

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

Friday, May 20<sup>th</sup> 2005

### **Best Western Hotel**

200 Wolf Road  
Albany, N.Y.

#### **1. Welcome & Meeting Objectives**

Jim Scheiderich, Chair of the Business Issues Committee (BIC), called the meeting to order at 10:09 AM and welcomed the members of BIC. Attendees introduced themselves and named the organizations they represent.

#### **2. Chair's Report**

No report

#### **5. Market Operations Report**

Mr. Charles King, NYISO Vice President of Market Services, introduced the Market Operations Report. Mr. King noted increased average costs for April, increased fuel prices relative to March, and reduced uplift following the implementation of SMD2. In response to a question regarding uplift from Matt Picardi of Coral Energy, LLC., Mr. King referred to exhibit 4c of the April Market Operations Report and noted that overall uplift was less negative than before. In response to a question from Bill Heinrich of the Public Service Commission regarding volatility, Mr. King observed that higher volatility for individual days affected the standard deviations for the month of April.

#### **6. Regional Market Enhancements**

Mr. King presented the Regional Markets Enhancement Report. Mr. King remarked upon the excellent attendance for the May 11<sup>th</sup> -12<sup>th</sup> 2005 Eastern RTO/ISO Conference and acknowledged the efforts taken by the Public Service Commission staff. With respect to Intra-hour Transaction Scheduling, Mr. King stated that the first set of pilot tests were conducted on April 20-21 and that any additional tests would be scheduled based upon evaluation of the April tests. Bob Thompson of the NYISO added that because the second test was contingent upon ISO-NE Market Participant approval, it could potentially occur during the summer. Mr. Bill Palazzo of the New York Power Authority requested that in the event the second test was delayed that the NYISO would distribute the results of the first test. Mr. Thompson replied that this was possible and that the NYISO would also report on whether there were price corrections during the test. Mr. King noted that full market deployment of the Cross-Sound Scheduled Line was targeted for June 1, 2005. and e-tagging deployment was scheduled for June 28<sup>th</sup>. Mr. King stated that the NYISO was currently in discussion with New York State Transmission Owners regarding rate pancaking and was in the process of coordinating a meeting with PJM. In response to a question from Michael Mager representing Multiple Interveners regarding potential PJM Transmission Owner resistance to the collaboration scheme, Mr. King described a provision in the NYISO's seams agreement with PJM that allowed the NYISO to alleviate such issues. In response to a question from Ms. Doreen Saia of Mirant regarding the status of the real-time mechanism permitting more flow from HQ to PJM, Rick Gonzales of the NYISO responded that because the issue resembled another form of forecasting uncertainty and that the NYISO had decided that it could not address the issue until after it moved ahead with its Proposal for Modified Treatment of 10-Minute Gas Turbines by RTS.

#### **3. Working Group Updates**

##### **A. Billing and Accounting**

The BAWG met May 19<sup>th</sup> to discuss the status of the final bill closeout and station power. Additionally, the review status of the Technical Billing and Accounting Manual was discussed. The BAWG is still looking for volunteers to review the Technical Manual, particularly from the Suppliers' community. Topics also included the development of a Billing and Accounting Process Manual and the NYISO testing bed in the context of the DSS.

##### **B. Scheduling & Pricing**

No report

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**C. ESPWG**

During its May 9<sup>th</sup> meeting, the ESPWG discussed reliability planning process implementation issues including CRRP implementation and scenarios, implementation criteria for halting a regulated project, cost allocation, and the PSC dispute resolution process. On April 6, 2005 FERC approved the NYISO CRPP Compliance Filing. No comments were submitted regarding implementation issues on the economic planning status and the ESPWG is renewing the request for Market Participant input.

**D. ICAP Working Group**

No report

**E. IITF meeting**

The IITF met May 17<sup>th</sup> and discussed additional analysis for 2005 and coordination for the IRM study.

**F. Price Responsive Load**

No report

**G. Market Structures Working Group**

The modified treatment of 10-minute gas turbines by RTS was discussed during the May 18<sup>th</sup> meeting of the MSWG.

**4. Proposal for Modified Treatment of 10-Minute Gas Turbines by RTS**

Rick Gonzales of the NYISO led the discussion on the proposed NYISO treatment of 10-minute resources in the real-time market place. Mr. Gonzales noted the number of MSWG meetings dedicated to the issue and stated that the revised Concept of Operations, included in the meeting materials, clarified the economic test in the operating procedure and provided an example for the operator display showing 10-minute gas turbines. Mr. Gonzales also noted that the pricing analysis provided by LECG was provided as reference material.

Mr. Gonzales opined that the increased price volatility occurring regularly in the Real-Time Market (RTM) was indicated by unpredictable and significant positive and negative RTM price spikes. The ISO RTM scheduling objective is to meet RTD demand by minimizing bid production cost through the efficient use of available resources. The SMD software was designed to achieve this objective through the optimal commitment of available resources. In practice, the SMD software may result in the suboptimal commitment of available resources due to forecasting uncertainties between the commitment (RTC) and dispatch (RTD) scheduling horizons. Mr. Tim Foxen of NRG Power Marketing asked whether the NYISO had a sense of the magnitude of the price spikes and whether the NYISO anticipated intervention to occur only during hot days with unpredictable load or on a more infrequent basis. Mr. Gonzales replied that Andrew Hartshorn of LECG had identified thirty pricing events, representing a sample, since March 1<sup>st</sup> and that the point of the review was that 10% of the events actually warranted the physical commitment of a resource and consequently there would probably be few gas turbines starts as the results of the proposed enhancements. Mr. Scheidrich noted that the revised motion included language indicating that the NYISO would inform the market place as these events occurred.

In response to a question from Tariq Niazi of the New York State Consumers Protection Board, Mr. Gonzalez replied that the impact of uncertainties under SMD2 was different than under legacy. In the legacy system, NYISO operators had the ability to account for uncertainty in the set-up of BME, which committed resources in ham for real-time dispatch. Mr. Gonzales noted that the availability of 10-minute gas turbines for dispatch by SCD in legacy formed the substance of the proposal under discussion. In response to a question from Mr. Palazzo, Mr. Gonzales replied that the Tariff represented the current state of NYISO software. Mr. Gonzales stated that the proposal constituted a

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conceptual design issue, not intended to be addressed by SMD, and mitigated the consequences of operational uncertainties. Mr. Ray Kinney of NYSEG noted that although the Tariff mandated a least cost dispatch, the software bypassed units whose start would result in a more economic dispatch. In response to a question from Mr. Mager regarding the cause of negative price spikes, Mr. Gonzales replied that negative prices could be observed when trying to solve transmission constraints. For example, with high LBMPs on the east side of a constraint and low LBMPs on the west side of a constraint, the volatility would affect Market Participants upstream of constraints. Mr. Kinney noted that the combination of negative price spikes and generators receiving day-ahead margin assurance payments could result in prices contributing to uplift for load and that therefore negative prices did affect loads. Mr. Gonzales answered that LECG addressed scenarios where negative prices result in day-ahead BPCG resulting in uplift payments and therefore whether prices were positive or negative affected market efficiencies.

Mr. Gonzales described three areas of forecasting uncertainty affecting real-time market outcomes: load forecast uncertainties, phase angle regulator schedules, and other system events occurring after commitment horizon. Mr. Gonzales suggested that based on these findings, it was determined that additional resources need to be made available for RTD to address the consequences of suboptimal commitment decisions by RTC due to forecasting uncertainty. Specifically, Mr. Gonzales recommended providing RTD with the additional resource availability of eligible 10-minute units, thereby mitigating the impact of suboptimal commitment decisions that result in inefficient market outcomes. Eligible 10-minute units are those units that are offline and have met their minimum down time requirements, subject to reliability considerations associated with unit minimum generation levels. RTD would be capable of scheduling of eligible 10-minute units, only when economic and necessary to meet load, in both the RTM physical and pricing dispatches. ISO Operations, however, would make the final determination whether to actually commit the 10-minute unit(s) scheduled by RTD.

Mr. Gonzales proposed the following corrective measure. A key element identified in the Concept of Operations document is the application of a zero downward ramp rate for the eligible 10-minute units. This means that if an eligible unit is dispatched up in a particular time step of the RTD run it cannot be reduced below that level in later time steps. The effect of this change is that RTD will honor the minimum run time of the resource. The resulting impact on unit schedules and RTM clearing prices is that the eligible unit(s) will only be dispatched in the first time step if it is a lower cost option over the remainder of the optimization horizon. Power System Operations staff will only commit eligible unit(s) if they are fully scheduled for all RTD intervals (of a RTD run) and are economic to meet load for the first three intervals of the RTD run.

Mr. Foxen wondered whether instances where gas turbines received signals to come off and then the NYISO entered fast start management mode - where operators would not be able to see these units running and available in next hour - would result in uneconomic start-ups of units. Mr. Gonzales replied that there was a question raised in the May 18<sup>th</sup> MSWG of whether to extend run time of available units to address volatility and that the real-time market timeline did not allow this to occur. Mr. Gonzales stated that a binding decommitment is made 15 minutes in advance of decommitment time and if RTC determines a unit will be shut down, a flag goes out to the unit to shut down. Because there is only one 5 minute window, after that flag for the operator to respond in, it appears not to be a good decision relative to the timeline. Mr. Tim Bush of Navigant asked since the decision to start a unit is made by the NYISO operator, why the decision to override the RTC shutdown of units can't be reversed by the operator. Mr. Gonzales responded that this was a timeline issue. The binding decommitment is made 15 minutes in advance of decommitment time and RTD takes 10 minutes to run. Consequently, this only leaves a 5 minute period where on-line resources could appear on the display. Mr. Gonzales noted the potential exasperation of market place concerns with short times

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concerning shut downs. Mr. Scheidrich suggested that the motion clause addressing reporting should include how many gas turbines were on during instances of price spikes.

Mr. Gonzales summarized his presentation by stating that the proposal had been reviewed by the MSWG and modified according to stakeholder input. He noted that providing RTD with the proposed changes would involve Tariff revisions and software modifications. He suggested that the proposed measure be implemented as soon as possible.

In response to a question from Ms. Saia, Ms. Mollie Lampi of the NYISO replied that the NYISO Board of Directors would schedule a meeting ten days after the Management Committee vote and although the NYISO would ask FERC to use an expedited process, FERC had not indicated how soon approval would occur. In response to a question from Ms. Saia, Mr. Richard Dewey of the NYISO responded that design discussions and meetings had been transpiring between the NYISO and ABB. Mr. Dewey indicated that ABB had development capacity and that the software, ready for testing by June and then QA and integration tests, would deploy as prudently as possible. Mr. Foxen asked what the new responsibilities were for operators, either manually intervening or looking at whether a gas turbine were scheduled for three RTD runs. Mr. Gonzales indicated that these responsibilities were defined by the two economic tests described in the presentation. Mr. Robert Ricketts of Brascan Energy Marketing asked if committing a 10 minute unit for 1<sup>st</sup> three intervals would depress prices for the rest of the hour. Mr. Gonzales opined that according to the second economic test prices would not be depressed and that the unit would be committed as a least cost resource and economic for the majority of its run time. In response to a question from Eric Abend of Epic Merchant Energy, Mr. Gonzales answered that development and testing of the software would be going on concurrently with revised Tariff approval actions.

Mr. Mark Younger of Slater Consulting stated that during instances where the NYISO operators violate economic tests, units become uneconomic, and the units are turned on anyway that entire marketplace be notified. Mr. Gonzales replied that this would be covered by procedures, but could occur as result of telemetry errors. Mr. Norman Mah of Consolidated Edison asked whether the NYISO had considered parallel operations or reserving prices for first few days of deployment. Mr. Gonzales suggested that this was not practical and that it was not feasible to run two systems in parallel with two sets of clearing prices. Mr. King noted the NYISO's rigorous price validation process. Mr. Scheidrich noted that based on the NYISO operator's decision, if information was wrong, the NYISO can tell its operators not to commit gas turbines and impose corrections. Mr. Younger observed that by nature of RTC running every 15 minutes there will always be uncertainties, and that since RTC is doing an unbiased commitment, this proposal gives it more resources when it is looking out.

Mr. Kinney suggested that the Market Operations report indicate how many times gas turbines set prices and how many times they were committed. Mr. King stated that the NYISO would report on this request at the June BIC meeting. Mr. Bush asked that the BIC request that NYISO staff provide tariff language prior to the Management Committee meeting on May 27<sup>th</sup> be added to motion.

**Motion #1:**

The Business Issues Committee (BIC) recommends that the Management Committee approve revisions to the tariff to allow for modified treatment of 10-Minute Resources in RTS, as outlined in the presentation and Concept of Operations document presented to the BIC at the May 20th meeting. The BIC also requests that NYISO staff provide draft Tariff language prior to the Management Committee meeting on May 27th. This would allow 10-Minute Resources not yet committed, which have met their minimum downtime requirement, to be scheduled and participate in real-time price setting when needed and economic to meet load, subject to reliability considerations associated with unit minimum generation levels. The NYISO will report on the operation of this functionality, discuss

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with MSWG the nature of the information to be provided, and discuss opportunities to reduce uncertainties between RTC and RTD.

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

**7. New Business**

None

**8. Administrative Matters**

Action item report included with meeting material

**9. Adjournment**

Meeting adjourned at 12:09 PM.

Respectfully Submitted,  
Caleb Derven  
Recording BIC Secretary

## **NYISO Business Issues Committee**

May 20, 2005

NYISO

### **MOTION FROM THE MEETING**

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

The Business Issues Committee (BIC) recommends that the Management Committee approve revisions to the tariff to allow for modified treatment of 10-Minute Resources in RTS, as outlined in the presentation and Concept of Operations document presented to the BIC at the May 20th meeting. The BIC also requests that NYISO staff provide draft Tariff language prior to the Management Committee meeting on May 27<sup>th</sup>.

This would allow 10-Minute Resources not yet committed, which have met their minimum downtime requirement, to be scheduled and participate in real-time price setting when needed and economic to meet load, subject to reliability considerations associated with unit minimum generation levels.

The NYISO will report on the operation of this functionality, discuss with MSWG the nature of the information to be provided, and discuss opportunities to reduce uncertainties between RTC and RTD.

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

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

**Business Issues Committee - Attendance May 20, 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		✓ Tari Niazi	
The City of New York	End Use - Gov. Agency/Aggr.	Michael Delaney	Gil Quiniones	Thomas Simpson	Jonathan Wallach	Tim Daniels		✓ Norman Mah	
Alcoa/Reynolds Metals Company	End Use - Large Consumer	Robert Loughney	✓ Michael Mager	Morgan Parke					
Helmstley-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						
Calpine	Generation Owners	None Assigned	Thomas Kaslow	Richard Felak					
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	Jim Brennan	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	Jason Barker	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						
Constellation New Energy Inc.	Other Suppliers	Peter Duprey	Carrie CullenHitt	✓ Sara O'Neill	Susan Chamberlin				
Constellation Power Source	Other Suppliers	Glen McCartney	Mary Lynch	Daniel Allegretti					
Coral Power, LLC	Other Suppliers	✓ Matt Picardi	Dave French						
DC Energy	Other Suppliers	Bruce Bleiweis	Andrew Stevens	Matthew Tate					
Dominion Energy Marketing, Inc.	Other Suppliers	Wes Walker	Lou Oberski	Michael Bekker					
Duke Energy North America, LLC	Other Suppliers	Stacy Dimou	Del Disher						
Dynergy	Other Suppliers	Barry Huddleston	Jason Cox	Kevin White					
ECONergy	Other Suppliers	Saul Horowitz	Tom Halleran						
Epic Merchant Energy	Other Suppliers	Robert Erbrick	✓ Erik Abend	Wade Sullivan					
Exelon Generation - Power Team	Other Suppliers	Scott Silverstein	Joe Klimaszewski	Jim Verna					
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					
HQ Energy Services	Other Suppliers	✓ Michel Prevost	Paul Norris	Benoit Goyette					
KeySpan Energy Services	Other Suppliers	Terrence Kain	✓ Jim D'Andrea	Edwin Kichline	James Cross	John Vaughn			
Morgan Stanley Capital Group	Other Suppliers	Patrick Murray	Karen Kochonies	Levon Kazarian	Doron Ezickson				
NRG Power Marketing	Other Suppliers	✓ Tim Foxen	Katie Sullivan	Peter Chamberlain					
NU / Select Energy	Other Suppliers	✓ Jim Scheiderich	Gunnar Jorgensen						
Ontario Power Generation Inc.	Other Suppliers	Scott McArthur	Dave Barr	Ken Lacivita	Erica Cheung	Scott McArthur	Glenn Haake		
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			

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

**Business Issues Committee - Attendance May 20, 2005 - Albany, NY - Parties Checked in Attendance**

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Proxy	Guest
PSEG 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	Francis Pullaro	Michael Swider	Jeffrey Knox	Brian Vayda				
Strategic Power Management, Inc.	Other Suppliers	Mario DiValentino	Tom Folchi						
TransEnergie U.S. Ltd.	Other Suppliers	Michael Jacobs	José Rotger						
Williams Power Company	Other Suppliers	David Singer	Mark Lassman	Robert O'Connell					
Long Island Power Authority	Public Power - Authorities	James Parmelee	✓ Kevin Jones	✓ Dave Clarke	Jim Wittine				
New York Power Authority	Public Power - Authorities	Bob Deasy	Bob Gow	Paul Rougeaux	Kevin Kipers			✓ Bill Palazzo	✓ Bob Balsomel
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	Ken Moore	Jack Brown			
City of Jamestown Board of Pub. Util.	Public Power - Munis & Co-ops	✓ David Gustafson	Wally Haase	✓ 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	Ken Moore					
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	Anthony Fiore	Ted Kimlingen	✓ Tom Rudebusch					
Village of Rockville Centre	Public Power - Munis & Co-ops	Ken Moore	Ken Moore	Matthew Benesh	Jim Hamilton	Paul Pallas	Jack Brown	✓ 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	Ken Moore	Matthew Benesh	Jack Brown			
Central Hudson Gas & Electric	Transmission Owners	James Valteau	✓ Thomas Canino	Jeff May	Rick Greener				
Consolidated Edison	Transmission Owners	Stuart Nachmias	Gerry Dunbar	Neil Butterklee					
National Grid	Transmission Owners	Bart Franey	Wesley Yeomans	✓ Jerry Ancona	Janet Gail Besser	Terron Hill			
NY State Electric Gas (NYSEG)	Transmission Owners	✓ Ray Kinney	✓ Patti Caletka	Steve Jeremko	Hank Masti				
Orange & Rockland, Inc.	Transmission Owners	None Assigned							
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					
Caitness Energy, L.L.C	Non-voting	Ross Ain	Jack Feinstein						
Cianbro	Non-voting	Ed Krapels	Brian Chernak	Paul Flemming					
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	Gerald Strassner						
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	Mario Boucher						
NYS Department of Public Service	Non-voting	✓ Bill Heinrich	David Drexler						
Stealth Energy	Non-voting	Gad Cohen							
The Structure Group	Non-voting	Bob Furry							
Tom Halleran	Non-voting	Tom Halleran							
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								
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zNew Member	Non-voting								
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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  
Kevin Jones

Hunton & Williams  
Hunton & Williams



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

**Business Issues Committee - Attendance May 20, 2005 - Albany, NY - Parties Checked in Attendance**

<b>Organization</b>	<b>Sector</b>	<b>Representative</b>	<b>Alternate1</b>	<b>Alternate2</b>	<b>Alternate3</b>	<b>Alternate4</b>	<b>Alternate5</b>	<b>Proxy</b>	<b>Guest</b>
✓ James Schmidt	Hunton & Williams								
✓ Brad Kranz	NYISO								
✓ Rich Dewey	NYISO								
✓ Chuck King	NYISO								
✓ Rick Gonzales	NYISO								
✓ Bob Thompson	NYISO								
✓ Gerald Deaver	NYISO								
✓ Mollie Lampi	NYISO								
✓ Leigh Bullock	NYISO								
✓ Ray Stalter	NYISO								
✓ John Buechler	NYISO								
✓ Caleb Derven	NYISO								
✓ Jim Savitt	NYISO								
✓ Brad Kranz	NYISO								
✓ Robb Pike	NYISO								
Caleb Derven	NYISO								
John Cutting	NYISO								
Jane Lathrop	NYISO								
Ernie Cardone	NYISO								
✓ John Charlton	NYISO								
Kathy Whitaker	NYISO								
✓ Andy Hartshorn	NYISO/LECG								
Mark Lynch	NYISO								

**Key:**

✓ = In attendance