

NYISO Management Committee Meeting Minutes

May 21, 2007

New York State Nurses Association

10:00 a.m. to 12:40 p.m.

DRAFT Minutes of the Meeting

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

Mr. Matt Picardi (Coral Power), Chairman, called the meeting to order at 10 AM and welcomed the members of the MC. He noted that the order of the agenda items would be changed so that after the President's Report, agenda item #4, the Proposed Tariff Modifications re: Start-Up Cost and Supplemental Payment Guarantees would be presented, to be followed by the 2006 State of the Market Report and the other agenda items. The Members of the MC then identified themselves.

Mr. Ray Stalter (NYISO) stated that, due to input from a member received at the meeting, consideration of the minutes for the April 30 MC would be withdrawn from the meeting agenda. The April 30 minutes will be presented for approval at the next meeting.

2. President's Report

Mr. Mark Lynch, President and CEO of the NYISO, discussed his monthly report, starting with a reminder of the June 11 Joint Board/MC Meeting at the Sagamore Resort, where there will be a "Town-Hall" discussion format focusing on economic planning, market evolution, and metering initiatives. Mr. Lynch said that when all the sector comments are received, NYISO will, in conjunction with the Board, develop questions which will then be submitted to Market Participants (MPs). Individual MC Members will be asked to speak on agenda topics and Members who wish to be in the queue of Members speaking at the meeting in response to Member and Board comments should contact the NYISO.

The next item discussed by Mr. Lynch was the June 27 forum on energy efficiency, demand response, and advanced metering to be held at the Desmond Hotel. He noted a detailed brochure is to be distributed shortly.

Mr. Lynch's last item was the Price Correction Statistics with data through May 13, 2007. He noted that May to-date is tracking a little above April, but since the first of the year there have been dramatic improvements. Mr. Lynch said that with the implementation of the transmission demand curve in June or July the expectation is that there will not be a lot of price corrections through the summer.

3. Proposed Tariff Modifications re: Start-Up Cost & Supplemental Payment Guarantees

Mr. Tim Duffy of the NYISO discussed the tariff compliance issues with regard to two supplemental payments made to generators, namely, the daily Real-Time Bid Production Cost Guarantee (BPCG) and the Supplemental Event Credit (SEC). After a short description of the context and intent of these payments, Mr. Duffy provided a description of the issue regarding treatment of Start-Up Costs as provided for in the NYISO Market Services Tariff v. what the current software code accounts for.

Mr. Duffy said that sole issue that has been identified is that start-up costs are captured by the software in the daily BPCG calculation but not in the SEC. The NYISO's proposed remediation is that the code would remain the same, but that the Tariff would be modified to match the current software implementation wherein 100% of the Start-Up costs are accounted for in the daily BPCG calculation.

The basis for recommending this is that there is little linkage between Large Event Reserve or Max Generation pick-ups and unit start-up, and also the financial impact is minimal, at about \$2,000 per month. Mr. Duffy continued by providing the background for this issue which started with the discovery process undertaken by NYISO staff and continued with presentations at the Market Issues Working Group (MIWG) twice in April and at the Business Issues Committee (BIC) on May 9th. Mr. Duffy then concluded with the next steps for moving this issue through the NYISO governance process, concluding with the NYISO Board of Directors on June 11th.

Motion #1:

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, Tariff amendments adjusting treatment of start-up costs in the Real -Time BPCG formula for those intervals that have no Maximum Generation Pickups or Large Event Pickups, and excluding start up costs from the Real-Time BPCG formula for intervals with Maximum Generation Pickups or Large Event, as presented to the MC on May 21, 2007.

Motion passed unanimously by show of hands with abstentions.

5. Presentation of the 2006 State of the Market Report

Dr. David Patton of Potomac Economics, the NYISO's Independent Market Advisor, presented his *2006 State of the Market Report – New York Electricity Markets*. Dr. Patton started by saying that, with the implementation of the new real-time (RT) spot markets on February 1, 2005, the NYISO now operates the most complete and efficient set of electricity markets in the U.S. Dr. Patton noted that the NYISO's market is the only one that has attempted to solve the problem of block-loaded units setting prices, which is a significant problem elsewhere. Further, this market has the most advanced Ancillary Service markets, as well as the most advanced scheduling system for imports/exports and gas turbines via the use of RTC (Real-Time Commitment). Dr. Patton said this did not mean that there aren't improvements that couldn't be made, which are the subject of recommendations contained in the report.

Dr. Patton's next slide, #3 in the posted report, listed some of the benefits of the NYISO market; including starting the lowest-cost units, market signals that provide guidance for investing in new resources and maintaining existing resources, and developing demand response programs.

Moving on to Slide #16, Dr. Patton discussed Day-Ahead (DA) power v. Natural Gas (NG) prices. Energy prices fell in 2006 compared to 2005 mostly due to a drop in fuel costs, notably NG. Under the NYISO's competitive markets generators are compelled to bid in at their marginal costs, thus when fuel costs drop electricity prices will follow. Another factor Dr. Patton noted was less congestion between western and eastern NY owing to approximately 1 GW of new capacity in New York City, as well as to more detailed modeling of NYC constraints.

Dr. Patton's Slide #18 contained graphs of the average implied marginal heat rate, which adjusts for fuel prices. 2006 prices were comparable to 2005 except for July and August, where prices were nearly 20% higher in 2006 due to improved RT shortage pricing in 2006, which impacts DA prices as well.

With Slide #30, Dr. Patton noted uplift expenses showed a drop of \$53 million or almost 20% in 2006 v 2005 due to lower NG prices and also better management of gas turbine commitments in the RT market software.

On Slide #125 Dr. Patton displayed scheduling of 10-Minute Reserves in the East during shortage pricing intervals in 2006. When the NYISO has physical shortages, reliability margins decrease which is reflected in the costs of the different reserve classes via the operating reserve demand curves. The most common reserve type that experiences shortages is the 10-Minute total reserve in eastern NY. Dr. Patton next discussed hybrid pricing (with regard to inflexible units) and the physical and pricing dispatches in the NYISO's RTD software and the related impact on shortage pricing v. what was seen in the system physically. The results in 2006 as reflected in this slide showed a dramatic improvement (when compared to 2005) in consistency between the pricing dispatch and the physical dispatch passes of RTD during periods when the East was short of 10-Minute reserves.

Slide #127 contained similar data as #125, but only intervals where the NYISO was actually physically short of reserves v the pricing of 10-Minute Reserves. There were 85 intervals with physical reserves shortages, but no Eastern 10-Minute reserves shortage pricing. This represented 19 percent of the intervals with physical shortages, with the shortage being less than 100MW in 67 percent of those intervals, Dr. Patton noted.

Mr. Mark Younger of Slater Consulting opined that 85 intervals with physical reserves shortages but no Eastern 10-minute reserve shortage pricing was still significant. He asked Dr. Patton if he had looked specifically at many of those intervals would had gone away if the gas turbine improvements that had been implemented in the summer had been in place on January 1. Dr. Patton responded that there was only one such event before implementation, though there were still areas for improvement, such as recognizing steam units that are not following dispatch instructions.

On Slide 137, Dr. Patton discussed RT prices v. the NYISO's activation of its demand-response programs (EDRP/SCR), an area he noted in which the NYISO leads. Due to notification and dispatching limitations, there is no guarantee that these resources will actually be "in-merit", so the potential exists to reduce prices below efficient levels, according to Dr. Patton, though he noted that this had been addressed in part by the NYISO by making them eligible to set prices under certain conditions. Dr. Patton said he thought there were further improvements to be made regarding setting prices in more local areas to lessen the price impacts on a zonal basis.

Slides 39 and 40 were next with Enhanced New Revenue Analysis for a gas combined-cycle (CC) unit and a GT, respectively, in 5 different locations within the NYCA for the years 2004-2006. Dr. Patton explained that net revenue is the total revenue that a new unit could earn over and above the variable production costs for the unit. He continued by discussing the differences between CCs and GTs. Interpreting the results, Dr. Patton noted that the GT is not likely to be economic based on the 2006 results, with the possible exception of Long Island, which he said should not be a big surprise given that net revenue expectations for future years were not included which may not be in a surplus situation as 2006 was.

Mr. Fromer asked if the GTs were assumed to be dual-fuel capable; Dr. Patton responded that the assumption was that the units were NG fueled only. Mr. Fromer next asked if intra-day NG pricing was included, to which Dr. Patton replied it was not, though that had been analyzed in past analyses. Although the NG RT pricing data is difficult to obtain, the expectation would be that net revenues would generally be lowered in these situations, which would bolster the conclusion made earlier that GTs would not be likely to be economic.

In response to questions from Mr. Younger, Dr. Patton replied that the average forced outage rates used reflected the dual-fuel issue, with the exception of locational gas availability issues impacting GT reliability. He also said that that the implied capacity factors were calculated for his analyses and would send that to the members, as well as Astoria load pocket information.

With respect to the combined-cycle results in Slide 39, there was a drop in net revenue for NYC locations due to reduced congestion there from new capacity additions. In response to a question from Mr. Younger, Dr. Patton said he would provide the unit minimum run times used for his analysis. Mr. Fromer asked if combined cycle units were treated the same between DA and RT with regard to their configuration (i.e. one or more GTs on a steam unit). Dr. Patton responded that there were no supplemental commitment changes considered to take place after the DA.

A discussion followed on the impact of new generators and increased load over time on capacity and energy prices in different locations, and the economics for the two types of plants, including the impacts of any potential mitigation.

With reference to Slide #98, Dr. Patton talked about the value of RT congestion on major interfaces. Total congestion decreased by over \$200 million, declining from \$990 million in 2005 to \$770 million in 2006. He noted that there are two primary measures of congestion; the first is collected by the NYISO in the DA and RT markets and paid out to the holders of Transmission Congestion Contracts (TCCs), which is substantially different from the production cost benefits of eliminating all congestion.

Returning to the slide, Dr. Patton noted that 2006 showed a drop due to lower fuel costs, as well as from the impact of new generation on the value of RT congestion for the NYC interfaces. Improved network modeling also had an impact on NYC interfaces. Also, Dr. Patton noted that Thunderstorm Alerts (TSAs) have a large impact on constrained interfaces in up-state New York, and is reflected in the value of up-state congestion.

DA v RT Price convergence, Dr. Patton said, was much better in 2006 v. the prior year, where shortage pricing, to the extent it might be expected in the RT, was not fully reflected in the DA market. Dr. Patton next discussed DA v RT prices in NYC load pockets, where the difference might be greater, v. the NYC zone as a whole, which led to his recommendation that the NYISO consider allowing virtual trading at a more detailed level than the zonal level. In response to a question from Mr. Bleiweis, Dr. Patton said that the convergence seen in the NYISO is similar to New England and the Mid-West, but there were unexplained differences v. PJM.

Dr. Patton next discussed Ancillary Services price convergence, which for the most part has performed quite well with the introduction of the multi-settlement system for reserves, with the exception of 10-Minute total reserve prices in eastern NY. This was the subject of Slide #55. Contributing factors for that disparity include the limitations on the flexibility of the offers allowed by the generators for this product. Also, the report recommends that the NYISO study offering virtual trading to help arbitrage these price differences.

Starting with Slide #75, Dr. Patton analyzed energy offer and short-term derating patterns v RT load which is a method used to find examples of withholding, especially during high load periods. Dr. Patton noted there was no upward trend of deratings on Slide 75 shown that might indicate physical withholding. In response to a question from Mr. Younger, Dr. Patton said that long-term deratings (not included in this slide) are those that last more than 30 days or are "permanent" deratings where a unit doesn't achieve its full DMNC level for an extended period of time. This does not include a temperature derated unit.

Slide #80, (and #81 with the output gap at a lower mitigation threshold) on the "Output Gap at Mitigation Thresholds v. Actual Load in East NY, RT Market, Peak Hours, 2006", shows potential economic withholding below levels that would warrant mitigation. This analysis identifies the quantity of economic capacity that is not producing energy or ancillary services

due to suppliers submitting offers (all bid components were included) well above the competitive reference levels. Little evidence of withholding is shown for either threshold as measured by the output gap even at high load/output levels.

The Summary of Real-Time Mitigation in NYC, Slide #85, shows the frequency of mitigation in load-pockets within that zone. Dr. Patton noted that these figures were extremely low, as they were for the DA. This was due in part to improved load-pocket modeling.

Slide #64 showed Ancillary Services Expenses for the years 2004-2006. These expenses have risen, partially because under SMD2 the true costs of providing reserves in RT is now captured, and partially because higher fuel costs increased the opportunity costs of low-cost units providing ancillary services rather than energy.

Dr. Patton continued on this slide with what he described as a relatively confusing issue in that 10-minute non-spin reserves showed negative net expenses in several months. This occurs when generators sell reserves at low DA prices and buy back their obligations in RT at higher prices during reserve shortages when they produce energy. In response to a question from Mr. Younger, Dr. Patton said there were certainly units in NYC that were required to bid in at zero in the DA, and the resources have had reason to believe they would likely be mitigated if they bid higher than \$10. Dr. Patton said that this issue should be revisited to make sure that units could offer in at levels that reflected their expectations regarding potential shortage pricing in the RT.

Ms. Doreen Saia (Mirant) said that she thought there were also similar issues for 10-minute spinning reserves due to tight mitigation levels. She opined that problems such as these came about with the requirement under SMD2 that Installed Capacity (ICAP) Suppliers bid in ancillary services as well as energy, whereas previously ICAP units only had to bid in energy for the DA market. Dr. Patton responded that, as shown on Slide #57, the DA price was almost always higher than the RT price, so that the DA prices more than adequately price issues that might occur in RT, though there weren't a lot of issues in RT that affected the 10-minute spin. Mr. Younger said he felt that it was clear that inappropriate results have come about by requiring generators to offer in reserves in at low prices that do not reflect their DA opportunity costs, especially given the presence of virtual bidding and price-capped load bidding in the DA. Dr. Patton replied that this is one of the areas that will be studied.

On Slide #8 on the NYISO capacity market, which is part of the report's Executive Summary, Dr. Patton noted there have been concerns about the competitiveness of the capacity market in NYC. He continued by noting that the report recommends that the NYISO consider whether additional capacity zones are needed outside of NYC and Long Island. This was due to his evaluation of the capacity markets' long-term economic signals and the fact that resources are needed relatively soon in downstate areas.

Mr. Bart Franey and Mr. Jerry Ancona of National Grid questioned Dr. Patton's foundation for his proposed new capacity zone in the Hudson Valley as they did not see supporting analysis in the report. Their comments questioned the appropriateness of Dr. Patton's recommendation for an additional capacity zone in the Executive Summary given Dr. Patton's "Long Term Market Signals Conclusions" (page 41) that indicated "net revenue levels in 2006 might support new CC investments in Long Island, NYC, and the Hudson Valley". They further claimed that the need for resources in zones outside New York City is neither substantiated by Dr. Patton's report or any NYISO report and, in comparison to New York City, the ratio of load to capacity in the Hudson Valley, including transmission capability, is at least 4 to 1. According to Mr. Franey, it was unclear why more capacity is needed in an area that is in surplus. They proposed this recommendation be eliminated from the final report.

Dr. Patton responded that in general there have been concerns about the Hudson Valley area in particular, and subsequently more analysis was warranted. Dr. Patton further stated that the recommendation would be to have more studies performed, not necessarily that it was a given conclusion that more capacity was needed. A discussion followed as to what prior work has shown with regard to capacity needs and costs within Hudson Valley areas v the NYCA as a whole.

Slides 11-13 listed some of Dr. Patton's recommendations with respect to RTC enhancements, unit dispatch levels in the RT market, transmission demand curve implementation, and finally, the modeling in DA of local reliability rules v. NOx constraints in NYC. Mr. Neil Butterklee of Con Ed asked that PJM be added to item #7 on working with ISONE to develop and implement Intra-hour Transaction Scheduling to better utilize the transfer capability between regions. A discussion ensued regarding the differences in market rules and opportunities for arbitrage between control areas.

The discussion returned to bullet #6, where Mr. Ray Kinney of NYSEG said that the recommendation, among others, to allow NYISO operators to pre-commit certain units to lower uplift costs borne by the market has been discussed for some number of years. Mr. Rana Mukerji of the NYISO responded that internal cost-benefit analyses are under way as to which recommendations could be put in place this summer.

5. Board Selection Subcommittee (BSSC) Update

Mr. Picardi went through his presentation which listed recent developments, such as the May 17 meeting, which was the first BSSC meeting, where he was named as chair. Topics at that meeting included choosing a search firm and plans for future meetings. The intent is to provide a recommendation at the August 29 MC meeting. Also, a schedule is being developed for upcoming meetings. Mr. Paul Gioia, for the Transmission Owners, asked if there was any discussion about touching base with the NYISO's Governance Committee. Mr. Ira Freilicher of Hunton and Williams responded that there was, and he then consulted the Governance Committee, and that the expectation is that a member of that committee, probably the chairman, will attend candidate interviews.

6. New Business

None

7. Adjourn

Meeting adjourned at 12:40 PM.

Respectfully Submitted,
Bill Porter
Recording MC Secretary

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May 21, 2007

NYSNA

MOTION FROM THE MEETING

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Motion passed unanimously by show of hands with abstentions.

New York Independent System Operator - Committee Membership

Management Committee - Attendance May 21, 2007 - Albany, NY - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
Metropolitan Transportation Authority	End Use - Large Cons. Gov.	Jesse Samberg	Gary Caplan	Walter McCarroll					
NYS Energy Research & Develop. Auth.	End Use - Gov. Agency/Aggr.	Paul DeCotis	Karl Michael	David Coup	Erin Hogan	Christopher Hall			
The City of New York	End Use - Gov. Agency/Aggr.	Michael Delaney	Gil Quiniones	Thomas Simpson	Jonathan Wallach	Craig Wilson			
Alcoa/Reynolds Metals Company	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Cara Lewis					
Atco Properties & Management Inc.	End Use - Large Consumer	David Bomke	George Diamantopoulos						
IBM Corporation	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Cara Lewis					
Occidental Chemical Corp.	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Cara Lewis					
Praxair Inc.	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Cara Lewis					
Wegmans Food Markets	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Cara Lewis					
American Sugar Refining, Inc.	End Use - Small Consumer	John Gebhard	Quintin George	Catherine Luthin	✓ John Dowling	Jennifer Kearney			
Association for Energy Affordability, Inc.	End Use - Small Consumer	David Hepinstall	Larry DeWitt						
Beth Israel Health Care System	End Use - Small Consumer	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi	Doug Elfner			
Columbia University	End Use - Small Consumer	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi	Doug Elfner			
Mount Sinai Medical Center	End Use - Small Consumer	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi	Doug Elfner			
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	Jennifer Kearney	✓ Tariq Niazi	Doug Elfner			
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				
Astoria Energy LLC	Generation Owners	Joseph Swift	Leonard Singer	Chuck McCall					
Calpine	Generation Owners	Brett Kruse	Kris Zadlo	Brent Hebert					
East Coast Power Linden Holding LLC	Generation Owners	Thomas Hoatson	Robert Licato	Kathy Benini					
Edison Mission Marketing & Trading	Generation Owners	William Roberts	Jeffrey Ellis	Peter Brown	Rich Mooney				
Entergy Nuclear Northeast	Generation Owners	Marc Potkin	Angelo Vai	✓ Ron Mackowiak					
Horizon Wind Energy	Generation Owners	Patrick Doyle	P.J. Saliterman	Charlie Turlinski	Tod Nash	Karen Dressel	Richard McMichael		
Indeck Energy Services	Generation Owners	Mike Ferguson	John Schrage	✓ Mark Younger					
Innovative Energy Systems Inc.	Generation Owners	Carol Muessigbrodt	Peter Zelfiff						
KeySpan Ravenswood, LLC	Generation Owners	Jim Brennan	Rich Hohlman	Joe Vignola	✓ Jim D'Andrea	✓ Madison Milhous	Rich Rapp		
Mirant New York, Inc.	Generation Owners	✓ Philip Smith	✓ Doreen Saia						
New Athens Generating Co.	Generation Owners	Jack Breen	Chris Bursaw	Dan DeVinney	Rich Felak				
Noble Environmental Power LLC	Generation Owners	Thomas Swank	Liz Grisaru						
Selkirk Cogen Partners, L.P.	Generation Owners	Tim Bittig	Steve Kamppila						
TransCanada Power Marketing	Generation Owners	William Taylor	Elaine Beaudry						
AB Energy Inc.	Other Suppliers	Andrew Bachert							
Advantage Energy, Inc.	Other Suppliers	Mark Hess							
Amerada Hess Corporation	Other Suppliers	Hemant Jain	Kevin Laguardia	Blas Hernandez	George Braulke			✓ Garrett Bissell	
Brookfield Energy Marketing Inc.	Other Suppliers	✓ Robert Ricketts	Daniel Whyte						
Cinergy Capital and Trading	Other Suppliers	John Deeds	Walt Yeager						
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							
Consumer Powerline	Other Suppliers	Vinay Gupta	Mike Gordon	Ray Stirbys	Chau Shen	Pamela Quinlin			
Coral Power, LLC	Other Suppliers	✓ Matt Picardi	Marc Overdyk	Dave French					
Cross Sound Cable Co.	Other Suppliers	John Miller	Brian Reinhart	✓ Bradley Railing	✓ Jose Rotger	Sadao Milberg			
DC Energy	Other Suppliers	✓ Bruce Bleiweis	Dean Wilde	Andrew Stevens	Chris Carpenter	Matthew Tate			
Dynegy	Other Suppliers	Barry Huddleston	Jason Cox	Kevin White					✓ Doreen Saia
Energy Curtailment Specialists, Inc	Other Suppliers	Glen Smith	Stephen Lynch	Marie Pieniazek	Robert Boyle				
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	Wesley Anderson		
Exelon Generating Co. LLC	Other Suppliers	Denise Foster	Jack Crowley						
Fortistar/Lockport Energy Associates, L.P.	Other Suppliers	Roger Kelley	Tom Gesicki	✓ Mark Younger	✓ Glenn Haake				
FPL Energy	Other Suppliers	David Applebaum	Fernando DaSilva	Ron Scheirer					✓ Glenn Haake
Galt Power	Other Suppliers	✓ Rick Mancini	Stephen Fernands						
HQ Energy Services	Other Suppliers	Michel Prevost	✓ Paul Norris	Erik Bellavance					
KeySpan Energy Services	Other Suppliers	Terrence Kain	✓ Jim D'Andrea	Edwin Kichline	James Cross	John Vaughn			
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	Other Suppliers	Jim Mayhew	Lee Davis						
Ontario Power Generation Inc.	Other Suppliers	Barry Green	✓ Dave Barr	Ken Lacivita	Scott McArthur	David Barr	✓ Glenn Haake		
PPM Energy	Other Suppliers	Thresa Allen	T.H. Rawls	Tom Shields					

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
PP&L Energy Plus	Other Suppliers	Tom Hyzinski	✓ Joseph Langan	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				
SESCO Enterprises, LLC	Other Suppliers	Mike Schubiger	Jim Thoresen						
Strategic Energy LLC	Other Suppliers	✓ Jason Barker	Jeff Knox	Pamela Melton					
TransEnergie U.S. Ltd.	Other Suppliers	Raymond Cox	Michael Jacobs						
U.S. Power Generating Co.	Other Suppliers	✓ Liam Baker	Mark Sudbey						
Williams Power Company	Other Suppliers	David Singer	Mark Lassman	Robert O'Connell					
Long Island Power Authority	Public Power - Authorities	Kevin Jones	Jim Wittine	Dave Clarke					
New York Power Authority	Public Power - Authorities	✓ William Palazzo	Robert Gow	Kim Byham					
American Wind Energy Association	Public Power - Environmental	✓ Valerie Strauss	Larry DeWitt	Douglas Ward	Mike Jacobs	Carol Murphy			
Environmental Advocates	Public Power - Environmental	Anne Reynolds	Larry DeWitt						
Nat'l Resources Defense Council	Public Power - Environmental	Dale Bryk	Larry DeWitt						
Pace University	Public Power - Environmental	✓ Christopher Young	Fred Zaleman						
Scenic Hudson	Public Power - Environmental	Larry DeWitt							
Bath Electric, Gas & Water Systems	Public Power - Munis & Co-ops	Matthew Benesh	✓ Tim Bush	Jim Hamilton	Ken Moore	Jack Brown			
City of Jamestown Board of Pub. Util.	Public Power - Munis & Co-ops	✓ David Gustafson	Wally Haase	John Oelbracht	Steven Kulig	✓ Tom Rudebusch			
Lake Placid Village	Public Power - Munis & Co-ops	Peter Kroha	✓ Tim Bush						
Municipal Commission of Boonville	Public Power - Munis & Co-ops	Kenneth Stabb	✓ Tim Bush						
Plattsburgh Municipal Lighting Dept.	Public Power - Munis & Co-ops	Jack Brown	✓ Tim Bush						
Village of Arcade	Public Power - Munis & Co-ops	Larry Kilburn	✓ Tim Bush						
Village of Fairport	Public Power - Munis & Co-ops	Ken Moore	✓ Tim Bush	Paul Pallas					
Village of Freeport	Public Power - Munis & Co-ops	Hubert Bianco	Anthony Fiore	Tom Rudebusch					
Village of Rockville Centre	Public Power - Munis & Co-ops	Paul Pallas	Jim Hamilton	Matthew Benesh	Jim Hamilton	Jack Brown	Ken Moore	✓ Tom Rudebusch	
Village of Solvay	Public Power - Munis & Co-ops	Anthony Modafferi	✓ Tim Bush						
Village of Westfield	Public Power - Munis & Co-ops	Jim Hamilton	✓ Tim Bush	Matthew Benesh	Jack Brown	Ken Moore			
Central Hudson Gas & Electric	Transmission Owners	Charles Freni	✓ John Watzka						
Consolidated Edison	Transmission Owners	Stuart Nachmias	✓ Neil Butterklee	✓ Deidre Facendola					
National Grid	Transmission Owners	✓ Jerry Ancona	Wes Yeomans	Janet Gail Besser	Herb Schrayshuen	✓ Bart Franey	Terron Hill		
NY State Electric Gas (NYSEG)	Transmission Owners	Ray Kinney	✓ Patti Caletka	Hank Masti	Cliff Olson	Denis Wickham			
Orange & Rockland, Inc.	Transmission Owners	None Assigned							
Rochester Gas & Electric	Transmission Owners	Ray Kinney	✓ Patti Caletka	Hank Masti	Cliff Olson	Denis Wickham			
Ace Energy Company, Inc	Non-voting	Marie Pieniasek	Stephen Lynch						
ACENY	Non-voting	Carol Murphy	Valerie Strauss						
Boundless Energy, L.L.C	Non-voting	John Tompkins	Brian Chernack	Chuck Gilbert					
Caithness Energy, L.L.C	Non-voting	Ross Ain	Gary Keevill	Mitchell Garber					
Customized Energy Solutions	Non-voting	✓ Rick Mancini	Stephen Fernands	Bill Schofield					
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							
NU / Select Energy	Non-voting	Gunnar Jorgensen	Chris Dubay						
NYS Department of Public Service	Non-voting	Penny Rubin	✓ Rajendra Addepalli						
The Structure Group	Non-voting	Bob Furry	Ishita Roy	Kevin Dunlap					
Tom Halleran	Non-voting	Tom Halleran							
US Direct Energy Inc.	Non-voting	Marie Pieniasek	Stephen Lynch						
William P. Short	Non-voting	William Short	Marc Schaefer	Joe DeVito	John Brodbeck	Ron Matlock	Paul Savage	Roberto Denis	
zNew Member	Non-voting								
zNew Member	Non-voting								
zNew Member	Non-voting								
zNew Member	Non-voting								
zNew Member	Non-voting								
zNew Member	Non-voting	None Assigned							

NYISO and Hunton & Williams Members in Attendance:

- ✓ Ira Freilicher Hunton & Williams
- Kevin Jones Hunton & Williams
- James Schmidt Hunton & Williams
- ✓ Rob Fernandez NYISO
- ✓ Mark Lynch NYISO