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**NYISO Business Issues Committee Meeting Minutes**  
**June 20, 2018**  
**10:00 a.m. – 2:00 p.m.**

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

Mr. Andrew Antinori (NYPA) called the meeting to order at 10:00 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. Approval of BIC Minutes**

There were no comments or questions regarding the draft meeting minutes for the May 16, 2018 BIC meeting that were included with the meeting material.

Motion #1:

Motion to approve the meeting minutes for the May 16, 2018 BIC meeting.

***Motion passed unanimously.***

**3. Market Operations Report and Broader Regional Markets Report**

Dr. Nicole Bouchez (NYISO) reviewed the Market Operations report posted with the meeting material. There were no questions or comments.

Dr. Bouchez reviewed the Broader Regional Markets report included with the meeting material. There were no questions or comments.

**4. Historic Fixed Price TCC Extensions**

Mr. Greg Williams (NYISO) reviewed the presentation posted with the meeting material.

Mr. Bruce Bleiweis (DC Energy) asked whether eligibility for Historic Fixed Price TCCs requires that the LSE have a contract with a generator for power supply. Mr. Williams explained that eligibility is based on the transmission service agreement the LSE entered into prior to the commencement of operations by the NYISO.

Mr. Bleiweis asked for clarification regarding the term of the proposed Historic Fixed Price TCC Extensions. Mr. Williams clarified that the Historic Proposed Fixed Price TCC extension product provides a right to extend Historic Fixed Price TCCs for one-year at a time with pricing updated each year.

Mr. Bleiweis raised concerns about the optionality provided to LSEs to elect not to purchase extensions in a given year. Mr. Bleiweis stated that if an LSE elects to not purchase an extension in any given year, such a decision should terminate the LSE's right to purchase any future extensions.

Motion #2:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve revisions to the Open Access Transmission Tariff and the Market Administration and Control Area Services Tariff, as more fully described in the presentation entitled "Historic Fixed Price TCC Extensions" made to the BIC on June 20, 2018.

***Motion passed by majority show of hands.***

**5. AC Transmission Public Policy Transmission Planning Process Report**

Mr. Dawei Fan (NYISO) reviewed the presentation posted with the meeting material. Mr. Kevin Lang (Couch White) asked for clarification on the process for finalizing the AC Transmission Public Policy Planning Process (PPTPP) Report. Mrs. Yachi Lin (NYISO) explained the final report is not published until after review and approval by the NYISO Board of

Directors. Mr. Zach G. Smith (NYISO) added the NYISO does not intend to provide any further edits to the report that has been posted with the meeting material for the June 26, 2018 Management Committee meeting.

Mr. Matt Picardi (Shell Energy) asked for clarification regarding the determination of savings related to certain avoided transmission facility upgrades identified by the New York State Public Service Commission (NYPSC) that would otherwise be needed in the absence of the transmission upgrades contemplated by the AC Transmission Public Policy Transmission Need (PPTN). Mr. Fan stated the savings identified are related to the avoided capital cost of the upgrades the NYPSC found would be required in the absence of the transmission additions associated with the AC Transmission PPTN. Mr. Zach G. Smith added that the \$839 million cost figure was developed by The Brattle Group in its role as a consultant to the NYPSC in its proceeding related to the identification of the AC Transmission PPTN and is provided for informational purposes only. Mr. Zach G. Smith clarified that the NYISO did not independently review the cost estimate.

Mr. David Clarke (LIPA) asked whether the NYISO's evaluation calculated the reliability benefits and associated beneficiaries of the proposed projects. Mr. Tim Duffy (NYISO) replied the capacity cost savings were determined through a comparison of capacity costs between a case without the transmission upgrades proposed in response to the AC Transmission PPTN and a modified case including the proposed upgrades. Mr. Clarke raised concerns about the cost allocation for the AC Transmission PPTN upgrades does not appear to align with the allocation of costs based on the beneficiaries of the reliability benefits of the upgrades.

Mr. John Borchert (Central Hudson) read the following statement:

Central Hudson will abstain for this vote. While Central Hudson fully approves advancing this public policy transmission process and the AC Transmission Projects and we are looking forward to the benefits this added transmission will have for the customers in Central Hudson's service territory and in the state, we are dissatisfied with the NYISO's work in the project evaluation. The lack of transparency, the way that aspects of the project were treated during the evaluation - effectively disqualifying projects, and the way that local TO upgrades were handled during the process have led to frustration and confusion for both those developing projects and for the interconnecting transmission owners. If today's vote results in a failed stakeholder vote, this should not be seen as a call to delay the project selection but rather should be seen as a strong call for the NYISO to address these process flaws going forward.

Ms. Jane Quin (Con Ed) read the following statement:

Con Edison is supportive of new transmission buildout in New York. We support the policies behind Order 1000 and the NYISO public policy transmission planning process. We think the AC Transmission Public Policy Transmission Need is an important transmission project for New York State. However, we do not feel confident that the recommended selection for Segment B is in the customers' best interests, due to a lack of transparency in the selection and deficiencies in the evaluation process.

We are concerned that, as part of its evaluation for Segment B of the AC Transmission project, NYISO has not considered the full costs associated with the proposed Middletown upgrades, which are local upgrades on Orange and Rockland's system and are unique to the selected NAT/NYPA Segment B proposal. As noted in its presentations to the Electric System Planning Working Group and Transmission Planning Advisory Subcommittee, NYISO considers these upgrades to be a distinguishing factor in the selected proposal; however, neither NYISO, nor its consultant SECo, has fully vetted the feasibility and costs for this part of the Segment B Project. Orange and Rockland has provided a document detailing its concerns. The Middletown upgrades could cost as much as 20% of the Segment B project cost. Without adequate review, it cannot be

determined whether or not the selected Segment B project is the more efficient or cost effective for the AC Transmission project.

In addition to the project evaluation deficiencies identified herein, Con Edison and O&R are also concerned about the lack of transparency in the selection process. For example, NYISO failed to make clear the technologies or project attributes it would or would not consider and the reasons for such decision, and it did not consider stakeholder input in that decision. As a result, it is not clear if the more efficient, cost-effective solution has emerged.

Due to these concerns, Con Edison and Orange and Rockland are voting to oppose the motion to recommend approval of the report by the NYISO Board of Directors.

Mr. Fan noted that an analysis regarding the proposed Middletown transformer related to the proposed T029 and T030 projects was conducted and noted that the NYISO's independent consultant incorporated a \$16 million cost estimate for the proposed transformer plus a 30% contingency. Mr. Joe Allen (SECo) added that SECo considered concerns raised by Orange & Rockland and did not identify any fatal flaws related to the proposed Middletown transformer for the proposed T029 and T030 projects and the cost estimate developed was conservative and appropriate for this stage of project development.

Mr. Borchert raised concerns about the need to coordinate with interconnecting transmission owners as part of the evaluation of projects in response to a PPTN.

Mr. Carl Patka (NYISO) stated the project evaluation and selection phase does not require proposed projects to have completed the interconnection process at this stage of the PPTPP. Mr. Zach G. Smith added that the interconnection studies related to the proposed T029 project are ongoing and discussions related to the proposed Middletown transformer have been continuing as part of the interconnection study process.

Mr. Lang noted concerns about the potential for issues to arise from allowing transmission owners that are competing with other project developers having too much input into cost estimates of their competitors as part of the project evaluation and selection process.

Mr. Glenn Haake (NYPA) stated the PPTPP has improved materially since the Western New York PPTN. Mr. Haake further noted the ongoing need for the AC Transmission PPTN upgrades, especially in light of public policies that will drive the need for even greater transfer capability to the downstate load centers of New York. Mr. Haake stated that it is important to account for the stage of project development considered in the project evaluation and selection phase of the PPTPP and the fact that facility studies for proposed projects will be undertaken as part of the interconnection process to provide a more detailed review of all proposed projects.

Mr. Lawrence Willick (North America Transmission) disputed contentions that the project evaluation and selection process has not been sufficiently transparent or that comments raised by parties were not considered. Mr. Willick noted that after certain parties raised concerns about the initial cost of the Middletown transformer, adjustments were made by SECo despite the fact that North America Transmission contended that the initial cost estimate was overly conservative.

Mr. Stuart Caplan (Troutman Sanders) raised concerns about the need to ensure that the project evaluation and selection process carefully considers non-bulk transmission impacts related to bulk transmission upgrades proposed in response to identified public policy transmission needs.

Ms. Margaret Janzen (National Grid) noted that while National Grid was supportive of the transmission planning process changes, it has concerns regarding the execution of the project evaluation and selection phase of the PPTPP in this case and recommended that the NYISO work with stakeholders to further improve the process going forward.

Mr. Brian Duncan (NextEra) reviewed a presentation posted with the meeting material noting concerns related to the project evaluation selection process undertaken for the AC Transmission PPTN including the need to account for cost

containment proposals submitted with projects and certain components of the cost estimates developed by the NYISO's independent consultant. Mr. Younger (Hudson Energy Economics) noted that the NYISO's tariff does not include provisions to enforce cost containment proposals submitted by developers, which raises concerns regarding whether any such proposals should be considered. Mr. Duncan replied that NextEra has agreed to a cost containment mechanism as part of settlement proceedings before FERC that would include any projects that it may be selected to develop as part of the AC Transmission PPTPP.

Mr. Clarke noted LIPA's support for consideration of enforceable cost containment mechanisms as part of project evaluation and selection phase of the PPTPP.

Ms. Erin Hogan (UIU) suggested the NYISO provide information regarding cost containment proposals submitted by projects as part of the material for the June 26, 2018 Management Committee meeting. Mr. Zach G. Smith replied that the cost containment proposals submitted vary significantly and the NYISO has not undertaken any detailed analysis of the cost containment proposals. Mr. Zach G. Smith further noted that such a requirement is not provided for in the NYISO's tariff. Mr. Zach G. Smith also stated that the NYISO does not agree with NextEra's position that there are multiple projects that are essentially indistinguishable, noting that there are several factors that distinguish the selected projects from other proposals.

Mr. Patka added that as part of the upcoming comprehensive planning process review, the NYISO has committed to consider tariff enhancements to expressly address consideration of cost containment proposals. Mr. Lang stated that it is critically important to consumers that consideration of cost containment is part of the project selection and evaluation phase.

Ms. Kathleen Carrigan (NY Transco) read the following statement:

National Grid and Transco appreciate the NYISO's ongoing efforts as it reviews the proposals submitted to satisfy the AC Transmission Public Policy Transmission Needs. In particular, National Grid and Transco appreciate the recent changes the NYISO has made to its process and its efforts to continue to improve the process as a result of the lessons learned from the Western New York process.

National Grid and Transco have submitted detailed written comments to the NYISO during the PPTPP, but will focus on two points today: First, the NYISO should fully and clearly state in its solicitation key elements it will rely on in its decision-making, including any features that would immediately eliminate a project from consideration, and, two, if the NYISO continues to consider project T027 as the more cost-effective or efficient proposal to satisfy Segment A, project T019 should be selected to satisfy Segment B because that combination of projects clearly produces better results than the combined T027 and T029 projects.

Given the significant time, effort, and money that must be devoted by electric transmission developers to design solutions that will satisfy declared PPTNs, it would be beneficial for the NYISO to articulate in future solicitations whether there are any specific technologies or project attributes that the NYISO is unwilling to consider when selecting the more efficient or cost-effective project to satisfy a declared PPTN

In particular, National Grid and Transco believe that if the NYISO had disclosed at the outset of its solicitation process that it would not consider a project with a series compensation element, National Grid and Transco would have tailored project T019 accordingly. Instead, National Grid and Transco, without knowledge of the NYISO's unwillingness to consider series compensation, submitted a unique, environmentally-compliant, and cost-effective solution to satisfy Segment B of the AC Transmission PPTN, with the inclusion of a basic controllable series compensation element.

Notwithstanding the undeniable features and performance of this proposal, which I will discuss, the NYISO simply determined that this feature was a "fatal flaw" in the project design. Unlike T027 and T029 where the NYISO conducted several analysis and further reviews regarding the Rotterdam substation, the Princetown substation and the Middletown tap-the NYISO rejected the series compensation because of

“possible” concerns with downstream generators. This inconsistent treatment could have been avoided by announcing in its solicitation that it will not consider a series compensation in any proposal. Alternatively, similar to its Independent Consultant’s review of other solutions, and in accordance with their responsibilities under the tariff, we believe the NYISO should have provided an analysis to justify the “possible” risks identified in its report.

Instead, the NYISO effectively ignored all of its established selection metrics and ranked proposal T019 in its overall ranking as number 4 on the sole basis that series compensation is “risky.” This ranking is unsupported in light of the fact that, as discussed below, T019 consistently outperforms the remaining Segment B proposals using the NYISO’s own selection metrics.

National Grid and Transco believe that once the NYISO had determined that T027 was the more cost-effective or efficient project to satisfy Segment A of the AC Transmission PPTN, the NYISO should have selected project T019 to satisfy Segment B not T029.

The selection metrics clearly support the combination of T027 and T019 as opposed to T027 and T029. For example:

- i. When combined, projects T027 and T019 increase voltage transfer across Central East by 875 and UPNY/SENY by 2,100. This is a far *greater* increase than the combination of T027 and T029, which only increases transfer capability along Central East by 825 and UPNY/SENY by 1,325 (*see* Tables 3-8 and 3-9).
- ii. The cost/mw ratio across UPNY/SENY for projects T027 + T019 is \$0.07 \$M/MW *less* than projects T027 + T029 (*see* Table 3-10).
- iii. Projects T027 + T019 have the *highest* Central East N-1-1 voltage transfer capability of any studied project combination and far surpass combination T027 + T029 with respect to the incremental UPNY/SENY N-1-1 thermal transfer capability (*see* Tables 3-17 and 3-18),
- iv. The baseline 20-year incremental energy produced by projects T027 + T019 nearly *doubles* that of projects T027 + T029 (40,089 GWh v. 27,524 GWh) (*see* Table 3-20); and
- v. T027 and T019 produce the highest production cost savings than any other project. (Table 3-22);
- vi. These are only a few of the metrics where the combination of T027 and T019 outperforms T027 and T029. There are more examples.

If the NYISO had not eliminated project T019 from consideration due to the series compensation, application of the NYISO’s selection metrics clearly identifies project T019 to be selected and paired with project T027 as the more efficient or cost-effective transmission solutions to address the AC Transmission Need.

For the reasons discussed, National Grid and Transco believe the NYISO needs to continue to focus on improvements in its Public Policy Transmission Planning Process as stated herein.

Mr. Zach G. Smith noted that the draft report and frequently asked questions document relating thereto address the NYISO’s consideration of the series compensation technology included as part of the T019 project proposal. Mr. Zach G. Smith also noted that after full consideration of the series compensation element included as part of the T019 project proposal, the NYISO ultimately concluded that this particular aspect of the project presented the potential for adverse impacts to system reliability.

Mr. Nabil Hitti (NY Transco) stated the feasibility and facility study stages of the interconnection process should have been the appropriate forum for addressing any reliability concerns noted by the NYISO regarding the series compensation technology included as part of the T019 project proposal. Mr. Younger noted that sub-synchronous resonance has the potential for adverse impacts to generation facility equipment. Mr. Hitti replied that if sub-synchronous resonance concerns are in fact identified in more detailed design phases of the interconnection process, mitigation measures, to the extent required, would be considered and developed at these later stages of the interconnection process.

Mr. Zach G. Smith stated the NYISO appreciates the feedback provided by all developers and other parties as part of the process and the suggestions that been provided for further improvements going forward.

Ms. Amanda Trinsey (Couch White) read the following statement:

The City fully supports the AC transmission project and moving forward with developing both this and additional transmission projects without delay. The motion seeks confirmation that the NYISO complied with the tariff requirements; based on the information presented by the NYISO and the discussions that have occurred today and at the ESPWG meetings, the City submits that it appears that while some developers have specific concerns, the NYISO has adhered to the tariff requirements; we note, though, that we have not performed any independent assessment of the NYISO's actions. The City does not have any reason to believe that the NYISO's process was unfair and defers to the NYISO and the Board in selecting the appropriate developer.

Motion #3:

WHEREAS, the Electric System Planning Working Group ("ESPWG") and Transmission Planning Advisory Subcommittee ("TPAS") have held a series of meetings with NYISO Staff to discuss and review the studies and analyses underlying the NYISO's findings regarding the AC Transmission Public Policy Transmission Needs; and WHEREAS, NYISO Staff has posted a draft AC Transmission Public Policy Transmission Planning Report dated June 13, 2018, including Appendices ("Draft Report"), for the June 20, 2018 Business Issues Committee ("BIC") meeting; and

WHEREAS, NYISO Staff has incorporated modifications to the Draft Report based on comments received at six joint ESPWG-TPAS meetings from April 5, 2018 through June 14, 2018 and based on written comments received from stakeholders during that time period;

Whereas, NYISO staff has presented the Draft Report to the BIC at its June 20, 2018 meeting for an advisory vote;

NOW, THEREFORE, based on the posted Draft Report and the presentation made by the NYISO and discussion at the June 20, 2018 BIC meeting, the BIC hereby recommends that the Management Committee recommend approval of the Draft Report by the NYISO Board of Directors.

***Motion passed with 76.33% affirmative votes.***

### **Working Group Updates**

- **Billing and Accounting and Credit Working Group:** The group met on May 18, 2018 and reviewed the standard accounting/settlement reports.
- **Electric System Planning Working Group:** The group has met three times since the last BIC meeting. The group met on May 22, 2018 and reviewed preliminary results for the evaluation of viable and sufficient transmission solutions submitted in response to the AC Transmission Public Policy Transmission Need, and the proposed schedule for reviewing proposed enhancements to the Comprehensive System Planning Process. On June 1, 2018, the group met and reviewed proposed revisions to the Reliability Planning Process Manual, an update regarding modeling assumptions for the 2018 Reliability Needs Assessment, and the draft AC Transmission Public Policy Transmission Planning Process (PPTPP) report. The group also met on June 14, 2018 and reviewed proposed revisions to the reporting of historic congestion data, an overview of the NYISO's preliminary proposal for complying with FERC Order No. 845, and the draft AC Transmission PPTPP report.

- Installed Capacity Working Group: The group has met four times since the last BIC meeting. On May 23, 2018, the group met jointly with MIWG and reviewed an overview of considerations related to developing rules for capacity market participation by energy storage resources (ESRs), and the capacity market outcomes and recommendations included in the 2017 State of the Market report. The group met jointly with MIWG on May 31, 2018 and reviewed proposed enhancements related to the Supplemental Resource Evaluation process for external capacity resources. The group met jointly with MIWG and PRLWG on June 1, 2018 and reviewed the proposed market design for wholesale market participation by Distributed Energy Resources (DER). On June 13, 2018, the group also met jointly with MIWG and PRLWG and reviewed a revised draft Master Plan related to the ongoing Integrating Public Policy Initiative.
- Electric Gas Coordination Working Group: The group has not met since the last BIC meeting.
- Load Forecasting Task Force: The group met on June 7, 2018 for its annual Spring Economic Conference, and also reviewed proposed revisions to the Load Forecasting Manual.
- Market Issues Working Group: The group has met five times since the last BIC meeting. The group met jointly with ICAPWG on May 23, 2018 and reviewed a proposal related to additional reserve procurements for resilience, and proposed settlement rules related to participation of ESRs in the wholesale market. On May 31, 2018, the group met jointly with ICAPWG and reviewed a proposal for re-evaluating ancillary services shortage pricing, a proposal to integrate solar generation that participates directly in the wholesale market within the NYISO's economic commitment and dispatch, a proposal to implement a new Historic Fixed Price TCC extension product, and the energy and ancillary services market outcomes and recommendations included in the 2017 State of the Market report. The group met jointly with ICAPWG and PRLWG on June 1, 2018 and reviewed the proposed market design for wholesale market participation by DER. The group also met jointly with ICAPWG and PRLWG on June 13, 2018 and reviewed the results of a market power assessment conducted with respect to 115 kV facilities currently being considered for addition to the market models, a proposal to allow use of non-zero constraint reliability margin values of less than 20 MW, a proposal to implement a new Historic Fixed Price TCC extension product, a revised draft Master Plan related to the ongoing Integrating Public Policy Initiative, a proposal related to additional reserve procurements for resilience, and a proposal related to the implementation of a separate 10-minute reserve requirement for NYC. On June 19, 2018, the group met jointly with ICAPWG and reviewed proposed metering requirements ESRs participating in the wholesale market, and the proposed market design for wholesale market participation by DER.
- Price Responsive Load Working Group: The group has met three times since the last BIC meeting. On June 1, 2018, the group met jointly with MIWG and ICAPWG and reviewed the updates to the proposed DER participation model. The group also met jointly with MIWG and ICAPWG on June 13, 2018 and reviewed a revised draft Master Plan related to the ongoing Integrating Public Policy Initiative. The group met jointly with MIWG on June 19, 2018 and reviewed the DER-related agenda topics.

## **6. New Business**

There was no new business.

The meeting adjourned at 2:00 p.m.

# ***Business Issues Committee Meeting***

June 20, 2018  
Final Motions

Motion #1:

Motion to approve the May 16, 2018 meeting Minutes.

*Motion passed unanimously.*

Motion #2:

The Business Issues Committee (“BIC”) hereby recommends that the Management Committee approve revisions to the Open Access Transmission Tariff and the Market Administration and Control Area Services Tariff, as more fully described in the presentation entitled “Historic Fixed Price TCC Extensions” made to the BIC on June 20, 2018.

*Motion passed by majority show of hands.*

Motion #3:

**WHEREAS**, the Electric System Planning Working Group (“ESPWG”) and Transmission Planning Advisory Subcommittee (“TPAS”) have held a series of meetings with NYISO Staff to discuss and review the studies and analyses underlying the NYISO’s findings regarding the AC Transmission Public Policy Transmission Needs; and

**WHEREAS**, NYISO Staff has posted a draft AC Transmission Public Policy Transmission Planning Report dated June 13, 2018, including Appendices (“Draft Report”), for the June 20, 2018 Business Issues Committee (“BIC”) meeting; and

**WHEREAS**, NYISO Staff has incorporated modifications to the Draft Report based on comments received at six joint ESPWG-TPAS meetings from April 5, 2018 through June 14, 2018 and based on written comments received from stakeholders during that time period;

**Whereas**, NYISO staff has presented the Draft Report to the BIC at its June 20, 2018 meeting for an advisory vote;

**NOW, THEREFORE**, based on the posted Draft Report and the presentation made by the NYISO and discussion at the June 20, 2018 BIC meeting, the BIC hereby recommends that the Management Committee recommend approval of the Draft Report by the NYISO Board of Directors.



Motion passed with 76.33% affirmative votes.

**New York Independent System Operator**  
**Business Issues Committee - June 20, 2018**

**Motion: Motion #AC**

**Result: Motion Passed**

Sector with base percent	%	Active	Quorum	Adj. Percent	For	Against	Abstain	% For	% Against	
Generation Owners	21.50	✓	✓	21.50	5.00	0.00	2.00	21.50	0.00	
Other Suppliers	21.50	✓	✓	21.50	7.00	0.00	7.00	21.50	0.00	
Transmission Owners	20.00	✓	✓	20.00	0.00	3.00	1.00	0.00	20.00	
End Use Consumer			✓							
Large Consumer	9.00	✓		9.00	0.00	0.00	5.00	0.00	0.00	
Large Cons. Gov. Agency	2.00	✓		2.00	0.00	0.00	0.00	0.00	0.00	
Small Consumer	4.50	✓	✓	4.50	0.00	0.00	7.00	0.00	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			✓							
State Power Authorities	8.00	✓		8.00	2.00	0.00	0.00	8.00	0.00	
Munis & Co-ops	7.00	✓		7.00	11.00	0.00	0.00	7.00	0.00	
Environmental	2.00	✓		2.00	2.00	0.00	0.00	2.00	0.00	
				5	100.00	30.00	3.00	22.00	64.50	20.00
					100.00	Normalize to 100% :		76.33	23.67	

# New York Independent System Operator

## Business Issues Committee - June 20, 2018

**Motion: Motion #AC**

**Result: Motion Passed**

Sector	Organization	Representative	Affiliate	Present	For	Against
Generation Owners	Indeck Energy Services, Inc.	Younger, Mark	N	Y	1.00	0.00
Generation Owners	Astoria Energy LLC		N	N	0.00	0.00
Generation Owners	Calpine		N	N	0.00	0.00
Generation Owners	CPV Valley LLC		N	N	0.00	0.00
Generation Owners	East Coast Power, LLC		N	N	0.00	0.00
Generation Owners	Entergy Nuclear Northeast	Saia, Doreen	N	Y	1.00	0.00
Generation Owners	Innovative Energy Systems		Y	N	0.00	0.00
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	EDP Renewables North America LLC	Brodbeck, John	N	Y	1.00	0.00
Generation Owners	Cricket Valley Energy Center	Schwall, Matt	N	Y	0.00	0.00
Generation Owners	Invenergy Energy Management LLC		N	N	0.00	0.00
Generation Owners	National Grid Generation LLC		Y	N	0.00	0.00
Generation Owners	Somerset Operating Company, LLC	Antinori, Andy	N	Y	1.00	0.00
Generation Owners	Howard Wind LLC		N	N	0.00	0.00
Generation Owners	Bayonne Energy Center, LLC	Allman, Ellen	N	Y	0.00	0.00
Generation Owners	Helix Ravenswood LLC	Willick, Lawrence	N	Y	1.00	0.00
Generation Owners	Empire Generating Co, LLC		N	N	0.00	0.00
Generation Owners	Danskammer Energy, LLC		N	N	0.00	0.00
Other Suppliers	BJ Energy LLC		N	N	0.00	0.00
Other Suppliers	Citigroup Energy Inc.		N	N	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		N	N	0.00	0.00
Other Suppliers	DC Energy	Antinori, Andy	N	Y	1.00	0.00
Other Suppliers	DTE Energy	German, Robert	N	Y	0.00	0.00
Other Suppliers	Energy Spectrum		N	N	0.00	0.00
Other Suppliers	EnerNoc		N	N	0.00	0.00
Other Suppliers	Galt Power	Ackerman, Alan	N	Y	0.00	0.00
Other Suppliers	HQ Energy Services US	Plante, Matthieu	N	Y	1.00	0.00
Other Suppliers	Morgan Stanley Capital Group, Inc.		N	N	0.00	0.00
Other Suppliers	NRG Power Marketing Inc.		N	N	0.00	0.00
Other Suppliers	Ontario Power Generation, Inc.		N	N	0.00	0.00
Other Suppliers	Exelon Generating Co. LLC	Ackerman, Alan	N	Y	1.00	0.00
Other Suppliers	PSEG Energy Resource & Trade, LLC		N	N	0.00	0.00
Other Suppliers	SESCO Enterprises, LLC		N	N	0.00	0.00
Other Suppliers	Shell Energy North America, LLC	Picardi, Matt	N	Y	0.00	0.00
Other Suppliers	TransCanada Power Marketing, Ltd.		N	N	0.00	0.00
Other Suppliers	BP Energy Company	Ackerman, Alan	N	Y	0.00	0.00
Other Suppliers	EDF Trading North America, LLC		N	N	0.00	0.00
Other Suppliers	NextEra Energy	Gibelli, Stephen	N	Y	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	Viridity Energy, Inc.		N	N	0.00	0.00
Other Suppliers	Riverbay Corporation		N	N	0.00	0.00
Other Suppliers	Castleton Commodities Merchant Trading L.P.		N	N	0.00	0.00
Other Suppliers	BlueRock Energy, Inc.		N	N	0.00	0.00
Other Suppliers	Lyonsdale Biomass, LLC		Y	N	0.00	0.00

Sector	Organization	Representative	Affiliate	Present	For	Against
Other Suppliers	Direct Energy Business Marketing, LLC	Galarneau, Kenneth	N	Y	0.00	0.00
Other Suppliers	Energy Technology Savings	Ross, Valerie	N	Y	1.00	0.00
Other Suppliers	Mercuria Energy America, Inc.	Younger, Mark	N	Y	1.00	0.00
Other Suppliers	New York Transco		Y	N	0.00	0.00
Other Suppliers	Talen Energy	Hohenshilt, Jennifer	N	Y	0.00	0.00
Other Suppliers	CPower		N	N	0.00	0.00
Other Suppliers	XO Energy NY, LP		N	N	0.00	0.00
Other Suppliers	Dynegy Marketing and Trade		N	N	0.00	0.00
Other Suppliers	Brookfield Energy Marketing L.P.	LaRoe, Chris	N	Y	1.00	0.00
Other Suppliers	Eastern Generation	Baker, Liam	N	Y	1.00	0.00
Other Suppliers	BioUrja Power, LLC		N	N	0.00	0.00
Other Suppliers	Drift Marketplace, Inc.		N	N	0.00	0.00
Other Suppliers	ENGIE Energy Marketing NA, Inc.		Y	N	0.00	0.00
Transmission Owners	New York State Electric & Gas (NYSEG)	Caletka, Patricia	N	Y	0.00	1.00
Transmission Owners	Central Hudson Gas & Electric Corp.	Borchert, John	N	Y	0.00	0.00
Transmission Owners	Consolidated Edison Co. of NY, Inc.	Quin, Jane	N	Y	0.00	1.00
Transmission Owners	National Grid	Janzen, Margaret	N	Y	0.00	1.00
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.	Trinsey, Amanda	N	Y	0.00	0.00
End Use - Large Consumer	IBM Corporation	Trinsey, Amanda	N	Y	0.00	0.00
End Use - Large Consumer	Occidental Chemical Corp.	Trinsey, Amanda	N	Y	0.00	0.00
End Use - Large Consumer	Wegmans Food Markets	Trinsey, Amanda	N	Y	0.00	0.00
End Use - Large Consumer	Nucor Steel Auburn, Inc.	Brew, James	N	Y	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	Lang, Kevin	N	Y	0.00	0.00
End Use - Small Consumer	Beth Israel Health Care System	Lang, Kevin	N	Y	0.00	0.00
End Use - Small Consumer	Fordham University	Lang, Kevin	N	Y	0.00	0.00
End Use - Small Consumer	Memorial Sloan Kettering Cancer Center	Lang, Kevin	N	Y	0.00	0.00
End Use - Small Consumer	Mount Sinai Medical Center	Lang, Kevin	N	Y	0.00	0.00
End Use - Small Consumer	New York University	Lang, Kevin	N	Y	0.00	0.00
End Use - Small Consumer	Association for Energy Affordability	Morris, Jackson	N	Y	0.00	0.00
End Use - Gov. State-wide Cons. Advocate	Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Hogan, Erin	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
End Use - Gov. Sm. Cons. & Retail Aggr.	City of New York	Lang, Kevin	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	Wentlent, Chris	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	Wentlent, Chris	N	Y	1.00	0.00
Public Power - Munis & Co-ops	Municipal Commission of Boonville	Wentlent, Chris	N	Y	1.00	0.00
Public Power - Munis & Co-ops	Plattsburgh Municipal Lighting Dept	Wentlent, Chris	N	Y	1.00	0.00
Public Power - Munis & Co-ops	Village of Westfield	Wentlent, Chris	N	Y	1.00	0.00
Public Power - Munis & Co-ops	Village of Solvay	Wentlent, Chris	N	Y	1.00	0.00
Public Power - Munis & Co-ops	Village of Arcade	Wentlent, Chris	N	Y	1.00	0.00
Public Power - Munis & Co-ops	Village of Fairport	Wentlent, Chris	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 Wind Energy Association		N	N	0.00	0.00
Public Power - Environmental	Environmental Advocates	Morris, Jackson	N	Y	1.00	0.00
Public Power - Environmental	Natural Resources Defense Council	Morris, Jackson	N	Y	1.00	0.00
Public Power - Environmental	PACE Energy & Climate Center		N	N	0.00	0.00
Public Power - Environmental	Riverkeeper		N	N	0.00	0.00

<b>Sector</b>	<b>Organization</b>	<b>Representative</b>	<b>Affiliate</b>	<b>Present</b>	<b>For</b>	<b>Against</b>
Public Power - Environmental	Environmental Defense Fund		N	N	0.00	0.00

# New York Independent System Operator - Committee Membership

## Business Issues Committee - June 20, 2018 - NYISO - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Astoria Energy LLC	Generation Owners	McCall, Chuck	Browne, Scott	Habib, Phillipe	Singer, Leonard						
Bayonne Energy Center, LLC	Generation Owners	✓Allman, Ellen	Yang, Sue	✓Caplan, Stu							
CPV Valley LLC	Generation Owners	Litchfield, Matt	Rumsey, Tom								
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve						
Cricket Valley Energy Center	Generation Owners	Davis, Charles	Wallenstein, Arnold	Paryl, Ron						✓Schwall, Matt	
Danskammer Energy, LLC	Generation Owners	Reid, William	Cada, Eric								
EDP Renewables North America LLC	Generation Owners	✓Brodbeck, John	Kaplan, Seth	Nemeth, Jeffrey	High, Jeremy	Priemer, Dustin				✓Picardi, Matt	
East Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	Lee, Tina	Franzetti, Paul						
Empire Generating Co, LLC	Generation Owners	Nuss, Kurt	Argetsinger, Andrew	Willson, Darrell	Swenson, Nils						
Entergy Nuclear Northeast	Generation Owners	Dell Orto, Ken	✓Saia, Doreen	Bergeron, John							
Helix Ravenswood LLC	Generation Owners	D'Andrea, James	Kline, Marc	DiBari, Dominic						✓Willick, Lawrence	
Howard Wind LLC	Generation Owners	Merich, Olivia	Rugh, Chris								
Indeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	✓Younger, Mark								
Innovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
Invenery Energy Management LLC	Generation Owners	Pakula, Maggie	Goldstein, Michael	Orzel, Chris							
National Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe, Brian								
Noble Environmental Power LLC	Generation Owners	Silton, Harry									
Selkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy	Ryan, James								
Somerset Operating Company, LLC	Generation Owners	Gregson, Brian	Goodenough, Jeery	Evanoski, Dave						✓Antinori, Andy	
BJ Energy LLC	Other Suppliers	Ni, Bing	Lee, George								
BP Energy Company	Other Suppliers	Chintapalli, Raj	Magruder, Kathy	✓Ackerman, Alan							
BioUrja Power, LLC	Other Suppliers	Moore, Cody	Ward, Roxie								
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	Dotson-Westphalen, Peter	Hourihan, Michael	Damaskos, Deno	Campbell, Bruce						
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								
Constellation New Energy	Other Suppliers	Barlette, Richard	Kirk, Steven								
Cross Sound Cable Company, LLC	Other Suppliers	Reinhart, Brian	Rotger, Jose								
DC Energy	Other Suppliers	Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev, Kumar				✓Antinori, Andy	
DTE Energy	Other Suppliers	Pakela, Gregory	Wieszczyk, Raymond	✓German, Robert							
Direct Energy Business Marketing, LLC	Other Suppliers	✓Galarneau, Kenneth	Philips, Marjorie	Comstock, Read							
Drift Marketplace, Inc.	Other Suppliers	Tilley, Alan	Robinson, Greg								
Dynegy Marketing and Trade	Other Suppliers	Frazier, Amanda	Allen, Sean								
EDF Trading North America, LLC	Other Suppliers	Erbrick, Michael	LeForce, Randall								
ENGIE Energy Marketing NA, Inc.	Other Suppliers	Levine, Jeffrey	Hawkins, Darin	Campbell, Chad							
Eastern Generation	Other Suppliers	✓Baker, Liam	Reese, John	✓Younger, Mark	✓Schwall, Matthew	Johnson, David	Wolcott, Tyler				
EnerNoc	Other Suppliers	Brewster, David	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								
Exelon Generating Co. LLC	Other Suppliers	Barlette, Richard	Kirk, Steven							✓Ackerman, Alan	
Galt Power	Other Suppliers	Fernands, Rochelle	✓Ackerman, Alan								
HQ Energy Services US	Other Suppliers	✓Plante, Matthieu	✓Leuthauser, Scott	Guilbault, Louis	Bélanger, Frédéric						
Innoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve								
Lyonsdale Biomass, LLC	Other Suppliers	Ralston, William	Hebel, Nathan	✓Carrigan, Kathleen							
Mercuria Energy America, Inc.	Other Suppliers	Davis, Andrew	✓Younger, Mark	Frye, Samuel							
Morgan Stanley Capital Group, Inc.	Other Suppliers	Murray, Patrick	Kochonies, Karen	Ezickson, Doron							
NRG Power Marketing Inc.	Other Suppliers	Hsia, Jennifer	Cona, Lisa	Kranz, Bradley							
New York Transco	Other Suppliers	Nachmias, Stuart	✓Hitti, Nabil	Caso, Rob	✓Carrigan, Kathleen	Dumais, Paul	McKinney, Jeff				
NextEra Energy	Other Suppliers	Applebaum, David	Gardner, Michelle	✓Gibelli, Stephen							
Ontario Power Generation, Inc.	Other Suppliers	Lacivita, Ken	Gell, Richard	Barr, David	Sheinfield, Joel						
PSEG Energy Resource & Trade, LLC	Other Suppliers	Fromer, Howard	DePillo, Raymond	Cimino, David	Murawski, James						
Riverbay Corporation	Other Suppliers	Merola, Peter	Ellison, Noel								
SESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
Shell Energy North America, LLC	Other Suppliers	✓Picardi, Matt									
Talen Energy	Other Suppliers	✓Hohenshilt, Jennifer	Labella, Julie	Raggio, Debra							
TransCanada Power Marketing, Ltd.	Other Suppliers	Cahill, Paul	Schuler, Richard	Murphy, Tonya							

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Viridity Energy, Inc.	Other Suppliers	Freifeld , Allen									
Vitol Inc.	Other Suppliers	Wadsworth , Joe	Viola , Bob	Kahn , Casey							
XO Energy NY, LP	Other Suppliers	Drangula , Carey	Thompson , Matthew	Hughes , Adam							
Central Hudson Gas & Electric Corp.	Transmission Owners	✓Borchert , John	Chan, Ting	May , Jeff	Dittmann, David						
Consolidated Edison Co. of NY, Inc.	Transmission Owners	✓Quin , Jane	Nachmias, Stuart	Butler , Scott	✓Hargett , Chris	Butterklee, Neil					
National Grid	Transmission Owners	✓Janzen , Margaret	Lodemore , David	Carron , Benjamin							
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	Mackaronis , Chris								
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	Breidenbaugh , Aaron	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda				✓Hogan, Erin	
Association for Energy Affordability	Small Consumer	Strauss , Valerie	Hepinstall, David	Farmer , Miles						✓Morris, Jackson	
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda				✓Hogan, Erin	
Fordham University	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda				✓Hogan, Erin	
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda				✓Hogan, Erin	
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda				✓Hogan, Erin	
New York University	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda				✓Hogan, Erin	
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	✓Hogan , Erin	Montalvo , Marc	Kordonis , Dimitrios	Zimmerman , Michael						
City of New York	Government Small Consumer and Retail Aggregate	✓Lang, Kevin	Mager, Michael	✓Trinsey , Amanda							
NYS Energy Research & Dev. Authority	Government Small Consumer and Retail Aggregate	✓Hall , Christopher	Coup, David	Mas , Carl	Wilcox , James	Matteson , Schuyler					
Long Island Power Authority	State Power Authorities	✓Clarke, Dave	✓Wilczek , Mariann								
New York Power Authority	State Power Authorities	✓Antinori , Andrew	✓Lundin , Tim	✓Mahoney , Daniel							
Bath Electric, Gas & Water Systems	Municipalities and Coops	Bonacci , Erin	✓Wentlent, Chris	Cordeiro, Mark							
Freeport Electric	Municipalities and Coops	Livingston , Al	Kimlingen, Ted	✓Rudebusch, Tom	Fiore , Chris					✓Hogan, Erin	
Jamestown Board of Public Utilities	Municipalities and Coops	Sellstrom , Kris	Leathers, David	Allen , Cory	✓Rudebusch, Tom					✓Hogan, Erin	
Lake Placid Village	Municipalities and Coops	Daby , Kimball	✓Wentlent, Chris	Cordeiro, Mark							
Municipal Commission of Boonville	Municipalities and Coops	Varner , Doug	✓Wentlent, Chris	Cordeiro, Mark							
Plattsburgh Municipal Lighting Dept	Municipalities and Coops	Treacy, William	✓Wentlent, Chris	Cordeiro, Mark							
Village of Arcade	Municipalities and Coops	Kilburn, Larry	✓Wentlent, Chris	Cordeiro, Mark							
Village of Fairport	Municipalities and Coops	Hegarty , Matt	✓Wentlent, Chris	Cordeiro, Mark							
Village of Rockville Centre	Municipalities and Coops	Andreas , Philip	Valenzano , Michael	✓Rudebusch, Tom						✓Hogan, Erin	
Village of Solvay	Municipalities and Coops	Hawksby , Joe	✓Wentlent, Chris	Cordeiro, Mark							
Village of Westfield	Municipalities and Coops	Thompson , Andrew	✓Wentlent, Chris	Cordeiro, Mark							
American Wind Energy Association	Environmental	Reynolds , Anne	Reeder , Mark	Beck , Betsy	Goggin , Michael	Grace , Gene					
Environmental Advocates	Environmental	Bambrick , Conor	Farmer , Miles	✓Morris, Jackson							
Environmental Defense Fund	Environmental	Christian , Rory	Stein , Elizabeth								
Natural Resources Defense Council	Environmental	Farmer , Miles	✓Morris, Jackson	De Costanzo , Donna						✓Ayyagari, Sneha	
PACE Energy & Climate Center	Environmental	Musgrove , Sheryl	Taylor , Geordi	Farmer , Miles							
Riverkeeper	Environmental	Gallay , Paul	Jones , Abigail	Doran , Erin							
AEP On-Site Partners, LLC	Non Voting	Jansen , Joel	Kakodkar , Guatam								
AES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswamy , Kiran								
Acadia Center	Non Voting	Howland , Jamie	Howe , Cullen								
Acadia Energy Corporation	Non Voting	Rappaport , Jason	Bay , John								
Alliance for Clean Energy New York	Non Voting	Reynolds , Anne	Dufresne , Zach	Reeder , Mark							
Anbaric Northeast Transmission Development Co.	Non Voting	Sanderson , Barry	Kosel , Howard								
Appian Way Energy Partners East, LLC	Non Voting	Levy , Tal	Klein , Abram	Shen , Dong	Westlund , John	Laich , Marcus					
Ardor Energy LLC	Non Voting	Breen , Erika									
Avangrid Renewables, Inc.	Non Voting	Kilgallen , Kevin	Sokolski , Adam								
Boston Energy Marketing & Trading	Non Voting	✓Kramek , Mike									
Bruce Power	Non Voting	Jain , Anshul	Meyer , Sandra								
Caithness Energy LLC	Non Voting	Keevill , Gary	Alvarez , Asavari	Garber, Mitchell							
Calpine Energy Solutions	Non Voting	Sun , Jungsuk	Nakhonthap , Jade	✓Sunga , Leonard							
Canandaigua Power Partners, LLC	Non Voting	Keene , John	Gaddes , Caleb								
Cubit Power One Inc.	Non Voting	Powell , Alan	Powell , Leighton	Singer, Leonard							

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Customized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓ Ackerman, Alan						
Cypress Creek Renewables	Non Voting	Kohlstedt , Kevin	Kemp , Melissa	Salehian , Afshin							
Earth Networks	Non Voting	Crawford , Jaden									
Energya VM	Non Voting	Garcia , Francisco	Maeso , Manual	Lopez , Ana	Corvillo , Cristina						
Fluent Energy	Non Voting	Acampora , Peter	Doll , Ed								
GI Energy	Non Voting	Falcier , Peter	Robinson , James								
Hudson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
Hydro-Quebec TransEnergie	Non Voting	Prevost , Michel									
ITC Mid-Atlantic Development LLC	Non Voting	Wrenbeck , Tom	Benedict , Nathan								
Institute for Policy Integrity at NYU School of Law	Non Voting	Unel , Burcin	Noll , Bethany								
Key Capture Energy	Non Voting	Fitzgerald , Dan	Bishop , Jeff								
MAG Energy Solutions, Inc.	Non Voting	Pelletier , Simon	Vezina, Alexandre								
NRG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan , Malcolm	Pieniazek, Marie							
NY-BEST Consortium	Non Voting	Acker , William	Sheehan , Denise								
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	Tripp , Hank									
North America Transmission, LLC	Non Voting	✓ Willick , Lawrence	✓ York , Joshua								
Northeast Clean Heat & Power Initiative	Non Voting	Venkataraman , Sree	Brown, Ruben	Cinadr , Matt	Dwyer , Herb						
Northline Utilities LLC	Non Voting	McKinney , Jeff	Danskin , Susan								
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	Christian , Adam									
Richard P. Felak	Non Voting	Felak, Rich									
STEM, Inc.	Non Voting	Ko , Ted									
Saracen Energy East LP	Non Voting	Peebles , Andy									
Siemens Energy, Inc.	Non Voting	Feltes , James									
Stephentown Spindle, LLC	Non Voting	Hebert , Chris									
Taylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page , Allan								
Teichos Energy, LLC	Non Voting	Maclearnsberry , Kirk	VanCoevering , Darrel								
Tesla Motors, Inc.	Non Voting	Burson , Kate	Van Cleve , Sarah	Watson , Betty							
TransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis , Ted									
Transmission Developers Inc.	Non Voting	Jessome , Donald	Helmer , William	Dave , Suresh							
Transource New York, LLC	Non Voting	Burkholder , Joshua									
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					