
NYISO Business Issues Committee Meeting Minutes
October 16, 2019
10:00 a.m. – 11:50 a.m.

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

Mr. Aaron Breidenbaugh (Consumer Power Advocates) called the meeting to order at 10:00 a.m.

2. Approval of BIC Minutes

There were no questions or comments regarding the draft minutes from the September 11, 2019 BIC meeting that were included as part of the meeting material.

Motion #1:

Motion to approve the Minutes of the September 11, 2019 BIC meeting.

Motion passed unanimously.

3. Market Operations Report and Broader Regional Markets Report

Dr. Nicole Bouchez (NYISO) reviewed the market operations report included with the meeting material. There were no questions or comments.

Dr. Bouchez reviewed the broader regional markets report included with the meeting material.

Mr. Scott Leuthauser (HQUS) recommended that the NYISO consider including an update for Item No. 9 to note that further consideration for five-minute transaction scheduling with Quebec has been proposed for inclusion in the 2020 project plan.

Mr. Howard Fromer (PSEG) requested that the NYISO work to provide further information to the marketplace on the expected operational status of the B and C lines beyond December 31, 2019.

4. Proposed Changes to Enhance Credit Reporting Requirements and Remedies

Ms. Sheri Prevratil (NYISO) reviewed the presentation included with the meeting material.

Mr. Fromer sought confirmation that the requirement to inform the NYISO of ongoing investigations relates only to investigations that could have a material impact on a customer’s participation in the NYISO-administered markets. Ms. Prevratil stated that the requirement to advise the NYISO of ongoing investigations relates to those investigations that could have a material impact on a customer’s financial condition.

Mr. Mark Younger (Hudson Energy Economics) sought clarification regarding whether an applicant denied market entry would have the ability to pursue recourse at FERC. Ms. Prevratil confirmed that an applicant rejected based on the proposed authority to be added to the tariff would have the ability to seek redress at FERC.

Motion #2:

The Business Issues Committee (BIC) hereby recommends that the Management Committee approve, and recommend to the NYISO Board for filing under Section 205 of the Federal Power Act, revisions to Attachment K of the Market Administration and Control Area Services Tariff as described in the presentation entitled “Proposed Changes to Enhance Credit Reporting Requirements and Remedies,” made at the October 16, 2019 BIC meeting.

Motion passed unanimously with an abstention.

5. Cost Containment Mechanism for Public Policy Transmission Planning Process

Ms. Yachi Lin (NYISO) reviewed the presentation included with the meeting material.

Mr. Andrew Antinori (NYPA) sought confirmation that the proposed cost containment is a voluntary mechanism. Ms. Lin confirmed that the election to propose a cost containment mechanism is voluntary for a Developer.

Ms. Jane Quin (Con Edison) requested information regarding the past experience relating to the relative level of cost estimates submitted by Developers compared to the estimates developed by the independent consultant utilized by the NYISO. Mr. Carl Patka (NYISO) stated that with respect to the AC Transmission Public Policy Transmission Need, all project proposal cost estimates submitted by Developers were less than the cost estimates developed by the NYISO's independent consultant.

Mr. Fromer asked for confirmation whether Developers are required to undertake some level of preliminary site evaluation to determine potential environmental remediation costs. Mr. Patka stated that the proposed cost containment mechanism is intended to include, within the category of covered costs, the cost of conducting a Phase 1 environmental assessment, as well as any environmental remediation costs that may be known at the time a Developer submits its project cost estimate.

Mr. Fromer asked whether the project cost estimates developed by the independent consultant utilized by the NYISO include an estimate of environmental remediation costs that may exist for a given project. Ms. Lin stated that environmental remediation costs are within the scope of the project cost estimates developed by the independent consultant utilized by the NYISO.

Mr. Fromer sought clarification regarding the process for determining whether cost overruns that may be incurred are outside the reasonable control of a Developer. Mr. Patka stated that such determinations would be addressed by FERC because FERC ultimately retains authority over approval of cost recovery for transmission projects to be recovered pursuant to the NYISO tariffs.

Mr. Fromer asked whether the NYISO's assessment of cost containment proposals will include consideration of potential significant differences between a Developer's estimate for costs subject to a proposed cost containment mechanism and the estimate of such costs developed by the NYISO's independent consultant. Ms. Lin confirmed that such differences would be considered by the NYISO as part of the project evaluation and selection phase noting that the tariff provides the NYISO authority to request additional information from Developers, if necessary, to assist in evaluating a cost containment proposal.

Mr. David Clarke (LIPA) noted support for the proposal as a beneficial improvement to the Public Policy Transmission Planning Process, but recommended that future enhancements also be assessed to potentially include consideration of the carrying costs for various project proposals as part of the project evaluation and selection phase. Mr. Patka stated that FERC ultimately has authority for ensuring that rates recovered through the NYISO tariffs are just and reasonable noting that it may not be feasible to determine reasonable estimates of potential carrying costs at the time the project evaluation and selection phase is conducted.

Ms. Devlyn Tedesco (Couch White) noted that the City of New York does not intend to vote in support of the proposal because, in the City of New York's view, the proposal does not provide sufficient protection and benefit for consumers.

Ms. Quin provided the following statement for inclusion in the minutes:

Con Edison and Orange and Rockland support the proposed cost containment options that have been developed, and very much appreciate the effort the NYISO staff has made to consider the input of many stakeholders. Specifically, we appreciate that the NYISO has included the ability for developers to propose a soft cap, with flexibility as to how the cap will be implemented as part of the FERC rate-setting process.

However, Con Edison and Orange and Rockland are abstaining on today's vote because the tariff changes being made not only include the cost containment options that we have worked so hard to develop, but also include changes to the NYISO evaluation

process. It is in the changes to the evaluation process that we have a concern because there is no step included should a TO decide to upgrade its own facilities. We believe that to the extent the tariff changes specify changes in the NYISO evaluation steps, that process ought to have a step to allow for the possibility that a TO will choose to upgrade its own facilities. Should the NYISO be willing to make that change to the tariff provisions, we believe we would be able to support the proposed tariff changes.

Mr. Patka stated that the NYISO is committed to addressing the application and consideration of voluntary cost containment mechanisms as it relates to facility upgrades that a Transmission Owner may exercise its right to construct as part of the separate, ongoing effort to discuss upgrades in connection with the Public Policy Transmission Planning Process.

Mr. Michael Mager (Couch White) noted appreciation for the NYISO's efforts in developing the proposal and collaborating with stakeholders in its development, stating that Multiple Intervenors intended to vote in support of the proposal.

Mr. Chris Hall (NYSERDA) noted appreciation for NYISO's efforts to develop this proposal stating that NYSERDA would be voting in support of the proposal.

Mr. Steve Gibelli (NextEra) stated appreciation for the NYISO efforts with respect to the development of the cost containment proposal indicating that NextEra intended to vote in support of the proposal.

Mr. Breidenbaugh noted appreciation for the effort of the NYISO and stakeholders to develop the proposal indicating that it represents a beneficial improvement that Consumer Power Advocates intends to support.

Mr. Brian Wilkie (National Grid) provided the following statement for inclusion in the minutes:

National Grid appreciates and supports improvements to the evaluation process for public policy transmission projects. We supported the proposal today because we think it may create benefits for our customers. We also look forward to working with stakeholders to resolve the local upgrades issue.

Mr. David Clarke provided the following statement for inclusion in the minutes:

[LIPA] would like to commend NYISO's thoughtfulness and the quality of the proposal. We consider this an achievable step in a good direction, although do hold that the project's annual carrying cost is highly relevant to what loads will end up paying, and thus ultimately should be included as a selection metric - recognizing that we are not there yet.

Motion #3:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve and recommend that the Board of Directors approve the revisions to Sections 6.10, 31.1, 31.4, and 31.7 of the Open Access Transmission Tariff ("OATT"), as more fully described in the presentation entitled "Cost Containment Mechanism for Public Policy Transmission Planning Process" as presented and discussed at the October 16, 2019 BIC meeting.

Motion passed with 98.91% affirmative votes.

6. Working Group Updates

- Billing and Accounting and Credit Working Group: The group has met twice since the last BIC meeting. On September 18, 2019, the group met and reviewed proposed enhancements to certain credit-related reporting requirements. The group also met on October 3, 2019 and further reviewed the proposed enhancements to certain credit-related reporting requirements.

- Electric System Planning Working Group: The group has met four times since the last BIC meeting. On September 11, 2019, the group met and reviewed the preliminary base case results for the 2019 Congestion Assessment and Resource Integration Study (CARIS) Phase 1 analysis, and preliminary assumptions for the 70x30 scenario to be conducted as part of the 2019 CARIS Phase 1 analysis. The group met on September 23, 2019 and reviewed the proposal to add a cost containment metric as part of the Public Policy Transmission Planning Process, an overview of the current financial information required to be submitted by resources in connection with a Generator Deactivation Notice, and the proposal to develop a short-term reliability planning process. On October 1, 2019, the group met jointly with ICAPWG and reviewed proposed improvements to the Class Year Study and interconnection processes. The group also met on October 4, 2019 and reviewed updated base case results for the 2019 CARIS Phase 1 analysis and three constraints identified for further evaluation, an overview of the load forecast assumptions to be used in the scenarios conducted as part of the 2019 CARIS Phase 1 analysis, and an overview of the energy storage modeling assumptions to be used in the 70x30 scenario being conducted as part of the CARIS Phase 1 analysis.
- Installed Capacity Working Group: The group has met five times since the last BIC meeting, including joint meetings with MIWG, ESPWG and/or PRLWG. On September 20, 2019, the group met and reviewed a proposal to add a competitive entry exemption to the buyer-side mitigation rules for additional Capacity Resource Interconnection Service (CRIS) requests, and proposed revisions to the types of permissible contracts allowed as part of the competitive entry exemption from the buyer-side mitigation rules. The group met on September 24, 2019 and reviewed a presentation by Analysis Group regarding the study results and observations from the ongoing fuel and energy security assessment, the study inputs and assumptions for the 2019-2020 New Capacity Zone Study, and proposed revisions to the expiration rules for CRIS rights. On October 1, 2019, the group met and reviewed proposed improvements to the Class Year Study and interconnection processes. The group met on October 3, 2019 and reviewed a presentation by Analysis Group regarding the results of its supplemental analysis of the potential impacts of the proposed carbon pricing initiative, an update regarding the ongoing distributed energy resources (DER) pilot program projects, and preliminary information regarding 2020/2021 Locational Minimum Installed Capacity Requirement values and related transmission security limit values. The group also met on October 11, 2019 and reviewed a presentation by Analysis Group regarding an overview of key considerations for the 2019-2020 ICAP Demand Curve reset (DCR) process, a presentation by Burns & McDonnell regarding preliminary considerations related to the peaking unit technology evaluation to be conducted as part of the 2019-2020 DCR, a proposal to add a competitive entry exemption to the buyer-side mitigation rules for additional CRIS requests, proposed revisions to the types of permissible contracts allowed as part of the competitive entry exemption from the buyer-side mitigation rules, and proposed improvements to the Class Year Study and interconnection processes.
- Load Forecasting Task Force: The group met on September 27, 2019 and reviewed a presentation by Itron regarding the ongoing 2019 climate change impact and resilience study project, the preliminary weather adjusted peak load from 2019 for use in the 2020/2021 capacity market peak load forecast, the preliminary peak load forecast to be used in the development of the statewide installed reserve margin for the 2020/2021 Capability Year, and proposed revisions to the Load Forecasting Manual related to treatment of Behind-the-Meter Net Generation Resources.
- Market Issues Working Group: The group has met four times since the last BIC meeting, including joint meetings with ICAPWG and/or PRLWG. The group met on September 24, 2019 and reviewed a proposal to develop reserve requirements for certain load pockets within New York City, and a presentation by Analysis Group regarding the study results and observations from the ongoing fuel and energy security assessment. On September 26, 2019, the group met and reviewed the NYISO's compliance filing proposal related to pricing rules for fast-start resources, the proposed methodology for the Consumer Impact Analysis related to the NYISO's proposed compliance filing to revise the pricing rules for fast-start resources, and a proposal for procuring quantities of reserves in excess of the minimum requirements needed to satisfy reliability requirements. The group met on October 3, 2019 and reviewed a presentation by Analysis Group regarding the results of its supplemental analysis of the potential impacts of the proposed carbon pricing initiative, and an update regarding the ongoing DER pilot program projects. The group also met on October 8, 2019 and reviewed potential opportunities to improve the current rules that seek to prevent uneconomic production by resources in the wholesale energy markets, and potential opportunities for improving the current load pocket threshold methodology utilized by the energy market mitigation rules.

- Price Responsive Load Working Group: The group met jointly with MIWG and ICAPWG on September 24, 2019 and October 3, 2019 and reviewed the agenda topics for each meeting related to DER, energy storage resources and/or the NYISO-administered demand response programs.

7. New Business

There was no new business.

Meeting adjourned at 11:50 a.m.

Business Issues Committee
October 16, 2019 Meeting
Final Motions

Motion #1:

Motion to approve the Minutes of the September 11, 2019 BIC meeting.

Motion passed unanimously.

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Motion passed unanimously with an abstention.

Motion #3:

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Motion passed with 98.91% affirmative votes.

New York Independent System Operator
Business Issues Committee - October 16, 2019

Motion: Motion #3

Result: Motion Passed

Sector with base percent	%	Active	Quorum	Adj. Percent	For	Against	Abstain	% For	% Against	
Generation Owners	21.50	✓	X	4.03	2.00	0.00	1.00	4.03	0.00	
Other Suppliers	21.50	✓	✓	21.50	4.00	0.00	6.00	21.50	0.00	
Transmission Owners	20.00	✓	✓	20.00	3.00	0.00	1.00	20.00	0.00	
End Use Consumer			✓							
Large Consumer	9.00	✓		9.00	4.00	0.00	1.00	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	✓	✓	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	1.00	1.00	0.00	0.90	0.90	
Public Power			✓							
State Power Authorities	8.00	✓		9.07	2.00	0.00	0.00	9.07	0.00	
Munis & Co-ops	7.00	✓		7.93	8.00	0.00	0.00	7.93	0.00	
Environmental	2.00	✓		0.00	0.00	0.00	0.00	0.00	0.00	
				4	82.53	31.00	1.00	9.00	81.63	0.90
					82.53	Normalize to 100% :		98.91	1.09	

New York Independent System Operator

Business Issues Committee - October 16, 2019

Motion: Motion #3

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	Schwall, Matthew	N	Y	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	Selkirk Cogen Partners, LP		N	N	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		N	N	0.00	0.00
Generation Owners	National Grid Generation LLC		Y	N	0.00	0.00
Generation Owners	Somerset Operating Company, LLC		N	N	0.00	0.00
Generation Owners	Howard Wind LLC		N	N	0.00	0.00
Generation Owners	Bayonne Energy Center, LLC		Y	N	0.00	0.00
Generation Owners	Helix Ravenswood LLC		N	N	0.00	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
Generation Owners	Covanta Niagara, LP		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	Bleiweis, Bruce	N	Y	0.00	0.00
Other Suppliers	DTE Energy		N	N	0.00	0.00
Other Suppliers	Energy Spectrum	Cinadr, Matt	N	Y	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		N	N	0.00	0.00
Other Suppliers	PSEG Energy Resource & Trade, LLC	Fromer, Howard	N	Y	0.00	0.00
Other Suppliers	SESCO Enterprises, LLC		N	N	0.00	0.00
Other Suppliers	Shell Energy North America, LLC		N	N	0.00	0.00
Other Suppliers	BP Energy Company	Ackerman, Alan	N	Y	0.00	0.00
Other Suppliers	NextEra Energy	Gibelli, Stephen	N	Y	1.00	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
Other Suppliers	Direct Energy Business Marketing, LLC	Galarmeau, Kenneth	N	Y	0.00	0.00
Other Suppliers	Mercuria Energy America, Inc.	Younger, Mark	N	Y	1.00	0.00

Sector	Organization	Representative	Affiliate	Present	For	Against
Other Suppliers	New York Transco		Y	N	0.00	0.00
Other Suppliers	Talen Energy		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.		N	N	0.00	0.00
Other Suppliers	CPower		Y	N	0.00	0.00
Other Suppliers	Eastern Generation	Younger, Mark	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
Other Suppliers	Stephentown Spindle, LLC		N	N	0.00	0.00
Other Suppliers	ENEL X		N	N	0.00	0.00
Other Suppliers	Energy Technology Savings Inc. d/b/a Logical Buildings		N	N	0.00	0.00
Transmission Owners	New York State Electric & Gas (NYSEG)	Caletka, Patricia	N	Y	1.00	0.00
Transmission Owners	Central Hudson Gas & Electric Corp.	Caletka, Patti	N	Y	1.00	0.00
Transmission Owners	Consolidated Edison Co. of NY, Inc.	Quin, Jane	N	Y	0.00	0.00
Transmission Owners	National Grid	Wilkie, Brian	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	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.	Brew, James	N	Y	0.00	0.00
End Use - Large Consumer	Alcoa, Inc.	Mager, Michael	N	Y	1.00	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	Breidenbaugh, Aaron	N	Y	1.00	0.00
End Use - Small Consumer	Beth Israel Health Care System	Breidenbaugh, Aaron	N	Y	1.00	0.00
End Use - Small Consumer	Fordham University	Breidenbaugh, Aaron	N	Y	1.00	0.00
End Use - Small Consumer	Memorial Sloan Kettering Cancer Center	Breidenbaugh, Aaron	N	Y	1.00	0.00
End Use - Small Consumer	Mount Sinai Medical Center	Breidenbaugh, Aaron	N	Y	1.00	0.00
End Use - Small Consumer	New York University	Breidenbaugh, Aaron	N	Y	1.00	0.00
End Use - Small Consumer	Association for Energy Affordability		N	N	0.00	0.00
End Use - Gov. State-wide Cons. Advocate	Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Montalvo, Marc	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	Mager, Michael	N	Y	0.00	1.00
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		N	N	0.00	0.00
Public Power - Munis & Co-ops	Jamestown Board of Public Utilities		N	N	0.00	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		N	N	0.00	0.00
Public Power - Environmental	American Wind Energy Association		N	N	0.00	0.00
Public Power - Environmental	Environmental Advocates		N	N	0.00	0.00

Sector	Organization	Representative	Affiliate	Present	For	Against
Public Power - Environmental	Natural Resources Defense Council		N	N	0.00	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
Public Power - Environmental	Environmental Defense Fund		N	N	0.00	0.00

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
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					✓Caletka, Patti	
Consolidated Edison Co. of NY, Inc.	Transmission Owners	✓Quin , Jane	Nachmias, Stuart	Hargett , Chris	Yu , Joel	Lazarus , Dana	Butterklee, Neil				
National Grid	Transmission Owners	Janzen , Margaret	Lodemore , David	✓Wilkie , Brian							
New York State Electric & Gas (NYSEG)	Transmission Owners	✓Caletka, Patricia	Lynch , Tim	✓Brophy , Richard							
Orange & Rockland Utilities, Inc.	Transmission Owners										
Rochester Gas and Electric Corp.	Transmission Owners	✓Caletka, Patricia	Lynch , Tim	✓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					
Association for Energy Affordability	Small Consumer	Strauss , Valerie	Hepinstall, David	Farmer , Miles							
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	✓Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda					
Fordham University	Small Consumer	Luthin, Catherine	✓Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda					
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	✓Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda					
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	✓Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda					
New York University	Small Consumer	Luthin, Catherine	✓Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda					
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	Hogan , Erin	✓Montalvo , Marc	Loiacono , Matthew	O'Hare , Katie						
City of New York	Government Small Consumer and Retail Aggregate	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda						✓Tedesco, Devyln	
NYS Energy Research & Dev. Authority	Government Small Consumer and Retail Aggregate	✓Hall , Christopher	Matteson , Schuyler	Mas , Carl	Coup, David						
Long Island Power Authority	State Power Authorities	✓Clarke, Dave	Wilczek , Mariann								
New York Power Authority	State Power Authorities	✓Antinori , Andrew	Michaels , Alan	Cordi , John	Kane , James	✓Mahoney , Daniel					
Bath Electric, Gas & Water Systems	Municipalities and Coops	Bonacci , Erin	✓Wentlent, Chris	Cordeiro, Mark							
Freeport Electric	Municipalities and Coops	Livingston , Al	Rudebusch, Tom	Fiore , Chris							
Jamestown Board of Public Utilities	Municipalities and Coops	Sellstrom , Kris	Leathers, David	Allen , Cory	Rudebusch, Tom						
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							
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	Fink , Sari	Reeder , Mark	Reynolds , Anne	Beck , Betsy	Grace , Gene	McIntire , Natalie				
Environmental Advocates	Environmental	Bambrick , Conor	Farmer , Miles	Morris, Jackson							
Environmental Defense Fund	Environmental	Christian , Rory	Stein , Elizabeth	Panfil , Michael							
Natural Resources Defense Council	Environmental	Farmer , Miles	Morris, Jackson	De Costanzo , Donna							
PACE Energy & Climate Center	Environmental	Musgrove , Sheryl	Taylor , Geordi	Farmer , Miles							
Riverkeeper	Environmental	Webster , Richard	Morris, Jackson	Farmer , Miles							
AES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswamy , Kiran								
Able Grid Energy Solutions, Inc.	Non Voting	Lines , Sam	Mills , Sara								
Acadia Center	Non Voting	✓Howe , Cullen	Donovan , Deborah								
Alliance for Clean Energy New York	Non Voting	Reynolds , Anne	Dufresne , Zach	Reeder , Mark							
Anbaric Development Partners, LLC	Non Voting	Kosel , Howard	Sanderson , Bryan	Knobloch , Kevin	Bruno , Clarke						
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							
Cubit Power One Inc.	Non Voting	Powell , Alan	Powell , Leighton	Singer, Leonard							
Customized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓Ackerman, Alan						
Cypress Creek Renewables	Non Voting	Kohlstedt, Kevin	Kemp , Melissa	Seavo , Marisa							
Ecesis LLC	Non Voting	Wu , Brian									
Energya VM	Non Voting	Garcia , Francisco	Maeso , Manual	Lopez , Ana	Corvillo , Cristina						

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Fluent Energy	Non Voting	Acampora , Peter	Doll , Ed								
GI Energy	Non Voting	Falcier , Peter	Robinson , James								
Highview Power Storage, Inc.	Non Voting	Robson , Paul	Riley , Richard								
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	Bialek , Sylwia	Gundlach , Justin						
Key Capture Energy	Non Voting	Fitzgerald , Dan	Bishop , Jeff								
LS Power Grid NY	Non Voting	Willick , Lawrence	York , Joshua	Hayes , Patrick							
MAG Energy Solutions, Inc.	Non Voting	Pelletier , Simon	VeZina, Alexandre								
NRG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan , Malcolm	Pieniasek, 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									
Northeast Clean Heat & Power Initiative	Non Voting	Melpignano , Kristin	Brown, Ruben	✓Cinadr , Matt	Dwyer , Herb	Lillian , Jon					
Northline Utilities LLC	Non Voting	McKinney , Jeff	Danskin , Susan								
NuEnergien	Non Voting	Hamilton , Sandy	Korczykowski , Ryan								
Plus Power, LLC	Non Voting	Fraenkel , Alex									
RBC Energy Services, LP	Non Voting	Rigby , Angus	Everhardt , Brandon								
RENEW Northeast	Non Voting	Pullaro , Francis	Krich , Abigail								
Richard P. Felak	Non Voting	Felak, Rich									
STEM, Inc.	Non Voting	Ko , Ted	Bellacicco , John								
Saracen Energy East LP	Non Voting	Peebles , Andy	Miller , Jason								
Savion, LLC	Non Voting	✓Doering , Anthony	Sunderman , Derek								
Siemens Energy, Inc.	Non Voting	Feltes , James									
Taylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page , Allan								
Teichos Energy, LLC	Non Voting	Maclearnsberry , Kirk	VanCoevering , Darrel								
Tesla, Inc.	Non Voting	Watson , Betty	Gonzales , Carlos	Van Cleve , Sarah							
TransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis , Ted	Abend , Erik								
Transmission Developers Inc.	Non Voting	Jessome , Donald	Helmer , William	Harrison , Bob							
Transource New York, LLC	Non Voting	Burkholder , Joshua									
Wheelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti , Jim								
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					