# NYISO Business Issues Committee Meeting Minutes January 15, 2020 10:00 a.m. – 10:50 a.m.

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

Mr. Chris Wentlent (MEUA) called the meeting to order at 10:00 a.m. The members of the BIC identified themselves and attendance was recorded. A guorum was determined.

#### 2. December 11, 2019 BIC Meeting Minutes

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

#### Motion#1:

Motion to approve the December 11, 2019 BIC meeting minutes.

Motion passed unanimously with an abstention.

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

Dr. Nicole Bouchez (NYISO) reviewed the Market Operations and Broader Regional Markets reports included with the meeting material. There were no questions or comments.

#### 4. ICAP Demand Curve Reset Process: Gross CONE Escalation Factor Enhancements

Mr. Ryan Patterson (NYISO) reviewed the presentation included with the meeting material.

Mr. Mark Montalvo (UIU) asked whether the proposed changes are intended to address the New York Transmission Owners' comments regarding the use of weighting factors that remain fixed for the duration of the reset period. Mr. Michael Cadwalader (Atlantic Economics) noted that by baselining the calculations to the first year of the reset period the proposed improvements address the concerns raised by the New York Transmission Owners related to both: (1) revisions to past values by an index publisher; and (2) the use of weighting factors that remain fixed throughout each reset period.

Ms. Amanda Trinsey (Couch White) noted that the City of New York and Multiple Intervenors reserve their respective rights to potentially raise further consideration of a proposal to extend the reference point price collaring mechanism at a later date.

Ms. Saia (Greenberg Traurig) asked for clarification regarding the NYISO's proposed timeline for pursuing changes to the reset process that would require tariff revisions. Mr. Zach T. Smith (NYISO) stated that if stakeholders desire to further pursue a proposal to reinstate the prior reference point price collaring mechanism, stakeholders should bring any such proposal forward expeditiously.

#### 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 modifications for calculating the gross cost of new entry composite escalation factor as presented to the BIC on January 15, 2020.

Motion passed unanimously.

#### 5. Relocation of the Ontario Proxy Bus

Mr. Tolu Dina (NYISO) reviewed the presentation included with the meeting material.

Mr. Scott Leuthauser (HQUS) asked whether the proposed changes to the Ontario proxy bus location included consideration of the flows over the facilities in the proximity of the St. Lawrence hydroelectric facility. Mr. Dina noted that the ties with Ontario near the St. Lawrence facility are equipped with phase angle regulators to control flows on these facilities consistent with their schedules.

Mr. Tal Levy (Appian Way) asked for further information regarding the NYISO's proposal to allow use of the Ontario proxy bus as a valid bidding point in only the six-month rounds of the Spring 2020 Centralized TCC Auction. Mr. Greg Williams (NYISO) noted that the proposed restriction on bidding related to use of the Ontario proxy bus as a bidding point is intended to facilitate greater certainty over the implementation of the proposed change to the proxy bus location in the Day-Ahead Market prior to implementing the proposed change in the TCC auctions.

Mr. Mark Younger (Hudson Energy Economics) asked whether it is currently anticipated that the change to the location of the Ontario proxy bus will be implemented for all six-month rounds of the Spring 2020 Centralized TCC Auction. Mr. Williams stated that the NYISO will continue to monitor the status of implementing this change in the Day-Ahead Market and will provide advance notice prior to implementing any change to the location of the Ontario proxy bus within the TCC auction model.

Mr. Mike Kramek (Boston Energy) requested clarification regarding the assumptions that will be applied to the location of the Ontario proxy bus for the two-year and one-year rounds of the Spring 2020 Centralized TCC Auction. Mr. Williams clarified that the NYISO currently anticipates that the Ontario proxy bus will not be an allowable bidding point for any of the two-year or one-year rounds of the Spring 2020 Centralized TCC Auction.

Mr. Bruce Bleiweis (DC Energy) asked for clarification regarding when the NYISO anticipates it will be able to inform the market of the Ontario proxy bus location assumptions that will be used for the six-month rounds of the Spring 2020 Centralized TCC Auction. Mr. Williams stated that the NYISO will monitor the status of implementing this change in the Day-Ahead Market and will provide notice to the marketplace regarding the assumptions that would apply to the location of the Ontario proxy bus during the six-month rounds of the Spring 2020 Centralized TCC Auction once the timeline for implementing the change in the Day-Ahead Market has been finalized.

Mr. Younger asked whether the NYISO will provide advance notice of when the change to the Ontario proxy bus location will be implemented in the energy markets. Mr. David Edelson (NYISO) stated that once the implementation timeline is finalized, the NYISO will provide advance notice to the marketplace of the expected date for making the change to the Ontario proxy bus location in the energy markets.

#### Motion #3:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee ("MC") approve revisions to Section 4.4.4 and 17.1.5 of the NYISO's Market Administration and Control Area Services Tariff, as more fully described in the "Relocating the IESO Proxy Bus" presentation made to the BIC on January 15, 2020.

Motion passed unanimously with an abstention.

#### **Working Group Updates**

- <u>Billing and Accounting and Credit Working Group</u>: The group met on December 20, 2019 and reviewed the standard accounting/settlement reports.
- Electric System Planning Working Group: The group has not met since the last BIC meeting.
- Installed Capacity Working Group: The group has met five times since the last BIC meeting, including joint meetings with MIWG and/or PRLWG. The group met on December 13, 2019 and reviewed the scope and anticipated schedule for the comprehensive mitigation review initiative. On December 17, 2019, the group met and reviewed a presentation by Itron regarding the results of phase 1 of the climate change impact and resilience study project, and preliminary information regarding 2020/2021 Locational Minimum Installed Capacity Requirement values. The group met on December 19, 2019 and reviewed an overview of the 2020 energy and capacity market design project initiatives, proposed revisions to the methodology for calculating the composite escalation factor used for adjusting gross cost of new entry values as part of the annual update process for the

ICAP Demand Curves and the proposed process for further discussing the proposal by the New York Transmission Owners to extend the transitional collaring mechanism that applies to reference point values calculated pursuant to the annual update process for the ICAP Demand Curves, and an overview of considerations and the anticipated schedule for discussing potential enhancements to the Part A exemption test of the buyer-side mitigation rules. On January 8, 2020, the group met and reviewed the study report and results of the 2019-2020 New Capacity Zone Study, an overview of considerations and the anticipated schedule for further discussing potential enhancements to the study period used as part of the evaluations conducted pursuant to the buyer-side mitigation rules, and an overview of considerations for potential market design enhancements in response to the ongoing transformation of the electric system. The group also met on January 13, 2020 and reviewed an overview of considerations and the anticipated schedule for further discussing the development of a hybrid supply resource model, a presentation by Energy Systems Integration Group regarding hybrid resources consisting of co-located solar and energy storage and considerations for a hybrid supply resource participation model, the proposed Locational Minimum Installed Capacity Requirement values for the 2020/2021 Capability Year, and potential enhancements to the Part A exemption test of the buyer-side mitigation rules regarding the examination of new zero-emission resources developed in response to state public policy requirements.

- <u>Load Forecasting Task Force</u>: The group met on December 20, 2019 and reviewed the final capacity market peak load forecast for the 2020/2021 Capability Year.
- Market Issues Working Group: The group has met jointly with ICAPWG and PRLWG four times since the last BIC meeting. On December 17, 2019, the group met and reviewed a presentation by Itron regarding the results of phase 1 of the climate change impact and resilience study project, and an overview of the inclusion of opportunity costs as part of the bids submitted by energy storage resources and the application of other energy market mitigation measures to energy storage resources. The group met on December 19, 2019 and reviewed an overview of the 2020 energy and capacity market design project initiatives, potential opportunities to improve the current rules that seek to prevent uneconomic production by resources in the wholesale energy markets, and changes to the comprehensive bid management system related to the bidding requirements for energy storage resources participating in the wholesale energy and ancillary services markets. On January 8, 2020, the group met and reviewed and overview of considerations for potential market design enhancements in response to the ongoing transformation of the electric system. The group also met on January 13, 2020 and reviewed an overview of considerations and the anticipated schedule for further discussing the development of a hybrid supply resource model, a presentation by Energy Systems Integration Group regarding hybrid resources consisting of co-located solar and energy storage and considerations for a hybrid supply resource participation model, and proposed revisions to the Transmission Congestion Contracts Manual.
- <u>Price Responsive Load Working Group</u>: The group met jointly with ICAPWG and/or MIWG on December 13, 2019, December 17, 2019, December 19, 2019, January 8, 2020, and January 13, 2020 and reviewed the agenda topics for each meeting related to distributed energy resources (DER), energy storage resources and/or the NYISOadministered demand response programs.

#### **New Business**

There was no new business.

Meeting adjourned at 10:50 a.m.

### **Business Issues Committee**

# November 11, 2020 Meeting Final Motions

#### Motion #1:

Motion to approve the October 14, 2020 Meeting Minutes.

Motion passed unanimously.

#### Motion #2:

The Business Issues Committee (BIC) hereby recommends that the Management Committee approve revisions to Attachment K of the Market Administration and Control Area Services Tariff as described in the presentation entitled "Proposed Change to NYISO Officer Certification," made at the November 11, 2020 BIC meeting.

Motion passed unanimously.

#### Motion #3:

The Business Issues Committee ("BIC") hereby approves the revisions to the Accounting & Billing Manual as described in the presentation to the BIC on November 11, 2020.

Motion passed unanimously with abstentions.

#### Motion #4:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve changes to the Market Administration and Control Area Services Tariff as more fully described in the presentation titled "Ancillary Services Shortage Pricing" made to the BIC on November 11, 2020.

Motion passed unanimously with abstentions.

### Motion #5:

WHEREAS, the Load Forecasting Task Force ("LFTF") reviewed during its October 21<sup>st</sup> 2020 meeting revisions to the Load Forecasting Manual; WHEREAS, the Installed Capacity Working Group ("ICAPWG") reviewed during its October 27<sup>th</sup> 2020 meeting revisions to the Load Forecasting Manual; and WHEREAS, NYISO staff posted a draft Load Forecasting Manual for review on the NYISO's website and for discussion and action at the November 11, 2020 Business Issues Committee ("BIC") meeting; THEREFORE.

The Business Issues Committee ("BIC") hereby approves the Load Forecasting Manual revisions as presented and discussed at the BIC meeting held on November 11, 2020.

Motion passed unanimously.

#### Motion #6:

**WHEREAS**, the Electric System Planning Working Group ("ESPWG") reviewed during its October 23<sup>rd</sup> 2020 meeting revisions to the Economic Planning Process Manual: and

**WHEREAS**, NYISO staff posted a draft Economic Planning Process Manual for review on the NYISO's website and for discussion and action at the November 11, 2020 Business Issues Committee ("BIC") meeting;

#### THEREFORE,

The Business Issues Committee ("BIC") hereby approves the Economic Planning Process Manual revisions as presented and discussed at the BIC meeting held on November 11, 2020.

Motion passed unanimously.

#### Motion #7:

The Business Issues Committee ("BIC") hereby approves the market design to establish the capability to reserve a portion of otherwise available transmission capacity for release to support the sale of Transmission Congestion Contracts in Reconfiguration Auctions, as more fully described in the presentation titled "Reserving Capacity for TCC Balance-of-Period Auctions" made to the BIC on November 11, 2020.

Motion passed unanimously with abstentions.

#### Motion #8:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve changes to the Market Administration and Control Area Services Tariff as more fully described in the presentation titled "Ancillary Services Shortage Pricing" made to the BIC on November 11, 2020.

Motion passed unanimously with abstentions.

#### Motion #9:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve revisions to the Market Administration and Control Area Services Tariff, as more fully described in the presentation entitled "Enhanced Fast-Start Pricing" made to the BIC on November 11, 2020.

Motion passed unanimously.

#### Motion #10:

The Business Issues Committee ("BIC") hereby approves the revisions to the Transmission & Dispatch Operations Manual and Day-Ahead Scheduling Manual as described in the presentation to the BIC on November 11, 2020.

Motion passed unanimously.

#### Motion #11:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve revisions to the Market Administration and Control Area Services Tariff and the Open Access Transmission Tariff, as more fully described in the presentation entitled "Hybrid Storage: Collocated Storage Resources (CSR) Market Design Proposal" made to the BIC on November 11, 2020.

Motion passed unanimously with abstentions.

#### Motion #12:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee ("MC") approve revisions to the NYISO's Market Administration and Control Area Services Tariff as described in the presentation titled "Utilization of MSEs for Demand Side Resources" made to the BIC on November 11, 2020.

Motion passed unanimously with abstentions.

#### Motion #13:

The Business Issues Committee (BIC) hereby approves the revisions to the Transmission Expansion and Interconnection Manual as presented to the BIC on November 11, 2020 BIC meeting.

Motion passed unanimously.

#### Motion 14:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve changes to the NYISO's Coordination Agreement with ISO-NE as more fully described in the presentation titled "ISO-NE and NYISO Coordination Agreement — Revisions to Descriptions of Interconnection Facilities" made to the BIC on November 11, 2020.

Motion passed unanimously.

# **New York Independent System Operator - Committee Membership**

## **Business Issues Committee - November 11, 2020 - 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	Aiccinate	Aucinates	Aittinattu	Alternate/	IIOAy	Guest
Bayonne Energy Center, LLC	Generation Owners	Allman, Ellen	Fromer , Howard	imoio , i iiiiipe	Singer, Leonard						
Borrego Solar Systems, Inc.	Generation Owners	Delaney , Liz	Conway, Michael	Cox-Arslan , Kathryn	Brigandi, Michael						
CPV Valley LLC	Generation Owners	Litchfield, Matt	Rumsey, Tom	Pierpont , Daniel	Dingandi , Michael						
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve	Schwall , Matthew					†
Covanta Niagara, LP	Generation Owners	Burke , David	Abbott , Sharon	1 minorion, somi	Sememer, Steve	y Somman, mannew					
Cricket Valley Energy Center	Generation Owners	Davis , Charles	Wallenstein , Arnold	Paryl, Ron							
Cypress Creek Renewables	Generation Owners	Kemp, Melissa	Eskew , Ollivia	r myr, Ron							
Danskammer Energy, LLC	Generation Owners	Reid , William	Cada , Eric			•					
EDP Renewables North America LLC	Generation Owners	Brodbeck, John	Loturco, Thomas	High, Jeremy	Priemer , Dustin	•					İ
East Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	McEachern, Ben	Franzetti , Paul						
Empire Generating Co, LLC	Generation Owners	Morris , Chandler	Maida, Jeff	Hudson, Daniel							
Entergy Nuclear Northeast	Generation Owners	Dell Orto , Ken	✓ Saia, Doreen	Bergeron , John							
GlidePath Power Solutions LLC	Generation Owners	McKissack , Chris	Baur, Sean	Vickery, Chris	Labij , Denis	Braun , Gary					
Helix Ravenswood LLC	Generation Owners	D'Andrea , James	Kline, Marc	DiBari , Dominic							
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	✓ Galarneau, Kenneth	Goldwasser, Rachel	Fitzgerald, Dan							
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									
Somerset Operating Company, LLC	Generation Owners	Gregson, Brian	Goodenough, Jeery	Love , Jordan							
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	Breidenbaugh, Aaron								
Castleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss, Gordon	Romine , Brad	Emmett , Robert							
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	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					-
DTE Energy	Other Suppliers	German , Robert	Pakela, Gregory								
Direct Energy Business Marketing, LLC	Other Suppliers	Newton , Jonathan	Carrier , Ron	Morris , Sandra							
Dynegy Marketing and Trade	Other Suppliers	Weinstein , Andrew	Allen , Sean								
ENEL X	Other Suppliers	Geller, Greg	Chibani , Yanis	0 1 11 01 1							
ENGIE Energy Marketing NA, Inc.	Other Suppliers	Levine , Jeffrey	Hawkins , Darin	Campbell , Chad	/01 " "	71 5	W. J 77.				
Eastern Generation	Other Suppliers	Baker, Liam	Reese, John	Younger, Mark	Schwall , Matthew	Johnson , David	Wolcott , Tyler	*****	G: 1.25		
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						
nnoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve	Cancauit, Louis	Detailiger , Frederic						
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							
VRG Power Marketing Inc.	Other Suppliers	Fitch, Neal	Hsia , Jennifer	Cona , Lisa	Kranz , Bradley						
New York Transco	Other Suppliers	Mullin , Victor	Caso , Rob	Carrigan , Kathleen	Camp , Adam						1
VextEra Energy	Other Suppliers	Applebaum, David	Talbot , Soria	Gibelli , Stephen	F /						
Ontario Power Generation, Inc.	Other Suppliers	Lauritsen, Kim	,,	, <u>F</u>							
SEG Energy Resource & Trade, LLC	Other Suppliers	Gordon , Joel	DePillo , Raymond	Cimino , David	Dillon , George						İ
Riverbay Corporation	Other Suppliers	Merola , Peter	Ellison , Noel	, ,	, ,						
Rodan Energy Solutions (USA) Inc.	Other Suppliers	✓ Breidenbaugh , Aaron	Ingram , Rachel								
SESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								1
Shell Energy North America, LLC	Other Suppliers	Picardi, Matt									1

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Stephentown Spindle, LLC	Other Suppliers	Streeter , Christopher									
Talen Energy	Other Suppliers	Toomey, Megan	Hohenshilt, Jennifer	Labella, Julie	Raggio, Debra						
Viridity Energy, Inc.	Other Suppliers	Freifeld, Allen									
Vitol Inc.	Other Suppliers	Wadsworth, Joe	Viola, Bob	Kahn, Casey							
XO Energy NY, LP	Other Suppliers	Drangula, Carey	Thompson, Matthew	Hughes, Adam							
Central Hudson Gas & Electric Corp.	Transmission Owners	May, Jeff	✓ Chan, Ting	Jolly , James	Delmar, Valerie						
Consolidated Edison Co. of NY, Inc.	Transmission Owners	Quin , Jane	✓ Hargett , Chris	Yu, Joel	Lazarus , Dana	Butterklee, Neil	LoFrumento, Susan				
National Grid	Transmission Owners	✓Janzen , Margaret	Lodemore , David	Wilkie, Brian							İ
New York State Electric & Gas (NYSEG)	Transmission Owners	✓Caletka, Patricia	Lynch, Tim	✓Brophy , Richard							
Orange & Rockland Utilities, Inc.	Transmission Owners			Y 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7							
Rochester Gas and Electric Corp.	Transmission Owners	✓ Caletka, Patricia	Lynch, Tim	✓Brophy , Richard							
Alcoa, Inc.	Large Consumer	Mager, Michael	1		Lang, Kevin						
	_	Mager, Michael	Loughney, Robert	Trinsey , Amanda	_						
IBM Corporation	Large Consumer		Loughney, Robert	Trinsey , Amanda	Lang, Kevin						
Nucor Steel Auburn, Inc.	Large Consumer	Brew , James	Mackaronis , Chris	Baker , Laura							
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								
Association for Energy Affordability	Small Consumer	Strauss , Valerie	Hepinstall, David	Casey , Christopher	,						
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Ewart, Sean	Lang, Kevin	Mager, Michael	Trinsey, Amanda					1
Fordham University	Small Consumer	Luthin, Catherine	Ewart, Sean	Lang, Kevin	✓Mager, Michael	Trinsey, Amanda					
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	Ewart, Sean	Lang, Kevin	✓Mager, Michael	Trinsey, Amanda					
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Ewart, Sean	Lang, Kevin	✓Mager, Michael	Trinsey, Amanda					
New York University	Small Consumer	Luthin, Catherine	Ewart , Sean	Lang, Kevin	✓ Mager, Michael	Trinsey, Amanda					1
Utility Intervention Unit, Division of Consumer	Government Statewide Consumer Advocate		1		Triager, menaer	, , , , , , , , , , , , , , , , , , ,					
Protection, NY Dept. of State	Government Battle Water Companies France	Hogan , Erin	Montalvo , Marc	O'Hare , Katie							
City of New York	Government Small Consumer and Retail	Lang, Kevin	✓Mager, Michael	Trinsey, Amanda						✓Tedesco, Develyn	
NVS Energy Research & Day Authority	Aggregate Government Small Consumer and Retail										
NYS Energy Research & Dev. Authority	Aggregate Aggregate	✓ Hall , Christopher	Matteson, Schuyler	Zielinski, Andrew	Mas , Carl	Coup, David					
Long Island Power Authority	State Power Authorities	✓Clarke, Dave	Wilczek , Mariann								İ
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		1			✓ Rudebusch, Tom						
	Municipalities and Coops	Sellstrom , Kris	Leathers, David	Allen , Cory	Rudebusch, 10m						
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		1					1
American Wind Energy Association	Environmental	Reynolds , Anne	Reeder, Mark	Fink , Sari	Tabak, Gabe	Grace, Gene					1
Environmental Advocates	Environmental	Bambrick , Conor	Morris, Jackson	, Sui	Tuodik, Guot	Since, Gene					†
Environmental Defense Fund	Environmental	Peress J., Naim	Stein , Elizabeth	Karas , Natalie	Murphy , Erin	1					
Natural Resources Defense Council	Environmental	Casey , Christopher	Howe , Cullen	Morris, Jackson	De Costanzo , Donna	1					1
New York City Environmental Justice Alliance	Environmental	Garcia , Carlos	Bautista , Eddie	.,	, , , , , , , , , , , , , , , , , , , ,						
PACE Energy & Climate Center	Environmental	Hart, Craig	Valova , Radina	Howe , Cullen		1					
Riverkeeper	Environmental	Webster, Richard	Morris, Jackson								
AES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswarmy , Kiran								
Able Grid Energy Solutions, Inc.	Non Voting	Lines, Sam	Mills , Sara								
Acadia Center	Non Voting	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								
Bakerstand Solar, LLC	Non Voting	Caplan, Michael									1
Boston Energy Marketing & Trading	Non Voting	Kramek, Mike									1
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							

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Cubit Power One Inc.	Non Voting	Powell, Alan	Powell , Leighton	Singer, Leonard							
ustomized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓ Ackerman, Alan						
Ccesis LLC	Non Voting	Wu , Brian									
nergya VM	Non Voting	Garcia , Francisco	Maeso, Manual	Lopez, Ana	Corvillo , Cristina						
luent Energy	Non Voting	Acampora , Peter	Doll , Ed								
I Energy	Non Voting	Falcier, Peter	Robinson, James								
lighview Power Storage, Inc.	Non Voting	Riley, Richard	Minopoli , Salvatore								
udson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
ydro-Quebec TransEnergie	Non Voting	Prevost, Michel									
C Mid-Atlantic Development LLC	Non Voting	Wrenbeck, Tom	Benedict, Nathan								
stitute for Policy Integrity at NYU School of Law	Non Voting	Unel , Burcin	Noll, Bethany	Bialek, Sylwia	Gundlach, Justin						
S Power Grid NY	Non Voting	Willick, Lawrence	York , Joshua	Carroll, Casey	Hayes , Patrick						
ockport Energy Assoc.	Non Voting	Gesicki, Thomas	Youngberg, Mary								
onsdale Biomass, LLC	Non Voting	Ralston, William	Hebel, Nathan	Carrigan , Kathleen							
IAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre								
arathon Energy	Non Voting	Nichols , Jim	Perrotti, Frank	Yeager, Keith							
RG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie							
Y-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise								
YS Department of Public Service	Non Voting	Paynter, Thomas	Evans , Adam								
tional Fuel Gas Distribution Corporation	Non Voting	Stankovski, Maryann	Eck, Robert								
w Athens Generating Co. LLC	Non Voting	Tripp, Hank									
rtheast Clean Heat & Power Initiative	Non Voting	Melpignano, Kristin	Brown, Ruben	Cinadr , Matt	Dwyer, Herb	Lillian, Jon					
Energen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan								
as Power, LLC	Non Voting	Fraenkel, Alex									
NEW Northeast	Non Voting	Pullaro , Francis	Krich, Abigail								
chard P. Felak	Non Voting	Felak, Rich									
EM, Inc.	Non Voting	Ko, Ted	Bellacicco, John								
racen Energy East LP	Non Voting	Peebles , Andy	Miller, Jason								
vion, LLC	Non Voting	Doering, Anthony	Sunderman, Derek								
emens Energy, Inc.	Non Voting	Feltes , James									
ylor Biomass Energy, LLC	Non Voting	Taylor, Jim	Page , Allan								
ichos Energy, LLC	Non Voting	Maclearnsberry, Kirk	VanCoevering , Darrel								
sla, Inc.	Non Voting	Van Cleve, Sarah	Gilfenbaum, Eliah								
nsAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	Abend, Erik								
nsmission Developers Inc.	Non Voting	Jessome , Donald	Helmer , William	Harrison, Bob	Coxe, Raymond						
ansource New York, LLC	Non Voting	Rupert , David	Cundiff, Robert								
heelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti, Jim								
Tilliam P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					