing and payment provision). As a result, the NYISO is seeking stakeholder approval to resubmit its proposed tariff language on these two areas in a new Section 205 filing.

Mr. Stu Nachmias asked that the NYISO clarify that the current MC motion was amended from what was presented at BIC.

**Motion #4:**

The Management Committee (MC) hereby recommends that the NYISO Board of Directors authorize the NYISO to file with the Federal Energy Regulatory Commission, pursuant to Section 205 of the Federal Power Act, to seek approval of amendments to certain LTFTR provisions of the NYISO's OATT, Attachment M (and to make conforming changes to Attachment B of the Services Tariff), pursuant to the presentation made to the Management Committee on this date.

***The motion passed with abstentions.***

**11. FERC Order 719 Compliance, Proposed Market Monitoring Structure**

Mr. Rana Mukerji (NYISO) reported on the NYISO's plan to comply with FERC Order related to market monitoring functions.

The Order adopted an approach that requires "core market monitoring functions" to be vested in a "Market Monitoring Unit" that reports directly to the non-management members of the NYISO's Board.

Core Market Monitoring Functions include:

- Evaluate existing and proposed market rules, tariff provisions and market design elements and recommend proposed rule and tariff changes to the ISO, Commission staff and to other interested entities;
  - Review and report on the performance of the wholesale markets to the ISO, the Commission, and other interested entities, on at least a quarterly basis and submit a more comprehensive annual state of the market report; and
- Referring market violations and market design flaws to FERC.
- The NYISO's proposal is to have Potomac Economics be responsible for the three core functions and to report to the Board, with the internal Market Mitigation and Analysis Department responsible for mitigation and assisting the NYISO's efforts to implement the requirements of its Tariffs.

The group discussed ethical standards; and asked the NYISO to consider adding this and conflict of interest into the filing.

Concern was expressed regarding the role of the MMU in developing rules, as opposed to reviewing and commenting on the proposed solution.

Mr. Rich Bolbrock stated that if the external MMU function was separate, many concerns would go away. He asked if the NYISO could put together a list of pros and cons on whether it makes sense to bifurcate these functions.

Mr. Mukerji stated that Order 719 would be discussed in greater detail at the next BIC prior to the April 28 filing. He asked for comments from the group and informed them that the filing would be shared with Market Participants prior to April 28.

## **12. New Business**

Mr. Mayer Sasson reported that Con Edison had completed the replacement of the five overdutied circuit breakers at the Astoria West 138 kV station, and that the interim operating protocol for Astoria fault current mitigation was no longer necessary.

## **13. Adjournment**

Meeting adjourned at 1:46

## **NYISO Management Committee Meeting**

*March 25, 2009*

*NYISO*

### **MOTIONS FROM THE MEETING**

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*Passed with abstentions.*

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*Passed unanimously.*

#### **Motion #3**

The Management Committee hereby approves the revisions to the Market Services Tariff to compensate resources which depend on landfill gas as their fuel at their actual output, in a manner that is consistent with the presentation made to the Management Committee this date, and recommends to the Board that it authorize a Section 205 filing

*Passed unanimously.*

#### **Motion #4:**

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*Passed with abstentions.*



## New York Independent System Operator - Committee Membership

### Management Committee - Attendance March 25, 2009 - Albany, NY - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
NYS Energy Research & Develop. Auth.	End Use - Gov. Agency/Aggr.	John Williams	Karl Michael	David Coup	Erin Hogan	Christopher Hall			
The City of New York	End Use - Gov. Agency/Aggr.	Michael Delaney	Janel Guerrero	Thomas Simpson					
Alcoa/Reynolds Metals Company	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Garrett Bissell	Kevin Lang				
Atco Properties & Management Inc.	End Use - Large Consumer	David Bomke	George Diamantopoulos						
IBM Corporation	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Garrett Bissell	Kevin Lang				
Occidental Chemical Corp.	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Garrett Bissell	Kevin Lang				
Wegmans Food Markets	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Garrett Bissell	Kevin Lang				
Metropolitan Transportation Authority	End Use - Large Cons. Gov.	Jesse Samberg	Gary Caplan	Walter McCarroll					
American Sugar Refining, Inc.	End Use - Small Consumer	Quinton George	✓ John Dowling	Catherine Luthin					
Association for Energy Affordability, Inc.	End Use - Small Consumer	David Hepinstall	Jamie Van Nostrand						
Beth Israel Health Care System	End Use - Small Consumer	Catherine Luthin	✓ John Dowling						
Fordham University	End Use - Small Consumer	✓ John Dowling	Catherine Luthin						
Memorial Sloan Kettering Cancer Center	End Use - Small Consumer	✓ John Dowling	Catherine Luthin						
Mount Sinai Medical Center	End Use - Small Consumer	Catherine Luthin	✓ John Dowling						
New York Presbyterian Hospital	End Use - Small Consumer	David Bomke	Jennifer Kearney	Tariq Niazi	Doug Elfner				
New York University	End Use - Small Consumer	Catherine Luthin	✓ John Dowling						
NY State Consumer Protection Board	End Use - State Agency	Tariq Niazi	Doug Elfner						
AES NY	Generation Owners	Christopher Wentlent	Rick Santoroski	Charles Sjoberg	Dave Evanoski	✓ Chris LaRoe			✓ Tim Bush
Astoria Energy LLC	Generation Owners	Joseph Swift	Leonard Singer	✓ Chuck McCall	Lathrop Craig				
Calpine	Generation Owners	✓ Brett Kruse	Seth Berend	Seth Berend	✓ John Flumerfelt	Max Garcia			
East Coast Power Linden Holding LLC	Generation Owners	Daniel Walsh	Thomas Milillo	Andrew Kelemen					
Edison Mission Marketing & Trading	Generation Owners	✓ Ray Stalter	Jeff Ellis						
Entergy Nuclear Northeast	Generation Owners	Marc Potkin	Angelo Vai	✓ Ron Mackowiak					
Horizon Wind Energy	Generation Owners	Brian Lammers	Gary Davidson	Tom Stebbins					
Indeck Energy Services	Generation Owners	Mike Ferguson	John Schrage	✓ Mark Younger					
Innovative Energy Systems Inc.	Generation Owners	Carol Muessigbrodt	Peter Zeliff						
Mirant New York, Inc.	Generation Owners	Philip Smith	✓ Doreen Saia						
New Athens Generating Co.	Generation Owners	Jack Breen	Chris Bursaw	Dan DeVinney	✓ Rich Felak	Kenneth Dell Orto			
Noble Environmental Power LLC	Generation Owners	Thomas Swank	Liz Grisaru	Sidney Chang					
Selkirk Cogen Partners, L.P.	Generation Owners	Tim Biittig	Steve Kampilla						
TC Ravenswood	Generation Owners	William Taylor	Jim D'Andrea	✓ Dan Congel	Susannah Pierce				
UPC Wind	Generation Owners	Steve Vavrik	Mike Jacobs						
	Other Suppliers								
BJ Energy	Other Suppliers	Bing Ni	George Lee						
Brookfield Energy Marketing Inc.	Other Suppliers	Robert Ricketts	Daniel Whyte	✓ Frank Francis					✓ Natalie Johnson
Bruce Power	Other Suppliers	Chris Loughrens							
Citi Group Energy	Other Suppliers	Lisa Yoho							
Con Edison Solutions	Other Suppliers	Ken Bekman	Stephen Wemple						
Conectiv	Other Suppliers	Robert Steele	Tony Gabrieli	Gloria Ogenyi					
Constellation Energy Commodities, Inc.	Other Suppliers	✓ Glen McCartney	Dan Allegretti	Tim Daniels					
Constellation New Energy Inc.	Other Suppliers	Michael Constantine							
Coral Power, LLC	Other Suppliers	✓ Matt Picardi	Marc Overdyk	Dave French					
CPower	Other Suppliers	✓ Marie Pieniasek	Janette Dudley	Nick Planson	Ray Stirbys				
Cross Sound Cable Co.	Other Suppliers	John Miller	Brian Reinhart	Bradley Railing	Jose Rotger				
DC Energy	Other Suppliers	✓ Bruce Bleiweis	Chris Carpenter	Andrew Stevens	Matthew Tate	Sadao Milberg	Dean Wilde		
DTE Energy	Other Suppliers	Gregory Pakela	Raymond Wieszczyk	Paul Norris					
Dynegy	Other Suppliers	✓ Glenn Haake	Barry Huddleston	Dean Ellis					
Energy Curtailment Specialists, Inc	Other Suppliers	Glen Smith	Stephen Lynch	✓ Marie Pieniasek	Dara Biltekoff				
Energy Spectrum	Other Suppliers	Gary David	Henry Hartstein	Aron Iskowitz	Ruben Brown	Arthur Pearson			
EnerNoc	Other Suppliers	David Brewster	Aaron Breidenbaugh						
Epic Merchant Energy NY, LP	Other Suppliers	Michael Kinsey	Robert Erbrick	Pierre Tournois	✓ Erik Abend	Gordon Scott	Arshad Khan		
Exelon Generating Co. LLC	Other Suppliers	Denise Foster	Jack Crowley						
Fortistar/Lockport Energy Associates, L.P.	Other Suppliers	Tom Gesicki	✓ Mark Younger						
FPL Energy	Other Suppliers	✓ David Applebaum	Fernando DaSilva	Ron Scheirer					
Galt Power	Other Suppliers	✓ Rick Mancini	Stephen Fernands	Bill Schofield	✓ Alan Ackerman				
Hess Corporation	Other Suppliers	Hemant Jain	Kevin Laguardia						
HQ Energy Services	Other Suppliers	Yannick Vennes		Erik Bellavance					
Integrus Energy Services	Other Suppliers	Michael Haugh							
KeySpan Energy Services	Other Suppliers	Terrence Kain	Jim D'Andrea	Edwin Kichline	James Cross	John Vaughn			

## New York Independent System Operator - Committee Membership

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
Liberty Power Corp.	Other Suppliers	David Hernandez							
Morgan Stanley Capital Group	Other Suppliers	Patrick Murray	Karen Kochonies	Levon Kazarian	Doron Ezickson	Nikolai Markarian			
NRG Power Marketing LLC	Other Suppliers	✓ Brad Kranz	Lee Davis						
Ontario Power Generation Inc.	Other Suppliers	Colin Anderson	✓ Dave Barr	Ken Lacivita	Richard Gell				
PPM Energy	Other Suppliers	Thresa Allen	T.H. Rawls	Tom Shields					
PP&L Energy Plus	Other Suppliers	Tom Hyzinski	✓ Brad Weghorst	Sharon Weber					
PSEG Energy Resources & Trade	Other Suppliers	✓ Howard Fromer	Michael LaFalce						
Sempra Energy Trading	Other Suppliers	Dan Staines	Maria Agovino	Scott Englander	Barry Trayers	Harry Singh			
SESCO Enterprises, LLC	Other Suppliers	Mike Schubiger	Jim Thoresen						
Strategic Energy LLC	Other Suppliers	Jason Barker	Jeff Knox	Pamela Melton					
TransCanada Power Marketing	Other Suppliers	William Taylor	✓ Dan Congel	Elaine Beaudry					
U.S. Power Generating Co.	Other Suppliers	✓ Liam Baker	Mark Sudbey						
Long Island Power Authority	Public Power - Authorities	✓ Kevin Jones	Jim Wittine	Dave Clarke					
New York Power Authority	Public Power - Authorities	✓ William Palazzo	✓ Scott Brown	Maryam Sharif					
American Lung Association	Public Power - Environmental	Jamie Van Nostrand	Michael Seilback						
American Wind Energy Association	Public Power - Environmental	✓ Valerie Strauss	Carol Murphy	Rob Gramlich					
Environmental Advocates	Public Power - Environmental	Jamie Van Nostrand	Robert Moore	David Gahl	Jackson Morris				
Nat'l Resources Defense Council	Public Power - Environmental	Jamie Van Nostrand	Donna Decostanzo	Dale Bryk					
Pace University	Public Power - Environmental	Jamie Van Nostrand	Dan Rosenblum	Tom Bourgeois					
Scenic Hudson	Public Power - Environmental	Jamie Van Nostrand	Warren Reiss						
Bath Electric, Gas & Water Systems	Public Power - Munis & Co-ops	Matthew Benesh	✓ Richard Bolbrock	Mark Cordeiro					
City of Jamestown Board of Pub. Util.	Public Power - Munis & Co-ops	David Gustafson	David Leathers	Steven Kulig	✓ Tom Rudebusch				
Lake Placid Village	Public Power - Munis & Co-ops	Peter Kroha	✓ Richard Bolbrock	Mark Cordeiro					
Municipal Commission of Boonville	Public Power - Munis & Co-ops	Kenneth Stabb	✓ Richard Bolbrock	Mark Cordeiro					
Plattsburgh Municipal Lighting Dept.	Public Power - Munis & Co-ops	William Treacy	✓ Richard Bolbrock	Mark Cordeiro					
Village of Arcade	Public Power - Munis & Co-ops	Larry Kilburn	✓ Richard Bolbrock	Mark Cordeiro					
Village of Fairport	Public Power - Munis & Co-ops	Ken Moore	✓ Richard Bolbrock	Mark Cordeiro					
Village of Freeport	Public Power - Munis & Co-ops	Anthony Fiore	Roger Ehrler	✓ Tom Rudebusch					
Village of Rockville Centre	Public Power - Munis & Co-ops	Paul Pallas	Thomas Cardile	✓ Tom Rudebusch					
Village of Solway	Public Power - Munis & Co-ops	Anthony Modafferi	✓ Richard Bolbrock	Mark Cordeiro					
Village of Westfield	Public Power - Munis & Co-ops	Jim Hamilton	Matthew Benesh	Ken Moore					
Central Hudson Gas & Electric	Transmission Owners	Charles Freni	✓ John Watzka	✓ David Dittmann					
Consolidated Edison	Transmission Owners	✓ Stuart Nachmias	Richard Miller	✓ Neil Butterklee	Deirdre Altobell				✓ Norman Mah
National Grid	Transmission Owners	✓ Terron Hill	Madison Milhous	✓ Bart Franey	Joseph Rossignoli				✓ Roxanne Maywalt
NY State Electric Gas (NYSEG)	Transmission Owners	✓ Ray Kinney	✓ Patti Caletka	Hank Masti	Cliff Olson	Denis Wickham	Steve Jeremko		✓ Paul Gioia
Orange & Rockland, Inc.	Transmission Owners	None Assigned							
Rochester Gas & Electric	Transmission Owners	✓ Ray Kinney	✓ Patti Caletka	Hank Masti	Cliff Olson	Denis Wickham			
Acciona Wind Energy USA, LLC	Non-voting	Dan DuBois	Pete Zedick						
Ace Energy Company, Inc	Non-voting	Stephen Lynch							
ACENY	Non-voting	Carol Murphy	✓ Valerie Strauss						
Beacon Power Corporation	Non-voting	Judith Judson	Bill Capp						
Boundless Energy, L.L.C	Non-voting	Ross Ain	Gary Keevill	Mitchell Garber					
Caithness Energy, L.L.C	Non-voting	Ross Ain	Gary Keevill	Mitchell Garber					
Customized Energy Solutions	Non-voting	Tom Hagner							
Ecogen, L.L.C	Non-voting	Tom Hagner							
Energetix, Inc.	Non-voting	Barney Farnsworth							
Fluent Energy	Non-voting	Michael Mastroianni	David Koplas	Margie Miller					
Hudson River Energy Group	Non-voting	Frank Radigan	Richard Canfield						
Hydro-Quebec TransEnergie	Non-voting	Glenn Sylvain							
MAG Energy Solutions INC	Non-voting	Martin Gauthier	Martin Roberge						
New York Regional Interconnect	Non-voting	Chris Thompson	Leonard Singer						
NYS Department of Public Service	Non-voting	Bill Heinrich	Tammy Mitchell	Dave Drexler					
The Structure Group	Non-voting	Ishita Roy	Phung Nguyen						
Tom Halleran	Non-voting	Tom Halleran							
US Direct Energy Inc.	Non-voting	Stephen Lynch		Glen Smith					
William P. Short	Non-voting	Dan DuBois	Marc Schaefer	Joe DeVito					
Gateway Energy Services Corp.	Non-voting	Angela Schorr	Usher Fogel						
GenPower Trading LLC	Non-voting	Chris Bursaw	Steven Remillard						
Northeast Transmission Development Co	Non-voting	Dan Allegretti	Allyson Smith						✓ Bill Heinrich

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
									<ul style="list-style-type: none"> <li>✓ Mayer Sasson</li> <li>✓ Mike Cadwalader</li> <li>✓ Pallas Lee VanSchiak</li> <li>✓ Kerry Neubrandner</li> <li>✓ Rob Coulbeck</li> <li>✓ Dell Orto</li> <li>✓ <b>Maryam Sharif</b></li> </ul>

**NYISO and Hunton & Williams Members in Attendance:**

- |                   |                   |
|-------------------|-------------------|
| ✓ Ira Freilicher  | Hunton & Williams |
| ✓ Kevin Jones     | Hunton & Williams |
| Ira Freilicher    | Hunton & Williams |
| ✓ Rob Fernandez   | NYISO             |
| ✓ Rana Mukeriji   | NYISO             |
| ✓ Steve Whitley   | NYISO             |
| ✓ Karen Gach      | NYISO             |
| ✓ Rick Gonzales   | NYISO             |
| ✓ Zac Smith       | NYISO             |
| ✓ Elaine Robinson | NYISO             |
| ✓ Alex Schnell    | NYISO             |
| ✓ Leigh Bullock   | NYISO             |
| ✓ Greg Williams   | NYISO             |
| Debbie Eckels     | NYISO             |
| ✓ Mary McGarvey   | NYISO             |
| ✓ Nicole Bouchez  | NYISO             |
| ✓ Kate Hockford   | NYISO             |
| ✓ Pete Lemme      | NYISO             |
| ✓ Sheri Prevratil | NYISO             |
| ✓ Emilie Nelson   | NYISO             |
| ✓ Patti Farrell   | NYISO             |
| ✓ Janet Joyce     | NYISO             |
| ✓ Mike Swider     |                   |

**Key:**

- ✓ = In attendance