NYISO Business Issues Committee Meeting Minutes November 6, 2019 10:00 a.m. – 12:10 p.m.

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

Mr. Chris Wentlent (MEUA) called the meeting to order at 10:00 a.m.

2. Market Operations Report and Broader Regional Markets Report

Mr. Rana Mukerji (NYISO) stated that due to the early timing of the meeting within the month, the Market Performance Highlights were not yet available for review. It was further noted that the Market Operations Report would be posted as part of the meeting material once available.

Mr. Mukerji reviewed the Broader Regional Markets report included with the meeting material. There were no questions or comments regarding the Broader Regional Markets report.

3. BIC Vice Chair Election for 2019-2020

Mr. Matthew Schwall (IPPNY) was elected to serve as the BIC Vice Chair for the 2019-2020 term.

4. More Granular Operating Reserves

Ms. Ashley Ferrer (NYISO) reviewed the presentation included with the meeting material.

Mr. Howard Fromer (PSEG) asked whether the proposed load pocket reserve requirements are seeking to provide a more targeted distribution of the locations within which to hold 800 MW of the total 1,000 MW 30-minute reserve requirement for Load Zone J. Ms. Ferrer confirmed that the proposed load pocket reserve requirements are intended to provide price signals regarding more targeted locations for holding a portion of the 30-minute reserve requirement applicable to Load Zone J.

Mr. Fromer requested further information regarding the set of resources the NYISO is proposing to audit as part of the enhancements to its reserve provider audit process. Ms. Ferrer (NYISO) stated that, going forward, the NYISO will seek to audit all resources qualified to provide 10-minute or 30-minute reserves at least once per year.

Mr. Michael Cadwalader (Atlantic Economics) stated that assessing performance of reserve providers solely based on performance during audits is insufficient. Mr. Cadwalader further stated that it is necessary to supplement the assessment of audit performance with an analysis of actual performance of reserve providers during reserve pickup events. Ms. Ferrer stated that the NYISO is currently analyzing reserve pickup event performance and working to distill this information into a format to facilitate the review thereof with stakeholders. She also noted that a preliminary review of the reserve pickup performance from the Summer 2019 Capability Period demonstrated that resources activated during reserve pickup events provided approximately 98% of the expected MW capability. Mr. Cadwalader replied that the NYISO should refrain from drawing conclusions about the need for potential changes to the current reserve payment structure until data addressing reserve provider performance during reserve pickup events has been reviewed with stakeholders.

Mr. Fromer asked for confirmation that project plan for 2020 does not currently anticipate implementation of the proposed load pocket reserve requirements in 2020. Ms. Ferrer stated that, currently, the 2020 project plan does not include implementation of the load pocket reserves during 2020. Ms. Ferrer further noted that the NYISO is continuing to evaluate the potential timeframe that would be practicable for seeking to implement the proposed load pocket reserve requirements.

Ms. Amanda Trinsey (Couch White) stated that the market design for the load pocket reserves should not be considered finalized/complete prior to conducting a consumer impact analysis for the proposal. Mr. Michael DeSocio (NYISO) stated

that the NYISO is committed to conducting a consumer impact analysis of the proposed load pocket reserve requirements prior to seeking stakeholder approval thereof.

Mr. Cadwalader requested that the consumer impact analysis for the proposed load pocket reserves include an assessment of how often the proposed load pocket reserve requirements could result in the commitment of MW in excess of the needs to meet the Local Reliability Requirements (LRRs), as well as the extent to which the proposed load pocket reserve requirements could result in insufficient MW commitments to satisfy the LRRs.

5. Class Year and Interconnection Process Enhancements

Mr. Thinh Nguyen (NYISO) reviewed the presentation included with the meeting material.

Mr. Mark Younger (Hudson Energy Economics) asked for further information regarding the timeline for the NYISO to provide information to stakeholders regarding the finalized set of projects included in Class Year 2019. Mr. Nguyen stated that the NYISO is currently targeting to finalize membership in Class Year 2019 by the end of November 2019.

Mr. David Clarke (LIPA) asked whether the proposed clarification to the Capacity Resource Interconnection Service (CRIS) expiration rules mandate that load modifiers become ICAP Suppliers directly participating in the wholesale capacity market. Mr. Nguyen stated that the proposed rules clarify the procedures for determining when CRIS rights expire, but do not include any mandate that load modifiers become ICAP Suppliers directly participating in the NYISO-administered capacity market.

Mr. Clarke asked for clarification regarding the time period that a project that obtains CRIS has to become operational before their CRIS rights expire. Mr. Nguyen stated that new resources would generally be required to begin operation within 4 years of obtaining CRIS or such previously awarded CRIS rights would be extinguished. In response, Mr. Clarke provided the following statement for the minutes:

One of the big picture issues [LIPA is] foreseeing as we move to achieve the goals of the CL&CPA is the ability to distinguish viable projects that have paid for upgrades versus projects that are not viable that have paid, as the cost of additional upgrades beyond those identified may be prohibitive and non-viable projects may be able to create a barrier for viable or required projects.

Mr. Mark Reeder (ACE-NY) sought confirmation that proposed rules addressing the timing for various studies does not prohibit a project from requesting a Facilities Study Agreement earlier than the timeframe mandated by the tariff. Mr. Nguyen confirmed that projects have the right to request tendering of the Facilities Study Agreement prior to the mandated timeframe. Mr. Nguyen further noted that the proposed revisions to the tariff expressly address a project's right to request early tendering of the Facilities Study Agreement.

Mr. Clarke asked for clarification regarding the proposed changes to the regulatory milestone requirement for offshore wind projects. Mr. Nguyen stated that the proposal would expand the list of qualifying actions/activities that an offshore wind project could utilize satisfy its regulatory milestone requirement.

Mr. Matt Schwall commended the NYISO's efforts in collaborating with stakeholders to develop the proposed enhancements to the Class Year and interconnection processes.

Motion #1:

The Business Issues Committee (BIC) hereby recommends that the Management Committee approve changes to the NYISO's Open Access Transmission Tariff and Market Administration and Control Area Services Tariff with regard to the Class Year and Interconnection Queue Redesign as presented to the BIC on November 6, 2019.

Motion passed unanimously with one abstention.

6. Proposed Revisions to the Competitive Entry Exemption of the Buyer Side Mitigation Rules Mr. Jonathan Newton (NYISO) reviewed the presentation included with the meeting material.

Ms. Doreen Saia (Greenberg Traurig) asked for clarification that the application of the proposed changes to Class Year 2019 only applies to projects that are already members of Class Year 2019. Mr. Newton (NYISO) confirmed that the proposed application of the changes to Class Year 2019 would apply only to projects that were already members of Class Year 2019 at the time of FERC approval of the proposed changes.

Ms. Saia noted appreciation for the collaborative efforts of the NYISO and stakeholders to develop the proposed alternative to the prior repowering exemption proposal as part of the proposed revisions to the Competitive Entry Exemption.

Mr. Fromer stated that the proposed changes provide a reasonable approach to addressing a potential unintended barrier to pursuing repowering in light of common commodity hedging practices in the marketplace.

Motion #2:

The Business Issues Committee (BIC) hereby recommends that the Management Committee approve changes to the NYISO's Market Administration and Control Area Services Tariff with regard to the Competitive Entry Exemption proposals as presented to the BIC on November 6, 2019.

Motion passed unanimously.

7. Working Group Updates

- <u>Billing and Accounting and Credit Working Group:</u> The group met on October 25, 2019 and reviewed the standard accounting/settlement reports, as well as the proposed enhancements to certain credit-related reporting requirements.
- Electric System Planning Working Group: The group has met five times since the last BIC meeting, including joint meetings with ICAPWG, MIWG, and/or PRLWG. The group met on October 22, 2019 and reviewed proposed enhancements to the Class Year Study and interconnection processes. On October 23, 2019, the group met and reviewed presentations from LIPA and Central Hudson regarding their respective local transmission plans, proposed revisions to the Reliability Planning Process Manual, load forecast assumptions to be used in the scenarios conducted as part of the 2019 Congestion Assessment and Resource Integration Study (CARIS) Phase 1 analysis, assumptions for the 70x30 scenario to be conducted as part of the 2019 CARIS Phase 1 analysis, and the proposal to develop a short-term reliability planning process. The group met on October 28, 2019 and reviewed proposed enhancements to the Class Year Study and interconnection processes. On November 1, 2019, the group met and reviewed an overview of the phase 2 analysis to be conducted as part of the ongoing climate change impact and resilience study project, proposed enhancements to the Class Year Study and interconnection processes, and the proposal to develop a short-term reliability planning process. The group also met on November 4, 2019 and reviewed proposed revisions to the Reliability Planning Process Manual, preliminary results for the generic solutions addressing the identified constraints being assessed as part of the 2019 CARIS Phase 1 analysis, and the proposal to develop a short-term reliability planning process.
- 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 October 18, 2019, the group met and reviewed a presentation by Consolidated Edison regarding a proposal to increase the MW threshold for current bidding and scheduling exemptions applicable to certain generators serving the NYC steam system, proposed revisions to the Load Forecasting Manual related to treatment of Behind-the-Meter Net Generation Resources, and potential revisions to the availability calculation methodologies for capacity supply resources. The group met on October 22, 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 proposed enhancements to the Class Year Study and interconnection processes. The group met on October 28, 2019 and reviewed stakeholder proposed changes to the ICAP Demand Curve reset process, a proposal to add a competitive entry exemption to the buyer-side mitigation rules for additional Capacity Resource Interconnection Service (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

enhancements to the Class Year Study and interconnection processes. On November 1, 2019, the group met and reviewed proposed enhancements to the Class Year Study and interconnection processes. The group also met on November 5, 2019 and reviewed the results of the annual update process for determining the ICAP Demand Curves effective for the 2020-2021 Capability Year.

- <u>Load Forecasting Task Force:</u> The group met on October 25, 2019 and held its annual Fall Economic Conference reviewing national and New York economic outlook reports by Moody's Analytics. The group also reviewed scenario assumption for the ongoing 2019 climate change impact and resilience study project, and an overview of the New York State Mesonet.
- Market Issues Working Group: The group has met four times since the last BIC meeting, including joint meetings with ICAPWG, ESPWG and/or PRLWG. The group met on October 18, 2019 and reviewed a presentation by Consolidated Edison regarding a proposal to increase the MW threshold for the current bidding and scheduling exemptions applicable to certain generators serving the NYC steam system, the Consumer Impact Analysis related to the NYISO's compliance filing proposal related to FERC's directed revisions to the pricing rules for fast-start resources, and an update regarding data analysis being conducted as part of the ongoing assessment of the current shortage pricing values for Ancillary Services. On October 22, 2019, the group met and reviewed a presentation by Analysis Group regarding the results of its supplemental analysis of the potential impacts of the proposed carbon pricing initiative. The group met on October 28, 2019 and reviewed the NYISO's compliance filing proposal in response to FERC's directed changes to the pricing rules for fast-start resources, a proposal for procuring quantities of reserves in excess of the minimum requirements needed to satisfy reliability requirements, the ongoing review of alternative data communication methods for distributed energy resources (DER) participating in the wholesale markets, a proposal to develop reserve requirements for certain load pockets within New York City, and additional data regarding the assessment of performance by reserve providers and potential enhancements to the reserve provider audit process. The group also met on November 5, 2019 and reviewed a presentation by the Market Monitoring Unit regarding performance of reserve providers, and proposed enhancements to the current transmission constraint pricing logic.
- <u>Price Responsive Load Working Group:</u> The group met jointly with ICAPWG, MIWG and ESPWG on October 22, 2019 and October 28, 2019 and reviewed the agenda topics for each meeting related to DER, energy storage resources and/or the NYISO-administered demand response programs.

8. New Business

There was no new business.

The meeting adjourned at 12:10 p.m.

Business Issues Committee

November 6, 2019 Meeting Final Motions

Motion #1:

The Business Issues Committee (BIC) hereby recommends that the Management Committee approve changes to the NYISO's Open Access Transmission Tariff and Market Administration and Control Area Services Tariff with regard to the Class Year and Interconnection Queue Redesign as presented to the BIC on November 6, 2019.

Motion passed unanimously with an abstention.

Motion #2:

The Business Issues Committee (BIC) hereby recommends that the Management Committee approve changes to the NYISO's Market Administration and Control Area Services Tariff with regard to the Competitive Entry Exemption proposals as presented to the BIC on November 6, 2019.

Motion passed unanimously.

New York Independent System Operator - Committee Membership

Business Issues Committee - November 06, 2019 - NYISO - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
storia Energy LLC	Generation Owners	McCall, Chuck	Browne , Scott	Habib , Phillipe	Singer, Leonard					·	
Bayonne Energy Center, LLC	Generation Owners	✓Allman , Ellen	Caplan, Stu	•							
CPV Valley LLC	Generation Owners	Litchfield, Matt	Rumsey , Tom	Pierpont , Daniel							
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve	Schwall , Matthew					
Covanta Niagara, LP	Generation Owners	Burke , David	Abbott , Sharon		,	,					
Cricket Valley Energy Center	Generation Owners	Davis , Charles	Wallenstein , Arnold	Paryl , Ron						Schwall, Matthew	
Danskammer Energy, LLC	Generation Owners	Reid, William	Cada, Eric	r aryr , Ron						Genwan, Matthew	
EDP Renewables North America LLC	Generation Owners	Brodbeck, John	Kaplan, Seth	Ingalls, Kellen	Loturco, Thomas	High , Jeremy	Priemer, Dustin				
East Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	McEachern , Ben	Franzetti , Paul	riigii , Jeremy	Themer, Dustin				
Empire Generating Co, LLC	Generation Owners	Nuss , Kurt	Argetsinger, Andrew	Willson , Darrell	Swenson , Nils						
Entergy Nuclear Northeast	Generation Owners		✓ Saia, Doreen	Bergeron , John	Swenson , rens						
Helix Ravenswood LLC	Generation Owners	D'Andrea , James	Kline, Marc	DiBari , Dominic							
Howard Wind LLC	Generation Owners	Merich, Olivia	Rugh , Chris	Dibaii , Dominic							
ndeck Energy Services, Inc.	Generation Owners	ı	✓ Younger, Mark								
innovative Energy Systems	Generation Owners Generation Owners	Zeliff, Peter	Henningham, Scott	0 1 01 :						/n	
nvenergy Energy Management LLC		Pakula , Maggie	Goldstein , Michael	Orzel , Chris						✓Bangston, Kaley	
National Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe , Brian								
Selkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy	Ryan , James	Y Y . 1							
Somerset Operating Company, LLC	Generation Owners	Gregson , Brian	Goodenough , Jeery	Love , Jordan							
BJ Energy LLC	Other Suppliers	Ni, Bing	Lee, George	Z							+
BP Energy Company	Other Suppliers	Chintapalli , Raj	Magruder, Kathy	Ackerman, Alan							
BioUrja Power, LLC	Other Suppliers	Shah , Kinjal	Patel , Ankeet	Eamani , Arun	771 1						
BlueRock Energy, Inc.	Other Suppliers	VanHorne , Phil	Campese , Bobby	Quill , Megan	Klaben, Jason						
Brookfield Energy Marketing L.P.	Other Suppliers	✓ LaRoe , Chris	Talamo , Marco	Dallaire , Eric	Lund, Roxana						
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	m) () () () () () () () () () (
DC Energy	Other Suppliers	Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					
DTE Energy	Other Suppliers	German , Robert	Pakela, Gregory								
Direct Energy Business Marketing, LLC	Other Suppliers	Carrier , Ron	Morris , Sandra								
Drift Marketplace, Inc.	Other Suppliers	Tilley , Alan	Robinson , Greg Allen , Sean								
Dynegy Marketing and Trade ENEL X	Other Suppliers Other Suppliers	Frazier , Amanda Geller , Greg	Chibani , Yanis								
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	Wolasti Tyler				
						Johnson , David	Wolcott , Tyler	YVIII	I are a second		
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		✓ Ackerman, Alan								
HQ Energy Services US	Other Suppliers	l l	✓ Leuthauser, Scott	Guilbault, Louis	Bélanger , Frédéric						
Innoventive Power	Other Suppliers	Gruber , Craig	Halford, Steve	, 20015	go. , . roderic						
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	Kochonies, Karen	Meditz, Alex	Grimes , Jordan							
NRG Power Marketing Inc.	Other Suppliers	Fitch, Neal	Hsia, Jennifer	Cona , Lisa	Kranz , Bradley						
New York Transco		Mullin , Victor	Hitti, Nabil		- I	MoVinnov Loff					
	Other Suppliers			Caso , Rob	Carrigan , Kathleen	McKinney , Jeff					
NextEra Energy	Other Suppliers		✓ Talbot , Soria	Gibelli , Stephen							
Ontario Power Generation, Inc.	Other Suppliers	Lauritsen , Kim	, no.								
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									
Stephentown Spindle, LLC	Other Suppliers	Streeter , Christopher		1							
Talen Energy	Other Suppliers	Toomey, Megan	Hohenshilt, Jennifer	Labella, Julie	Raggio, Debra	1	1	1	1	1	1

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
vitol Inc.	Other Suppliers	Wadsworth, Joe	Viola , Bob	Kahn, Casey						Ĭ	
O Energy NY, LP	Other Suppliers	Drangula, Carey	Thompson , Matthew	Hughes, Adam							
entral Hudson Gas & Electric Corp.	Transmission Owners	Borchert , John	Chan, Ting	May , Jeff	Dittmann, David					✓Turner, Hal	
onsolidated Edison Co. of NY, Inc.	Transmission Owners	✓Quin , Jane	Nachmias, Stuart	Hargett , Chris	Yu , Joel	Lazarus , Dana	Butterklee, Neil				
lational Grid	Transmission Owners	✓Janzen , Margaret	Lodemore, David	Wilkie, Brian	,	,	,				
New York State Electric & Gas (NYSEG)	Transmission Owners	✓ Caletka, Patricia	Lynch, Tim	✓Brophy , Richard							
		Caletka, Fatricia	Lynch, Thii	brophy, Kichard							
Orange & Rockland Utilities, Inc.	Transmission Owners	Zana Biri	v 1 m	/s s							
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						
BM 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						
Vegmans 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	Morris, Jackson							Ī
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	✓ Trinsey , Amanda					
ordham University	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	✓Mager, Michael	✓ Trinsey , Amanda					İ
Iemorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine		_	✓ Mager, Michael	Trinsey , Amanda					1
Mount Sinai Medical Center	Small Consumer		Breidenbaugh , Aaron	Lang, Kevin							1
		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					- 1
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate Government Small Consumer and Retail	Hogan , Erin	Montalvo , Marc	Loiacono , Matthew	O'Hare , Katie						
ity of New York	Aggregate Consumer and Retail	Lang, Kevin	Mager, Michael	Trinsey, Amanda							
IYS Energy Research & Dev. Authority	Government Small Consumer and Retail Aggregate	✓ Hall , Christopher	Matteson , Schuyler	Mas , Carl	Coup, David						
ong Island Power Authority	State Power Authorities	✓Clarke, Dave	Wilczek, Mariann								
ew York Power Authority	State Power Authorities	Antinori , Andrew	Michaels , Alan	Cordi , John	Kane, James	Mahoney , Daniel					
ath Electric, Gas & Water Systems	Municipalities and Coops	Bonacci, Erin	✓ Wentlent, Chris	Cordeiro, Mark	·						
reeport Electric	Municipalities and Coops	Livingston , Al	✓ Rudebusch, Tom	Fiore , Chris							
amestown Board of Public Utilities	· -	1	,	·	✓ Rudebusch, Tom						
	Municipalities and Coops	Sellstrom , Kris	Leathers, David	Allen , Cory	Rudebusch, 10m						
ake Placid Village	Municipalities and Coops	Daby , Kimball	Wentlent, Chris	Cordeiro, Mark							
Iunicipal Commission of Boonville	Municipalities and Coops	Varner, Doug	Wentlent, Chris	Cordeiro, Mark							
lattsburgh Municipal Lighting Dept	Municipalities and Coops	Treacy, William	✓ Wentlent, Chris	Cordeiro, Mark							
Tillage of Arcade	Municipalities and Coops	Kilburn, Larry	✓ Wentlent, Chris	Cordeiro, Mark							
fillage 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		İ					İ
fillage of Westfield	Municipalities and Coops	Thompson , Andrew	Wentlent, Chris	Cordeiro, Mark		·					†
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merican Wind Energy Association	Environmental	Fink, Sari	Reeder , Mark	Reynolds , Anne	Grace, Gene						
Environmental Advocates	Environmental	Bambrick , Conor	Morris, Jackson	D61 34: 1 1							
invironmental Defense Fund	Environmental	Christian , Rory	Stein , Elizabeth	Panfil, Michael						10	
Vatural Resources Defense Council	Environmental	Morris, Jackson	De Costanzo , Donna							Reeder, Mark	-
ACE Energy & Climate Center	Environmental	Musgrove , Sheryl	Taylor, Geordi	Morris, Jackson							- 1
iverkeeper	Environmental	Webster, Richard	Morris, Jackson								- 1
ES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswarmy , Kiran								
ble Grid Energy Solutions, Inc.	Non Voting	Lines , Sam	Mills , Sara								
cadia Center	Non Voting	Howe , Cullen	Donovan, Deborah								
lliance for Clean Energy New York	Non Voting	Reynolds, Anne	Dufresne, Zach	Reeder, Mark							
nbaric Development Partners, LLC	Non Voting	Kosel , Howard	Sanderson, Bryan	Knobloch, Kevin	Bruno , Clarke						
ppian Way Energy Partners East, LLC	Non Voting	Levy , Tal	Klein, Abram	Shen, Dong	Westlund, John	Laich, Marcus					
dor Energy LLC	Non Voting	Breen, Erika									
vangrid Renewables, Inc.	Non Voting	Kilgallen, Kevin	Sokolski , Adam								
oston Energy Marketing & Trading	Non Voting	Kramek , Mike									-
ruce Power	Non Voting	Jain , Anshul	Meyer, Sandra								
aithness Energy LLC	Non Voting	Keevill , Gary	Alvarez, Asavari	Garber, Mitchell							
alpine Energy Solutions	Non Voting	Sun , Jungsuk	Nakhonthap , Jade	Sunga, Leonard							
ubit Power One Inc.	Non Voting	Powell , Alan	Powell , Leighton	Singer, Leonard							
ustomized Energy Solutions	Non Voting	✓ Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓ Ackerman, Alan						
ypress Creek Renewables	Non Voting	Kohlstedt, Kevin	Kemp, Melissa	Scavo , Marisa							
cesis LLC	Non Voting	Wu , Brian									
nergya 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	Aitcinatc2	Anternates	Ancinace	Aitcinates	Atternated	Anternate	Tioxy	Guest
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								✓ Galarneau, Ken
LS Power Grid NY	Non Voting	Willick , Lawrence	York , Joshua	Hayes , Patrick							, ,
Lockport Energy Assoc.	Non Voting	Gesicki, Thomas	Youngberg, Mary								Ī
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	,								Ī
Northeast Clean Heat & Power Initiative	Non Voting	Melpignano, Kristin	Brown, Ruben	✓ Cinadr , Matt	Dwyer, Herb	Lillian , Jon					Ī
Northline Utilities LLC	Non Voting	McKinney , Jeff	Danskin , Susan	, , , , , , , , , , , , , , , , , , , ,	, , , , , ,						
NuEnergen	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					