NYISO Business Issues Committee Meeting Minutes July 17, 2019 10:00 a.m. – 10:30 a.m.

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

Mr. Alan Ackerman (Customized Energy Solutions) called the meeting to order at 10:00 a.m. by welcoming the members of the BIC. The members of the BICidentified 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 June 20, 2019 BIC meeting that were included as part of the meeting material.

Motion #1:

Motion to approve the Minutes of the June 20, 2019 BIC meeting.

Motion passed unanimously with an abstention.

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. OATT Attachment L Table 1A Revisions

Mr. Greg Williams (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 L of the Open Access Transmission Tariff, as more fully described in the presentation entitled "Revisions to OATT Attachment L" made to the BIC on July 17, 2019.

Motion passed unanimously with an abstention.

5. 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 #3:

The Business Issue Committee ("BIC") hereby approves the revisions to the Transmission Expansion and Interconnection Manual as described in the presentation to the BIC meeting on July 17, 2019.

Motion passed unanimously with abstentions.

6. Working Group Updates

- <u>Billing and Accounting and Credit Working Group</u>: The group met on June 28, 2019 and reviewed the standard accounting/settlement reports.
- <u>Electric System Planning Working Group</u>: The group met on June 25, 2019 and reviewed proposed revisions to the Transmission Expansion and Interconnection Manual, an overview of the schedule and preliminary assumptions

- for the 2019 Congestion Assessment and Resource Integration Study (CARIS) Phase 1 analysis, and a proposal regarding the addition of a cost containment metric as part of the Public Policy Transmission Planning Process.
- Installed Capacity Working Group: The group has met five times since the last BIC meeting, including joint meetings with MIWG and/or PRLWG. On June 24, 2019, the group met and reviewed a presentation by Analysis Group regarding its supplemental analysis of the potential impacts of the proposed carbon pricing initiative, and a proposal regarding potential revisions to the types of permissible contracts pursuant to the competitive entry exemption from the buyer-side mitigation rules. The group met on June 27, 2019 and reviewed proposed deliverability and eligibility requirements for external capacity suppliers located in ISO-NE, and the market report by the Market Monitoring Unit (MMU) for the second calendar quarter of 2019. The group met on July 8, 2019 and reviewed potential improvements to the Class Year Study and interconnection processes. On July 10, 2019, the group met and reviewed proposed revisions to the Installed Capacity Manual to address the rules for energy storage resources to participate in the capacity market. The group also met on July 15, 2019 and reviewed proposed deliverability, eligibility, and performance obligations for external capacity resources.
- <u>Load Forecasting Task Force</u>: The group met on July 16, 2019 and reviewed the load forecast uncertainty models for the 2020-2021 installed reserve margin analysis, and potential methodologies to account for precipitation events as part of the weather normalization process for determining the capacity market peak load forecast.
- Market Issues Working Group: The group has met jointly with ICAPWG and/or PRLWG four times since the last BIC meeting. The group met on June 24, 2019 and reviewed a presentation by Analysis Group regarding its supplemental analysis of the potential impacts of the proposed carbon pricing initiative, the Autumn 2019 Centralized TCC Auction survey results, and proposed revisions to Attachment L of the Open Access Transmission Tariff (OATT) to incorporate changes resulting from the Accepted Revisions process set forth in Attachment K of the OATT. On June 27, 2019, the group met and reviewed the MMU's market report for the second calendar quarter of 2019. The group met on July 10, 2019 and reviewed a proposal regarding the establishment of operating reserve requirements for certain load pockets within New York City, and an overview of the study methodology for assessing potential changes to current shortage pricing values. On July 15, 2019, the group met and reviewed a proposal for procuring quantities of reserves in excess of the minimum requirements needed to satisfy reliability requirements.
- <u>Price Responsive Load Working Group</u>: The group met jointly with MIWG and/or ICAPWG on June 27, 2019 and July 10, 2019 and reviewed the agenda topics for each meeting related to distributed energy resources, energy storage resources and/or the demand response programs.

7. New Business

There was no new business.

The meeting adjourned at 10:30 a.m.

Business Issues Committee Meeting

July 17, 2019 Final Motions

Motion #1:

Motion to approve the Minutes of the June 20, 2019 BIC meeting.

Motion passed unanimously with an abstention.

Motion #2:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve revisions to Attachment L of the Open Access Transmission Tariff, as more fully described in the presentation entitled "Revisions to OATT Attachment L" made to the BIC on July 17, 2019.

Motion passed unanimously with an abstention.

<u>Motion #3</u>:

The Business Issue Committee ("BIC") hereby approves the revisions to the Transmission Expansion and Interconnection Manual as described in the presentation to the BIC meeting on July 17, 2019.

Motion passed unanimously with abstentions.

New York Independent System Operator - Committee Membership

Business Issues Committee - July 17, 2019 - KCC - Parties Checked in Attendance

Organization	Sector	Representative A	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
storia Energy LLC	Generation Owners	McCall, Chuck	Browne , Scott	Habib, Phillipe	Singer, Leonard						
yonne Energy Center, LLC	Generation Owners	Allman, Ellen	Caplan, Stu								
PV Valley LLC	Generation Owners	Litchfield, Matt	Rumsey, Tom	Pierpont , Daniel							
ılpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve						
ovanta Niagara, LP	Generation Owners	Burke, David	Abbott , Sharon								
ricket Valley Energy Center	Generation Owners	Davis , Charles	Wallenstein, Arnold	Paryl, Ron							
anskammer Energy, LLC	Generation Owners	Reid, William	Cada, Eric								
DP Renewables North America LLC	Generation Owners	Brodbeck, John	Kaplan, Seth	Ingalls , Kellen	Loturco, Thomas	High , Jeremy	Priemer, Dustin				
ast Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty , Thomas	McEachern, Ben	Franzetti , Paul						
mpire Generating Co, LLC	Generation Owners	Nuss , Kurt	Argetsinger, Andrew	Willson , Darrell	Swenson, Nils						
ntergy Nuclear Northeast	Generation Owners	Dell Orto , Ken	Saia, Doreen	Bergeron, John							
elix Ravenswood LLC	Generation Owners	D'Andrea , James	Kline, Marc	DiBari , Dominic							İ
loward Wind LLC	Generation Owners	Merich , Olivia	Rugh , Chris								
ndeck Energy Services, Inc.	Generation Owners	I I	Younger, Mark								
nnovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
=- ·	Generation Owners		Goldstein, Michael	Orzel , Chris							
nvenergy Energy Management LLC (ational Grid Generation LLC)	Generation Owners	Pakula , Maggie		Orzer, Chris							
	Generation Owners Generation Owners	Kain, Terrence	McCabe, Brian			1					
elkirk Cogen Partners, LP		Biittig, Timothy	Ryan , James	Love Jorden		1					
omerset Operating Company, LLC	Generation Owners	Gregson , Brian	Goodenough , Jeery	Love , Jordan		1					
BJ Energy Company	Other Suppliers	Ni, Bing	Lee, George	ZA-1		1					
P Energy Company	Other Suppliers	Chintapalli , Raj	Magruder, Kathy	Ackerman, Alan							
ioUrja Power, LLC	Other Suppliers	Shah , Kinjal	Patel, Ankeet	Eamani , Arun	Y71 .	-					
lueRock Energy, Inc.	Other Suppliers	VanHorne , Phil	Campese , Bobby	Quill , Megan	Klaben, Jason						
rookfield Energy Marketing L.P.	Other Suppliers	LaRoe , Chris	Talamo , Marco	Dallaire, Eric	Lund , Roxana						
Power	Other Suppliers	Dotson-Westphalen , Peter	Hourihan , Michael	Damaskos , Deno	Campbell , Bruce	-					
astleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss , Gordon	Romine , Brad	Emmett , Robert							
itigroup Energy Inc.	Other Suppliers	Trayers, Barry				-					
on Edison Solutions Inc.	Other Suppliers	✓ Mah, Norman	Dannels , Jeff								
onstellation New Energy	Other Suppliers	Barlette , Richard	Kirk, Steven								
ross Sound Cable Company, LLC	Other Suppliers	Reinhart, Brian	Rotger, Jose								
C Energy	Other Suppliers	Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					
TE Energy	Other Suppliers	Pakela, Gregory	Wieszczyk, Raymond	German, Robert							
Pirect Energy Business Marketing, LLC	Other Suppliers	Galarneau, Kenneth	Philips, Marjorie			1					
rift Marketplace, Inc.	Other Suppliers	Tilley, Alan	Robinson, Greg			1					
ynegy Marketing and Trade	Other Suppliers	Frazier, Amanda	Allen, Sean								
NEL X	Other Suppliers	Geller , Greg	Chibani , Yanis								
NGIE Energy Marketing NA, Inc.	Other Suppliers	Levine , Jeffrey	Hawkins, Darin	Campbell , Chad							
astern Generation	Other Suppliers	✓Baker, Liam	Reese, John	✓ Younger, Mark	Schwall, Matthew	Johnson , David	Wolcott, Tyler				
nergy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas, Cristina	Cinadr , Matt		
nergy Technology Savings Inc. d/b/a Logical uildings	Other Suppliers	Hendler , Jeff	Ross , Valerie								
xelon Generating Co. LLC	Other Suppliers	Barlette, Richard	Kirk, Steven								
alt Power	Other Suppliers		Ackerman, Alan								
Q Energy Services US	Other Suppliers		Leuthauser, Scott	Guilbault, Louis	Bélanger , Frédéric	1					
noventive Power	Other Suppliers	Gruber , Craig	Halford, Steve	Canouait , Louis	Schunger, Frederic						
yonsdale Biomass, LLC	Other Suppliers	Ralston , William	Hebel, Nathan	Carrigan , Kathleen							
Iercuria Energy America, Inc.	Other Suppliers		Younger, Mark	"							
		1		Frye , Samuel		1					-
forgan Stanley Capital Group, Inc.	Other Suppliers	Kochonies, Karen	Meditz , Alex	Grimes , Jordan	V**** D *** **	+					-
RG Power Marketing Inc.	Other Suppliers	Fitch, Neal	Hsia , Jennifer	Cona , Lisa	Kranz , Bradley	MoV: I cc					
ew York Transco	Other Suppliers	Mullin , Victor	Hitti , Nabil	Caso , Rob	Carrigan , Kathleen	McKinney , Jeff					
extEra Energy	Other Suppliers	Applebaum, David	Tuck , Jennifer	Gibelli , Stephen							
ntario Power Generation, Inc.	Other Suppliers	Gell, Richard	D-Dill- B	Cimi D ::	Mr. 11 Y						
EEG Energy Resource & Trade, LLC	Other Suppliers	Fromer, Howard	DePillo , Raymond	Cimino , David	Murawski , James						
verbay Corporation	Other Suppliers	Merola , Peter	Ellison , Noel			-					
SCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
nell Energy North America, LLC	Other Suppliers	Picardi, Matt									
ephentown Spindle, LLC	Other Suppliers	Streeter , Christopher									
alen Energy	Other Suppliers	Toomey, Megan	Hohenshilt , Jennifer	Labella, Julie	Raggio, Debra	1					
iridity Energy, Inc.	Other Suppliers	Freifeld , Allen									
itol 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	Hargett , Chris	Yu , Joel	✓Lazarus, Dana	Butterklee, Neil				
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	,									•
Rochester Gas and Electric Corp.	Transmission Owners	Caletka, Patricia	Lynch, Tim	✓ Brophy , Richard		İ					i
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	Government Statewide Consumer Advocate		_		_	, , , , , , , , , , , , , , , , , , , ,					
Protection, NY Dept. of State		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							
NYS Energy Research & Dev. Authority	Government Small Consumer and Retail										
The Burgy Research & Bev. Humority	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 American Wind Energy Association	Municipalities and Coops Environmental	Thompson , Andrew Fink , Sari	Wentlent, Chris Reeder , Mark	Cordeiro, Mark Reynolds , Anne	Beck, Betsy	Grace, Gene	McIntire . Natalie				
Environmental Advocates	Environmental	Bambrick , Conor	Farmer , Miles	Morris, Jackson	Beek, Beisy	Grace, Gene	Weithire, ivalanc				-
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		İ					
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								
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	Colvol-1-: A.1								
Avangrid Renewables, Inc. Boston Energy Marketing & Trading	Non Voting Non Voting	Kilgallen , Kevin Kramek , Mike	Sokolski , Adam								
Bruce Power	Non Voting 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		İ					
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		İ					
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	Falcier, Peter	Robinson, James								
Highview Power Storage, Inc.	Non Voting	Robson, Paul	Riley, Richard								

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Gues
Hudson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								-
Hydro-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		Unel , Burcin	Noll, Bethany	Bialek , Sylwia	Gundlach, Justin						
Key Capture Energy	Non Voting	Fitzgerald, Dan	Bishop , Jeff								
S Power Grid NY	Non Voting	Willick, Lawrence	York , Joshua	Hayes, Patrick							
IAG Energy Solutions, Inc.	Non Voting	Pelletier , Simon	Vezina, Alexandre								
RG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie							
IY-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise								
NYS Department of Public Service	Non Voting	Paynter, Thomas	✓Evans, Adam								
lational 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					
orthline Utilities LLC	Non Voting	McKinney , Jeff	Danskin, Susan								
uEnergen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan								
lus Power, LLC	Non Voting	Fraenkel, Alex									
BC Energy Services, LP	Non Voting	Rigby , Angus	Everhardt, Brandon								
ENEW Northeast	Non Voting	Pullaro , Francis	Krich, Abigail								
ed Wolf NT, LLC	Non Voting	Christian, Adam									
ichard P. Felak	Non Voting	Felak, Rich									
ΓΕΜ, Inc.	Non Voting	Ko, Ted	Bellacicco, John								
aracen Energy East LP	Non Voting	Peebles , Andy	Miller, Jason								
emens 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	Watson, Betty	Gonzales , Carlos	Van Cleve , Sarah							
ransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	Abend, Erik								
ransmission Developers Inc.	Non Voting	Jessome , Donald	Helmer, William	Harrison, Bob							
ransource New York, LLC	Non Voting	Burkholder, Joshua									
Wheelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti , Jim								
Villiam P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					