
NYISO Business Issues Committee Meeting Minutes
November 9, 2021
10:00 a.m. – 12:30 p.m.

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

Mr. John Marczewski (East Coast Power) called the meeting to order at 10:00 a.m. The members of the BIC identified themselves and attendance was recorded. A quorum was determined.

2. Draft October 13, 2021 BIC Minutes

There were no questions or comments regarding the draft minutes from the October 13, 2021 BIC meeting included as part of the meeting material.

Motion #1:

Motion to approve the October 13, 2021 BIC meeting minutes.

Motion passed unanimously.

3. Market Operations Report

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

4. Co-Located Storage Resource Participation Model: Manual Revisions

Ms. Amanda Myott (NYISO) reviewed the presentation included with the meeting material.

Mr. Howard Fromer (Bayonne Energy Center) requested a status update regarding the supplemental tariff revisions recently approved by stakeholders related to clarifying the application of the scheduling limits for co-located storage resources. Mr. Alex Schnell (NYISO) stated that the proposed tariff revisions will be reviewed at the November 2021 NYISO Board of Directors meeting and, assuming approval by the Board of Directors, will be filed with FERC promptly thereafter. Mr. Schnell further noted that the filing to FERC will include a request for authority to implement the proposed tariff revisions in December 2021.

Motion #2:

The Business Issue Committee (“BIC”) hereby approves the revisions to the Installed Capacity Manual, Ancillary Services Manual, Day Ahead Scheduling Manual, and Transmission and Dispatch Operations Manual, regarding the updates required for the implementation of the Co-located Storage Resources Participation model, as described in the presentation titled “Manual Updates for the Co-located Storage Resources (CSR) Participation Model”, made to the BIC on November 09, 2021. The applicable revisions approved by the BIC shall become effective upon implementation of the Co-located Storage Resources participation model.

Motion passed unanimously.

5. Comprehensive Mitigation Review

Mr. Mike DeSocio (NYISO) reviewed the presentation included with the meeting material.

Mr. Kevin Lang (Couch White) noted that certain stakeholders have raised concerns throughout the discussion of the proposal regarding the need for linking the proposed changes to the Installed Capacity market buyer-side mitigation rules and the proposed enhancements to the capacity accreditation rules. Mr. DeSocio stated that the analysis conducted during the stakeholders discussions related to the potential market and consumer impacts of the proposal were designed to account for the combined effects of both the proposed changes to the Installed Capacity market buyer-side mitigation rules and the proposed enhancements to the capacity accreditation rules.

Mr. Fromer noted that other markets, such as PJM, have also pursued capacity accreditation enhancements as part of an overall process of seeking to implement changes to its minimum offer price rules. Mr. Michael Macrae (ENELX) noted that contrary to the actions taken by PJM, ISO-NE is pursuing changes to its minimum offer price rules without corresponding changes to its capacity accreditation rules. Mr. DeSocio noted that the capacity market structures in PJM and ISO-NE are different than NYISO's Installed Capacity market. Mr. DeSocio further stated that the proposal has been developed to address the market rules and structure in New York.

Mr. Lang asked whether the prior efforts undertaken with stakeholders to pursue potential changes to the "Part A" test of the Installed Capacity market buyer-side mitigation rules are mooted by the Comprehensive Mitigation Review proposal. Mr. DeSocio and Shaun Johnson (NYISO) stated that the Comprehensive Mitigation Review proposal, if approved, would largely address the intended enhancements sought through the previously considered changes to the "Part A" test of the Installed Capacity market buyer-side mitigation rules.

Mr. Lang asked for additional information regarding potential impacts of utilizing a marginal capacity accreditation methodology instead of an average methodology on the statewide installed reserve margin (IRM). Mr. Zach T. Smith (NYISO) noted that the analysis conducted by the Market Monitoring Unit (MMU) assumed different generation resource fleets in assessing the marginal and average capacity accreditation methodologies. Mr. Zach T. Smith further noted the resource fleet assumed by the MMU when assessing the marginal capacity accreditation approach was comprised of resources that generally provide a higher contribution to maintaining reliability and thereby resulted in a lower IRM compared to the resource fleet assumed by the MMU in assessing the average capacity accreditation approach.

Ms. Doreen Saia (Greenberg Traurig) expressed appreciation for the NYISO's efforts to develop additional tariff language regarding the certification process for Excluded Facilities, but noted continuing concerns regarding such proposed tariff language. Ms. Saia, therefore, recommended further discussion of the proposed certification process in advance of seeking stakeholder action at the Management Committee.

Mr. Lang recommended consideration of scheduling an Installed Capacity Working Group meeting prior to the Management Committee to further discuss any additional questions or concerns regarding the draft tariff revisions related to the proposal. Ms. Saia noted support for the request to schedule an Installed Capacity Working Group meeting prior to the Management Committee to further review and discuss the proposed tariff revisions related to the proposal.

Mr. Lang asked for clarification regarding the proposed deadline by which Excluded Facilities would need to submit the proposed certification form. Mr. Johnson stated that for resources in a Class Year, the proposed Excluded Facility certification form would be due by the official start date of the Class Year. Mr. Johnson further noted that the proposed deadline for submitting the Excluded Facility certification form is consistent with the deadline established for similar certification forms that may be required pursuant to the Installed Capacity market buyer-side mitigation rules.

Mr. Fromer asked whether the derating factor for the peaking plant underlying each ICAP Demand Curve is fixed for the four-year reset period or if this factor is changed annually as part of the annual update procedures for the ICAP Demand Curves. Mr. Zach T. Smith stated that the derating factor for the peaking plant underlying each ICAP Demand Curve is established as part of the reset process and remains fixed for the four-year reset period.

Mr. Lang asked for clarification regarding the assessment of financial risk in future ICAP Demand Curve resets as it relates to the Comprehensive Mitigation Review proposal if ultimately approved and implemented. Mr. DeSocio stated that the intent is to ensure that the independent consultant is informed of the market rule changes related to the proposal for its consideration as part of the future resets and, in collaboration with stakeholders, consider such rule changes as part of assessing development risk faced by the hypothetical peaking plant used in establishing each ICAP Demand Curve.

Ms. Saia asked for further clarification regarding the additional phases proposed for the development of the detailed procedures and modeling necessary to implement the proposed marginal capacity accreditation approach. Mr. DeSocio stated that the current expectation is to commence phase 2 of the capacity accreditation methodology implementation plan in early 2022 with a focus on developing the detailed procedures for conducting a marginal effective load carrying capability (ELCC) analysis to determine the appropriate capacity accreditation factors for the various resource classes. Mr. DeSocio further noted that the efforts in 2022 are also intended to produce indicative capacity accreditation factors using the proposed marginal ELCC approach.

Ms. Saia asked whether an underlying premise of the proposed capacity accreditation enhancements is to recognize that, in light of the ongoing transformation of the resource mix in response to the State's environmental and energy policy objectives, changes to capacity accreditation rules are needed to appropriately recognize that the reliability contribution of capacity is not equal for all types of resources. Mr. DeSocio stated that the intent of the proposed enhancements to the capacity accreditation rules is to seek to ensure that the rules provide for an appropriate assignment of capacity value that reflects the reliability value of various types of capacity supply resources.

Mr. Jay Brew (Nucor) asked for clarification regarding how resources will be categorized for purposes of determining capacity accreditation factors. Mr. DeSocio noted that the development of appropriate resource classes is anticipated to be part of the work efforts to be undertaken in collaboration with stakeholder in 2022. Mr. DeSocio stated that identifying resource attributes that meaningfully impact the reliability value of different types of capacity will be important in determining appropriate resources classes.

Mr. Brew asked for further clarification regarding whether capacity accreditation factors will be determined based on location. Mr. DeSocio stated that resource location will be an important consideration in determining appropriate classifications of resources to assess for purposes of determining capacity accreditation factors. Ms. Erin Hogan (UIU) asked for clarification regarding whether the consideration of resource location for purposes of determining capacity accreditation factors could potentially be more granular than the currently existing capacity regions. Mr. DeSocio stated that considering the appropriate granularity of locations to assess for determining capacity accreditation factors should be further considered and informed by development of additional data as part of the further work efforts in 2022.

Mr. Scott Leuthauser (HQUS) recommended the need to consider the development of a transition rule to address the implementation of the Excluded Facility certification form for resources in the currently ongoing Class Year.

Mr. Liam Baker (Eastern Generation) asked whether the stakeholder approval being sought at this time presumes any requirement for further stakeholder approvals as part of the future phases to develop the detailed requirements to implement the proposed capacity accreditation enhancements. Mr. Lang and Ms. Saia stated that it is premature to know whether additional stakeholder approvals will be required as part of the development of the detailed requirements to implement the proposed enhancements to the capacity accreditation rules. Mr. Lang and Ms. Saia explained that the intent of the motion language is to clarify that stakeholders are approving the concepts described in the presentation with the tariff revisions relating thereto to be further reviewed and finalized prior to the Management Committee, while acknowledging that further detailed requirements to implement the capacity accreditation enhancements will be developed over the next few years prior to planned implementation of those enhancements for the 2024/2025 Capability Year.

Mr. Kevin Lang provided the following statement for inclusion in the minutes:

On behalf of the City of New York, the City appreciates that the NYISO has tried to work through the concerns raised by market participants in this matter and that some analysis has been performed. The City strongly supports BSM Reform and believes it is long overdue. The City also believes that narrowing the BSM rules does not need to be linked to capacity accreditation. Given the City's preference for restructuring the BSM rules to limit their applicability; because the NYISO's approach generally achieves the same result, the City supports the proposal.

With respect to capacity accreditation, the City is concerned about by the accelerated pace at which this matter went through the stakeholder process, observing that the original plans set forth by the NYISO provided for this matter to be considered separately from BSM Reform and not brought to a vote until Fall 2023, after analysis had been performed and discussed. Indeed, while there have been 17 meetings on this matter dating back to April, the proposal was first presented in August, and only a handful of the meetings involved substantive discussions of it – mostly within the past month or so. Notably, additional information was presented yesterday, and there has not been sufficient time to properly review and understand the analysis.

The City conceptually supports capacity accreditation, but a corollary concern to the accelerated pace is the potential for unintended consequences to arise. While the City does not believe there is reason to oppose the proposal at this time, it cannot yet support the proposal. The City will continue to review the information provided and may modify its position at the MC meeting.

Mr. Jay Goodman (Couch White) provided the following statement for inclusion in the minutes:

Multiple Intervenors opposes the Comprehensive Mitigation Review proposal at this time and will be voting against it today.

To ensure clarity regarding Multiple Intervenors' position, we would like the record to reflect that Multiple Intervenors fully supports the proposed Buyer-Side Mitigation reforms. Multiple Intervenors also has no objections to the ICAP/UCAP reference price translation being proposed. Thus, if the proposed Buyer Side Mitigation reforms were advanced for a vote in isolation, or in conjunction with the ICAP/UCAP reference price translation proposal, Multiple Intervenors would support that motion.

Multiple Intervenors' opposition to the Comprehensive Mitigation Review proposal relates solely to that part of the proposal relating to capacity accreditation. In short, we do not believe that the capacity accreditation proposal has been developed or vetted fully enough for approval at this time, and is being expedited inappropriately. Importantly, Multiple Intervenors is not inalterably opposed to modifying the NYISO's existing capacity markets to incorporate capacity accreditation at some point in time, and would be supportive of capacity accreditation continuing to be developed, analyzed, and vetted by stakeholders for future action.

Multiple Intervenors disagrees that capacity accreditation must be voted upon at the same time as, and linked inextricably to, Buyer-Side Mitigation reforms. More concerning, however, is the timing of this vote, prior to the capacity accreditation proposal being analyzed and understood fully by stakeholders. Issues relating to marginal versus average approaches, the impacts of capacity accreditation on different forms of existing fossil-fuel-fired facilities, the impacts of capacity accreditation on demand response resources, the impacts of capacity accreditation on total capacity market costs paid by consumers, the potential impacts associated with performing annual updates of capacity accreditation factors and the potential volatility in capacity market compensation associated therewith, for instance, all warrant further examination and vetting. It also is not at all clear to Multiple Intervenors precisely how the NYISO would conduct capacity accreditation if the instant motion is approved, the processes that would be followed, and the role – if any – that stakeholders would play in that process.

In our opinion, capacity accreditation represents the single biggest modification to the NYISO's capacity markets since the Demand Curves were introduced, and possibly since

the NYISO formed. Unfortunately, also in our opinion, today's proposal has been unduly rushed and requires further development, analysis, and vetting by stakeholders.

Mr. Raj Addepalli (ACE-NY) provided the following statement for inclusion in the minutes:

We appreciate and support NYISO's efforts to address the BSM issues that have been raised over a number of years, and agree that reform is needed on this issue with urgency ahead of the next Class Year study. We do not believe the BSM reform needs to be coupled with the Capacity Accreditation modifications at this time as proposed. We are supportive of necessary modifications to the Capacity Accreditation rules but further study and analysis is required before specific changes can be made to the Capacity Accreditation rules. As a result, we will abstain from the BIC vote today.

Mr. Chris Hall (NYSERDA) provided the following statement for inclusion in the minutes:

Thanks to the NYISO for all the work in developing this important proposal with elements that are important to state policy implementation. Given the choice before us today, NYSERDA will be supporting this proposal. Excluding policy resources from BSM is our main priority and we want it expedited for FERC approval. We do recognize that an accreditation project is needed and we look forward to that work continuing soon. We do have some sympathy for those who may believe we moved quickly through parts of the accreditation proposal we are voting on today. And regarding accreditation, we understand moving forward that NYISO and stakeholders will be pursuing consistent new accreditation methods for all resource types to the extent possible. We also believe that NYISO should and will remain collaborative during subsequent phases of this work. BSM needs to be removed from policy resources as NY consumers should not be made to double-pay for capacity and to help ensure that, we are supporting this proposal today.

Mr. Michael Macrae provided the following statement for inclusion in the minutes:

Enel X would like the minutes to reflect that we share and echo the sentiments expressed by the City of New York, Multiple Interveners, ACE-NY, and NRDC. We support the removal of Buyer Side Mitigation (BSM), but oppose the amendment today as provided by the NYISO on the grounds that it should not link BSM with capacity accreditation. The analysis to date supporting the NYISO's rushed decision to adopt a marginal capacity accreditation methodology is woefully incomplete and in light of the timeline established by the NYISO to implement these changes we believe there is still sufficient time to continue to evaluate the most appropriate capacity accreditation methodology. If adopted, these changes may lead to the NYISO wholesale markets no longer providing a meaningful price signal for the new and existing resources necessary to achieve the State's energy policy objectives.

Mr. John Brodbeck (EDP Renewables) expressed support for, and agreement with, the comments of ENEL X.

Mr. DeSocio stated that the proposal was developed in response to an overarching concern raised by regulators and certain stakeholders that the current Installed Capacity market buyer-side mitigation rules may erect unnecessary barriers to the achievement of the state's environmental and energy policy objectives. Mr. DeSocio further noted appreciation for the efforts of stakeholders in collaborating on the development of the proposal. Mr. DeSocio stated that the NYISO supports the proposal and views it to be a reasonable and balanced set of market enhancements in response to the concerns raised regarding the sustainability of the current Installed Capacity buyer-side mitigation rules.

Motion #3:

The Business Issues Committee (“BIC”) hereby recommends that the Management Committee (“MC”) approve changes to the Installed Capacity market buyer-side mitigation rules, Installed Capacity market capacity accreditation rules, and certain other Installed Capacity market procedures as these concepts are more fully described in the presentation “Comprehensive Mitigation Review” made to the BIC on November 9, 2021. With respect to implementing changes to the Installed Capacity market capacity accreditation rules, a three-phase approach is described in the aforementioned presentation, and the BIC recommends that the NYISO should pursue the additional phases as reflected in the presentation related to the more detailed procedures for such changes in the stakeholder process prior to implementation thereof.

Motion passed with 76.13% affirmative votes.

6. Working Group Updates

- **Billing and Accounting and Credit Working Group:** The group met on October 21, 2021 and reviewed: (1) the standard accounting/settlement reports; and (2) an overview of the settlement processes for distributed energy resources participating in the wholesale markets.
- **Electric System Planning Working Group:** The group met on October 25, 2021 and reviewed: (1) a presentation by Central Hudson regarding updates to its local transmission plan; (2) a presentation by NYPA regarding updates to its local transmission plan; (3) key study assumptions for the short-term assessment of reliability study for Q4 2021; (4) the draft report for the 2021-2030 Comprehensive Reliability Plan; and (5) study assumptions related to the ongoing 2021-2040 System & Resource Outlook study.
- **Installed Capacity Working Group:** The group has met jointly with MIWG and/or PRLWG five times since the last BIC meeting. On October 18, 2021, the group met and reviewed: (1) proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules; (2) the proposed methodology for conducting a consumer impact analysis related to the proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules; and (3) a presentation by the Market Monitoring Unit (MMU) providing an overview of the methodology it will use to conduct an impact assessment of the proposed enhancements to capacity accreditation rules. The group met on October 22, 2021 and reviewed: (1) proposed revisions to the Installed Capacity Manual related to the co-located storage resource participation model; and (2) a presentation by Analysis Group regarding updated results and a draft study report for its assessment of potential market impacts related to proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules. The group met on October 29, 2021 and reviewed proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules. On November 2, 2021, the group met and reviewed: (1) the consumer impact analysis related to the proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules; and (2) a presentation by the MMU regarding the results of its impact assessment related to the proposed enhancements to capacity accreditation rules. The group also met on November 8, 2021 and reviewed: (1) updates to the study report by Analysis Group regarding its assessment of the potential market impacts related to proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules; (2) proposed reforms to the buyer-side Installed Capacity market mitigation rules and related enhancements to capacity accreditation rules; and (3) an overview of the NYISO's planned response to the additional information request issued by FERC regarding the NYISO's compliance filing related to FERC Order No. 2222.
- **Load Forecasting Task Force:** The group has met twice since the last BIC meeting. On October 21, 2021, the group held its annual Fall Economic Conference reviewing national and New York economic outlook reports by Moody's Analytics. At the October 21, 2021 meeting, the group also reviewed the impacts of the ongoing COVID-19 pandemic on load patterns and energy consumption. The group also met on November 3, 2021 and reviewed preliminary 2021 weather normalized peak loads for use in developing the 2022/2023 Capability Year capacity market peak load forecast.
- **Market Issues Working Group:** The group has met jointly with ICAPWG and PRLWG twice since the last BIC meeting. The group met on October 22, 2021 and reviewed proposed manual revisions (i.e., Ancillary Services Manual, Day-Ahead Scheduling Manual, and Transmission and Dispatch Operations Manual) related to the co-

located storage resource participation model. The group also met on November 8, 2021 and reviewed: (1) an overview of the NYISO's planned response to the additional information request issued by FERC regarding the NYISO's compliance filing related to FERC Order No. 2222; (2) survey results related to the upcoming Spring 2022 Centralized TCC Auction; and (3) the proposed methodology for conducting a consumer impact analysis regarding the ongoing study related to the Reserve Enhancements for Constrained Areas project.

- Price Responsive Load Working Group: The group has met jointly with ICAPWG and/or MIWG five times since the last BIC meeting (i.e., October 18, 2021, October 22, 2021, October 29, 2021, November 2, 2021, and November 8, 2021). At each meeting, the group reviewed the agenda topics related to distributed energy resources, energy storage resources and/or the NYISO-administered demand response programs.

7. New Business

There was no new business

Meeting adjourned at 12:30 p.m.

Business Issues Committee Meeting

November 9, 2021

Final Motions

Motion #1:

Motion to approve the Minutes of the October 13, 2021 BIC meeting.

Motion passed unanimously.

Motion #2:

The Business Issue Committee (“BIC”) hereby approves the revisions to the Installed Capacity Manual, Ancillary Services Manual, Day Ahead Scheduling Manual, and Transmission and Dispatch Operations Manual, regarding the updates required for the implementation of the Co-located Storage Resources Participation model, as described in the presentation titled “Manual Updates for the Co-located Storage Resources (CSR) Participation Model”, made to the BIC on November 09, 2021. The applicable revisions approved by the BIC shall become effective upon implementation of the Co-located Storage Resources participation model.

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Motion #3:

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Motion passed with 76.13% affirmative votes.

New York Independent System Operator

Business Issues Committee - November 09, 2021

Motion: Motion #Motion Split

Result: Motion Passed

Sector with base percent	%	Active	Quorum	Adj. Percent	For	Against	Abstain	% For	% Against	
Generation Owners	21.50	✓	✓	21.50	8.33	1.67	4.00	17.91	3.59	
Other Suppliers	21.50	✓	✓	21.50	7.00	2.00	6.00	16.72	4.78	
Transmission Owners	20.00	✓	✓	20.00	4.00	0.00	0.00	20.00	0.00	
End Use Consumer			✓							
Large Consumer	9.00	✓		9.00	0.00	5.00	0.00	0.00	15.50	
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	5.00	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	1.00	0.00	1.00	1.80	0.00	
Public Power			✓							
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	3.00	0.00	0.00	
				5	100.00	34.33	8.67	19.00	76.13	23.87
					100.00	Normalize to 100% :		76.13	23.87	

New York Independent System Operator

Business Issues Committee - November 09, 2021

Motion: Motion #Motion Split

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	Ashley, Leonard	N	Y	1.00	0.00
Generation Owners	Calpine	Ashley, Leonard	N	Y	1.00	0.00
Generation Owners	East Coast Power, LLC	Pieniasek, Marie	N	Y	0.33	0.67
Generation Owners	Entergy Nuclear Northeast	Saia, Doreen	N	Y	0.00	0.00
Generation Owners	Innovative Energy Systems		Y	N	0.00	0.00
Generation Owners	CPV Valley LLC		Y	N	0.00	0.00
Generation Owners	Selkirk Cogen Partners, LP	Ashley, Leonard	N	Y	1.00	0.00
Generation Owners	EDP Renewables North America LLC	Brodbeck, John	N	Y	0.00	1.00
Generation Owners	Cricket Valley Energy Center		Y	N	0.00	0.00
Generation Owners	Invenergy Energy Management LLC	Bangston, Kaley	N	Y	0.00	0.00
Generation Owners	National Grid Generation LLC		Y	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	Galarneau, Kenneth	N	Y	1.00	0.00
Generation Owners	Cypress Creek Renewables	Addepalli, Raj	N	Y	0.00	0.00
Generation Owners	Danskammer Energy, LLC	Ashley, Leonard	N	Y	1.00	0.00
Generation Owners	Empire Generating Co, LLC		Y	N	0.00	0.00
Generation Owners	Covanta Niagara, LP	Ashley, Leonard	N	Y	1.00	0.00
Generation Owners	Key Capture Energy		N	N	0.00	0.00
Generation Owners	GlidePath Power Solutions LLC		N	N	0.00	0.00
Generation Owners	North East Offshore, LLC		N	N	0.00	0.00
Generation Owners	Borrego Solar Systems, Inc.	Addepalli, Raj	N	Y	0.00	0.00
Generation Owners	Valcour Wind Energy LLC		N	N	0.00	0.00
Generation Owners	GenOn Bowline, LLC	Younger, Mark	N	Y	1.00	0.00
Generation Owners	MPH Rockaway Peakers, 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	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		N	N	0.00	0.00
Other Suppliers	DTE Energy		N	N	0.00	0.00
Other Suppliers	Energy Spectrum		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.	Fitch, Neal	N	Y	0.00	0.00
Other Suppliers	Ontario Power Generation, Inc.		N	N	0.00	0.00
Other Suppliers	Exelon Generating Co. LLC	Barlette, Richard	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	Saia, Doreen	N	Y	0.00	0.00
Other Suppliers	BP Energy Company	Ackerman, Alan	N	Y	0.00	0.00
Other Suppliers	NextEra Energy	Dietrich, Cheryl	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

Sector	Organization	Representative	Affiliate	Present	For	Against
Other Suppliers	Riverbay Corporation		N	N	0.00	0.00
Other Suppliers	Castleton Commodities Merchant Trading L.P.	Ashley, Leonard	N	Y	1.00	0.00
Other Suppliers	Direct Energy Business Marketing, LLC		Y	N	0.00	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		N	N	0.00	0.00
Other Suppliers	XO Energy NY, LP		N	N	0.00	0.00
Other Suppliers	Dynergy Marketing and Trade	Ashley, Leonard	N	Y	1.00	0.00
Other Suppliers	Brookfield Energy Marketing L.P.	LaRoe, Chris	N	Y	0.00	0.00
Other Suppliers	Eastern Generation	Baker, Liam	N	Y	1.00	0.00
Other Suppliers	ENGIE Energy Marketing NA, Inc.	Macrae, Michael	N	Y	1.00	0.00
Other Suppliers	Stephentown Spindle, LLC		N	N	0.00	0.00
Other Suppliers	ENEL X	Macrae , Michael	N	Y	0.00	1.00
Other Suppliers	Energy Technology Savings Inc. d/b/a Logical Buildings		N	N	0.00	0.00
Other Suppliers	Consolidated Edison Energy, Inc.		Y	N	0.00	0.00
Other Suppliers	COI Energy Services, Inc.		N	N	0.00	0.00
Other Suppliers	Rodan Energy Solutions (USA) Inc.		N	N	0.00	0.00
Other Suppliers	Centrica Business Solutions Optimize, LLC	Breidenbaugh, Aaron	N	Y	0.00	1.00
Transmission Owners	New York State Electric & Gas (NYSEG)	Caletka, Patricia	N	Y	1.00	0.00
Transmission Owners	Central Hudson Gas & Electric Corp.	Chan, Ting	N	Y	1.00	0.00
Transmission Owners	Consolidated Edison Co. of NY, Inc.	Lazarus, Dana	N	Y	1.00	0.00
Transmission Owners	National Grid	Janzen, Margaret	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	Lang, Kevin	N	Y	0.00	1.00
End Use - Large Consumer	Occidental Chemical Corp.	Lang, Kevin	N	Y	0.00	1.00
End Use - Large Consumer	Wegmans Food Markets	Lang, Kevin	N	Y	0.00	1.00
End Use - Large Consumer	Nucor Steel Auburn, Inc.	Brew, James	N	Y	0.00	1.00
End Use - Large Consumer	Alcoa, Inc.	Lang, Kevin	N	Y	0.00	1.00
End Use - Large Cons. Gov. Agency	Metropolitan Transportation Authority		N	N	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 - 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	0.00	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	Reeder, Mark	N	Y	0.00	0.00
Public Power - Environmental	Environmental Advocates	Murray, Frank	N	Y	0.00	0.00

Sector	Organization	Representative	Affiliate	Present	For	Against
Public Power - Environmental	Natural Resources Defense Council	Murray, Frank	N	Y	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
Public Power - Environmental	New York City Environmental Justice Alliance		N	N	0.00	0.00

New York Independent System Operator - Committee Membership

Business Issues Committee - November 09, 2021 - WebEx - 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					✓ Ashley, Leonard	
Bayonne Energy Center, LLC	Generation Owners	Allman, Ellen	✓ Fromer, Howard								
Borrego Solar Systems, Inc.	Generation Owners	Delaney, Liz	Conway, Michael	Cox-Arslan, Kathryn	Brigandi, Michael	Kale, Mrinmayee	Miralda, Jessica			✓ Addepalli, Raj	
CPV Valley LLC	Generation Owners	Jerke, Dan	Rumsey, Tom	Litchfield, Matt							
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve					✓ Ashley, Leonard	
Covanta Niagara, LP	Generation Owners	Burke, David	Abbott, Sharon							✓ Ashley, Leonard	
Cricket Valley Energy Center	Generation Owners	Davis, Charles	✓ Wallenstein, Arnold	✓ Paryl, Ron							
Cypress Creek Renewables	Generation Owners	Kemp, Melissa	Silliman, Keith	Scavo, Marisa						✓ Addepalli, Raj	
Danskammer Energy, LLC	Generation Owners	Reid, William	Cada, Eric							✓ Ashley, Leonard	
EDP Renewables North America LLC	Generation Owners	✓ Brodbeck, John	Loturco, Thomas	High, Jeremy	Priemer, Dustin	Zhang, Kathy					
East Coast Power, LLC	Generation Owners	✓ Pieniasek, Marie	McEachern, Ben	Moore, Kyle	O'Brien, John	Franzetti, Paul	✓ Marczewski, John				
Empire Generating Co, LLC	Generation Owners	Morris, Chandler	Maida, Jeff	Hudson, Daniel							
Entergy Nuclear Northeast	Generation Owners	Dell Orto, Ken	✓ Saia, Doreen	Bergeron, John							
GenOn Bowline, LLC	Generation Owners	✓ Younger, Mark	Rutz, Shaun	Sacks, Jon	Freysinger, Dave						
GlidePath Power Solutions LLC	Generation Owners	McKissack, Chris	Baur, Sean	Vickery, Chris	Labij, Denis	Braun, Gary					
Helix Ravenswood LLC	Generation Owners	D'Andrea, James	✓ Galarneau, Kenneth	Toomey, Peter							
Howard Wind LLC	Generation Owners	Smith, David	Brocks, Annette	Rohrbach, John							
Indeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	✓ Younger, Mark								
Innovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
Invenergy Energy Management LLC	Generation Owners	✓ Bangston, Kaley	Goldstein, Michael	Orzel, Chris							
Key Capture Energy	Generation Owners	Goldwasser, Rachel	Musher, Daniel	Fitzgerald, Dan							
MPH Rockaway Peakers, LLC	Generation Owners	Preedy, James	Telford, Kevin	Mann, Michael							
National Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe, Brian								
North East Offshore, LLC	Generation Owners	Reynolds, Melissa									
Selkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy								✓ Ashley, Leonard	
Valcour Wind Energy LLC	Generation Owners	Sherman, Chris	Dowd, Robert	Vincent, Martin							
BJ Energy LLC	Other Suppliers	Ni, Bing	Lee, George								
BP Energy Company	Other Suppliers	Ellis, Dean	Chintapalli, Raj	✓ Ackerman, Alan							
Brookfield Energy Marketing L.P.	Other Suppliers	✓ LaRoe, Chris	Talamo, Marco	Dziedzic, Tomasz	Madonna, Phil						
COI Energy Services, Inc.	Other Suppliers	Berrien, SaLisa	Rabinowitz, Jake								
Castleton Commodities Merchant Trading L.P.	Other Suppliers	Miraval, Marissa	Stuss, Gordon							✓ Ashley, Leonard	
Centrica Business Solutions Optimize, LLC	Other Suppliers	✓ Breidenbaugh, Aaron									
Citigroup Energy Inc.	Other Suppliers	Gollomp, Jeffrey	Bisaria, Shikher								
Consolidated Edison Energy, 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	Tate, Matthew	Milberg, Sadao	Feng, Fan						
DTE Energy	Other Suppliers	German, Robert	Pakela, Gregory								
Direct Energy Business Marketing, LLC	Other Suppliers	Carrier, Ron	Morris, Sandra								
Dynegy Marketing and Trade	Other Suppliers	Weinstein, Andrew	Allen, Sean							✓ Ashley, Leonard	
ENEL X	Other Suppliers	✓ Macrae, Michael	Geller, Greg								
ENGIE Energy Marketing NA, Inc.	Other Suppliers	Bresolin, Sarah	Levine, Jeffrey	Hawkins, Darin						✓ Macrae, Michael	
Eastern Generation	Other Suppliers	✓ Baker, Liam	Reese, John	✓ Younger, Mark	✓ Schwall, Matthew	Johnson, David	Wolcott, Tyler	✓ Ashley, Leonard			
Energy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas, Cristina	Cinadr, Matt		
Energy Technology Savings Inc. d/b/a Logical Buildings	Other Suppliers	Hendler, Jeff	Ross, Valerie								
Exelon Generating Co. LLC	Other Suppliers	✓ Barlette, Richard	✓ Kirk, Steven								
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								
Mercuria Energy America, Inc.	Other Suppliers	Davis, Andrew	✓ Younger, Mark	Gross, Jordan							
Morgan Stanley Capital Group, Inc.	Other Suppliers	Kochonies, Karen	Meditz, Alex	Grimes, Jordan							
NRG Power Marketing Inc.	Other Suppliers	✓ Fitch, Neal	Popova, Julia	Hsia, Jennifer	Cona, Lisa	Kranz, Bradley					
New York Transco	Other Suppliers	Mullin, Victor	Caso, Rob	Carrigan, Kathleen	Haering, Paul						
NextEra Energy	Other Suppliers	Gardner, Michelle	✓ Dietrich, Cheryl	Hollis, Gabriel							
Ontario Power Generation, Inc.	Other Suppliers	Lauritsen, Kim									
PSEG Energy Resource & Trade, LLC	Other Suppliers	Stallings, Eric	DePillo, Raymond	Cimino, David	Dillon, George						

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Bruce Power	Non Voting	Jain , Anshul	Meyer , Sandra								
CPower	Non Voting	✓Dotson-Westphalen , Peter	Hourihan , Michael	Damaskos , Deno	Campbell , Bruce						
Caithness Energy LLC	Non Voting	Keevill , Gary	Alvarez , Asavari	Garber, Mitchell							
Calpine Energy Solutions	Non Voting	Sun , Jungsuk	Nakhonthap , Jade	Sunga , Leonard							
ConnectGen East, LLC	Non Voting	Rieman , Derek	Nash , Colleen	Turner , Becky							
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						
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	Gundlach , Justin	Ladin , Sarah							
LS Power Grid NY	Non Voting	Willick , Lawrence	✓Lundin , Tim	Brau , Brian	York , Joshua						
Lockport Energy Assoc.	Non Voting	Gesicki , Thomas	Youngberg , Mar y								
Lyonsdale Biomass, LLC	Non Voting	Ralston , William	Hebel , Nathan	Carrigan , Kathleen							
MAG Energy Solutions, Inc.	Non Voting	Pelletier , Simon	Vezina, Alexandre								
Marathon Energy	Non Voting	Nichols , Jim	Yeager , Keith								
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	Stankovski , Maryann	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					
NuErgen	Non Voting	Hamilton , Sandy	Korczykowski , Ryan								
Plus Power, LLC	Non Voting	Fraenkel , Alex									
RENEW Northeast	Non Voting	Pullaro , Francis	Krich , Abigail								
Richard P. Felak	Non Voting	Felak, Rich									
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	Van Cleve , Sarah	Gilfenbaum , Eliah								
TransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis , Ted	Abend , Erik								
Transmission Developers Inc.	Non Voting	Jessome , Donald	Helmer , William	Harrison , Bob	Coxe , Raymond						
Transource New York, LLC	Non Voting	Rupert , David	Cundiff , Robert								
Voltus, Inc.	Non Voting	Guernsey , Dana	Amores , Angel	Fan , Jianing	Bates-Wannop , Allison						
Wheelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti , Jim								
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					