DRAFT NYISO Business Issues Committee Meeting Minutes August 13, 2014 10:00 a.m. – 12:15 p.m.

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

The chair of the Business Issues Committee (BIC), Mr. Brad Kranz (NRG) 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.

Mr. Kranz announced that members of the press were in attendance for the BIC and welcomed Messrs. Rich Heidorn Jr. and William Opalka (RTO Insider). Mr. Kranz reminded the reporters of the participation rules at NYISO meetings. Mr. Bruce Bleiweis (DC Energy) noted that the publication provided valuable insight into PJM meetings.

In addition, Mr. Kranz announced that Mr. Norman Mah (Con Ed Solutions) would chair the Billing and Accounting Working Group and the meetings would be combined with the Credit Policy Working Group.

2. Approval of Meeting Minutes – July 16, 2014

<u>Motion #1:</u> Motion to approve the Minutes of the July 16 2014 BIC meeting. *Motion passed unanimously by show of hands*

3. Market Operations Report/Seams Report

Mr. Rana Mukerji (NYISO) reviewed the Market Operations report included with the meeting material. Mr. Mukerji also reviewed the seams report included with the meeting material. There were no questions.

4. Planning Update

Mr. Henry Chao (NYISO) reported that the 2014 Reliability Needs Assessment was scheduled for the August 14th Operating Committee meeting for action. He added that the Comprehensive Reliability Plan would begin in the coming months.

5. Proposed Black Start Changes

Mr. Brad Garrison (NYISO) reviewed the presentation included with the meeting material.

Mr. Howard Fromer (PSEG) said it was jurisdictionally inappropriate for the New York State Reliability Council (NYSRC) to dictate that the NYISO had to change its tariff, the proposal was flawed because "material" is not a defined term and it would be difficult measure improvements, generators should not be forced into involuntary servitude, and the compensation level should have been revisited. He added it was disappointing that the NYISO would not object to what the NYSRC has done. He asked if a generator had the right to make a section 205 filing to FERC. He said it should be a fundamental right of a generator and should be clear.

Mr. Liam Baker (US Power Generating) asked if, under the proposal, the NYISO determined a generator has demonstrated it had a good case for an exemption from Con Edison's black start

program, but the NYSRC disagreed, how the situation would get resolved. He believed it put the NYISO in an awkward position. Mr. Mark Younger (Hudson Energy Economics for Indeck) agreed with Mr. Baker and expressed a concern whether the NYISO could make an independent decision if the NYISO agreed with a generator that the resource was unduly burdened by Con Edison's requirement. Mr. Wes Yeomans (NYISO) said that non-compliance situations get resolved by the NYSRC on a case-by-case basis.

Dr. Mayer Sasson (Con Edison), as the NYSRC Executive Committee chairman, said that the NYSRC has always been respectful of the NYISO's independence and the NYISO was helpful in developing the reliability rule (PRR-116). He added that the rule was developed to protect reliability. He disagreed with Mr. Fromer that the rule forced the NYISO to change its tariff. PRR-116 gave the NYISO the ability to make the final determination. He disagreed with Mr. Baker and said there was no compliance issue. Mr. Rich Bolbrock (MEUA) stated that if the NYISO was in non-compliance with the NYSRC, a plan would be put forth to allow the NYISO to return to compliance. Mr. Rick Brophy (NYSEG) urged the BIC to read PRR-116. Mr. Rich Miller (Con Edison) said that the generators were raising an extreme hypothetical scenario and noted that there existed a dispute resolution procedure. He added that the black start program was modified a few years ago and had the same language. The generators did not raise an objection at that time and voted in favor of that proposal.

Ms. Doreen Saia (Entergy) said the proposal was a significant change to Con Edison's black start program and that generators were not receiving clear answers to their questions. She said that the dispute resolution process that Mr. Miller raised was flawed. She added that the proposal should be sent back to the task force for further discussion and that it was not ready for BIC approval. Mr. Kranz agreed and said the proposal would only result in litigation.

Mr. Christopher Sharp (NYISO) read the NYSRC reliability rule containing the standard for adequacy of a TO system restoration plan, and noted that the rule focuses on whether a system restoration plan contains adequate resources to assure system restoration in a safe and orderly manner, and as promptly as reasonably possible. It does not contain a requirement that the Plan include every single resource that could improve the Plan.

Mr. Kevin Lang (Couch White for the City of NY) stated that he agreed that the language could be clearer and understood that the generator community would want an objective standard, but there is no established objective standard to be applied. He added that the BIC should vote on the proposal because the BIC has voted on numerous proposals that included subjective standards.

Mr. Christopher LaRoe (IPPNY) asked if the generators have the right to file at FERC for a unit specific rate pursuant to Section 205. Mr. Kevin Jones (Hunton & Williams, on behalf of NYISO) said that the relevant tariff language establishes a unique process for filing for a unit-specific rate, but that the filing likely would be submitted as a Section 205. Mr. LaRoe also asked how the change would affect mothballed units and would the NYISO make determinations for whether they could leave. Mr. Garrison noted that the NYISO did not make those determinations. Dr. Sasson further stated that the current tariff already contains a provision indicating that the commitment to provide blackstart services would not prevent a unit from seeking to be mothballed.

Mr. Dan Congel (TC Ravenswood) asked how units that provide service under their own tariffs would be affected by the change. Mr. Jones said that the validity of individual tariffs is an open issue that has not been finally resolved at FERC, but stated that the terms of the tariff under which a service is provided would be the ones that would control.

Dr. Sasson stated that the proposal was important for reliability and thanked all parties for their involvement.

Motion #2

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve changes to the NYISO's Market Services Tariff as described in the presentation entitled "Proposed Black Start Changes", made to the BIC on August 13, 2014. *Motion passed with 60.07% affirmative votes.*

6. CARIS 2 Update

Mr. Timothy Duffy (NYISO) reviewed the presentation included with the meeting material. Mr. Miller noted that Con Edison had expressed disagreement with the gas price forecast used by the NYISO.

7. Working Group Updates

- a. *Billing and Accounting Working Group Ms.* Debbie Eckels (NYISO) reported that the group reviewed the grid accounting report.
- b. Credit Policy Working Group Mr. Norman Mah (Con Ed Solutions) reported that the CPWG discussed an overview of 2014 financial projects and that all projects were on schedule. The 2015 projects are being discussed at the BPWG meetings. There are no scheduled CPWG meetings in August.
- c. *Electric System Planning Working Group* Ms. Eckels reported that the group reviewed the RNA draft report and the RNA will advance to the Operating Committee.
- d. *Installed Capacity Working Group* Mr. Chris LaRoe (IPPNY) reported that the ICAPWG met to discuss the External CRIS rights 4-strike rule
- e. Inter-regional Planning Task Force No update.
- f. Load Forecasting Task Force Mr. Arthur Maniaci (NYISO) reported that the LFTF met twice in June to review the load forecast uncertainty models and the NYISO hosted the 2014 spring economic conference. He added that the LFTF will next meet on August 25th.
- g. Market Issues Working Group –Ms. Patti Caletka (NYSEG) reported that MIWG reviewed the Q1 2014 State of the Market report and a study on the number of Centralized TCC auction rounds. She noted a meeting for August 25th would be scheduled to review the Q2 State of the Market report because the August 26th meeting had a full agenda.
- h. *Price Responsive Load Working Group* Mr. Bob Boyle (NYPA) reported that the PRLWG (along with ICAPWG and MIWG) reviewed a proposal on the SCR performance obligations. The proposal would be discussed further at joint meetings in August.

8. New Business

Mr. Younger asked if the NYISO received a retirement notice for the nuclear power plant, Ginna. Mr. Chao said the NYISO could respond to the question at the August 14th Operating Committee. Ms. Marji Philips (Direct Energy) requested an email be sent to the BIC on how the NYISO responded to Mr. Younger's question at the OC.

Ms. Saia said it was important to note that the NYISO did a strong job with the 2014 RNA, which should serve as a model for future years. She thanked Ms. Yachi Lin (NYISO) for her responsiveness at the ESPWG meetings.

Ms. Saia raised a concern about the Class Year 2012 process and the lack of information used for the scaling factor for the mitigated exemption tests as they apply to the TDI project. She understood there was litigation at FERC, but in the interest of transparency, it would be helpful for the NYISO to

release the scaling factor information that was being used. She said the issue could not wait much longer and should be addressed. Mr. Chao said he would talk to the Market Mitigation and Analysis department and get an answer to the BIC. He noted that the NYISO was working out an issue with a Class Year 2012 member and it could be delayed.

The meeting adjourned at 12:15 p.m.

Business Issues Committee Meeting August 13, 2014 Final Motions

Motion #1:

Motion to approve the Minutes of the July 16 BIC meeting.

Motion passed unanimously.

Motion #2:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve changes to the NYISO's Market Services Tariff as described in the presentation entitled "Proposed Black Start Changes", made to the BIC on August 13, 2014.

Motion passed with 60.07% affirmative votes.

New York Independent System Operator

Business Issues Committee - August 13, 2014

Motion: Motion #Black Start

Result: Motion Passed

| Sector with base percent | % | Active | Quorum | Adj. Percent | For | Against | Abstain | % For | % Against |
|--------------------------------|-------|----------|--------------|-----------------|-------|--------------|---------|-------|--------------|
| Generation Owners | 21.50 | | \checkmark | 21.50 | 0.00 | 9.00 | 1.00 | 0.00 | 21.50 |
| Other Suppliers | 21.50 | | \checkmark | 21.50 | 1.00 | 6.00 | 8.00 | 3.07 | 18.43 |
| Transmission Owners | 20.00 | | \checkmark | 20.00 | 3.00 | 0.00 | 1.00 | 20.00 | 0.00 |
| End Use Consumer | | | \checkmark | | | | | | |
| Large Consumer | 9.00 | | | 9.00 | 4.00 | 0.00 | 0.00 | 10.33 | 0.00 |
| Large Cons. Gov. Agency | 2.00 | | | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Consumer | 4.50 | | \checkmark | 4.50 | 6.00 | 0.00 | 0.00 | 5.17 | 0.00 |
| Gov. State-wide Cons. Advocate | 2.70 | | | 2.70 | 1.00 | 0.00 | 0.00 | 2.70 | 0.00 |
| Gov. Sm. Cons. & Retail Aggr. | 1.80 | | | 1.80 | 2.00 | 0.00 | 0.00 | 1.80 | 0.00 |
| Public Power | | | \checkmark | | | | | | |
| State Power Authorities | 8.00 | | | 8.00 | 2.00 | 0.00 | 0.00 | 9.07 | 0.00 |
| Munis & Co-ops | 7.00 | | | 7.00 | 11.00 | 0.00 | 0.00 | 7.93 | 0.00 |
| Environmental | 2.00 | √ | | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 |
| | | | 5 | 100.00 | 30.00 | 15.00 | 12.00 | 60.07 | 39.93 |
| | | | | 100.00 | Norn | nalize to 10 |)0% : | 60.07 | 39.93 |

New York Independent System Operator

Business Issues Committee - August 13, 2014

Motion: Motion #Black Start

Result: Motion Passed

| Sector | Organization | Representative | Affiliate | Present | For | Against |
|-------------------|---|------------------------|-----------|---------|------|---------|
| Generation Owners | Indeck Energy Services, Inc. | Younger, Mark | N | Y | 0.00 | 1.00 |
| Generation Owners | Astoria Energy LLC | McCall, Chuck | N | Y | 0.00 | 1.00 |
| Generation Owners | Calpine | LaRoe, Chris | N | Y | 0.00 | 1.00 |
| Generation Owners | CPV Valley LLC | DellOrto, Ken | N | Y | 0.00 | 1.00 |
| Generation Owners | East Coast Power, LLC | Fogarty, Thomas | N | Y | 0.00 | 1.00 |
| Generation Owners | Entergy Nuclear Northeast | Saia, Doreen | N | Y | 0.00 | 1.00 |
| Generation Owners | Innovative Energy Systems | | N | N | 0.00 | 0.00 |
| Generation Owners | New Athens Generating Co. LLC | DellOrto, Ken | N | Y | 0.00 | 1.00 |
| Generation Owners | Noble Environmental Power LLC | | N | N | 0.00 | 0.00 |
| Generation Owners | Selkirk Cogen Partners, LP | | N | N | 0.00 | 0.00 |
| Generation Owners | TC Ravenswood, Inc. | Congel, Dan | N | Y | 0.00 | 0.00 |
| Generation Owners | EDP Renewables North America LLC | | N | N | 0.00 | 0.00 |
| Generation Owners | Cricket Valley Energy Center | | N | N | 0.00 | 0.00 |
| Generation Owners | Invenergy Energy Management LLC | LaRoe, Chris | N | Y | 0.00 | 1.00 |
| Generation Owners | National Grid Generation LLC | | Y | N | 0.00 | 0.00 |
| Generation Owners | Somerset Operating Company, LLC | LaRoe, Chris | N | Y | 0.00 | 1.00 |
| Generation Owners | Howard Wind LLC | | N | N | 0.00 | 0.00 |
| Generation Owners | Stephentown Spindle, LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | Hess Corporpration | | N | N | 0.00 | 0.00 |
| Other Suppliers | BJ Energy LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | Brookfield Energy Marketing | Francis, Frank | N | Y | 0.00 | 1.00 |
| Other Suppliers | Citigroup Energy Inc. | Trayers, Barry | N | Y | 0.00 | 0.00 |
| Other Suppliers | Con Edison Solutions Inc. | | Y | N | 0.00 | 0.00 |
| Other Suppliers | Constellation New Energy | | Y | N | 0.00 | 0.00 |
| Other Suppliers | Cross Sound Cable Company, LLC | | Y | N | 0.00 | 0.00 |
| Other Suppliers | DC Energy | Bleiweis, Bruce | N | Y | 0.00 | 0.00 |
| Other Suppliers | DTE Energy | | Ν | N | 0.00 | 0.00 |
| Other Suppliers | Dynegy Power Marketing, Inc. | Roby, Rick | N | Y | 0.00 | 1.00 |
| Other Suppliers | Energy Spectrum | | N | N | 0.00 | 0.00 |
| Other Suppliers | EnerNoc | Breidenbaugh, Aaron | N | Y | 1.00 | 0.00 |
| Other Suppliers | Galt Power | Ackerman, Alan | N | Y | 0.00 | 0.00 |
| Other Suppliers | HQ Energy Services US | Leuthauser, Scott | N | Y | 0.00 | 0.00 |
| Other Suppliers | Integrys Energy Services of New York, Inc | | N | N | 0.00 | 0.00 |
| Other Suppliers | Morgan Stanley Capital Group, Inc. | | N | N | 0.00 | 0.00 |
| Other Suppliers | NRG Power Marketing Inc. | Johnson, Shaun | N | Y | 0.00 | 1.00 |
| Other Suppliers | Ontario Power Generation, Inc. | | N | N | 0.00 | 0.00 |
| Other Suppliers | Exelon Generating Co. LLC | McCartney, Glen | N | Y | 0.00 | 1.00 |
| Other Suppliers | PPL EnergyPlus, LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | PSEG Energy Resource & Trade, LLC | Fromer, Howard | Ν | Y | 0.00 | 1.00 |
| Other Suppliers | SESCO Enterprises, LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | Shell Energy North America, LLC | | Ν | N | 0.00 | 0.00 |
| Other Suppliers | TransCanada Power Marketing, Ltd. | | Y | N | 0.00 | 0.00 |
| Other Suppliers | U.S. Power Generating Co. | Baker, Liam | N | Y | 0.00 | 1.00 |
| Other Suppliers | J.P. Morgan Ventures Energy Corporatio | | N | N | 0.00 | 0.00 |
| Other Suppliers | BP Energy Company | | Ν | N | 0.00 | 0.00 |
| Other Suppliers | EDF Trading North America, LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | Iberdrola Renewables Inc | | Y | N | 0.00 | 0.00 |

| Sector | Organization | Representative | Affiliate | Present | For | Against |
|--|---|-------------------|-----------|---------|------|---------|
| Other Suppliers | NextEra Energy | • | N | N | 0.00 | 0.00 |
| Other Suppliers | Innoventive Power | | N | N | 0.00 | 0.00 |
| Other Suppliers | Vitol Inc. | | N | N | 0.00 | 0.00 |
| Other Suppliers | GDF Suez Energy NA, Inc. | | Y | N | 0.00 | 0.00 |
| Other Suppliers | Viridity Energy, Inc. | | N | N | 0.00 | 0.00 |
| Other Suppliers | Riverbay Corporation | | N | N | 0.00 | 0.00 |
| Other Suppliers | Comverge/Enerwise Global Technologies | Ackerman, Alan | N | Y | 0.00 | 0.00 |
| Other Suppliers | EnergyConnect | Lawrence, David | N | Y | 0.00 | 0.00 |
| Other Suppliers | Twin Cities Power LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | Castleton Commodities Merchant Trading L.P. | | N | N | 0.00 | 0.00 |
| Other Suppliers | Great Bay Energy IV, LLC | | N | N | 0.00 | 0.00 |
| Other Suppliers | BlueRock Energy, Inc. | | N | N | 0.00 | 0.00 |
| Other Suppliers | Noble Americas Gas & Power Corp. | | N | N | 0.00 | 0.00 |
| Other Suppliers | Lyonsdale Biomass, LLC | Hebel, Nathan | N | Y | 0.00 | 0.00 |
| Other Suppliers | Boston Energy Marketing & Trading | , | Y | N | 0.00 | 0.00 |
| Other Suppliers | Direct Energy Business Marketing, LLC | Philips, Marjorie | N | Y | 0.00 | 0.00 |
| Transmission Owners | New York State Electric & Gas (NYSEG) | Caletka, Patricia | N | Y | 0.00 | 0.00 |
| Transmission Owners | Central Hudson Gas & Electric Corp. | Borchert, John | N | Y | 1.00 | 0.00 |
| Transmission Owners | Consolidated Edison Co. of NY, Inc. | Miller, Richard | N | Y | 1.00 | 0.00 |
| Transmission Owners | National Grid | Franey, Bart | N | Y | 1.00 | 0.00 |
| Transmission Owners | Orange & Rockland Utilities, Inc. | ,, | Y | N | 0.00 | 0.00 |
| Transmission Owners | Rochester Gas and Electric Corp. | | Y | N | 0.00 | 0.00 |
| End Use - Large Consumer | Alcoa, Inc. | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Large Consumer | IBM Corporation | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Large Consumer | Occidental Chemical Corp. | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Large Consumer | Wegmans Food Markets | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Large Consumer | Nucor Steel Auburn, Inc. | | N | N | 0.00 | 0.00 |
| End Use - Large Cons. Gov. Agency | Metropolitan Transportation Authority | | N | N | 0.00 | 0.00 |
| End Use - Small Consumer | American Sugar Refining, Inc | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Small Consumer | Beth Israel Health Care System | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Small Consumer | Fordham University | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Small Consumer | Memorial Sloan Kettering Cancer Center | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Small Consumer | Mount Sinai Medical Center | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Small Consumer | New York University | Mager, Michael | N | Y | 1.00 | 0.00 |
| End Use - Small Consumer | Association for Energy Affordability | Widger, Witchder | N | N | 0.00 | 0.00 |
| End Use - Gov. State-wide Cons. Advocate | Utility Intervention Unit, Division of | Hogan, Erin | N | Y | 1.00 | 0.00 |
| | Consumer Protection, NY Dept. of State | | NT. | N7 | 1.00 | 0.00 |
| End Use - Gov. Sm. Cons. & Retail Aggr. | City of New York - Energy Conservation | Lang, Kevin | N | Y | 1.00 | 0.00 |
| End Use - Gov. Sm. Cons. & Retail Aggr. | NYS Energy Research & Dev. Authority | Hall, Christopher | N | Y | 1.00 | 0.00 |
| Public Power - State Power Authorities | Long Island Power Authority | Clarke, Dave | N | Y | 1.00 | 0.00 |
| Public Power - State Power Authorities | New York Power Authority | Antinori, Andrew | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Bath Electric, Gas & Water Systems | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Freeport Electric | Rudebusch, Tom | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Jamestown Board of Public Utilities | Rudebusch, Tom | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Lake Placid Village | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Municipal Commission of Boonville | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Plattsburgh Municipal Lighting Dept | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Village of Westfield | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Village of Solvay | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Village of Arcade | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Village of Fairport | Bolbrock, Richard | N | Y | 1.00 | 0.00 |
| Public Power - Munis & Co-ops | Village of Rockville Centre | Rudebusch, Tom | N | Y | 1.00 | 0.00 |
| Public Power - Environmental | American Lung Association | | N | N | 0.00 | 0.00 |
| Public Power - Environmental | American Wind Energy Association | | N | N | 0.00 | 0.00 |
| Public Power - Environmental | Environmental Advocates | Bambrick, Conor | N | Y | 0.00 | 0.00 |
| Public Power - Environmental | Natural Resources Defense Council | | N | N | 0.00 | 0.00 |

| Sector | Organization | Representative | Affiliate | Present | For | Against |
|------------------------------|------------------------------|----------------|-----------|---------|------|---------|
| Public Power - Environmental | PACE Energy & Climate Center | Gahl, David | N | Y | 0.00 | 0.00 |
| Public Power - Environmental | Riverkeeper | | N | N | 0.00 | 0.00 |

New York Independent System Operator - Committee Membership

Business Issues Committee - August 13, 2014 - NYISO - Parties Checked in Attendance

| Organization | Sector | Representative | Alternate1 | Alternate2 | Alternate3 | Alternate4 | Alternate5 | Alternate6 | Alternate7 | Proxy | Guest |
|---|--|--------------------|----------------------|--------------------|--------------------|------------------|-------------------|--------------------|---------------|--------------|-------|
| Astoria Energy LLC | Generation Owners | McCall, Chuck | Habib , Phillipe | Singer, Leonard | | | | | | | |
| CPV Valley LLC | Generation Owners | Remillard, Steven | DellOrto, Ken | Bruno, Michael | Felak, Rich | | | | | | Ì |
| Calpine | Generation Owners | Kruse, Brett | Berend, Seth | Flumerfelt, John | Garcia, Max | Webb, David | | | | LaRoe, Chris | Ì |
| Cricket Valley Energy Center | Generation Owners | De Meyere , Bob | Wallenstein , Arnold | Ahrens, Jeff | | | | | | • | |
| EDP Renewables North America LLC | Generation Owners | Berruecos, Pablo | Fitzgerald, Daniel | 1 1110110 , 0011 | | | | | | | |
| East Coast Power, LLC | Generation Owners | Shanker, Roy | Fogarty , Thomas | Fisher, Amy | | | | | | | |
| Entergy Nuclear Northeast | Generation Owners | Milici , Rich | Potkin, Marc | Saia, Doreen | | | | | | | |
| Howard Wind LLC | Generation Owners | Merich, Olivia | Rugh , Chris | Sala, Doreen | | | | | | | |
| Indeck Energy Services, Inc. | Generation Owners | | - | ✓ Younger, Mark | | | | | | | |
| | | Ferguson, Mike | Schrage, John | • Tounger, Mark | | | | | | | |
| Innovative Energy Systems | Generation Owners Generation Owners | Zeliff, Peter | Henningham, Scott | | | | | | | LaRoe, Chris | |
| nvenergy Energy Management LLC | | Ma, Alex | Goldstein, Michael | Orzel, Chris | | | | | | LaRoe, Chris | |
| National Grid Generation LLC | Generation Owners | Kain, Terrence | McCabe, Brian | | In the second | | | | | | |
| New Athens Generating Co. LLC | Generation Owners | Breen, Jack | 🗸 DellOrto, Ken | DeVinney, Dan | 🗸 Felak, Rich | | | | | | |
| Noble Environmental Power LLC | Generation Owners | Silton , Harry | | | | | | | | | |
| Selkirk Cogen Partners, LP | Generation Owners | Biittig, Timothy | Ryan, James | | | | | | | | |
| Somerset Operating Company, LLC | Generation Owners | Evanoski, Dave | Goodenough , Jeery | | | | | | | LaRoe, Chris | |
| Stephentown Spindle, LLC | Generation Owners | Berlinski , Mike | Yu , An | Hebert, Chris | | | | | | | |
| fC Ravenswood, Inc. | Generation Owners | Taylor, William | DAndrea, James | 🗸 Congel, Dan | Hachey, Mike | | | | | | |
| BJ Energy LLC | Other Suppliers | Ni, Bing | Lee, George | | | | | | | | |
| 3P Energy Company | Other Suppliers | Prescott, Randy | Magruder , Kathy | Bassett, Jeffrey | | | | | | | |
| BlueRock Energy, Inc. | Other Suppliers | Nichols , Jim | Eno, Jason | VanHorne, Phil | Gipson , Jon | | | | | | |
| Boston Energy Marketing & Trading | Other Suppliers | Kramek , Mike | | | | | | | | | |
| Brookfield Energy Marketing | Other Suppliers | 🗸 Francis, Frank | Ricketts, Robert | Whyte, Daniel | | | | | | | |
| Castleton Commodities Merchant Trading L.P. | Other Suppliers | Sun, Xijian | Cheong, Mei | | | | | | | | |
| Citigroup Energy Inc. | Other Suppliers | Trayers, Barry | | | | | | | | | |
| Comverge/Enerwise Global Technologies | Other Suppliers | Geoghan, Stephen | Lacey, Frank | 🗸 Ackerman, Alan | | | | | | | |
| Con Edison Solutions Inc. | Other Suppliers | 🗸 Mah, Norman | Wemple, Steve | | | | | | | | |
| Constellation New Energy | Other Suppliers | McCartney, Glen | Wentlent, Chris | | | | | | | | ĺ |
| Cross Sound Cable Company, LLC | Other Suppliers | Reinhart, Brian | Rotger, Jose | | | | | | | | |
| DC Energy | Other Suppliers | Bleiweis, Bruce | Stevens, Andrew | Tate, Matthew | Milberg, Sadao | Kuo, David | | | | | |
| DTE Energy | Other Suppliers | Pakela, Gregory | Wieszczyk, Raymond | Norris, Paul | Milotig, Suddo | Ruo, Duviu | | | | | |
| Direct Energy Business Marketing, LLC | Other Suppliers | Philips , Marjorie | Comstock, Read | i torris, i uur | | | | | | | |
| Dynegy Power Marketing, Inc. | Other Suppliers | Roby, Rick | Ellis, Dean | Dolory Montry | | | | | | | |
| | | | | Daley, Marty | | | | | | | |
| EDF Trading North America, LLC EnerNoc | Other Suppliers | Erbrick, Michael | LeForce , Randall | C 11 C | | | | | | | |
| | 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 | Pasch, Carrie | | |
| EnergyConnect | Other Suppliers | Campbell , Bruce | Warta , Jim | Lawrence , David | | | | | | | |
| Exelon Generating Co. LLC | Other Suppliers | 🗸 McCartney, Glen | Crowley, Jack | Berg , William | | | | | | | |
| GDF Suez Energy NA, Inc. | Other Suppliers | Levine , Jeffrey | Hawkins , Darin | Campbell, Chad | | | | | | | |
| Galt Power | Other Suppliers | Fernands, Rochelle | 🗸 Ackerman, Alan | | | | | | | | |
| Great Bay Energy IV, LLC | Other Suppliers | Franco, Eugene | Colon, Antonio | | | | | | | | |
| HQ Energy Services US | Other Suppliers | Bernier , Luc | Plante, Matthieu | Leuthauser, Scott | Vennes, Yannick | | | | | | |
| Hess Corporpration | Other Suppliers | Sobieski, Dennis | | | | | | | | | |
| berdrola Renewables Inc | Other Suppliers | Allen, Thresa | | | | | | | | | |
| nnoventive Power | Other Suppliers | Gruber , Craig | Halford, Steve | | | | | | | | |
| ntegrys Energy Services of New York, Inc | Other Suppliers | Haugh, Michael | | | | | | | | | |
| J.P. Morgan Ventures Energy Corporatio | Other Suppliers | O'Connell, Robert | Greenleaf, Steven | | | | | | | | |
| Lyonsdale Biomass, LLC | Other Suppliers | Ralston, William | Hebel, Nathan | Carrigan, Kathleen | | | | | | | |
| Iorgan Stanley Capital Group, Inc. | Other Suppliers | Murray, Patrick | Kochonies, Karen | Ezickson, Doron | | | | | | | |
| IRG Power Marketing Inc. | Other Suppliers | 🖌 Johnson , Shaun | 🗸 Kranz, Brad | Lagano, Judith | | | | | | | |
| JextEra Energy | Other Suppliers | Applebaum, David | Gardner , Michelle | Gil , David | | | | | | | |
| Noble Americas Gas & Power Corp. | Other Suppliers | Merola , Becky | Kyle , Chris | | | | | | | | |
| Ontario Power Generation, Inc. | Other Suppliers | Lacivita, Ken | Gell, Richard | Barr, David | Sheinfield, Joel | | | | | | |
| PPL EnergyPlus, LLC | Other Suppliers | Weghorst, Brad | Hyzinski, Tom | Weber, Sharon | Greening, Michele | Yannarell, David | Francello, Mark | | | | |
| PSEG Energy Resource & Trade, LLC | Other Suppliers | Fromer, Howard | Carretta, Kenneth | Messmer, Robert | Murawski, James | | | | | | |
| Riverbay Corporation | Other Suppliers | Merola , Peter | Freedman, Herbert | Ahrens, David | Villegas, Cristina | | | | | | |
| SESCO Enterprises, LLC | Other Suppliers | Schubiger, Michael | Thoresen, James | | - | | | | 1 | | |

| Organization | Sector | Representative | Alternate1 | Alternate2 | Alternate3 | Alternate4 | Alternate5 | Alternate6 | Alte |
|--|---|---------------------|-------------------|-----------------------|------------------|------------------|------------------|------------|------|
| Shell Energy North America, LLC | Other Suppliers | Picardi, Matt | French, Dave | | | | | | |
| TransCanada Power Marketing, Ltd. | Other Suppliers | Taylor, William | D'Andrea, James | 🗸 Congel, Dan | Hachey, Mike | | | | |
| Twin Cities Power LLC | Other Suppliers | Staska , Stephanie | Dube, Alex | | | | | | |
| U.S. Power Generating Co. | Other Suppliers | 🗸 Baker, Liam | Reese, John | | | | | | |
| Viridity Energy, Inc. | Other Suppliers | Freifeld, Allen | | | | | | | |
| Vitol Inc. | Other Suppliers | Wadsworth , Joe | Viola , Bob | Kam, Kenney | | | | | |
| Central Hudson Gas & Electric Corp. | Transmission Owners | Borchert , John | Chan, Ting | Seitz, Diane | | | | | |
| Consolidated Edison Co. of NY, Inc. | Transmission Owners | Miller, Richard | Nachmias, Stuart | Altobell, Deidre | Butler, Scott | Butterklee, Neil | | | |
| National Grid | Transmission Owners | 🗸 Franey, 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 | Loughney, Robert | Mager, Michael | Bissell, Garrett | 🗸 Lang, Kevin | | | | |
| IBM Corporation | Large Consumer | Loughney, Robert | Mager, Michael | Bissell, Garrett | Lang, Kevin | | | | |
| Nucor Steel Auburn, Inc. | Large Consumer | Brew , James | Radigan, Frank | Dissen, Garrett | V Lang, Kevin | | | | |
| Occidental Chemical Corp. | Large Consumer | | Mager, Michael | Bissell, Garrett | 🗸 Lang, Kevin | | | | |
| Wegmans Food Markets | - C | Loughney, Robert | - | , | | | | | |
| 5 | Large Consumer | Loughney, Robert | Mager, Michael | Bissell, Garrett | 🗸 Lang, Kevin | | | | |
| Metropolitan Transportation Authority | Large Consumer Government Agency | Keller, David | Chou, Frances | Der l' I I | T 1 D-1 | | D: 11 C | | |
| American Sugar Refining, Inc | Small Consumer | George, Quintin | Luthin, Catherine | Dowling, John | Loughney, Robert | Mager, Michael | Bissell, Garrett | | |
| Association for Energy Affordability | Small Consumer | Morris, Jackson | Hepinstall, David | Douglas, Megan | A | | | | |
| Beth Israel Health Care System | Small Consumer | Luthin, Catherine | Dowling, John | Loughney, Robert | Mager, Michael | Bissell, Garrett | | | |
| Fordham University | Small Consumer | Dowling, John | Luthin, Catherine | Loughney, Robert | Mager, Michael | Bissell, Garrett | | | |
| Memorial Sloan Kettering Cancer Center | Small Consumer | Dowling, John | Luthin, Catherine | Loughney, Robert | 🗸 Mager, Michael | Bissell, Garrett | | | |
| Mount Sinai Medical Center | Small Consumer | Luthin, Catherine | Dowling, John | Loughney, Robert | Mager, Michael | Bissell, Garrett | | | |
| New York University | Small Consumer | Luthin, Catherine | Dowling, John | Loughney, Robert | 🗸 Mager, Michael | Bissell, Garrett | | | |
| Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State | Government Statewide Consumer Advocate | ✔Hogan , Erin | Rigberg, Saul | Collar , Gregg | Panko, Danielle | Battle , Aiesha | | | |
| City of New York - Energy Conservation | Government Small Consumer and Retail Aggregate | Delaney, Michael | 🗸 Lang, Kevin | Bissell, Garrett | | | | | |
| NYS Energy Research & Dev. Authority | Government Small Consumer and Retail Aggregate | Williams, John | Hall, Christopher | 🗸 d'Aversa , Jon-Paul | | | | | |
| Long Island Power Authority | State Power Authorities | Clarke, Dave | McNally, Stephen | | | | | | |
| New York Power Authority | State Power Authorities | Antinori, Andrew | Boyle, Bob | Fossa, Andrea | Mahoney , Daniel | Wilkie, Brian | | | |
| Bath Electric, Gas & Water Systems | Municipalities and Coops | Moore, Ken | Bolbrock, Richard | Cordeiro, Mark | | | | | |
| Freeport Electric | Municipalities and Coops | Fiore, Anthony | 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 | Moore, Ken | Bolbrock, Richard | Cordeiro, Mark | | | | | |
| Village of Rockville Centre | Municipalities and Coops | | | Rudebusch, Tom | | | | | |
| 5 | | Pallas, Paul | Cardile, Thomas | | | | | | |
| Village of Solvay | Municipalities and Coops | Mondre, Judith | Bolbrock, Richard | Cordeiro, Mark | | | | | |
| Village of Westfield | Municipalities and Coops | Hamilton, James | Bolbrock, Richard | Cordeiro, Mark | | | | | |
| American Lung Association | Environmental | Morris, Jackson | Seilback, Michaek | O'Neill, Kathleen | | | | | |
| American Wind Energy Association | Environmental | Strauss, Valerie | Gramlich, Robert | | | | | | |
| Environmental Advocates | Environmental | Bambrick , Conor | Morris, Jackson | Nadeau, Katherine | | | | | |
| Natural Resources Defense Council | Environmental | Morris, Jackson | Clements, Allison | Kennedy, Kit | | | | | |
| PACE Energy & Climate Center | Environmental | 🗸 Gahl , David | Morris, Jackson | Bourgeois, Tom | Lawrence , David | | | | |
| Riverkeeper | Environmental | Morris, Jackson | Musegaas, Phillip | Gallay, Paul | | | | | |
| Ace Energy Company, Inc. | Non Voting | Lynch, Stephen | | | | | | | |
| Air Energy TCI, Inc. | Non Voting | O'Connor, Brett | | | | | | | |
| Alliance for Clean Energy New York | Non Voting | Strauss, Valerie | | | | | | | |
| Anbaric Northeast Transmission Development Co. | Non Voting | Sanderson, Barry | | | | | | | |
| Beacon Power LLC | Non Voting | Berlinski , Mike | Yu , An | Hebert, Chris | | | | | |
| Boundless Energy, LLC | Non Voting | Tompkins John, E. | Pratt, Charles | | | | | | |
| Bruce Power | Non Voting | Viswanathan, Samira | Meyer, Sandra | | | | | | |
| CP Energy Marketing (US) Inc. | Non Voting | Bursaw, Christopher | Renouf, James | Kirby , Amber | | | | | |
| Caithness Energy LLC | Non Voting | Keevill, Gary | Delgado, Jeffrey | Garber, Mitchell | | | | | |
| Customized Energy Solutions | Non Voting | Mancini, Rick | Fernands, Stephen | Rexrode, Caryn | 🗸 Ackerman, Alan | 🗸 Lundin , Tim | | | |
| Demand Response Partners | Non Voting | Dorn, Andrew | Almeter , Carl | Hourihan, Michael | | | | | |
| Ecogen | Non Voting | Hagner, Thomas | | | | | | | |
| Energetix, Inc. | Non Voting | Comstock , Read | 1 | | 1 | 1 | 1 | 1 | 1 |

| e6 | Alternate7 | Proxy | Guest |
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| | | | 🗸 Sasson, Mayer |
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| Organization | Sector | Representative | Alternate1 | Alternate2 | Alternate3 | Alternate4 | Alternate5 | Alternate6 | Alternate7 | Proxy | Guest |
|---|------------|--------------------|---------------------|-------------------|-------------------|------------|------------|------------|------------|-------|-------|
| Energy Curtailment Specialists | Non Voting | Pieniazek, Marie | Scheiderich, Jim | Lynch, Stephen | Korczykowski, Jim | | | | | | |
| First Wind Holdings, LLC | Non Voting | Keene , John | Salehian, Afshin | | | | | | | | |
| Fluent Energy | Non Voting | Acampora, Peter | Begley, Jeff | Doll, Ed | | | | | | | |
| Hudson River Energy Group | Non Voting | Radigan, Frank | Canfield, Richard | | | | | | | | |
| Hydro-Quebec TransEnergie | Non Voting | Prevost, Michel | | | | | | | | | |
| MAG Energy Solutions, Inc. | Non Voting | Roberge, Martin | Vezina, Alexandre | | | | | | | | |
| NYS Department of Public Service | Non Voting | Paynter, Thomas | 🖌 Evans , Adam | | | | | | | | |
| Noble Americas Energy Solutions | Non Voting | Sun , Jungsuk | Nakhonthap, Jade | 🗸 Sunga , Leonard | | | | | | | |
| Northeast Clean Heat & Power Initiative | Non Voting | De Veer, Henrietta | Banach, Timothy | | | | | | | | |
| RBC Energy Services, LP | Non Voting | Burnham, Steve | Fraiture, Christian | Doolittle, Robin | | | | | | | |
| Red Wolf Energy Trading, LLC | Non Voting | Sharma , Rishi | | | | | | | | | |
| Saracen Energy East LP | Non Voting | Peebles , Andy | | | | | | | | | |
| Saranac Power Partners | Non Voting | Wible , Steven | | | | | | | | | |
| Siemens Energy, Inc. | Non Voting | Feltes, James | | | | | | | | | |
| Taylor Biomass Energy, LLC | Non Voting | Taylor , Jim | Page, Allan | | | | | | | | |
| FransAlta | Non Voting | Nivolianitis, Ted | | | | | | | | | |
| Transmission Developers Inc. | Non Voting | Jessome, Donald | Helmer, William | | | | | | | | |
| William P. Short | Non Voting | Short, William | Schaefer, Marc | | Savage, Paul | Verna, Jim | | | | | |

NYISO Employees

Chao, Henry Dixon, Kirk Duffy, Timothy Eckels, Debbie Garrison, Brad Mukerji, Rana Schnell, Alex Sharp, Chris Yeomans, Wes