#### NYISO Business Issues Committee Meeting Minutes February 13, 2019 11:00 a.m. – 11:20 a.m.

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

Mr. Chris Wentlent (MEUA) called the meeting to order at 11:00 a.m. by welcoming the members of the BIC. The members of the BIC identified themselves and attendance was recorded. A quorum was determined.

#### 2. Approval of BIC Minutes

There were no questions or comments regarding the draft minutes for the January 16, 2019 BIC meeting that were included as part of the meeting material.

#### Motion #1:

Motion to approve the Minutes of the January 16, 2019 BIC meeting.

Motion passed unanimously.

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

Mr. Rana Mukerji (NYISO) reviewed the Market Operations report posted with the meeting material. There were no questions or comments regarding the Market Operations report.

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

#### 4. 2019/2020 Capability Year External ICAP Rights

Mr. Hoël Wiesner (NYISO) reviewed the presentation included with the meeting material.

Mr. Michael Mager (Couch White) asked for a comparison of the proposed values for the 2019/2020 Capability Year to the values for the 2018/2019 Capability Year. Mr. Wiesner stated that the 2018/2019 Capability Year maximum allowable import limit values are 1,101 MW from PJM, 288 MW from ISO-NE, 453 MW from Ontario, 1,115 MW from Quebec via Chateauguay, and 0 MW from Quebec via Cedars.

Mr. Mager asked for further information regarding key factors that may be driving changes from the 2018/2019 Capability Year values. Mr. Wiesner stated that changes from the 2018/2019 Capability Year values can be due to a number of factors including the outage of certain phase angle regulators on the lines between the NYISO and PJM and the resulting impacts thereof on power flows and assumptions related to emergency assistance.

#### Motion #2:

The Business Issues Committee ("BIC") hereby approves the revisions to the Installed Capacity Manual regarding as described in the presentation made to the BIC on February 13, 2019.

Motion passed unanimously with an abstention.

#### 5. Working Group Updates

- Billing and Accounting and Credit Working Group: The group has not met since the last BIC meeting.
- <u>Electric System Planning Working Group:</u> The group has met twice since the last BIC meeting. The group met on January 23, 2019 and reviewed key study assumptions for the Generator Deactivation Assessment related to the ICAP Ineligible Forced Outage status for the Blenheim-Gilboa 1 unit. The group also met on February 11, 2019 and reviewed the potential for pursuing a waiver request related to the Class Year process, and the proposed revisions to the AC

Transmission Public Policy Transmission Planning report resulting from the NYISO Board of Directors' review of the initial draft report.

- Installed Capacity Working Group: The group has met jointly with MIWG and PRLWG five times since the last BIC meeting. The group met on January 22, 2019 and reviewed a proposal for revising capacity payment and qualification structures to address duration-limited resources including capacity market participation rules for distributed energy resources (DER). On January 24, 2019, the group met and reviewed a presentation by Potomac Economics regarding its assessment of the capacity value of duration-limited resources, and the proposed methodology for conducting the Consumer Impact Analysis related to the participation of DER in the wholesale markets. The group met on January 31, 2019 and reviewed an overview of the project to assess potential changes to the current availability and performance measures for capacity suppliers, proposed ICAP Manual revisions addressing External-to-Rest of State Deliverability Rights (EDR) procedures, proposed changes to the requirements for external capacity resources to respond to Supplemental Resource Evaluation (SRE) requests, and proposed changes to capacity payment and qualification structures to address duration-limited resources including capacity market participation rules for DER. The group also met on February 4, 2019 and reviewed the Consumer Impact Analysis related to the participation of DER in the wholesale markets, the proposed allowable import capacity values from external areas for the 2019/2020 Capability Year, and proposed changes to the current requirements for submitting annual capacity market and annual and semiannual demand response program reports to FERC. On February 6, 2019, the group met and reviewed the proposed capacity market rules for DER, and the proposed interconnection and Capacity Resource Interconnection Service (CRIS) requirements for DER.
- Load Forecasting Task Force: The group has not met since the last BIC meeting.
- Market Issues Working Group: The group has met jointly with ICAPWG and PRLWG five times since the last BIC meeting. On January 22, 2019, the group met and reviewed an initial overview of tariff changes that would be necessary in connection with the carbon pricing initiative. The group met on January 24, 2019 and reviewed an overview of the current Ancillary Services markets and products, a proposal for establishing a New York City reserve region and associated reserve requirements, the proposed methodology for conducting the Consumer Impact Analysis related to the participation of DER in the wholesale markets, and the proposed methodology for allocating the carbon residual to Load Serving Entities (LSEs) as part of the carbon pricing initiative. The group met on January 31, 2019 and reviewed an overview of credit policy implications for the carbon pricing initiative, an overview of certain tariff changes that would be necessary to address the carbon pricing initiative. On February 4, 2019, the group met and reviewed the proposed methodology for allocating the carbon residual to LSEs as part of the carbon pricing initiative, the Consumer Impact Analysis related to the participation of DER in the wholesale markets, proposed changes to the current requirements for submitting annual capacity market and annual and semi-annual demand response program reports to FERC, and the proposed rules for the participation of DER in the wholesale energy and ancillary services markets. The group also met on February 6, 2019 and reviewed the proposed interconnection and CRIS requirements for DER, and the proposed rules for the participation of DER in the wholesale energy and ancillary services markets.
- <u>Price Responsive Load Working Group:</u> The group has met five times since the last BIC meeting. The group met jointly with MIWG and ICAPWG on January 22, 2019, January 24, 2019, January 31, 2019, February 4, 2019, and February 6, 2019 and reviewed the DER-related agenda topics for each meeting.

#### 6. New Business

There was no new business.

The meeting adjourned at 11:20 a.m.

# Business Issues Committee Meeting February 13, 2019 Final Motions

## Motion#1:

Motion to approve the Minutes of the January 16, 2019 BIC meeting.

Motion passed unanimously.

## Motion #2:

The Business Issues Committee ("BIC") hereby approves the revisions to the Installed Capacity Manual regarding as described in the presentation made to the BIC on February 13, 2019.

Motion passed unanimously with an abstention.

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

## **Business Issues Committee - January 16, 2019 - KCC - 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	Caplan, Stu								
CPV Valley LLC	Generation Owners	Litchfield , Matt	Rumsey, Tom	Pierpont , Daniel							
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve						[
Cricket Valley Energy Center	Generation Owners	Davis , Charles	Wallenstein, Arnold	Paryl, Ron							1
Danskammer Energy, LLC	Generation Owners	Reid, William	Cada, Eric								
EDP Renewables North America LLC	Generation Owners	Brodbeck, John	Kaplan, Seth	Ingalls, Kellen	Loturco, Thomas	High , Jeremy	Priemer , Dustin				1
East Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	Lee, Tina	Franzetti , Paul						-
Empire Generating Co, LLC	Generation Owners	Nuss , Kurt	Argetsinger , Andrew	Willson , Darrell	Swenson, Nils						-
Entergy Nuclear Northeast	Generation Owners	Dell Orto , Ken	Saia, Doreen	Bergeron , John							-
Helix Ravenswood LLC	Generation Owners	D'Andrea , James	Kline, Marc	DiBari , Dominic							+
Howard Wind LLC	Generation Owners	Merich , Olivia	Rugh , Chris								+
Indeck Energy Services, Inc.	Generation Owners	<u> </u>	✓ Younger, Mark								-
Innovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								-
Invenergy Energy Management LLC	Generation Owners	Pakula , Maggie	Goldstein , Michael	Orzel , Chris							+
National Grid Generation LLC	Generation Owners	Kain , Terrence	McCabe, Brian								ł
Noble Environmental Power LLC	Generation Owners	Silton , Harry	ъ т								ł
Selkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy	Ryan , James	Y Y1							ł
Somerset Operating Company, LLC	Generation Owners	Gregson , Brian	Goodenough , Jeery	Love , Jordan							ł
BJ Energy LLC	Other Suppliers	Ni, Bing	Lee, George	✓ Ackerman, Alan							t
BP Energy Company	Other Suppliers	Chintapalli , Raj	Magruder , Kathy	j -							ł
BioUrja Power, LLC BlueRock Energy, Inc.	Other Suppliers	Shah , Kinjal	Patel , Ankeet	Eamani , Arun	W1-h I						ł
	Other Suppliers	VanHorne, Phil LaRoe, Chris	Campese , Bobby	Quill , Megan	Klaben , Jason Lund , Roxana						†
Brookfield Energy Marketing L.P.	Other Suppliers		Talamo , Marco	Dallaire , Eric							ł
CPower Castleton Commodities Merchant Trading L.P.	Other Suppliers	Dotson-Westphalen , Peter Stuss , Gordon	Hourihan, Michael Romine, Brad	Damaskos , Deno Emmett , Robert	Campbell , Bruce						t
Citigroup Energy Inc.	Other Suppliers Other Suppliers	Trayers, Barry	Romine, Brau	Emmett, Robert							i i
		Mah, Norman	Daniel Leff								ł
Con Edison Solutions Inc. Constellation New Energy	Other Suppliers	Barlette , Richard	Dannels , Jeff Kirk , Steven								t
Cross Sound Cable Company, LLC	Other Suppliers Other Suppliers	Reinhart, Brian	Rotger, Jose								t
DC Energy	Other Suppliers	✓ Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					
	Other Suppliers	Pakela, Gregory	Wieszczyk, Raymond	German, Robert	Winderg, Sadao	Jeev , Kumai					†
DTE Energy Direct Energy Business Marketing, LLC	Other Suppliers  Other Suppliers	Galarneau, Kenneth	· · · · ·	German , Robert							t
Drift Marketplace, Inc.		i '	Philips , Marjorie								ł
Dynegy Marketing and Trade	Other Suppliers Other Suppliers	Tilley , Alan Frazier , Amanda	Robinson , Greg Allen , Sean								†
ENEL X	Other Suppliers	Geller, Greg	Chibani , Yanis								İ
ENGIE Energy Marketing NA, Inc.	Other Suppliers	Levine , Jeffrey	Hawkins , Darin	Campbell, Chad							
Eastern Generation	Other Suppliers	Baker, Liam	Reese, John	Younger, Mark	Schwall , Matthew	Johnson , David	Wolcott, Tyler				
Energy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas , Cristina	Cinadr , Matt		1
Energy Technology Savings Inc. d/b/a Logical	Other Suppliers		•	relouig, David	iskowitz, zuon	Brown, Ruben	rendand, wimain	vinegas , Cristina	Cinadi , Mati		1
Buildings	Califor Suppliers	Hendler, Jeff	Ross , Valerie								
Exelon Generating Co. LLC	Other Suppliers	Barlette, Richard	Kirk, Steven								
Galt Power	Other Suppliers	Fernands, Rochelle	✓ Ackerman, Alan								
HQ Energy Services US	Other Suppliers	✓ Plante , Matthieu	✓ Leuthauser, Scott	Guilbault, Louis	Bélanger, Frédéric						
Innoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve								
Lyonsdale Biomass, LLC	Other Suppliers	Ralston, William	Hebel, Nathan	Carrigan, Kathleen							
Mercuria Energy America, Inc.	Other Suppliers	Davis , Andrew	✓Younger, Mark	Frye , Samuel							
Morgan Stanley Capital Group, Inc.	Other Suppliers	Kochonies, Karen	Meditz , Alex	Grimes , Jordan							
NRG Power Marketing Inc.	Other Suppliers	Fitch, Neal	Hsia, Jennifer	Cona , Lisa	Kranz , Bradley						
New York Transco	Other Suppliers	Nachmias, Stuart	Hitti , Nabil	Caso , Rob	Carrigan, Kathleen	McKinney , Jeff					
NextEra Energy	Other Suppliers	Applebaum, David	Gardner, Michelle	Gibelli , Stephen							
Ontario Power Generation, Inc.	Other Suppliers	Gell, Richard									
PSEG Energy Resource & Trade, LLC	Other Suppliers	Fromer, Howard	DePillo, Raymond	Cimino , David	Murawski , James						
Riverbay Corporation	Other Suppliers	Merola, Peter	Ellison, Noel								
SESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
Shell Energy North America, LLC	Other Suppliers	Picardi, Matt									
Stephentown Spindle, LLC	Other Suppliers	Streeter, Christopher	,								
Talen Energy	Other Suppliers		✓ Hohenshilt , Jennifer	Labella , Julie	Raggio , Debra						
Viridity Energy, Inc.	Other Suppliers	Freifeld, Allen									
Vitol Inc.	Other Suppliers	Wadsworth, Joe	Viola, Bob	Kahn, Casey							1

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
XO Energy NY, LP	Other Suppliers	Drangula , Carey	Thompson , Matthew	Hughes , Adam						•	
Central Hudson Gas & Electric Corp.	Transmission Owners	✓Borchert , John	Chan, Ting	May , Jeff	Dittmann, David						
Consolidated Edison Co. of NY, Inc.	Transmission Owners	✓ Quin , Jane	Nachmias, Stuart	Butler, Scott	Hargett , Chris	Butterklee, Neil					
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								
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								
American Sugar Refining, Inc	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey , Amanda					
Association for Energy Affordability	Small Consumer	Strauss , Valerie	Hepinstall, David	Farmer , Miles							
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey , Amanda					
Fordham University	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda					
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda					
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda					
New York University	Small Consumer	Luthin, Catherine	✓ Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda					
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	✓ Hogan , Erin	✓ Montalvo , Marc	Loiacono , Matthew	O'Hare , Katie						
City of New York	Government Small Consumer and Retail Aggregate	Lang, Kevin	Mager, Michael	Trinsey, Amanda							İ
NYS Energy Research & Dev. Authority	Government Small Consumer and Retail Aggregate	✓Hall , Christopher	Matteson , Schuyler	Osso Jr., Joe	Mas , Carl	Coup, David					
Long Island Power Authority	State Power Authorities	✓Clarke, Dave	Wilczek, Mariann								
New York Power Authority	State Power Authorities	✓ Antinori , Andrew	✓ 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	Municipalities and Coops	Sellstrom , Kris	Leathers, David	Allen , Cory	✓ Rudebusch, Tom						
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							
American Wind Energy Association	Environmental	Reynolds , Anne	Reeder, Mark	Fink, Sari	Beck, Betsy	Grace, Gene					
Environmental Advocates	Environmental	Bambrick , Conor	Farmer , Miles	Morris, Jackson	Been, Bensy	James , Senie					•
Environmental Defense Fund	Environmental	Christian , Rory	Stein, Elizabeth	Panfil , Michael							
Natural Resources Defense Council	Environmental	Farmer, Miles	Morris, Jackson	De Costanzo , Donna							
PACE Energy & Climate Center	Environmental	Musgrove, Sheryl	Taylor, Geordi	Farmer, Miles							
Riverkeeper	Environmental	Webster, Richard	Morris, Jackson	Farmer, Miles							
AES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswarmy , Kiran								
Acadia Center	Non Voting	Howe, Cullen	Donovan, Deborah								
Acadia Energy Corporation	Non Voting	Rappaport , Jason	Bay , John	Deader M. J.							
Alliance for Clean Energy New York	Non Voting	Reynolds , Anne	Dufresne, Zach	Reeder , Mark	Wastlema	Laist Ma					
Appian Way Energy Partners East, LLC Ardor Energy LLC	Non Voting Non Voting	Levy , Tal Breen , Erika	Klein , Abram	Shen , Dong	Westlund , John	Laich , Marcus					
Avangrid Renewables, Inc.	Non Voting Non Voting	Kilgallen, Kevin	Sokolski , Adam								
Boston Energy Marketing & Trading	Non Voting	Kramek , Mike	Solosski , r kudili								
Bruce Power	Non Voting	Jain , Anshul	Meyer, Sandra								
Caithness Energy LLC	Non Voting	Keevill, Gary	Alvarez , Asavari	Garber, Mitchell							
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						
Cypress Creek Renewables	Non Voting	Kohlstedt, Kevin	Kemp, Melissa	Scavo , Marisa							
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								
GI Energy	Non Voting Non Voting	Falcier, Peter	Robinson , James								
Hudson River Energy Group		Radigan, Frank	Canfield, Richard	i	i i	1	1	1	i	1	1

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Hydro-Quebec TransEnergie	Non Voting	Prevost , Michel									
TC 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							
Key Capture Energy	Non Voting	Fitzgerald, Dan	Bishop , Jeff								
S Power Grid NY	Non Voting	✓ Willick , Lawrence	York, Joshua	Hayes, Patrick							
MAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre								
NRG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie							
NY-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise								
NYS Department of Public Service	Non Voting	Paynter , Thomas	Evans , Adam								
National Fuel Gas Distribution Corporation	Non Voting	Novak , Michael	Eck , Robert								
New Athens Generating Co. LLC	Non Voting	Tripp, Hank									
Northeast Clean Heat & Power Initiative	Non Voting	Melpignano, Kristin	Brown, Ruben	Cinadr , Matt	Dwyer, Herb	Lillian, Jon					
Northline Utilities LLC	Non Voting	McKinney , Jeff	Danskin, Susan								
NuEnergen	Non Voting	Hamilton, Sandy	Korczykowski, Ryan								
RBC Energy Services, LP	Non Voting	Rigby , Angus	Everhardt, Brandon								
RENEW Northeast	Non Voting	Pullaro , Francis	Krich, Abigail								
Red Wolf Energy Trading, LLC	Non Voting	Christian, Adam									
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								
Siemens Energy, Inc.	Non Voting	Feltes, James									
Taylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page, Allan								
Ceichos Energy, LLC	Non Voting	Maclearnsberry, Kirk	VanCoevering , Darrel								
Cesla, Inc.	Non Voting	Watson, Betty	Gonzales , Carlos	Van Cleve, Sarah							
CransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	✓ Abend , Erik								
Cransmission Developers Inc.	Non Voting	Jessome, Donald	Helmer, William	Harrison, Bob							
Гransource New York, LLC	Non Voting	Burkholder, Joshua									
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					