#### **NYISO Business Issues Committee Meeting Minutes**

October 26, 2005 Teleconference

#### 1. Welcome & Meeting Objectives

Mr. Jim Scheiderich, (Select Energy) Chair of the Business Issues Committee (BIC), called the meeting to order at 10:00 AM and welcomed the members of BIC. Attendees introduced themselves and named the organizations they represent.

# 2. Approval of minutes for September 21, 2005

The minutes were approved unanimously.

#### 3. Chair's Report

Mr. Scheiderich noted changes to today's agenda.

#### 4. Market Operations Report

Mr. John Buechler of the NYISO listed the market performance highlights for September 2005; both average costs and LBMPs were up from August. DAM LBMPs have gone up, while RT prices have decreased. Fuel costs have continued to increase. Mr. Bart Franey of National Grid asked about the source of the fuel costs. Mr. Andrew Bachert of the NYISO responded that the fuel data is from publicly available sources. Mr. Mark Younger of Slater Consulting asked if the ISO would be willing to identify the sources. Dr. Nicole Bouchez of the NYISO responded that the NYISO would be willing to do that, while recognizing that some of the data is proprietary. Mr. Jim Scheiderich suggested that this issue be pursued at an upcoming S&PWG meeting.

Returning to the Market Operations Report, Mr. Buechler noted that uplift has decreased when compared to both August 2005 and September 2004, as has real-time price volatility. Mr. Tim Bush of Navigant asked why the reduction in uplift was not greater, as SMD was supposed to decrease uplift; Mr. Buechler asked if this could be addressed later in the meeting, as intended. He added that David Patton will also be looking at this in his forthcoming report.

Continuing with the Market Ops report, Mr. Buechler reported that MIS will be modified to allow Market Participants to submit 6-digit startup costs that reflect actual costs. MPs should review this change with their respective IT staffs for any corresponding modifications to their bidding software. Mr. Younger asked if the ISO had looked at other bid parameters to see if there was a need to expand those fields. Mr. Buechler responded that the NYISO had looked at other fields for this treatment, but decided that revising this field was a priority.

Mr. Bachert continued on the uplift question raised above: MMU has done some initial review of uplift costs. He noted that there is a cyclical nature to uplift. During the past summer we did see an increase in residual balancing costs, which are included in uplift, due to increases in congestion in the RT markets, mostly from RT scarcity events, and load which was generally higher this summer than in past summers. There was also the activation of the reserve demand curve, which affected congestion, and thunderstorm alerts (TSA's), which happened to coincide with high load days. This results in high balancing costs and consequently higher uplift.

Mr. Bush pointed out that some uplift is allocated locally (e.g. TSA's in NYC), while some is statewide, and asked if we could separate the two in our reporting. There followed a discussion about of zonal vs subzonal uplift. With regard to the latter, concern was expressed by staff about revealing proprietary information, while maintaining accuracy. Mr. Rick Gonzales of the NYISO stated Mr. Patton has been asked to provide the sources of uplift, and would be available at the end of 2005. Mr. Scheiderich pointed out that Transmission Owners can contribute to uplift costs by asking for Out-of-Merit generation, among other things, and it may be appropriate to see that so that people know the source of costs. Mr. Buechler replied that the NYISO would also look into that.

Mr. Buechler noted that at the last BIC Mr. Younger asked about the disparity between RTC and RTD prices; the NYISO is still analyzing that with the intention of reporting its findings at the next S&PWG.

#### **Marginal Losses Issue**

Mr. Scheiderich initiated discussion on this issue by stating that he would like to pursue this issue in more detail at the next Scheduling & Pricing Working Group, especially as prices were released (not changed). NYISO staff reporting began with Dr. Bouchez talking about recent events with regard to the calculation of marginal losses pre- and post-SMD2, which she noted has been the subject of a Market Participant requested investigation since June. She went over the recent history of price postings and also the importance of marginal losses with regard to market design. She noted that over-collection of losses, (collection from load vs payment to generators), refunded through Rate Schedule 1, is a settlement or accounting issue, and is not the subject of this discussion. Dr. Bouchez handed off the discussion of the technical aspects related to this issue to Mr. Gonzales.

Mr. Gonzales discussed how the Day-Ahead and Real-Time scheduling systems, as well as marginal loss component of LBMP, is impacted by the method used for calculating incremental losses, or loss penalty factors. Penalty factors are affected by the modeling assumptions used for Phase Angle Regulators (PARS). PARs can be modeled as either fixed power flow or free-flowing devices. With fixed power flow representations there are no incremental losses associated with PARs as opposed to free flowing modeling, which will show an incremental change in PAR losses for an electrically close injection of generator power. In Legacy (pre-SMD2) systems PARS were modeled as fixed-flow devices. In SMD2, from Feb 1, 2005 to October 21, 2005 PARS were modeled as free-flowing devices. After October 21<sup>st</sup> they were returned to the Legacy treatment as fixed-flow devices. Both modeling assumptions were explained to be valid for purposes of calculating marginal losses, although neither is 100% accurate in all circumstances. Both approaches have resulted in consistent determination of generation schedules and energy market clearing prices (LBMPs). The NYISO has determined that both techniques are compliant with its market rules. Nonetheless, to be consistent with NYISO pre-SMD 2 announcements to the market place, the ISO has reverted back to the treatment of PARs as fixed-flow devices specifically for the calculation of incremental loss factors. Since either method (fixed-flow or freeflowing) is consistent with the NYISO market rules, prices have been released. Mr. Palazzo of NYPA asked if both DAM and RT markets were treated the same, before and after

October 21<sup>st</sup>. Mr. Gonzales responded that the modeling approaches were consistent between the DAM and RT markets for the affected time periods.

In response to a question from Mr. Scheiderich, Mr. Gonzales stated that the primary reason for switching back to the fixed flow model is that, pre-SMD2, the ISO had provided announcements that the treatment of incremental loss factors under SMD2 would be consistent with Legacy treatment. Mr. Scheiderich replied that he needed more detail, including a review of the underlying assumptions. Mr. Matt Picardi from Coral Power asked if this would have an impact on congestion. Mr. Gonzales responded in the affirmative, to which Mr. Picardi said he would like more detail as well.

In reply to a question from Mr. Dave Clarke of LIPA, Mr. Gonzales indicated that changes in PAR settings result in changes in physical MW losses.

Mr. Ray Kinney of NYSEG commented that his company had expressed concerns about losses for some months, and even if the NYISO is in compliance with tariff, these changes have impacts on price certainty and consequently the ability to do deals.

Mr. Scheiderich asked how this (the free-flowing treatment) got into the market systems. Mr. Gonzales responded that the NYISO is working with the vendor on this, and it was not the ISO's intention to change from previously announced treatment. Mr. Pallazo wanted to know which PAR assumption was in place for market trials; the NYISO agreed to get back on this.

Ms. Saia of Mirant asked what the NYISO had on its action item list, related to this issue, from this BIC meeting. After a discussion, the list included: what loss methodology was in place during market trials; provide to MPs indication how this change took place (review of how this change was inadvertently introduced); and the impact on congestion, prices, and loss patterns.

Mr. Howard Fromer of PSEG asked that the NYISO look at the need for tightening up the tariff with regard to this issue so as to lessen price ambiguity. Mr. Scheiderich expressed concern that the MPs weren't informed earlier, especially given the fact that MPs had raised the issue and the NYISO itself was looking at the issue.

Mr. Stalter took as an action item to schedule further discussions on this issue at the upcoming S&P Working Group meeting.

#### **5. Regional Market Enhancements**

Mr. Dave Lawrence of the NYISO discussed Intra-Hour Transaction Scheduling (ITS) and Resource Adequacy Issues (RAM). The NYISO and ISONE issued a report on the first ITS pilot test, and are looking for another date to replace the cancelled November 7 joint NYISO/ISONE meeting. Also, the NYISO is working with LIPA on the cross-Sound 1385 cable scheduling and is having a meeting soon. Finally, with regard to modeling of netted transactions at the NYISO-HQ interface, the NYISO has a white paper from LECG which will be put in a powerpoint presentation and presented at the MSWG.

Ms. Saia asked about the PJM/NY proxy bus; did the two ISOs have a meeting, and did LECG produce a report? Mr. Lawrence stated that the NYISO does have a draft report that it

is not prepared to discuss. As for the first question, we are working to schedule a meeting with PJM.

## 6. Working Group Updates

## A. Billing and Accounting (BAWG)

Mr. Kevin Kipers of NYPA reported a meeting was had with Con Ed and the Metering Task Force on metering upgrades and a way to mask the confidential data to facilitate discussions. A conference call is scheduled for tomorrow centered on invoice manual adjustments and the closeout schedule. Also, BAWG is talking about coming up with a status report, or an action item list, that would be posted on the web. BAWG is looking at a replacement for BAS, and the associated timeline. A discussion followed on mechanisms for identifying local vs statewide uplift. Finally, Mr. Stalter of the NYISO mentioned that at the BAWG Con Ed did a presentation on their TOL/Mload process, which was well received.

#### **B. ESPWG**

Mr. Tariq Niazi, representing various end users, reported that the ESPWG had met twice. The meetings were devoted to the Reliability Needs Assessment (RNA) Documents, which Mr. Niazi said had been distributed to the marketplace for comment. A short discussion ensued as to the nature of comments received by the NYISO. Finally, in response to a question, Mr. Buechler stated that the RNA documents do not need to be filed with FERC, according to the NYISO tariff.

#### C. ICAP Working Group

Mr. Glenn Haake of IPPNY noted discussions on forecast method updates, such as normalization factors used to forecast demand peaks, and their impacts. Also discussed was the presentation by Greg Drake of the NYISO about the relationship between reliability margins and installed capacity requirements. Mr. Haake reported that Art Desell of the NYISO talked about the ICAP automation project; testing has gone well, and the plan is that it will be implemented for summer 2006. Also, there was a discussion on ICAP Manual revisions and also an update provided by John Charlton of staff re tariff language changes for priority treatment of ICAP wheels and exports vs energy-only transactions.

#### D. Interconnection Issues Task Force

Mr. Glenn Haake of IPPNY reported that a IITF meeting was held on Oct 17, which focused on a study on load flow cases vs Gold Book retirements and capacity numbers. This needs further benchmarking.

# **E. Market Structures Working Group**

Mr. Liam Baker reported on the MSWG meeting on October 20<sup>th.</sup>. On the agenda were proposed rules for intermittent resources. The NYISO will look at what bidding mode these units will be bidding in as and report back. Also Mark Younger gave a presentation on generation scheduling and dispatch rules at the MSWG.

#### F. Price Responsive Load Working Group

Mr. Rick Mancini of Galt Power went over the bullets in his presentation, which included an update on Demand Response programs; e.g. participation is up slightly in the EDRP and SCR programs. Also listed were Real-Time Scheduling modifications for Demand Response in ancillary services, SCR issues, and DEC distributed generator rulemaking. Mr. Fromer noted today that an issue that should be discussed is NYISO notification requirements for SCRs.

# 7. Revised Ancillary Services Manual

Mr. Bob de Mello of the NYISO presented the history of versions of this Manual at committees and working groups; he then described some minor changes in terminology, tables, typographical errors, etc. Future additional changes of note include a section on Voltage Support Service and a section on local Black Start Service. The motion to approve the changes, as presented, passed unanimously, with abstentions.

#### 8. New Business

It was requested that the NYISO develop a timeline for addressing generator retirement procedures, to which Mr. Stalter replied that this was forthcoming.

# 9. Adjournment

Meeting adjourned at 12:12 PM

Respectfully Submitted, William G. Porter Recording BIC Secretary

## **NYISO Business Issues Committee**

October 26, 2005

Teleconference Meeting

## **MOTIONS FROM THE MEETING**

#### Motion #1:

Motion to approve the Minutes from the September 21, 2005 BIC meeting. *(Motion passed unanimously)* 

## Motion #2:

The Business Issues Committee approves revisions to the NYISO Ancillary Services Manual, as presented to the Committee at the October 26<sup>th</sup> meeting. *(Motion passed unanimously with abstentions)* 

## New York Independent System Operator - Committee Membership

#### Business Issues Committee - Attendance October 26, 2005 - 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.	David Coup	Paul DeCotis	Chris Hall	Erin Hogan	John Spath			
The City of New York	End Use - Gov. Agency/Aggr.	Michael Delaney	Gil Quiniones	Thomas Simpson	Jonathan Wallach	Tim Daniels			
Alcoa/Reynolds Metals Company	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Morgan Parke					
Helmsley-Spear Inc.	End Use - Large Consumer	David Bomke	George Diamantopoulos	Edward Strauss	Herb Rose				
IBM Corporation	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Morgan Parke					
Occidental Chemical Corp.	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Morgan Parke					
Praxair Inc.	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Morgan Parke					
Xerox Corporation	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Morgan Parke					
Metropolitan Transportation Authority	End Use - Large Cons. Gov.	Jesse Samberg	Gary Caplan	Walter McCarroll					
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			
Building and Realty Institute	End Use - Small Consumer	Herb Rose	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 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			
NY State Consumer Protection Board	End Use - State Agency	✓ Tariq Niazi	Doug Elfner						
AES NY	Generation Owners	Doug Roll	Charles Sjoberg	Christopher Wentlent					
American National Power, Inc.	Generation Owners	Dorothy Capra	Bill Henson						
Astoria Energy LLC	Generation Owners	Joseph Swift	Leonard Singer	/ Bill 15 ::					
Calpine	Generation Owners	None Assigned	Thomas Kaslow	✓ Richard Felak	1				
East Coast Power Linden Holding LLC	Generation Owners	Roy Shanker	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					
Indeck Energy Services	Generation Owners	Mike Ferguson	John Schrage	✓ Mark Younger					
KeySpan Ravenswood, LLC	Generation Owners	Rich Hohlman	Joe Vignola	Jim Brennan	✓ Jim D'Andrea	Madison Milhous	Edwin Kichline		
Mirant New York, Inc.	Generation Owners	Vicki Lynch	James Mayhew	✓ Doreen Saia					
Orion Power New York	Generation Owners	✓ Liam Baker	Bill Berg						
Selkirk Cogen Partners, L.P.	Generation Owners	Tim Biittig	Steve Kamppila						
Sithe Energies, Inc.	Generation Owners	Scott Silverstein	Joe Klimaszewski	Jim Verna					
TransCanada Power Marketing	Generation Owners	William Taylor	Elaine Beaudry						
Advantage Energy, Inc.	Other Suppliers	Kyle Storie							
Amerada Hess Corporation	Other Suppliers	Kevin LaGuardia	Blas Hernandez	George Braulke					
Brascan Energy Marketing Inc.	Other Suppliers	Robert Ricketts	Daniel Whyte						
Cinergy Capital and Trading	Other Suppliers	John Deeds	Walt Yeager						
Con Edison Energy	Other Suppliers	Stephen Wemple	Ivan Kimball						
Con Edison Solutions	Other Suppliers	Stephen Wemple	Rich Staines						
Conectiv	Other Suppliers	Bill Fehr	John Foreman	C O'N-il					
Constellation Energy Commodities, Inc.	Other Suppliers	✓ Glen McCartney	Dan Allegretti	Sara O'Neil	Ourse Obserby "				
Constellation New Energy Inc. Consumer Powerline	Other Suppliers	Peter Duprey	Carrie CullenHitt Mike Gordon	Sara O'Neill	Susan Chamberlin Chaue Shen				
	Other Suppliers	Vinay Gupta  ✓ Matt Bicardi		Ray Stirbys	Chaue Shen				
Coral Power, LLC	Other Suppliers	✓ Matt Picardi Bruce Bleiweis	Dave French Andrew Stevens	Matthew Tate					
DC Energy	Other Suppliers	Wes Walker		Michael Bekker					
Dominion Energy Marketing, Inc. Duke Energy North America, LLC	Other Suppliers Other Suppliers	Stacy Dimou	Lou Oberski Del Disher	WILLIAM DEKKEI					
	***		Jason Cox	Kevin White					
Dynegy ECONnergy	Other Suppliers Other Suppliers	Barry Huddleston Saul Horowitz	Tom Halleran	MEANI AANIGE					
Epic Merchant Energy	Other Suppliers Other Suppliers	Robert Erbrick	✓ Erik Abend	Wade Sullivan					
Exelon Generation - Power Team	Other Suppliers Other Suppliers	Scott Silverstein	Joe Klimaszewski	Jim Verna					
Fortistar/Lockport Energy Associates, L.P.	Other Suppliers Other Suppliers	Roger Kelley	Tom Gesicki	✓ Mark Younger	✓ Glenn Haake				
FPL Energy	Other Suppliers Other Suppliers	David Applebaum	Fernando DaSilva	Ron Scheirer	Gierin Haake			✓ Doreen Saia	
Galt Power	Other Suppliers Other Suppliers	✓ Rick Mancini	Stephen Fernands	Non Scheller				- Duleeli Sala	
HQ Energy Services	Other Suppliers Other Suppliers	✓ Michel Prevost	✓ Paul Norris	Erik Bellavance					
KeySpan Energy Services	Other Suppliers Other Suppliers	Terrence Kain	✓ Jim D'Andrea	Erik Bellavance Edwin Kichline	James Cross	John Vaughn			
Reyopan Ellergy Services		Patrick Murray	Karen Kochonies	Levon Kazarian	Doron Ezickson	Join vaugnii			
Morgan Stanley Capital Group						1	i .		1
Morgan Stanley Capital Group	Other Suppliers	1							
Morgan Stanley Capital Group NRG Power Marketing NU / Select Energy	Other Suppliers Other Suppliers Other Suppliers	Tim Foxen  ✓ Jim Scheiderich	Katie Sullivan Gunnar Jorgensen	Peter Chamberlain					

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

#### Business Issues Committee - Attendance October 26, 2005 - Albany, NY - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
PPM Energy	Other Suppliers	Donald Winslow	Murray O'Neil						
PP&L Energy Plus	Other Suppliers	✓ Joseph Langan	Tom Hyzinski	Roland Moor	David Yannarell	Sharon Weber			
SEG Energy Resources & Trade	Other Suppliers	✓ Howard Fromer	Michael LaFalce	Bob Logan	Dennis Sobieski				
Reliant Energy Services, Inc.	Other Suppliers	✓ Liam Baker	Mark Sudbey	John Orr					
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					
Strategic Power Management, Inc.	Other Suppliers	Mario DiValentino	Tom Folchi						
ΓransÉnergie U.S. Ltd.	Other Suppliers	Michael Jacobs	Raymond Coxe						
Williams Power Company	Other Suppliers	David Singer	Mark Lassman	Robert O'Connell					
ong Island Power Authority	Public Power - Authorities	✓ Kevin Jones	✓ Dave Clarke						
New York Power Authority	Public Power - Authorities	Bob Deasy	✓ Bob Gow	Paul Rougeaux	Kevin Kipers	✓ Bill Palazzo			
American Wind Energy Association	Public Power - Environmental	Valerie Strauss	✓ Larry DeWitt	Douglas Ward	Mike Jacobs				
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	Ken Moore	✓ Tim Bush	Matthew Benesh	Jim Hamilton	Jack Brown			
City of Jamestown Board of Pub. Util.	Public Power - Munis & Co-ops	✓ David Gustafson	Wally Haase	John Oelbracht	Steven Kulig	✓ Tom Rudebusch			
_ake 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	Ken Moore					
/illage of Arcade	Public Power - Munis & Co-ops	Larry Kilburn	✓ Tim Bush						
fillage of Fairport	Public Power - Munis & Co-ops	Ken Moore	✓ Tim Bush	Paul Pallas					
fillage of Freeport	Public Power - Munis & Co-ops	Anthony Fiore	Ted Kimlingen	✓ Tom Rudebusch					
/illage of Rockville Centre	Public Power - Munis & Co-ops	Tom Cardile	Ken Moore	Matthew Benesh	Jim Hamilton	Paul Pallas	Jack Brown	✓ Tom Rudebusch	
/illage of Solvay	Public Power - Munis & Co-ops	Anthony Modafferi	✓ Tim Bush	maunon Bonoon	om ramitor	r dui r diido	odok Brown	10	
/illage of Westfield	Public Power - Munis & Co-ops	Jim Hamilton	✓ Tim Bush	Ken Moore	Matthew Benesh	Jack Brown			
Central Hudson Gas & Electric	Transmission Owners	James Valleau	✓ Thomas Canino	Jeff May	Rick Greener	Guon Brown			
Consolidated Edison	Transmission Owners	Stuart Nachmias	Gerry Dunbar	Neil Butterklee	Trior Greener			Deirdre Facendola	
National Grid	Transmission Owners	✓ Bart Franey	Wesley Yeomans	Jerry Ancona	Janet Gail Besser	Terron Hill		Deliare Faceridola	
NY State Electric Gas (NYSEG)	Transmission Owners	✓ Ray Kinney	Patti Caletka	Steve Jeremko	Hank Masti	TCHOITTIII			
Orange & Rockland, Inc.	Transmission Owners	None Assigned	i dili Galetila	Oteve determine	Tidik Wasa				
Rochester Gas & Electric	Transmission Owners	✓ Ray Kinney	Patti Caletka	Steve Jeremko	Hank Masti				
Boundless Energy, L.L.C	Non-voting	Brian Chernack	Chuck Gilbert	Mark Mainetti	Tidik Wasa				
Caithness Energy, L.L.C	Non-voting	Ross Ain	Jack Feinstein	Wark Walletti					
Cianbro	Non-voting Non-voting	Ed Krapels	Brian Chernak	Paul Flemming					
Customized Energy Solutions	Non-voting Non-voting	✓ Rick Mancini	Stephen Fernands	Bill Schofield					
Ecogen, L.L.C	Non-voting Non-voting	Tom Hagner	Otephen Femanus	Diii Odrioileiu					
Energetix, Inc.	Non-voting Non-voting	Barney Farnsworth	Gerald Strassner						
Fluent Energy	Non-voting	Michael Mastroianni	David Koplas	Margie Miller					
Hudson River Energy Group	Non-voting Non-voting	Frank Radigan	Richard Canfield	iviargie ivilliel					
Hydro-Quebec TransEnergie	Non-voting	Glenn Sylvain	Mario Boucher						
,	•	✓ Bill Heinrich							
IYS Department of Public Service Stealth Energy	Non-voting Non-voting	Gad Cohen	David Drexler						
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he Structure Group	Non-voting	Bob Furry							
om Halleran	Non-voting	Tom Halleran	Mara Cabastas	In a Dal/Sta	laha Daadhaa'	Dan Madaali	David Cavana	Roberto Denis	
Villiam P. Short	Non-voting	William Short	Marc Schaefer	Joe DeVito	John Brodbeck	Ron Matlock	Paul Savage	Koberto Denis	
New Member	Non-voting								
New Member	Non-voting								
New Member	Non-voting								
New Member	Non-voting								
New Member	Non-voting								
New Member	Non-voting								
New Member	Non-voting	None Assigned	1						

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

Ira Freilicher Hunton & Williams Kevin Jones Hunton & Williams

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✓ Bob DeMello	NYISO		1						I
✓ Alex Schnell	NYISO								
Mark Lynch	NYISO								
✓ John Buechler	NYISO								
✓ Mike Calimano	NYISO								
✓ Dave Lawrence	NYISO								
✓ Elaine Robinson	NYISO								
✓ Jacquie Ponds	NYISO								
✓ Leigh Bullock	NYISO								
Ray Stalter	NYISO								
✓ Debbie Eckels	NYISO								
✓ Dave Lawrence	NYISO								
✓ Steve Balser	NYISO								
✓ Brad Kranz	NYISO								
✓ Rick Gonzales	NYISO								
✓ Bill Porter	NYISO								
/ Nicole Bouchez	NYISO								
Rich Dewey	NYISO								
Ernie Cardone	NYISO								
✓ Andy Bachert	NYISO								
✓ Belinda Thornton	NYISO								
Andy Hartshorn	NYISO/LECG								

**Key:**✓ = In attendance