NYISO Business Issues Committee Meeting Minutes February 10, 2016 10:05 a.m. – 2:00 p.m.

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

The chair of the Business Issues Committee (BIC), Mr. Chris LaRoe (Brookfield), called the meeting to order at 10:05 a.m. by welcoming the members of the BIC. The members of the BIC identified themselves and attendance was recorded. A quorum was determined.

2. Meeting Minutes

Correction of a typographical error in the draft minutes of the December 9, 2015 that were included with the meeting materials was noted. There were no additional comments or questions.

Motion #1:

Motion to approve the minutes of the December 9, 2015 BIC meeting. *Motion passed unanimously*.

3. Market Operations Report

Prior to the Market Operations report, Mr. Doug Chapman (NYISO) provided a brief, verbal update regarding the outage that occurred at the Carman Road (backup) data center on January 28, 2016. Mr. Chapman reported that the cause of the outage was a coolant leak in an air conditioner unit within the Carman Road data center. The leak triggered the fire alarm resulting in activation of the fire suppression system and cutting out all power to the data center. Although Carman Road normally serves as the backup data center, all applications had been switched to run from Carman Road earlier in the day on January 28, 2016 in order to performance maintenance on systems at Krey Boulevard. As a result, the outage at Carman Road resulted in a period during which all important systems were down, including the energy management system (EMS), the market systems and the financial systems. Immediately following the outage at Carman Road, the NYISO mobilized its emergency response and initiated system recovery at Krey Boulevard. The EMS was restored at Krey Boulevard approximately 90 minutes after the outage at Carman Road and the primary market system functionality was restored approximately 30 minutes after restoration of the EMS. Mr. Chapman noted that the NYISO has commenced a "lessons learned" analysis as a result of the outage. Mr. Howard Fromer (PSEG) asked how system operations were maintained during the period that the EMS system was unavailable. Mr. Chapman noted that system operations by the NYISO were sustained throughout this period and NYISO operators had continual access to backup telemetry data in order to maintain visibility as to system conditions. Mr Brian Wilkie (NYPA) asked if there were any impacts on market outcomes during the outage. Mr. Chapman and Ms. Emilie Nelson (NYISO) noted that system conditions were stable during the outage, but that price corrections for certain real-time intervals during the outage have occurred.

Mr. Rana Mukerji (NYISO) reviewed the market operations report included with the meeting material. There were no questions.

4. Seams Report

Mr. Mukerji reviewed the seams report included with the meeting material. There were no questions.

5. Planning Update

Mr. Dana Walters (NYISO) reported the NYISO has begun the RNA process and will present a schedule for such process at a future ESPWG meeting. Mr. Walters also noted that a solicitation for solutions in response to the AC Transmission Public Policy Transmission Needs recently identified by the New York State Public Service Commission (NYPSC) would likely be issued by the end of February 2016. There were no questions.

6. ICAP Manual Updates: Import Rights for Capability Year 2016/2017

Mr. Josh Boles (NYISO) reviewed the presentation included with the meeting material. Mr. Fromer asked the NYISO to consider including a link in the ICAP Manual to the results of the subsequent deliverability analysis in order to assist Market Participants to identify the final set of applicable values. Mr. Boles noted that the values determined following the deliverability analysis are posted to the NYISO's website and distributed via email to Market Participants, but stated he would consider the request. Ms. Doreen Saia (Entergy) requested that the NYISO subsequently provide notification when the current Class Year process is completed and whether Ontario would be included for the Winter 2016/2017 Capability Period.

Mr. Mike Cadwalader (Atlantic Economics) provided the following statement for the minutes:

The TOs recognize that the NYISO's tariff obligates it to update the ICAP manual with the maximum allowances for installed capacity provided by resources outside NYCA for the upcoming capability year, for each capability period and at each neighboring control area interface. These values are computed using a standard method. At this meeting, the TOs plan to support the ICAP manual changes to include these computed values for the upcoming capability year because the NYISO is meeting its obligation and following its standard method.

However, the TOs note that the analysis the NYISO has performed to support both this proposal, in addition to analysis it has conducted in the past, illustrates concerns regarding the procedure that the ISO uses to determine the number of MW of external CRIS rights that entities are permitted to request. Specifically, under this procedure, awarding external CRIS rights to import capacity into New York from a given control area can lead to an increase in the total number of ICAP import rights (above and beyond grandfathered rights, ETCNL, and external CRIS rights) that are allocated to that control area. That increase then permits yet more external CRIS rights to be awarded to that control area, which would cause additional ICAP import rights to be allocated to that control area, and so on.

The potential for such a cycle is particularly worrisome in cases when allocating additional external CRIS rights to a single control area substantially decreases the total amount of ICAP that can be imported from all control areas, taken together, and the ISO's analysis indicates that may also be occurring.

Therefore, the TOs urge the ISO to work with stakeholders over the coming year to verify that its procedures for allocating ICAP import rights, which in turn determine the number of MW of external CRIS

rights that entities are permitted to request, do not inadvertently produce such an outcome.

Mr. Scott Leuthauser (HQ US) noted support for the TOs request to review current import rights allocation process.

Motion #2:

The Business Issues Committee (BIC) hereby approves revisions to the Installed Capacity Manual as presented at the February 10, 2016 BIC Meeting.

Motion passed unanimously with abstentions.

7. Proposed Revisions to the Economic Planning Manual

Mr. Timothy Duffy (NYISO) reviewed the presentation included with the meeting material. There were no questions.

Motion #3:

The Business Issues Committee (BIC) hereby approves the proposed changes to the Economic Planning Process Manual as presented and described at the February 10, 2016 BIC Meeting. *Motion passed unanimously.*

8. Working Group Updates

BAWG – Mr. Norman Mah (Con Ed Solutions) reported that the BAWG reviewed the grid accounting report and a presentation on FERC Fee Recovery.

CPWG – Mr. Mah reported that the CPWG reviewed Officer Certification Form updates.

ESPWG – Mr. Butler (Con Edison) reported there were two ESPWG meetings since the last BIC meeting. ESPWG has been reviewing interconnection process changes intended to comply with the FERC's December 23, 2015 order instructing the NYISO to have a non-discriminatory interconnection process for all transmission projects for which regional cost allocation is sought. On February 10, 2016, the NYISO will also review planned changes to its pro forma Development Agreement intended to comply with the December 23, 2015 order. The agreement will be executed by developers selected to develop transmission solutions in one of the NYISO's planning processes. On February 5, 2016, NYISO staff also presented its planned base case assumptions for the AC Transmission Public Policy Transmission Needs recently identified by the NYPSC. The NYISO indicated that it plans to post a solicitation seeking solutions to such needs on or before February 29, 2016. The NYISO also presented Reliability Planning Process reforms as part of a proposed revisions to the Reliability Planning Process Manual. The revisions are intended to allow the NYISO to update its estimate of reliability needs to reflect recent developments before proposed solutions are submitted. The revisions would also clarify the treatment of transmission projects selected or triggered in the NYISO's planning processes in the reliability base case.

ICAPWG – Mr. Liam Baker (US Power Gen) reported that the ICAPWG met twice since the last BIC meeting and covered the following topics: NCZ Study update, the Renewables and Self Supply Compliance Filing, UDR Facility Net Energy Revenue Estimation for BSM Determinations Compliance Filing, the Winter DMNC test period, External ICAP Rights for the 2016/2017 Capability Year (prior to deliverability testing), proposed ICAP Manual revisions related to the 2016/2017 Import Right Limits, the ICAP Demand Curve Reset and potential tariff revisions to address proposed changes to the ICAP Demand Curve Reset process.

IPTF – The group did not meet.

LFTF – The group did not meet.

MIWG – Mr. Bob Boyle (NYPA) reported that the MIWG reviewed potential improvements to the modeling of the Niagara Power Plant in the energy markets and the upcoming price formation report required by the NYISO in FERC Docket No. AD14-14-000.

PRWLG – The group did not meet.

EGCWG – The group did not meet.

9. New Business

Mr. Ethan Avallone (NYISO) reported the graduated transmission demand curve (GTDC) has been activated for the February 11, 2016 market day. Due to the delayed implementation of the GTDC, certain manual changes that were accepted by BIC last year are now out of date, but must still be posted. Specifically, these manual changes show the middle point of the GTDC as \$1,175, rather than \$2,350 as was accepted by FERC as part of the Comprehensive Shortage Pricing project. The NYISO will post updated manuals to the "under review" section of the NYISO website; these manuals will include the correct value for the middle price point (i.e., \$2,350). The NYISO intends to review these manual changes with Market Participants in March 2016 before pursuing approval thereof.

Meeting adjourned at 12:00 p.m.

Business Issues Committee

February 10, 2016 Meeting Final Motions

Motion #1:

Motion to approve the Minutes of the December 9, 2015 meeting.

Motion passed unanimously.

Motion #2:

The Business Issues Committee (BIC) hereby approves revisions to the Installed Capacity Manual as presented at the February 10, 2016 BIC Meeting.

Motion passed unanimously with abstentions.

Motion #3:

The Business Issues Committee (BIC) hereby approves the proposed changes to the Economic Planning Process Manual as presented and described at the February 10, 2016 BIC Meeting.

Motion passed unanimously.

New York Independent System Operator - Committee Membership

Business Issues Committee - February 10, 2016 - NYISO - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
toria Energy LLC	Generation Owners	McCall, Chuck	Browne , Scott	Habib , Phillipe	Singer, Leonard						
V Valley LLC	Generation Owners	Litchfield, Matt	Rumsey, Tom	•							
lpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve						
ricket Valley Energy Center	Generation Owners	De Meyere , Bob	Wallenstein , Arnold	Paryl , Ron							
DP Renewables North America LLC	Generation Owners	Brodbeck, John	Kaplan, Seth	Grimes, Mike	Nemeth , Jeffrey	Dictor, Stephen					
ast Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	Fisher, Amy							
ntergy Nuclear Northeast	Generation Owners	Logan, Kathy	Potkin, Marc	✓ Saia, Doreen	Del Orto , Ken						
oward Wind LLC	Generation Owners	Merich , Olivia	Rugh , Chris								
ndeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	Younger, Mark								
nnovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
venergy Energy Management LLC	Generation Owners	Ma, Alex	Goldstein, Michael	Orzel , Chris							
ational Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe, Brian								
oble Environmental Power LLC	Generation Owners	Silton , Harry									
elkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy	Ryan , James								
omerset Operating Company, LLC	Generation Owners	✓ Evanoski, Dave	Goodenough, Jeery	McManus, John							
C Ravenswood, Inc.	Generation Owners	Taylor, William	DAndrea , James	Congel, Dan	Hachey, Mike						
BJ Energy LLC	Other Suppliers	Ni, Bing	Lee, George								
BP Energy Company	Other Suppliers	Briscoe , Judy	Magruder , Kathy	W H 2013	G 1 T						
BlueRock Energy, Inc.	Other Suppliers	Nichols , Jim	Yeager , Keith	VanHorne , Phil	Graham , Tammy						
Brookfield Energy Marketing L.P.	Other Suppliers	LaRoe, Chris	Mitreski , Aleksandar	Mitelman , Rimma	Dallaire , Eric						
CPower	Other Suppliers	Markham , Craig	Lacey , Frank	Damaskos , Deno	Ackerman, Alan						
Castleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss, Gordon	Romine , Brad	Emmett , Robert							
Citigroup Energy Inc.	Other Suppliers	Trayers, Barry									
Con Edison Solutions Inc.	Other Suppliers	Mah, Norman	Dannels , Jeff	W. 1 . G.							
Constellation New Energy	Other Suppliers	McCartney, Glen	Wentlent, Chris	Kirk , Steven							
Cross Sound Cable Company, LLC OC Energy	Other Suppliers Other Suppliers	Reinhart, Brian Bleiweis, Bruce	Rotger, Jose Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Kuo, David					
OTE Energy	Other Suppliers	Pakela, Gregory	Wieszczyk, Raymond	German, Robert	Milberg, Sadao	Kuo, David					
Direct Energy Business Marketing, LLC	Other Suppliers	Philips , Marjorie	Comstock, Read	German , Robert							
Dynegy Marketing and Trade	Other Suppliers	Roby, Rick	Ellis, Dean	Ziegler, Pete							
EDF Trading North America, LLC	Other Suppliers	Erbrick , Michael	LeForce , Randall	Ziegier, rete							
EnerNoc	Other Suppliers	Brewster, David	Breidenbaugh, Aaron	Geller, Greg							
Energy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas , Cristina	Cinadr , Matt		
Energy Technology Savings	Other Suppliers	Hendler, Jeff	Ross , Valerie	,		, , , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , , ,		•
EnergyConnect	Other Suppliers	Campbell , Bruce	Davis , Robert	✓ Lawrence , David							
Exelon Generating Co. LLC	Other Suppliers	Sears, Deborah	Wentlent, Chris	Kirk, Steven							i
GDF Suez Energy NA, Inc.	Other Suppliers	Levine , Jeffrey	Hawkins , Darin	Campbell, Chad							İ
Galt Power	Other Suppliers	Fernands, Rochelle	✓ Ackerman, Alan								İ
IQ Energy Services US	Other Suppliers	Bernier, Luc	Collins , Kyle	✓ Leuthauser, Scott	Vennes, Yannick						
nnoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve								i
ntegrys Energy Services of New York, Inc	Other Suppliers	Haugh, Michael	,								
Lyonsdale Biomass, LLC	Other Suppliers	Ralston, William	Hebel, Nathan	Carrigan , Kathleen							
Mercuria Energy America, Inc.	Other Suppliers	Davis , Andrew	✓Younger, Mark								
Morgan Stanley Capital Group, Inc.	Other Suppliers	Murray, Patrick	Kochonies, Karen	Ezickson, Doron							
NRG Power Marketing Inc.	Other Suppliers	√Joseph , Kelli	Fuller, Peter	Cona , Lisa							
NextEra Energy	Other Suppliers	Applebaum, David	Gardner , Michelle								
Noble Americas Gas & Power Corp.	Other Suppliers	Boston, Roy	Kyle , Chris	Sunga, Leonard							
Ontario Power Generation, Inc.	Other Suppliers	Lacivita, Ken	✓Gell, Richard	Barr, David	Sheinfield, Joel						
SEG Energy Resource & Trade, LLC	Other Suppliers	✓ Fromer, Howard	DePillo, Raymond	Messmer, Robert	Murawski, James						
owerex Corporation	Other Suppliers	Tang, Glen	Dion , Julien	Fichten, Murray							
epsol Energy North America Corporation	Other Suppliers	Moreton , Samuel	Horvath , Peter								
iverbay Corporation	Other Suppliers	Merola , Peter	Ellison , Noel	Ahrens, David	Villegas, Cristina						
ESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
hell Energy North America, LLC	Other Suppliers	Picardi, Matt	French, Dave								
alen Energy	Other Suppliers	✓ Hyzinski , Tom	Greening, Michele								
ransCanada Power Marketing, Ltd.	Other Suppliers	Taylor, William	D'Andrea, James	Congel, Dan	Hachey, Mike						
J.S. Power Generating Co.	Other Suppliers	✓Baker, Liam	Reese, John	✓Younger, Mark	Schwall, Matthew	✓ Johnson, David	Wolcott, Tyler				
Viridity Energy, Inc.	Other Suppliers	Freifeld, Allen									
Vitol Inc.	Other Suppliers	Wadsworth, Joe	Viola, Bob	Kam, Kenney							

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
KO Energy NY, LP	Other Suppliers	Drangula , Carey	Thompson , Matthew	Hughes , Adam						·	
Central Hudson Gas & Electric Corp.	Transmission Owners	Borchert , John	Chan, Ting	Seitz, Diane	Dittmann, David					✓Paoloni, Lindsay	
Consolidated Edison Co. of NY, Inc.	Transmission Owners	Quin , Jane	Nachmias, Stuart	Altobell, Deidre	Butler, Scott	Butterklee, Neil				✓ Hargett, Chris	†
National Grid	Transmission Owners		· ·	✓ Carron , Benjamin	Buildi, Beoff	Danoirio, Iveil				Trangen, Cillis	
		Francy, Bart	Lodemore , David			-					+
New York State Electric & Gas (NYSEG)	Transmission Owners	✓ Caletka, Patricia	Kinney, Ray	Brophy , Richard							
Orange & Rockland Utilities, Inc.	Transmission Owners	,									
Rochester Gas and Electric Corp.	Transmission Owners	Caletka, Patricia	Kinney, Ray	Brophy , Richard							
Alcoa, Inc.	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey , Amanda	Lang, Kevin						
IBM Corporation	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey, Amanda	Lang, Kevin						
Nucor Steel Auburn, Inc.	Large Consumer	Brew , James	Radigan, Frank	Kopon, Owen							
Occidental Chemical Corp.	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey , Amanda	Lang, Kevin						
Wegmans Food Markets	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey , Amanda	Lang, Kevin						
Metropolitan Transportation Authority	Large Consumer Government Agency	Keller , David	Chou, Frances								
American Sugar Refining, Inc	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Trinsey , Amanda					
Association for Energy Affordability	Small Consumer	Morris, Jackson	Hepinstall, David	Strauss , Valerie							
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Trinsey , Amanda					
Fordham University	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Trinsey , Amanda					
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Trinsey , Amanda					
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Trinsey , Amanda					
New York University	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Trinsey , Amanda					+
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State City of New York	Government Statewide Consumer Advocate Government Small Consumer and Retail	Hogan , Erin	Rigberg, Saul	✓ Montalvo , Marc	Pereira , Alvaro						
NYS Energy Research & Dev. Authority	Aggregate Government Small Consumer and Retail	Lang, Kevin	Mager, Michael	Trinsey , Amanda							
	Aggregate	Hall , Christopher	Coup, David	Mas , Carl	Wilcox , James						
Long Island Power Authority	State Power Authorities	Clarke, Dave	Wilczek, Mariann								
New York Power Authority	State Power Authorities	Antinori , Andrew	Boyle, Bob	Lundin, Tim	Mahoney, Daniel	✓ Wilkie , Brian					
Bath Electric, Gas & Water Systems	Municipalities and Coops	Hallgren, Guy	✓ Bolbrock, Richard	Cordeiro, Mark							
Freeport Electric	Municipalities and Coops	Livingston , Al	Kimlingen, Ted	Rudebusch, Tom	Fiore, Chris						
Jamestown Board of Public Utilities	Municipalities and Coops	Gustafson, David	Leathers, David	Kulig, Steve	Rudebusch, Tom						
Lake Placid Village	Municipalities and Coops	Kroha, Peter	✓ Bolbrock, Richard	Cordeiro, Mark							
Municipal Commission of Boonville	Municipalities and Coops	Stabb, Kenneth	✓Bolbrock, Richard	Cordeiro, Mark							
Plattsburgh Municipal Lighting Dept	Municipalities and Coops	Treacy, William	✓ Bolbrock, Richard	Cordeiro, Mark							
Village of Arcade	Municipalities and Coops	Kilburn, Larry	✓ Bolbrock, Richard	Cordeiro, Mark							
Village of Fairport	Municipalities and Coops	Hegarty , Matt	✓ Bolbrock, Richard	Cordeiro, Mark							1
Village of Rockville Centre	Municipalities and Coops	Andreas , Philip	Cardile , Thomas	Rudebusch, Tom							
Village of Solvay	Municipalities and Coops Municipalities and Coops	Hawksby, Joe	Bolbrock, Richard	Cordeiro, Mark							
Village of Westfield	Municipalities and Coops	-	Bolbrock, Richard	*		-					1
· ·		Thompson , Andrew		Cordeiro, Mark							
American Lung Association	Environmental	Gahl , David	Seilback, Michaek	Morris, Jackson							+
American Wind Energy Association	Environmental	Reynolds , Anne	Gramlich, Robert	Mouni- 11-		-					+
Environmental Advocates	Environmental	Bambrick , Conor	Gahl , David	Morris, Jackson		-					+
Natural Resources Defense Council	Environmental	Morris, Jackson	Ho, Bruce	Clements , Allison		-					+
PACE Energy & Climate Center	Environmental	Gahl , David	Martin , Nicholas	Morris, Jackson		1					+
Riverkeeper	Environmental	Len , Christopher	Lucas , Mark	Gahl , David		-					1
Ace Energy Company Inc.	Non Voting	Hillman , Sharon	Kumaraswarmy , Kiran			1					1
Ace Energy Company, Inc.	Non Voting Non Voting	Lynch, Stephen Reynolds , Anne									1
Alliance for Clean Energy New York						-					1
Anbaric Northeast Transmission Development Co	Non Voting Non Voting	Sanderson , Barry Levy , Tal	Klein , Abram	Shan Dong	Westlund , John	Laich, Marcus					1
Appian Way Energy Partners East, LLC Ardor Energy LLC	Non Voting Non Voting	Breen , Erika	AUTAIII	Shen , Dong	westiulia, John	Laicii , iviaicus					
==	- <u>-</u>	Kramek, Mike				1					
Boston Energy Marketing & Trading	Non Voting		Down Cl. 1								
Boundless Energy, LLC	Non Voting	Tompkins John, E.	Pratt , Charles			-					+
Bruce Power	Non Voting	Viswanathan , Samira	Meyer , Sandra	Corbon Mital 11		-					+
Caithness Energy LLC	Non Voting	Keevill , Gary	Collins , Kevin	Garber, Mitchell		-					1
Cubit Power One Inc.	Non Voting	Powell , Alan	Powell , Leighton	Singer, Leonard	/A.d	1					1
Customized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓Ackerman, Alan						
Ecogen	Non Voting	Hagner, Thomas				-					
Energetix, Inc.	Non Voting	Comstock, Read				-					
Energya VM	Non Voting	Ortiz Lopez , Jose Ignacio	=			-					
First Wind Holdings, LLC	Non Voting	Keene , John	Salehian , Afshin								
Fluent Energy	Non Voting	Acampora , Peter	Doll, Ed			-					
Hudson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
Hydro-Quebec TransEnergie	Non Voting	Prevost , Michel	1	1	1	1	1	i	i	ĺ	1

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Iberdrola Renewables Inc	Non Voting	Allen, Thresa									
Innovari, Inc.	Non Voting	Lunt, Robin	Hodges, Brent								
MAG Energy Solutions, Inc.	Non Voting	Roberge, Martin	Vezina, Alexandre								
NRG Curtailment Solutions, Inc.	Non Voting	Pieniazek, Marie	✓ Scheiderich , Jim	Lynch, Stephen	Korczykowski, Jim						
NYS Department of Public Service	Non Voting	✓ Paynter , Thomas	Evans , Adam								
National Fuel Gas Distribution Corporation	Non Voting	Novak, Michael	Eck, Robert								
New Athens Generating Co. LLC	Non Voting	DeVinney, Dan									
New York Transco	Non Voting	Nachmias, Stuart	Lahtinen , James	Allen, Richard							
Noble Americas Energy Solutions	Non Voting	Sun, Jungsuk	Nakhonthap, Jade	Sunga, Leonard							
Northeast Clean Heat & Power Initiative	Non Voting	De Veer , Henrietta	Lilian, Jon	Dwyer, Herb	Brown, Ruben	Cinadr, Matt	Martin, Nicholas	Villegas, Cristina			
NuEnergen	Non Voting	Hamilton, Sandy	Korczykowski, Ryan								
Power Supply Services LLC	Non Voting	Phillips , Gabriel	Abend, Erik								
RBC Energy Services, LP	Non Voting	Burnham, Steve	Fraiture, Christian	Doolittle, Robin							
RENEW Northeast	Non Voting	Pullaro , Francis	Krich, Abigail								
RES Americas, Inc.	Non Voting	Fernandes, John	Boyd, Dan								
Red Wolf Energy Trading, LLC	Non Voting	✓ Sharma , Rishi									
Richard P. Felak	Non Voting	Felak, Rich									
Saracen Energy East LP	Non Voting	Peebles , Andy									
Siemens Energy, Inc.	Non Voting	Feltes, James									
Stephentown Spindle, LLC	Non Voting	Hebert, Chris									
Caylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page, Allan								
FransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted									
Cransmission Developers Inc.	Non Voting	Jessome, Donald	Helmer, William								
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					

NYISO Employees

Walters, Dana

Pike, Robb

Avallone, Ethan

Bissell, Garrett

Boles, Josh

DeSocio, Mike

Mukerji, Rana Eckels, Debbie

Dixon, Kirk Chapman, Doug