NYISO Business Issues Committee Meeting Minutes November 11, 2020 10:00 a.m. – 12:00 p.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. Draft October 14, 2020 BIC Minutes

There were no questions or comments regarding the draft minutes from the October 14, 2020 BIC meeting that were included as part of the meeting material.

Motion #1:

Motion to approve the October 14, 2020 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. BIC Vice Chair Election for 2020-2021

Mr. John Marczewski (East Coast Power) was elected to serve as the BICVice Chair for the 2020-2021 term.

5. Proposed Change to NYISO Officer Certification

Ms. Sheri Prevratil (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

6. Accounting and Billing Manual Revisions

Mr. Mark Buffaline (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

7. Ancillary Services Manual Update: Changes to Voltage Support Services

Mr. Robert Golen (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

8. Load Forecasting Manual Revisions

Mr. Chuck Alonge (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

Motion #5:

WHEREAS, the Load Forecasting Task Force ("LFTF") reviewed during its October 21st 2020 meeting revisions to the Load Forecasting Manual;

WHEREAS, the Installed Capacity Working Group ("ICAPWG") reviewed during its October 27th 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.

9. Economic Planning Process Manual Revisions

Mr. Jason Frasier (NYISO) reviewed the presentation included with the meeting material.

Mr. Marc Montalvo (UIU) asked for clarification regarding whether the proposed revisions for addressing reliability needs within the modeling developed for the economic planning process would include consideration of local transmission system reliability needs identified in the reliability planning process. Mr. Frasier stated that the proposed manual revisions would provide the NYISO flexibility in considering the potential siting of generic compensatory MW additions to address reliability needs within the modeling developed for the economic planning process in a manner that may also address local reliability needs identified in the reliability planning process.

Motion #6:

WHEREAS, the Electric System Planning Working Group ("ESPWG") reviewed during its October 23rd 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.

10. Reserving Transmission Capacity for Balance-of-Period Auctions

Mr. Gregory Williams (NYISO) reviewed the presentation included with the meeting material.

Mr. Mark Younger (Hudson Energy Economics) sought clarification regarding whether the portion of transmission system capacity that can potentially be reserved for later release in Reconfiguration Auctions is determined based on the transmission system capacity that is not otherwise utilized by already existing Transmission Congestion Contracts (TCCs). Mr. Williams confirmed that transmission capacity potentially available for reservation is limited to a maximum of 10% of the transmission system capacity that is not otherwise utilized by certain pre-existing TCCs.

Mr. Mike Cadwalader (Atlantic Economics) requested confirmation that the TCCs that are recognized as pre-existing uses of transmission system capacity are TCCs that are not purchased through TCC auctions. Mr. Williams stated that Grandfathered Rights, Grandfathered TCCs, Incremental TCCs, Fixed Price TCCs, Existing Transmission Capacity for Native Load (ETCNL) TCCs, and Residual Capacity Reservation Right (RCRR) TCCs are accounted for in determining the portion of transmission capacity that is available to support the sale of TCCs through TCC auctions.

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.

11. Ancillary Services Shortage Pricing

Ms. Pallavi Jain (NYISO) reviewed the presentation included with the meeting material.

Mr. Montalvo asked whether the components of the proposal related to the supplemental reserves and the changes to the current reserve demand curve values and reserve shortage pricing are dependent on one another. Ms. Jain stated that the supplemental reserves component and proposed reserve demand curve and shortage pricing enhancements component of the proposal are independent aspects of the overall proposal. Mr. Montalvo noted that while the UIU is supportive of the proposed reserve demand curve and reserve shortage pricing enhancements, the UIU has not yet reached a final determination regarding the supplemental reserves component. Mr. Montalvo recommended that the NYISO consider the potential for seeking approval of each component separately at the Management Committee.

Mr. Cadwalader stated that it will be important to promptly commence efforts on the development of manual revisions to provide further details about the specific procedures related to the potential implementation of supplemental reserves in the future. Mr. Cadwalader recommended that the NYISO seek to develop such details during the first half of 2021. Ms. Jain stated that it is the NYISO's intent to develop manual revisions that would provide additional details regarding the procedures for implementing supplemental reserves when needed in the future.

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.

12. Enhanced Fast Start Pricing

Mr. Zachary Stines (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

13. Manual Revisions for Enhanced Fast Start Pricing

Ms. Stephanie King (NYISO) reviewed the presentation included with the meeting material.

Mr. Cadwalader noted appreciation for the NYISO's development of examples for inclusion in the manual to assist stakeholders with understanding the operation of the revised pricing rules for fast start resources.

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.

14. Hybrid Storage Model: Co-located Storage Resources (CSR) Market Design Proposal

Ms. Amanda Myott (NYISO) and Ms. Kanchan Upadhyay (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

15. Utilization of MSEs for Demand Side Resources

Mr. Jeremiah Brockway (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

16. Transmission Expansion and Interconnection Manual Revisions

Mr. Thinh Nguyen (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

17. ISO-NE and NYISO Coordination Agreement – Revisions to Descriptions of Interconnection Facilities

Mr. Aaron Markham (NYISO) reviewed the presentation included with the meeting material. There were no questions or comments.

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.

18. Working Group Updates

- <u>Billing and Accounting and Credit Working Group</u>: The group met on October 22, 2020 and reviewed: (1) the standard accounting/settlement reports; and (2) a proposal to eliminate the requirement to notarize the officer's certification form related to the minimum participation requirements.
- Electric System Planning Working Group: The group has met three times since the last BIC meeting. The group met on October 23, 2020 and reviewed: (1) key study assumptions for the short-term assessment of reliability study for Q4 2020; (2) a presentation by Con Edison regarding updates to its local transmission plan; (3) proposed revisions to the Economic Planning Process Manual; (4) study assumptions for the 2020 Congestion Assessment and Resource Integration Study (CARIS) Phase 2 analysis; and (5) potential enhancements to the economic planning process. On November 2, 2020, the group met and reviewed: (1) a presentation by Con Edison regarding updates to its local transmission plan; and (2) proposed revisions to the Transmission Expansion and Interconnection Manual. The group also met on November 6, 2020 and reviewed proposed enhancements to the economic planning process.
- Installed Capacity Working Group: The group has met jointly with MIWG and PRLWG twice since the last BIC meeting. On October 16, 2020, the group met and reviewed: (1) capacity market participation and capacity market mitigation requirements for co-located energy storage resources; and (2) proposed revisions to the Installed Capacity Manual related to duration limited resources and availability calculation methodologies for capacity supply resources. The group also met on October 27, 2020 and reviewed: (1) an overview of enhancements to fuel security monitoring that have been implemented by the NYISO; (2) an update regarding the status of the comprehensive capacity market mitigation review efforts; (3) proposed revisions to the Load Forecasting Manual; and (4) capacity market participation and capacity market mitigation requirements for colocated energy storage resources.
- Load Forecasting Task Force: The group has met twice since the last BIC meeting. The group met on October 21, 2020 and held its annual Fall Economic Conference reviewing national and New York economic outlook reports by Moody's Analytics. At the October 21, 2020 meeting, the group also reviewed: (1) the impacts on load patterns and energy consumption related to the ongoing COVID-19 pandemic; and (2) proposed revisions to the Load Forecasting Manual. On November 9, 2020, the group met and reviewed: (1) the preliminary weather normalized 2020 peak load values for use in developing the 2021/2022 Capability Year capacity market peak load forecast; (2) a presentation by PSEG Long Island on the impacts on load patterns and energy consumption related to the ongoing COVID-19 pandemic being experienced on Long Island; and (3) an overview of data the NYISO will begin posting related to production by behind-the-meter solar resources in New York.
- Market Issues Working Group: The group has met three times since the last BIC meeting, including joint meetings with ICAPWG and PRLWG. The group met on October 16, 2020 and reviewed: (1) energy market participation requirements for co-located energy storage resources; and (2) proposed enhancements to the current reserve shortage pricing values, reserve demand curves and reserve procurements. On October 27, 2020, the group met and reviewed: (1) an overview of enhancements to fuel security monitoring that have been implemented by the NYISO; (2) a proposal to extend use of the Meter Services Entity option to the Day-Ahead Demand Response Program and the Demand Side Ancillary Services Program; (3) energy market participation requirements for colocated energy storage resources; and (4) proposed revisions to pricing rules for fast-start resources. The group also met on November 3, 2020 and reviewed the NYISO's evaluation of 5-minute interregional transaction scheduling.
- <u>Price Responsive Load Working Group</u>: The group met jointly with ICAPWG and MIWG twice since the last BIC meeting (<u>i.e.</u>, October 16, 2020 and October 27, 2020). 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.

19. New Business

There was no new business.

Meeting adjourned at 12:00 p.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 21st 2020 meeting revisions to the Load Forecasting Manual; WHEREAS, the Installed Capacity Working Group ("ICAPWG") reviewed during its October 27th 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 23rd 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	1.2 1.74				- J	
Bayonne Energy Center, LLC	Generation Owners	Allman , Ellen	✓ Fromer , Howard	,	J.,	1					
Borrego Solar Systems, Inc.	Generation Owners	Delaney , Liz	Conway, Michael	Cox-Arslan , Kathryn	Brigandi , Michael	1					
CPV Valley LLC	Generation Owners	Litchfield, Matt	Rumsey , Tom	Pierpont , Daniel		1					
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve	Schwall , Matthew					
Covanta Niagara, LP	Generation Owners	Burke , David	Abbott , Sharon	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1					
Cricket Valley Energy Center	Generation Owners	Davis , Charles	Wallenstein , Arnold	Paryl, Ron		1					
Cypress Creek Renewables	Generation Owners	Kemp, Melissa	Eskew , Ollivia								
Danskammer Energy, LLC	Generation Owners	Reid, William	Cada, Eric								
EDP Renewables North America LLC	Generation Owners	Brodbeck, John	Loturco, Thomas	High, Jeremy	Priemer, Dustin						
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							
ndeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	✓ Younger, Mark								
Innovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
nvenergy 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	7							
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 DC Energy	Other Suppliers Other Suppliers	Reinhart, Brian Bleiweis, Bruce	Rotger, Jose	Tata Matthaw	Milhara Cadaa	Jaav Vumor					
		German, Robert	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					
OTE Energy Direct Energy Business Marketing, LLC	Other Suppliers Other Suppliers	Newton , Jonathan	Pakela, Gregory	Morris Candro		-					
		Weinstein , Andrew	Carrier , Ron	Morris , Sandra		1					
Oynegy Marketing and Trade ENEL X	Other Suppliers	i '	Allen , Sean Chibani , Yanis								
ENGIE Energy Marketing NA, Inc.	Other Suppliers Other Suppliers	Geller , Greg Levine , Jeffrey	Hawkins , Darin	Campbell, Chad							
Eastern Generation	Other Suppliers Other Suppliers	Baker, Liam	Reese, John	✓ Younger, Mark	✓ Schwall , Matthew	Johnson, David	Wolcott , Tyler				
Energy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas , Cristina	Cinadr , Matt		
				recourg, David	ISKOWIIZ, AI'OII	Biowii, Kuben	remaine, william	v megas , Cristina	Chiadr , 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								
IQ Energy Services US	Other Suppliers	✓ Plante , Matthieu	✓ Leuthauser, Scott	Guilbault , Louis	Bélanger , Frédéric						
nnoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve		- '						
Mercuria Energy America, Inc.	Other Suppliers	Davis , Andrew	✓Younger, Mark	Frye , Samuel							
forgan Stanley Capital Group, Inc.	Other Suppliers	Kochonies, Karen	Meditz, Alex	Grimes , Jordan							
IRG Power Marketing Inc.	Other Suppliers	Fitch, Neal	Hsia, Jennifer	Cona , Lisa	Kranz , Bradley						
lew York Transco	Other Suppliers	Mullin , Victor	Caso , Rob	Carrigan , Kathleen	Camp, Adam						
extEra Energy	Other Suppliers	Applebaum, David	Talbot, Soria	Gibelli , Stephen							
entario Power Generation, Inc.	Other Suppliers	Lauritsen, Kim									
SEG Energy Resource & Trade, LLC	Other Suppliers	Gordon , Joel	DePillo , Raymond	Cimino , David	Dillon , George						
iverbay Corporation	Other Suppliers	Merola , Peter	Ellison, Noel								
odan Energy Solutions (USA) Inc.	Other Suppliers	Breidenbaugh , Aaron	Ingram , Rachel								
ESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
Shell Energy North America, LLC	Other Suppliers	Picardi, Matt									

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	.,	, , , , , , , , , , , , , , , , , , , ,	1					
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							

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
ubit Power One Inc.	Non Voting	Powell , Alan	Powell , Leighton	Singer, Leonard						·	
Customized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓ Ackerman, Alan						
Ecesis LLC	Non Voting	Wu , Brian									İ
Energya VM	Non Voting	Garcia , Francisco	Maeso, Manual	Lopez, Ana	Corvillo , Cristina						
Fluent Energy	Non Voting	Acampora , Peter	Doll , Ed								İ
GI Energy	Non Voting	Falcier, Peter	Robinson, James								
lighview Power Storage, Inc.	Non Voting	Riley, Richard	Minopoli , Salvatore								
ludson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
Iydro-Quebec TransEnergie	Non Voting	Prevost, Michel									
TC Mid-Atlantic Development LLC	Non Voting	Wrenbeck, Tom	Benedict, Nathan								
nstitute 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								
yonsdale Biomass, LLC	Non Voting	Ralston, William	Hebel, Nathan	Carrigan , Kathleen							
MAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre								
1arathon Energy	Non Voting	Nichols , Jim	Perrotti , Frank	Yeager, Keith							
RG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie							
IY-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise								
IYS Department of Public Service	Non Voting	Paynter, Thomas	Evans , Adam								
ational Fuel Gas Distribution Corporation	Non Voting	Stankovski , Maryann	Eck, Robert								
New Athens Generating Co. LLC	Non Voting	Tripp, Hank									
ortheast Clean Heat & Power Initiative	Non Voting	Melpignano, Kristin	Brown, Ruben	Cinadr , Matt	Dwyer, Herb	Lillian, Jon					
uEnergen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan								
us Power, LLC	Non Voting	Fraenkel, Alex									
ENEW Northeast	Non Voting	Pullaro , Francis	Krich, Abigail								
ichard P. Felak	Non Voting	Felak, Rich									
TEM, Inc.	Non Voting	Ko, Ted	Bellacicco, John								
aracen Energy East LP	Non Voting	Peebles , Andy	Miller, Jason								
avion, LLC	Non Voting	Doering , Anthony	Sunderman, Derek								
iemens Energy, Inc.	Non Voting	Feltes , James									
aylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page, Allan								
eichos Energy, LLC	Non Voting	Maclearnsberry, Kirk	VanCoevering , Darrel								
esla, Inc.	Non Voting	Van Cleve, Sarah	Gilfenbaum, Eliah								
ransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	Abend, Erik								
ransmission Developers Inc.	Non Voting	Jessome , Donald	Helmer, William	Harrison, Bob	Coxe, Raymond						
ransource New York, LLC	Non Voting	Rupert, David	Cundiff, Robert								
Vheelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti, Jim								
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					