NYISO Business Issues Committee Meeting Minutes June 24, 2020 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. The members of the BIC identified themselves and attendance was recorded. A quorum was determined.

2. Market Operations Report and Broader Regional Markets Report

Mr. Michael DeSocio (NYISO) reviewed the Market Operations and Broader Regional Markets reports included with the meeting material.

Mr. Dan Mahoney (NYPA) asked whether the NYISO is able to differentiate impacts on wholesale market prices for milder weather versus the impacts of the COVID-19 pandemic. Mr. DeSocio stated that the NYISO does not have information that attempts to directly assign changes in prices to specific factors such as weather or the ongoing impacts on load related to the COVID-19 pandemic.

Mr. DeSocio reviewed the broader regional markets report included with the meeting material noting that there have been no updates to the report since the last BIC meeting.

3. CARIS Phase 1 Report

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

Mr. Kevin Lang (Couch White) raised concerns about the need to avoid the potential for adverse consequences of utilizing data from the Congestion Assessment and Resource Integration Study (CARIS) in subsequent analyses conducted as part of the Reliability Needs Assessment (RNA) in the event that more recent data and information may be available at the time a subsequent RNA is undertaken. Mr. Zach G. Smith (NYISO) clarified that the RNA base case utilizes the most current information available at the time it is developed and CARIS is conducted subsequent to the RNA as part of each planning cycle under the Comprehensive System Planning Process (CSPP). Mr. Zach G. Smith further noted that the data and information from the reliability planning process is used in developing the subsequent CARIS base case modeling assumptions.

Mr. Mark Younger (Hudson Energy Economics) requested confirmation that the CARIS Phase 1 base case assumes the Somerset generation facility as in-service due to the fact that its retirement did not occur until after the date for finalizing assumptions for such base case. Mr. Frasier confirmed that the Somerset generation facility is assumed as in-service for purposes of the CARIS Phase 1 base case due to the timing of the facility's retirement subsequent to the date for finalizing assumptions for the base case. Mr. Fraser further noted that the facility was assumed to be out-of-service for purposes of the 70x30 scenario conducted as part of the CARIS Phase 1 analyses.

Mr. Dave Clarke (LIPA) asked for further information regarding the assumed cost of energy efficiency assessed in evaluating the relative benefit of utilizing energy efficiency to relieve the persistent transmission congestion for the three study areas identified in the CARIS Phase 1 base case results. Mr. Frasier noted that the magnitude of energy efficiency required to relieve persistent transmission congestion in the study areas identified in the CARIS Phase 1 base case assessment results in a need to rely on more expensive measures that are above and beyond the level of energy efficiency assumed as already existing in the base case.

Mr. Wentlent asked for clarification regarding the nuclear retirement assumptions in the CARIS Phase 1 base case. Mr. Frasier stated that for purposes of the CARIS Phase 1 base case, the only nuclear facility retirements assumed are Indian Point 2 and 3.

Mr. Clarke noted appreciation for the NYISO's efforts in developing and undertaking the 70x30 scenario conducted as part of the CARIS Phase 1 analyses.

Market Monitoring Unit's Assessment of the CARIS Phase 1 Results

Mr. Pallas LeeVanSchaick (Potomac Economics) reviewed a presentation regarding the Market Monitoring Unit's review of the 2019 CARIS Phase 1 report.

Mr. Lang asked for clarification regarding the nature of the capacity market benefits that the Market Monitoring Unit (MMU) contends are not currently accounted for as part of the CARIS Phase 1 base case assessment. Mr. LeeVanSchaick stated that the benefit-to-cost ratios calculated under the CARIS Phase 1 base case analysis do not currently account for any capacity market impacts that can result from transmission system upgrades, such as reducing locational capacity requirements.

Mr. Younger asked for clarification regarding how the MMU estimated potential renewable energy credit (REC) revenue values in 2030 for various renewable technologies under an indexed REC structure. Mr. LeeVanSchaick stated that the MMU assumed that strike price for renewable resources would be set to a value equal to the levelized cost of new entry (CONE) calculated by the MMU for various renewable technologies in locations throughout New York and that the REC revenues received would reflect the indexed REC construct's offset for average capacity and zonal energy market revenues based on the MMU's estimation of such future capacity and energy market prices.

Mr. Howard Fromer (PSEG) asked what discharge duration capability is assumed in the MMU's analysis regarding the potential economics for operating energy storage in 2030. Mr. LeeVanSchaick stated that the MMU's analysis assumed 4-hour duration energy storage resources.

Motion #1:

WHEREAS, the Electric System Planning Working Group ("ESPWG") and Transmission Planning Advisory Subcommittee ("TPAS") have held a series of meetings to discuss and review the studies and analyses underlying the NYISO's 2019 Congestion Assessment and Resource Integration Study ("2019 CARIS") Phase 1; and

WHEREAS, NYISO Staff has posted a draft 2019 CARIS Report dated June 17, 2020, including Appendices ("Draft Report"), for the June 24, 2020 Business Issues Committee ("BIC") meeting; and

The Business Issues Committee ("BIC") hereby recommends that the Management Committee recommend that the Board of Directors approves the 2019 CARIS Phase 1 Draft Report, as presented and discussed at the BIC meeting held on June 24, 2020.

Motion passed unanimously.

4. Working Group Updates

- <u>Billing and Accounting and Credit Working Group:</u> The group met on June 18, 2020 and reviewed the standard accounting/settlement reports, proposed enhancements to the credit security requirements for the Transmission Congestion Contracts (TCC) market, and the zonal cost allocation results that will apply to costs for Segment A of the AC Transmission Public Policy Transmission Need.
- <u>Electric System Planning Working Group</u>: The group has met three times since the last BIC meeting. On May 22, 2020, the group met and reviewed updates to topology and other base case modeling assumptions for the 2020 Reliability Needs Assessment (RNA), the draft study report for the 2019 Congestion Assessment and Resource Integration Study (CARIS) Phase 1 analysis, and topology assumptions for the 2021/2022 Capability Year installed reserve margin analysis. The group met on June 4, 2020 and reviewed a presentation by Analysis Group regarding the methodology and assumptions for the Phase II analysis being conducted as part of the ongoing climate change impact and resilience study project, an overview of the timeline for reliability planning study activities for 2020, and the draft study report for the 2019 CARIS Phase 1 analysis. The group also met on June 19, 2020 and reviewed initial results for the 2020 RNA base case, assumptions for the 70x30 scenario to be conducted as part of the 2020 RNA, and the zonal cost allocation results that will apply to costs for Segment A of the AC Transmission Public Policy Transmission Need.

- Installed Capacity Working Group: The group has met jointly with MIWG and/or PRLWG five times since the last BIC meeting. The group met on May 20, 2020 and reviewed the application of buyer-side mitigation rules to new Special Case Resources in response to FERC's directives, and a presentation by the Advanced Energy Management Alliance regarding considerations related to the application of buyer-side mitigation rules to new Special Case Resources in response to FERC's directives. On June 2, 2020, the group met and reviewed the bidding rules for energy storage resources participating in the wholesale capacity market, and an overview of the renewable technology assessment to be conducted as part of the renewable exemption of the buyer-side mitigation rules. The group met on June 8, 2020 and reviewed the reviewed the Market Monitoring Unit's 2019 State of the Market report. On June 10, 2020, the group met and reviewed a presentation by Analysis Group regarding its draft report and preliminary results related to the ongoing 2019-2020 ICAP Demand Curve reset process, and grid operations considerations regarding maintaining reliability in response to the ongoing transformation of the electric system. The group also met on June 22, 2020 and reviewed a presentation by NRG regarding a forward clean energy market construct, reliability considerations and potential enhancements in response to the ongoing transformation of the electric system, and a presentation by The Brattle Group regarding results of its analysis to assist in determining potential wholesale market impacts of anticipated changes to the electric system through 2040 in response to the requirements of the Climate Leadership and Community Protection Act (CLCPA).
- <u>Load Forecasting Task Force:</u> The group has met twice since the last BIC meeting. On May 21, 2020, the group met and reviewed impacts on load patterns and energy consumption related to the ongoing COVID-19 pandemic, and the economic scenario analysis for its Spring Economic Conference. The group met on June 17, 2020 for its annual Spring Economic Conference, and also reviewed impacts on load patterns and energy consumption related to the ongoing COVID-19 pandemic, as well as considerations related to quantifying the amount of behind-the-meter solar generation installed in New York.
- Market Issues Working Group: The group has met jointly with ICAPWG and PRLWG four times since the last BIC meeting. On June 2, 2020, the group met 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, a proposal to increase the current 30-minute reserve requirement for the Southeastern New York (SENY) reserve region, and the Consumer Impact Analysis related to the proposal to increase the current 30-minute reserve requirement for the SENY reserve region. The group met on June 8, 2020 and reviewed the reviewed the Market Monitoring Unit's 2019 State of the Market report. The group met on June 10, 2020 and reviewed grid operations considerations regarding maintaining reliability in response to the ongoing transformation of the electric system, and the supplemental survey results related to the Autumn 2020 Centralized TCC Auction. On June 22, 2020, the group met and reviewed reliability considerations and potential enhancements in response to the ongoing transformation of the electric system, and a presentation by The Brattle Group regarding results of its analysis to assist in determining potential wholesale market impacts of anticipated changes to the electric system through 2040 in response to the requirements of the CLCPA. Price Responsive Load Working Group: The group met jointly with ICAPWG and/or MIWG five times since the • last BIC meeting (i.e., May 20, 2020, June 2, 2020, June 8, 2020, June 10, 2020, and June 22, 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.

5. New Business

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There was no new business.

Meeting adjourned at 12:10 p.m.

Business Issues Committee Meeting

June 24, 2020 Final Motion

Motion #1:

WHEREAS, the Electric System Planning Working Group ("ESPWG") and Transmission Planning Advisory Subcommittee ("TPAS") have held a series of meetings to discuss and review the studies and analyses underlying the NYISO's 2019 Congestion Assessment and Resource Integration Study ("2019 CARIS") Phase 1; and

WHEREAS, NYISO Staff has posted a draft 2019 CARIS Report dated June 17, 2020, including Appendices ("Draft Report"), for the June 24, 2020 Business Issues Committee ("BIC") meeting; and

The Business Issues Committee ("BIC") hereby recommends that the Management Committee recommend that the Board of Directors approves the 2019 CARIS Phase 1 Draft Report, as presented and discussed at the BIC meeting held on June 24, 2020.

Motion passed unanimously.

New York Independent System Operator - Committee Membership

Business Issues Committee - June 24, 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						
Bayonne Energy Center, LLC	Generation Owners	Allman, Ellen	Fromer, Howard		-						
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							
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						ľ
Empire Generating Co, LLC	Generation Owners	Morris, Chandler	Maida , Jeff	Hudson, Daniel							
Entergy Nuclear Northeast	Generation Owners	Dell Orto, Ken	Saia, Doreen	Bergeron, John							ľ
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	5,						
Ioward Wind LLC	Generation Owners	Smith, David	Brocks, Annette	Rohrbach, John							ľ
ndeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	Vounger, Mark	,							
nnovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
nvenergy Energy Management LLC	Generation Owners	Bangston, Kaley	Goldstein, Michael	Orzel, Chris							
Ley Capture Energy	Generation Owners	Galarneau , Kenneth	Goldwasser, Rachel	Fitzgerald, Dan							
Vational Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe, Brian								
North East Offshore, LLC	Generation Owners	Reynolds, Melissa									
elkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy									
omerset Operating Company, LLC	Generation Owners	Gregson, Brian	Goodenough, Jeery	Love, Jordan							
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						
Castleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss, Gordon	Romine, Brad	Emmett, Robert	Madolilla, Filli						
Citigroup Energy Inc.	Other Suppliers	Gollomp , Jeffrey	Bisaria , Shikher	Linnen, KOUCH							
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	Tota Mattheres	Milhong C-4	Laave Krosser					
OC Energy	Other Suppliers	Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					
DTE Energy	Other Suppliers	German, Robert	Pakela, Gregory	Mari 6 1							
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	~							
ENGIE Energy Marketing NA, Inc.	Other Suppliers	Levine , Jeffrey	Hawkins , Darin	Campbell , Chad	1						
Eastern Generation	Other Suppliers	Baker, Liam	Reese, John	Vounger, 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		
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		Leuthauser, Scott	Guilboult I	Dolongon Fuldei-						
		Plante, Matthieu		Guilbault, Louis	Bélanger, Frédéric						
nnoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve								
Aercuria Energy America, Inc.	Other Suppliers	Davis , Andrew	Vounger, Mark	Frye, Samuel							
Aorgan 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	Other Suppliers	Mullin, Victor	Caso , Rob	Carrigan , Kathleen	Camp , Adam						
JextEra Energy	Other Suppliers	Applebaum, David	Talbot, Soria	Gibelli , Stephen						Schwall, Matthew	
ntario 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								
ESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
hell Energy North America, LLC	Other Suppliers	Picardi, Matt									
tephentown 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									
/itol Inc.	Other Suppliers	Wadsworth, Joe	Viola , Bob	Kahn, Casey							
XO Energy NY, LP	Other Suppliers	Drangula , Carey	Thompson, Matthew	Hughes, Adam							

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6
Central Hudson Gas & Electric Corp.	Transmission Owners	May , Jeff	🗸 Chan, Ting	Jolly, James	Delmar, Valerie			
Consolidated Edison Co. of NY, Inc.	Transmission Owners	VQuin, Jane	Hargett, Chris	Yu, Joel	Lazarus , Dana	Butterklee, Neil	LoFrumento, Susan	
National Grid	Transmission Owners	Janzen, Margaret	Lodemore, David	Wilkie, Brian				
New York State Electric & Gas (NYSEG)	Transmission Owners	Caletka, Patricia	Lynch, Tim	Brophy, Richard				
Orange & Rockland Utilities, Inc.	Transmission Owners	, ,				-		
Rochester Gas and Electric Corp.	Transmission Owners	Caletka, Patricia	Lynch, Tim	Brophy , Richard				
Alcoa, Inc.	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey, Amanda	Lang, Kevin			
IBM Corporation	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey, Amanda	🗸 Lang, Kevin			
Nucor Steel Auburn, Inc.	Large Consumer	Brew , James	Mackaronis, Chris	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	Morris, Jackson				
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	🗸 Lang, Kevin	Mager, Michael	Trinsey, Amanda			
Fordham University	Small Consumer	Luthin, Catherine	🗸 Lang, Kevin	Mager, Michael	Trinsey, Amanda			
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	🗸 Lang, Kevin	Mager, Michael	Trinsey, Amanda			
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	🗸 Lang, Kevin	Mager, Michael	Trinsey, Amanda			
New York University	Small Consumer	Luthin, Catherine	🗸 Lang, Kevin	Mager, Michael	Trinsey, Amanda			
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	Hogan , Erin	Montalvo , Marc	O'Hare , Katie				
City of New York	Government Small Consumer and Retail Aggregate	🗸 Lang, Kevin	✓ Mager, Michael	Trinsey, Amanda				
NYS Energy Research & Dev. Authority	Government Small Consumer and Retail Aggregate	Hall, Christopher	Matteson , Schuyler	Zielinski, Andrew	Mas , Carl	Coup, David		
Long Island Power Authority	State Power Authorities	Clarke, Dave	Wilczek, Mariann		YZ I			
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 Jamestown Board of Public Utilities	Municipalities and Coops Municipalities and Coops	Livingston , Al Sellstrom , Kris	Rudebusch, Tom Leathers, David	Fiore , Chris Allen , Cory	Rudebusch, Tom			
Lake Placid Village	Municipalities and Coops	Daby, Kimball	Wentlent, Chris	Cordeiro, Mark	Kudebusen, Tom			
Municipal Commission of Boonville	Municipalities and Coops	Varner, Doug	Wentlent, Chris	Cordeiro, Mark				
Plattsburgh Municipal Lighting Dept	Municipalities and Coops	Treacy, William	Wentlent, Chris	Cordeiro, Mark				
Village of Arcade	Municipalities and Coops	Kilburn, Larry	Wentlent, Chris	Cordeiro, Mark				
Village of Fairport	Municipalities and Coops	Hegarty, Matt	Wentlent, Chris	Cordeiro, Mark				
Village of Rockville Centre	Municipalities and Coops	Andreas, Philip	Valenzano, Michael	Rudebusch, Tom				
Village of Solvay	Municipalities and Coops	Hawksby, Joe	Wentlent, Chris	Cordeiro, Mark				
Village of Westfield	Municipalities and Coops	Thompson, Andrew	Wentlent, Chris	Cordeiro, Mark				
American Wind Energy Association	Environmental	Reynolds, Anne	Reeder, Mark	Fink, Sari	Tabak , Gabe	Grace, Gene		
Environmental Advocates	Environmental	Bambrick , Conor	Morris, Jackson					
Environmental Defense Fund	Environmental	Peress J., Naim	Stein, Elizabeth	Karas , Natalie	Murphy , Erin			
Natural Resources Defense Council	Environmental	Casey, Christopher	Howe, Cullen	Morris, Jackson	De Costanzo, Donna			
New York City Environmental Justice Alliance	Environmental	Garcia, Carlos	Bautista, Eddie					
PACE Energy & Climate Center	Environmental	Hart, Craig	Valova, Radina	Howe, Cullen				
Riverkeeper AES ES Holdings LLC	Environmental Non Voting	Webster , Richard Hillman , Sharon	Morris, Jackson Kumaraswarmy , Kiran					
Able Grid Energy Solutions, Inc.	Non Voting	Lines, Sam	Mills, Sara					
Acadia Center	Non Voting	Donovan, Deborah	initio , butu					
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 Boston Energy Marketing & Trading	Non Voting Non Voting	Caplan , Michael Kramek , Mike						
Boston Energy Marketing & Trading 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	campoon , Dittee			
Calpine Energy Solutions	Non Voting	Sun , Jungsuk	Nakhonthap , Jade	Sunga, Leonard				
Cubit Power One Inc.	Non Voting	Powell, Alan	Powell, Leighton	Singer, Leonard				
Customized Energy Solutions	Non Voting	🗸 Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	🗸 Ackerman, Alan			
Ecesis LLC	Non Voting	Wu , Brian						
Energya VM	Non Voting	Garcia, Francisco	Maeso, Manual	Lopez , Ana	Corvillo, Cristina			
Fluent Energy	Non Voting	Acampora, Peter	Doll , Ed	I	I			I

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6
GI Energy	Non Voting	Falcier, Peter	Robinson, James					
Highview Power Storage, Inc.	Non Voting	Riley, Richard	Minopoli, Salvatore					
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			
LS Power Grid NY	Non Voting	Willick , Lawrence	York, Joshua	Carroll, Casey	Hayes, Patrick			
Lockport Energy Assoc.	Non Voting	Gesicki, Thomas	Youngberg , Mar y					
Lyonsdale Biomass, LLC	Non Voting	Ralston, William	Hebel, Nathan	Carrigan, Kathleen				
MAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre					
Marathon Energy	Non Voting	Nichols, Jim	Perrotti, Frank	Yeager, Keith				
NRG Curtailment Solutions, Inc.	Non Voting	🗸 Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie				
NY-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise					
NYS Department of Public Service	Non Voting	Paynter , Thomas	Evans, Adam					
National Fuel Gas Distribution Corporation	Non Voting	Stankovski , Maryann	Eck , Robert					
New Athens Generating Co. LLC	Non Voting	Tripp, Hank						
Northeast Clean Heat & Power Initiative	Non Voting	Melpignano, Kristin	Brown, Ruben	Cinadr , Matt	Dwyer , Herb	Lillian, Jon		
NuEnergen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan					
Plus Power, LLC	Non Voting	Fraenkel, Alex						
RENEW Northeast	Non Voting	Pullaro, Francis	Krich, Abigail					
Richard P. Felak	Non Voting	Felak, Rich						
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	Van Cleve , Sarah	Gilfenbaum , Eliah					
TransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	Abend , Erik					
Transmission Developers Inc.	Non Voting	Jessome, Donald	Helmer, William	Harrison, Bob	Coxe, Raymond			
Transource New York, LLC	Non Voting	Rupert, David	Cundiff, Robert					
Wheelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti, Jim					
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim		

6	Alternate7	Proxy	Guest