

**New York Independent System Operator  
Joint meeting of**

**BUSINESS ISSUES COMMITTEE MEETING**  
**and**  
**OPERATING COMMITTEE MEETING**  
Wednesday, October 22, 2003

The Desmond  
660 Albany Shaker Road  
Albany, NY 12110

**Minutes**

I. Introductions

Mr. Larry DeWitt, Chairman of the Business Issues Committee (BIC) called the meeting to order at 9:30 a.m. and welcomed the members of the BIC and OC. Mr. DeWitt stated the meeting's agenda and schedule for the remainder of the day.

II. Proposed Revised Market Rules Associated with the Implementation of the Real Time Systems (RTS) Project

Mr. Dewitt outlined issues that Market Participants have been concerned with regarding the market revisions for the RTS project. Ms. Mollie Lampi, NYISO Senior Attorney, announced that all the issues raised by MPs have been helpful to the NYISO in better understanding market design concerns. Ms. Lampi provided an overview of the issues that the NYISO would be providing details on today.

Mr. Andrew Hartshorn presented "Reserve Demand Curve Issues". Mr. Hartshorn provided reasons for the implementation of the reserve demand curve design and noted its importance. Mr. Hartshorn noted that the pricing is targeted to the supply side of the market which promotes consistency according to system conditions. Mr. Hartshorn stated that by pricing the reserve requirements properly, proper pricing should be maintained during Reserve Pickups (RPU). The tables with the reserve requirements and the demand curves that are proposed for implementation were displayed. Mr. Hartshorn noted that the demand curves were developed with the input from numerous NYISO departments and staff, as well as numerous discussions with MPs; he reviewed the factors considered during development process.

Mr. Jim Scheiderich asked when an RPU is terminated and the regulation market goes back into effect, will the prices spike because of the type of units that will be involved.

Mr. Hartshorn stated that this would not occur, and he would provide more details as it would be covered later in the presentation.

Mr. Hartshorn reviewed the factors leading to revision of the demand curve prices. NYISO Operations was concerned about the amount of spinning and 10-minute total reserve and pricing. Mr. Younger asked if prices went above the demand curve, would the curve be revised. Mr. Hartshorn indicated that it would be revised. Mr. David Patton stated in the event that we don't procure the reserves needed, the chances of being short in the NYCA and not short in the East are low. Mr. Younger was concerned with the possibility of not purchasing from an external area for \$650 to meet the requirements for NYCA, but purchasing up to \$1000 for shortages in the East. Mr. Hartshorn responded that based on the historical data, this is not likely to occur, but if it does the curves can be changed.

Mr. Hartshorn provided examples of what the system would look like immediately following an RPU and he reviewed the continuum of scheduling and pricing solutions. He indicated that the prices can jump, but that this is not a result of the implementation of the reserve demand curve, rather it is the impacts of disjoint supply curve. During an RPU, the regulation market is suspended, and any dispatchable online capacity will be dispatched up which would bump the unit up higher on the price curve. Mr. Meyer Sasson asked if the units that are needed in order to go into a shortage situation would remain at a fixed price causing higher prices. Mr. Hartshorn responded that that a unit cannot easily transition from flexible to become a fixed unit and the Market Monitoring Unit (MMU) will be closely monitoring units that change to being fixed units; units are not allowed to change to fixed units unless there is an operational problem.

Mr. Hartshorn stated that adjustments for the 30-minute demand curve can include recallable exports. Mr. Younger pointed out that this only works if there are actually exports that can be used. Mr. Tim Bush was concerned with the process and he indicated studies have been done that look at the loss of units and there is a certain level of acceptable risk. Mr. Bush added that when using this curve, reserves will be bought at any costs and it does not reflect the fact that there is time to deal with the situation. Mr. Chuck King indicated that the curve can provide an incentive to bring in MWs during continuous high load system conditions and provides a market based solution to help the NYISO Operators get out of shortage conditions as quickly as possible. Mr. Hartshorn added that the reserve demand curves will provide prices that are consistent with the state of the system regardless of whether it is in reserve pickup or normal operation. Mr. Bush stated that the software design does not allow flexibility in the way the system operates during RPUs, and stated it should because the reliability criteria allows for flexibility. Mr. Patton responded that the NERC criteria allows a certain amount of time to restore the reserves, but the NYISO should not necessarily be operating in this situation. Mr. Hartshorn stated that if the constraints on reserves were relaxed the price consistency problem in SCD reserve pickups today would not be resolved. Once this is implemented, NYISO Operations will not change their current procedures. Mr. Hartshorn stated that

this process looks for the least cost solution to solve the constraints.

The NYISO provided responses to a number of questions and issues raised at previous meetings. Mr. Hartshorn discussed how a load pickup differs from a RPU. If the load pickup is predictable, then it won't look like an RPU at all because RTC and RTD will be expecting this and will plan for it by committing and dispatching additional resources or scheduling additional imports. If the load pickup is unanticipated, there are a number of solutions available in RTD. Based on system conditions, Operators have the option to go into RTD-CAM, which would bring on more resources without initiating an RPU. It was asked if the reinstatement of regulation after an RPU may cause the demand curve to activate immediately following the RPU. Mr. Hartshorn stated that even though the regulation sits off to the side, it is co-optimized with the other resources. Regulation is usually 5 minutes of the unit's ramp rate and can usually recover in a single dispatch step. This may occur in cases where the regulation providers were capacity restrained during the RPU.

Another issue of concern to MPs was what the system would look like during a period of sustained \$1,000 prices. Mr. Hartshorn explained during these conditions there would be little or no 30-minute reserves on the system because the 30-minute reserves pricing stops at \$200 and bidding would be into the energy market. RTC would be scheduling expensive imports to maintain reserves. Due to the 30-minute shortage of reserves, the EDRP and SCR programs would be activated. Ms. Saia asked if the SCR and EDRP activation would still require notification. Mr. Hartshorn indicated these would still require notification. Mr. Patton stated this example was based on past system conditions and the curves have been set to satisfy these system conditions.

Another concern of MPs was under what conditions could the energy prices reach \$1,700. Mr. Hartshorn stated that it is not very likely this would occur. All constraints would need to be violated and all actions at the \$1,000 pricing would have been used as well as activation of the SCR and EDRP and the system would most likely be operating in the major emergency mode. NYISO Operations has never seen all six NYCA and eastern constraints violated. Mr. Fromer stated that looking out to summer 2004, the system will be adding about 1,000 MW of new resources, which makes it more unlikely that peak situations with limited resources experienced in summer 2002 would occur. Mr. Hartshorn stated units will no longer be able to offer dispatchable energy and without providing reserves. A question was asked related to the reserve price setting mechanism during EDRP events specifically related to the situation where Long Island units might be a marginal provider questioning why the LI units would be prohibited from setting clearing price for reserves in the eastern area. Mr. Hartshorn indicated when we overlay the administrative \$500 prices during EDRP conditions, the consistency between the energy schedules, energy prices, reserve schedules and reserve prices is removed. It is this consistency in normal pricing that allows the LI units to set Eastern prices. The rule that is being applied is not discriminatory to Long Island as all areas and product qualities are potentially impacted by the rule that was chosen. The pattern of prices defined by the

dispatch costs associated with each locational reserve cannot be maintained with the administratively set energy prices. Lost opportunity costs will increase and set the clearing price for units in the east during the very limited times EDRP is called.

Mr. Hartshorn discussed the possibility of the periodic review resulting in reductions to the reserve demand curves. Mr. Hartshorn stated that if the demand reserve curve is not reached, it does not mean it's too high. If the all resources were used, then it is possible that the demand curve could be lowered, but we will need to make sure the shadow prices are appropriate and we also need to consider seasonality or other conditions. Mr. Sasson stated that while we need to maintain reliability, this method will be more expensive than Operators taking action. Mr. Hartshorn stated that if Operators need to take action, they are currently allowed to purchase emergency power at prices up to 150% of the LBMP of neighboring control areas. Mr. Patton stated that this is not a trade off between reliability and the market; we are trying to get more consistent market prices by providing the proper market signals.

Mr. Ted Murphy presented "Overview of RTS Tariff Revisions". Mr. Murphy noted changes made to the Service Tariff Article 2 included updating definitions, standardization of references and the new bidding modes. These identical revisions will also be made to Article I of the OATT. Mr. Murphy reviewed the changes that were made in Service Tariff Article 4. Article 4 has been reorganized for better clarity; the day ahead and real time rules have been separated into two areas.

Mr. Murphy reviewed the changes in the Services Tariff Attachment B. Identical changes will be done in the OATT, Attachment J. The Service Tariff Attachment C has been renamed to BPCG Formulas. Mr. Murphy reviewed the changes that were necessary in Service Tariff Attachments H and J as well as various other revisions. Each of the slides referenced exact locations of the changes to the tariffs, either by sheet number or by section of the tariff. Final changes to the formulas in Attachment J will be posted by Monday. The complete set of changes is located on the NYISO website.

Mr. Scheiderich was concerned with the process that would be used during market trials. He suggested that prior to market trials, sectors should be allowed to designate a representative to review the testing the NYISO is doing in-house. He proposed these select MPs could observe and raise main questions for the group. Mr. Scheiderich suggested there be discussion and rules could be established at the next BIC and OC meetings to clarify information that MPs would have access to.

Mr. Dewitt stated that this had been raised at the board meeting and Mr. Museler had agreed with an approach that is similar to this. Mr. Scheiderich stated that he would like to hear if any MPs were concerned with this approach. Mr. Dewitt agreed there may be issues associated with confidentiality but noted that action could not be taken today and he suggested this could be further discussed at a future Market Structures Working Group (MSWG) meeting. Mr. King stated the NYISO feels this is a good idea, but he noted a

concern raised by Mr. Fell in that someone that that has not been involved in the project may misinterpret how the program is functioning.

Ms. Saia stated that MPs wanted to be sure the tariff language is correct and that some modifications are still needed, but that if the motion was amended, she would support the changes. Ms. Lampi stated that the NYISO is comfortable advising the Management Committee (MC) that the tariff they are voting on is the tariff that has been posted. The changes that will be posted on Monday with the reasons for the changes. These changes will be posted and distributed to the group and if necessary, an MSWG conference call meeting can be held prior to the MC.

### **Motion #1**

The Business Issues Committee, having reviewed the market changes that the SMD2, Real Time Scheduling system project will require, as presented at the October 8 Business Issues Committee and October 22, 2003 Special Joint OC/BIC meeting, and in a series of Market Structures Working Group meetings, hereby approves the concept, including the levels for the nine reserves demand curves and the regulation demand curve and the process to review and modify those curves that were proposed at the October 22, 2003 Special Joint OC/BIC meeting, and recommends to the Management Committee that it approve, the SMD2, Real Time Scheduling system proposal to be submitted with the ISO Board's concurrence under Section 205 of the Federal Power Act. The BIC leaves it to the Management Committee to approve the tariff language as accurately reflecting the concepts approved. This approval recognizes that NYISO and MPs will work together to review the results of market trials and pursue through tariff amendments or otherwise, modifications that appear necessary to fulfill the indicated intentions, or to address other undesirable results that are identified through the market trials process.

Ms. Saia stated that the supply sector is willing to commit to working with the NYISO, if the NYISO will have gas prices that are more in line with the actual prices. Mr. Jim Savitt stated the NYISO is willing to work with suppliers on this issue and that Technical Bulletins 67 and 68 would be amended with committee input address this concern. Ms. Saia was concerned with the possibility of gas prices becoming volatile and units on the activation list being AMPed. Mr. Savitt stated that units on the watch list are entitled to the same process protections that other units have.

The motion passed with 3 abstentions, multiple organizations.

### **Motion #2**

The Operating Committee, having reviewed the market changes that the SMD2, Real Time Scheduling system project will require, as presented at the October 9 Operating Committee and October 22, 2003 Special Joint OC/BIC meeting, and in a series of

Market Structures Working Group meetings and SOAS review, hereby approves the concept, including the levels for the nine reserves demand curves and the regulation demand curve and the process to review and modify those curves that were proposed at the October 22, 2003 Special Joint OC/BIC meeting, and recommends to the Management Committee that it approve, the SMD2, Real Time Scheduling system proposal to be submitted with the ISO Board's concurrence under Section 205 of the Federal Power Act. The OC leaves it to the Management Committee to approve the tariff language as accurately reflecting the concepts approved. This approval recognizes that NYISO and MPs will work together to review the results of market trials and pursue through tariff amendments or otherwise, modifications that appear necessary to fulfill the indicated intentions, or to address other undesirable results that are identified through the market trials process.

The motion passed with 3 abstentions, multiple organizations.

III. Adjournment

The meeting adjourned at 1:00 p.m.

Respectfully Submitted,

Ernie Cardone  
NYISO Committee Liaison

Ray Stalter  
NYISO Committee Liaison

## **NYISO Joint Operating / Business Issues Committee Meeting**

October 22, 2003

*Desmond Hotel, Albany NY*

### **MOTIONS FROM THE MEETING**

#### **Motion #1:**

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***(Motion passed unanimously by a show of hands with abstentions)***

#### **Motion #2:**

The Operating Committee, having reviewed the market changes that the SMD2, Real Time Scheduling system project will require, as presented at the October 9 Operating Committee and October 22, 2003 Special Joint OC/BIC meeting, and in a series of Market Structures Working Group meetings and SOAS review, hereby approves the concept, including the levels for the nine reserves demand curves and the regulation demand curve and the process to review and modify those curves that were proposed at the October 22, 2003 Special Joint OC/BIC meeting, and recommends to the Management Committee that it approve, the SMD2, Real Time Scheduling system proposal to be submitted with the ISO Board's concurrence under Section 205 of the Federal Power Act. The OC leaves it to the Management Committee to approve the tariff language as accurately reflecting the concepts approved. This approval recognizes that NYISO and MPs will work together to review the results of market trials and pursue through tariff amendments or otherwise, modifications that appear necessary to fulfill the indicated intentions, or to address other undesirable results that are identified through the market trials process.

***(Motion passed unanimously by a show of hands with abstentions)***

**New York Independent System Operator - Committee Membership**

**Operating Committee - Attendance October 22, 2003 - 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.	Paul DeCotis							✓ Erin Hogan
The City of New York	End Use - Gov. Agency/Aggr.	✓ Michael Delaney	Gil Quiniones	Scott Butler	✓ Jonathan Wallach				
Alcoa/Reynolds Metals Company	End Use - Large Consumer	✓ Robert Loughney	✓ Michael Mager						
ATCO Management Co.	End Use - Large Consumer	Peter DiCapua	Scott Petersen	George Diamantopoulos					
IBM Corporation	End Use - Large Consumer	Robert Loughney	✓ Michael Mager						
Occidental Chemical Corp.	End Use - Large Consumer	Robert Loughney	✓ Michael Mager						
Praxair Inc.	End Use - Large Consumer	Christian Lenci	Robert Loughney	✓ Michael Mager					
Xerox Corporation	End Use - Large Consumer	Robert Loughney	✓ Michael Mager						
Metropolitan Transportation Authority	End Use - Large Cons. Gov.	✓ Jesse Samberg	Gary Caplan	Walter McCarroll					
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			
Building and Realty Institute	End Use - Small Consumer	Herb Rose	Judith Mondre	Ted Lee	✓ Tariq Niazi				
Citizens Advisory Panel	End Use - Small Consumer	Gordian Raacke	✓ Larry DeWitt						
CNYC Inc. (Council of NY Coop & Condo)	End Use - Small Consumer	Herb Rose	MaryAnn Rothman	Judith Mondre	Ted Lee	✓ Tariq Niazi			
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 Energy Buyers Forum	End Use - Small Consumer	Herb Rose	Ted Lee	David Bomke	✓ Tariq Niazi				
New York Presbyterian Hospital	End Use - Small Consumer	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi	Doug Elfner			
New York University	End Use - Small Consumer	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi	Doug Elfner			
Refined Sugars, Inc.	End Use - Small Consumer	John Gebhard	Quintin George	Catherine Luthin	✓ John Dowling	Jennifer Kearney			
NY State Consumer Protection Board	End Use - State Agency	✓ Tariq Niazi	Doug Elfner						
AES NY	Generation Owners	Charles Sjoberg	Doug Roll	✓ Christopher Wentlent					
American National Power, Inc.	Generation Owners	Dorothy Capra	Bill Henson						
Astoria Energy LLC	Generation Owners	Greg Banhazi	Leonard Singer						
Calpine	Generation Owners	None Assigned	Thomas Kaslow	Richard Felak					
East Coast Power	Generation Owners	Gary Keevill	Asavari Alvarez						
Edison Mission Marketing & Trading	Generation Owners	William Roberts	Robert Agnello	Jeffrey Ellis	✓ Glenn Haake				
Entergy Nuclear Northeast	Generation Owners	Marc Potkin	William Stone	✓ Ron Mackowiak	Angelo Vai				
Indeck Energy Services	Generation Owners	Mike Ferguson	John Schrage	✓ Mark Younger					
KeySpan Ravenswood, LLC	Generation Owners	Joseph Vignola	Rich Hohlman	Dick Ackerson	James D'Andrea	Ray Plaskon	Peter Chamberlain		
Mirant New York, Inc.	Generation Owners	Susann Felton	✓ Doreen Saia	Vicki Lynch					
Orion Power New York	Generation Owners	✓ Liam Baker	Tom Bradish	Bruce Bleiweis					
PG&E Generating	Generation Owners	Tim Blittig	Dan Dubois	Wanda Williams					
Sithe Energies, Inc.	Generation Owners	✓ David Applebaum	Linda Clarke	Regina Carrado					
TransCanada Power Marketing	Generation Owners	William Taylor	John McWilliams						
1st Rochdale Cooperative NYC	Other Suppliers	Gregory Wortham							
Advantage Energy, Inc.	Other Suppliers	Kyle Storie							
Agway Energy Services, Inc.	Other Suppliers	Russell Miller	✓ Jim Scheiderich						
Amerada Hess Corporation	Other Suppliers	Kevin Laguardia	Blas Hernandez						
Aquila Energy Marketing Corp.	Other Suppliers	Jerry Coffey	Peter Brown	David Wiesner	Pamela VanHorn	Richard Mooney	✓ Susan Chamberlin		
Cinergy Capital and Trading	Other Suppliers	Jason Barker	Walt Yeager						
Con Edison Energy	Other Suppliers	Rich Staines	Ivan Kimball						
Con Edison Solutions	Other Suppliers	Rich Staines	Ken Bekman						
Conectiv	Other Suppliers	Bill Fehr	John Foreman						
Constellation New Energy Inc.	Other Suppliers	Peter Duprey	Carrie CullenHitt						
Constellation Power Source	Other Suppliers	✓ Glen McCartney	Mary Lynch	Joe Lewis					
Coral Power, LLC	Other Suppliers	Dave French	Tom Spencer						
Dominion Energy Marketing, Inc.	Other Suppliers	Wes Walker	Lou Oberski	Michael Bekker					
Duke Energy North America, LLC	Other Suppliers	Stacy Dimou	Del Disher						
Dynegy	Other Suppliers	✓ Alan Foster	Jason Cox	Kevin White	Tom May	Steve Vavrik			
ECOnergy	Other Suppliers	Bill Golemboski	✓ Tom Halleran						
EI Paso Merchant Energy	Other Suppliers	Gary Keevill	Asavari Alvarez	✓ Russel Like					
Exelon Generation - Power Team	Other Suppliers	✓ David Applebaum	Linda Clarke	Regina Carrado					
Fortistar/Lockport Energy Associates, L.P.	Other Suppliers	Tom Gesicki	Roger Kelley	✓ Mark Younger	✓ Glenn Haake				
FPL Energy	Other Suppliers	None Assigned							
HQ Energy Services	Other Suppliers	Christian Desilets	Michel Prevost	Paul Norris	Benoit Goyette				
KeySpan Energy Services	Other Suppliers	John Vaughn	John Smith	Peter Chamberlain	Ruben Brown				
Mirabito Gas & Electric, Inc.	Other Suppliers	Russ Southard	✓ Jim Scheiderich						
Morgan Stanley Capital Group	Other Suppliers	Patrick Murray	Karen Kochonies	Levon Kazarian	Doron Ezickson				



**New York Independent System Operator - Committee Membership**

**Operating Committee - Attendance October 22, 2003 - Albany, NY - Parties Checked in Attendance**

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
NRG Power Marketing	Other Suppliers	Joe DeVito	✓ Tim Foxen	Peter Chamberlain					
NU / Select Energy	Other Suppliers	✓ Jim Scheiderich	Gunnar Jorgensen	Mike Mahoney					
Ontario Power Generation Inc.	Other Suppliers	Tasos Karatsoreos	Jim Mastorakos	Ken Lacivita					
PP&L Energy Plus	Other Suppliers	Roland Moor	Carl Readinger	Mark Heimbach	John Brodbeck				
PSEG Energy Resources & Trade	Other Suppliers	Michael Schueler	James Hebson	Thomas Piascik	Matthew Cox	Bob Logan	✓ Howard Fromer		
Reliant Energy Services, Inc.	Other Suppliers	✓ Liam Baker	Tom Bradish	Bruce Bleiweis	✓ John Reese				
Sempra Energy Trading	Other Suppliers	✓ Tom Halleran	Dan Staines	✓ Russel Like	Mally Becker	Bob Chilton			
Strategic Energy LLC	Other Suppliers	✓ Francis Pullaro	Michael Swider	Jeffrey Knox	James McCormick	Matt Morais			
Strategic Power Management, Inc.	Other Suppliers	Thomas Folchi	Dan Duthie						
Transalta (formerly MEGA)	Other Suppliers	Bob Sadowsky	Jubran Whalan						
TransÉnergie U.S. Ltd.	Other Suppliers	Michael Jacobs	José Rotger						
Williams Energy Marketing & Trading Co.	Other Suppliers	David Singer	Dennis Keener						
Long Island Power Authority	Public Power - Authorities	Donald Wilkes	✓ Ted Pappas	Jim Wittine	Jim Parmelee	Doug Voos			
New York Power Authority	Public Power - Authorities	✓ Gerry LaRose	Kateri Sparks						
American Wind Energy Association	Public Power - Environmental	David Wooley	✓ Larry DeWitt						
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	Edward Smeloff	✓ Larry DeWitt						
Scenic Hudson	Public Power - Environmental	✓ Larry DeWitt							
Bath Electric, Gas & Water Systems	Public Power - Munis & Co-ops	Jim Hamilton	Matthew Benesh	Ken Moore	Paul Pallas	Jack Brown	✓ Tim Bush		
City of Jamestown Board of Pub. Util.	Public Power - Munis & Co-ops	Michael Darroch	✓ David Gustafson	Wally Haase	Tom Rudebusch				
Plattsburgh Municipal Lighting Dept.	Public Power - Munis & Co-ops	Jack Brown	Jim Hamilton	✓ Tim Bush					
Village of Fairport	Public Power - Munis & Co-ops	Jim Hamilton	✓ Tim Bush	Paul Pallas					
Village of Freeport	Public Power - Munis & Co-ops	Anthony Fiore	✓ Ted Kimlingen						
Village of Rockville Centre	Public Power - Munis & Co-ops	Paul Pallas	Jack Brown	Jim Hamilton	Ken Moore	Matthew Benesh		Tom Rudebusch	
Village of Westfield	Public Power - Munis & Co-ops	Jim Hamilton	Jack Brown	Matthew Benesh	Paul Pallas	Ken Moore	✓ Tim Bush		
Central Hudson Gas & Electric	Transmission Owners	✓ John Watzka	Jim McCloskey	Gary Miller					
Consolidated Edison	Transmission Owners	Frank Lembo	Michael Forte	✓ Mayer Sasson					
National Grid	Transmission Owners	✓ Michael Schiavone	Joe Farella	Jerry Ancona	✓ Wes Yeomans				
NY State Electric Gas (NYSEG)	Transmission Owners	✓ Jeff Crandall	John Hauber	Michael Craven	Hank Masti	Brian Gordon			
Orange & Rockland, Inc.	Transmission Owners	Ed Olsen							
Rochester Gas & Electric	Transmission Owners	None Assigned							
Caithness Energy, L.L.C	Non-voting	Ross Ain	Jack Feinstein						
Cianbro Corporation	Non-voting	John Tompkins	Brian Chernack	Paul Rich					
Customized Energy Solutions	Non-voting	✓ Rick Mancini	Stephen Fernands						
Energetix, Inc.	Non-voting	Barney Farnsworth	Robert Hobday						
Hudson River Energy Group	Non-voting	Frank Radigan							
Hydro-Quebec TransEnergie	Non-voting	Glenn Sylvain	Mario Boucher						
NYS Department of Public Service	Non-voting	Howard Tarler	Ed Schrom						✓ Heinrich, Happ, Tarler
The Structure Group	Non-voting	✓ Bob Furry							
William P. Short	Non-voting	William Short	Marc Schaefer	Joe DeVito	John Brodbeck	Ron Matlock	Paul Savage	Roberto Denis	
zNew Member	Non-voting	None Assigned							
zNew Member	Non-voting	None Assigned							

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

- ✓ Bill Young                   Hunton & Williams
- ✓ Ted Murphy                 Hunton & Williams
- ✓ Mollie Lampi               NYISO
- ✓ Chuck King                 NYISO
- ✓ Aaron Breidenbaugh       NYISO
- ✓ Elaine Robinson           NYISO
- ✓ Brad Kranz                 NYISO
- ✓ Ernie Cardone             NYISO
- ✓ Leigh Bullock             NYISO
- ✓ Debbie Eckels             NYISO
- ✓ Valerie Caputo            NYISO
- ✓ Ray Stalter                NYISO
- ✓ Garry Brown              NYISO
- ✓ Jane Lathrop              NYISO

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✓ Bob Thompson	NYISO								
✓ Jim Savitt	NYISO								
✓ Lisa Travaly	NYISO								
✓ Pete Lemme	NYISO								