NYISO Business Issues Committee Meeting Minutes October 14, 2020 10:00 a.m. – 10:15 a.m.

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

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

2. Draft September 9, 2020 BIC Minutes

There were no questions or comments regarding the draft minutes from the September 9, 2020 BIC meetings that were included as part of the meeting material.

Motion #1:

Motion to approve the September 9, 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.

Mr. Howard Fromer (Bayonne Energy Center) asked whether the NYISO observed any significant changes in September 2020 to the impacts on load patterns and energy consumption related to the ongoing COVID-19 pandemic that differ from what was experienced throughout the summer. Mr. Mukerji stated that in general the NYISO continues to experience reduced load levels and changes in load patterns related to the COVID-19 pandemic. Mr. Mukerji further noted that the NYISO continues to report more detailed information regarding the impacts of the COVID-19 pandemic on load patterns and energy consumption at Load Forecasting Task Force meetings.

4. Working Group Updates

- Billing and Accounting and Credit Working Group: The group has not met since the last BIC meeting.
- Electric System Planning Working Group: The group has met three times since the last BIC meeting. On September 10, 2020, the group met and reviewed: (1) a presentation by Analysis Group regarding the draft study report related to the Phase II analysis being conducted as part of the ongoing climate change impact and resilience study project; and (2) the draft 2020 Reliability Needs Assessment (RNA) report. The group met on September 24, 2020 and reviewed: (1) a status update regarding the short-term assessment of reliability (STAR) study for Q3 2020; (2) the study assumptions for the 2020 Congestion Assessment and Resource Integration Study (CARIS) Phase 2 analysis; and (3) potential enhancements to the economic planning process. The group also met on October 5, 2020 and reviewed: (1) the draft 2020 RNA report; and (2) study assumptions for the 2020 CARIS Phase 2 analysis.
- Installed Capacity Working Group: The group has met seven times since the last BIC meeting, including joint meetings with MIWG and PRLWG. On September 14, 2020, the group met and reviewed interconnection requirements for co-located energy storage resources. The group met on September 22, 2020 and reviewed: (1) the potential market problem regarding the gas pricing alignment logic included in the Net EAS Model used for the 2017-2021 ICAP Demand Curve reset period; and (2) an overview of the NYISO staff's final recommendations related to the ongoing 2021-2025 ICAP Demand Curve reset period. The group met on September 25, 2020 and reviewed the potential market problem regarding the gas pricing alignment logic included in the Net EAS Model used for the 2017-2021 ICAP Demand Curve reset period. The group also met on September 30, 2020 and reviewed the potential market problem regarding the gas pricing alignment logic included in the Net EAS Model used for the 2017-2021 ICAP Demand Curve reset period. On October 2, 2020, the group met and reviewed an overview of the NYISO Member Community system. The group met on October 6, 2020 and reviewed interconnection and capacity market mitigation requirements for co-located energy storage resources. The group

- also met on October 7, 2020 and reviewed the potential market problem regarding the gas pricing alignment logic included in the Net EAS Model used for the 2017-2021 ICAP Demand Curve reset period.
- <u>Load Forecasting Task Force</u>: The group has met twice since the last BIC meeting. The group met on September 16, 2020 and reviewed: (1) the impacts on load patterns and energy consumption related to the ongoing COVID-19 pandemic; (2) preliminary weather normalized peak load values for the 2020 Summer Capability Period; and (3) the preliminary regional load growth factors to be used in developing the peak load forecast for the NYSRC's installed reserve margin study for the 2021/2022 Capability Year. The group also met on September 25, 2020 and reviewed: (1) the preliminary weather normalized peak load values for the 2020 Summer Capability Period; and (2) the preliminary peak load forecast for the NYSRC's installed reserve margin study for the 2021/2022 Capability Year.
- Market Issues Working Group: The group has met four times since the last BIC meeting, including joint meetings with ICAPWG and PRLWG. The group met on September 14, 2020 and reviewed: (1) the performance of reserve providers during reserve pick-up events that occurred in the 2019/2020 Winter Capability Period; (2) proposed revisions to the voltage support service program related to participation by inverted-based resources; and (3) interconnection requirements for co-located energy storage resources. On September 22, 2020, the group met and reviewed: (1) proposed enhancements to the current reserve shortage pricing values, reserve demand curves and reserve procurements; (2) proposed revisions to the Transmission and Dispatch Operations Manual and Day-Ahead Scheduling Manual related to the pricing rules for fast-start resources; and (3) energy market participation requirements for co-located energy storage resources. The group met on October 2, 2020 and reviewed: (1) proposed revisions to the ISO-NE and NYISO Coordination Agreement to update the description of the facilities that comprise the interface between the control areas; (2) an overview of the NYISO Member Community system; (3) energy market participation requirements for co-located energy storage resources; and (4) a status update regarding the proposed enhancements to the current reserve shortage pricing values, reserve demand curves and reserve procurements. On October 6, 2020, the group met and reviewed: (1) interconnection requirements for co-located energy storage resources; and (2) proposed revisions to the Transmission and Dispatch Operations Manual related to the pricing rules for fast-start resources.
- <u>Price Responsive Load Working Group</u>: The group met jointly with ICAPWG and/or MIWG four times since the last BIC meeting (i.e., September 14, 2020, September 22, 2020, October 2, 2020 and October 6, 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

There was no new business

Meeting adjourned at 10:15 a.m.

New York Independent System Operator - Committee Membership

Business Issues Committee - October 14, 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								
Borrego Solar Systems, Inc.	Generation Owners	Delaney, Liz	Conway, Michael	Cox-Arslan , Kathryn	Brigandi, Michael						
CPV Valley LLC	Generation Owners	Litchfield , Matt	Rumsey, Tom	Pierpont , Daniel							
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						
Empire Generating Co, LLC	Generation Owners	Morris , Chandler	Maida, Jeff	Hudson, Daniel							
Entergy Nuclear Northeast	Generation Owners	Dell Orto , Ken	Saia, Doreen	Bergeron , John							
GlidePath Power Solutions LLC	Generation Owners	McKissack, Chris	Baur, Sean	Vickery, Chris	Labij , Denis	Braun , Gary					
Helix Ravenswood LLC	Generation Owners	D'Andrea , James	Kline, Marc	DiBari , Dominic							
Howard Wind LLC	Generation Owners	Smith , David	Brocks , Annette	Rohrbach, John							
Indeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	Younger, Mark								
Innovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott	O1 Chris							
Invenergy Energy Management LLC	Generation Owners Generation Owners	Bangston , Kaley	Goldstein , Michael	Orzel , Chris							
Key Capture Energy		Galarneau , Kenneth	Goldwasser , Rachel	Fitzgerald , Dan							
National Grid Generation LLC	Generation Owners	Kain , Terrence	McCabe, Brian								
North East Offshore, LLC	Generation Owners Generation Owners	Reynolds , Melissa									
Selkirk Cogen Partners, LP Somerset Operating Company, LLC	Generation Owners Generation Owners	Biittig, Timothy 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	vincent, martin							
BP Energy Company	Other Suppliers	Ellis, Dean	Chintapalli , Raj	✓ Ackerman, Alan							
Brookfield Energy Marketing L.P.		LaRoe , Chris	Talamo , Marco	Dziedzic , Tomasz	Madonna , Phil						
COI Energy Services, Inc.	Other Suppliers Other Suppliers		✓ Breidenbaugh , Aaron	Dziedzić , Tomasz	Madonna , Pini						
		Berrien , SaLisa Stuss , Gordon	Romine , Brad	Emmett Behant							
Castleton Commodities Merchant Trading L.P. Citigroup Energy Inc.	Other Suppliers Other Suppliers	Gollomp, Jeffrey	Bisaria, Shikher	Emmett, Robert							
Consolidated Edison Energy, Inc.	Other Suppliers	Mah, Norman	Dannels , Jeff								
Constellation New Energy	Other Suppliers	Barlette , Richard	Kirk, Steven								
Cross Sound Cable Company, LLC	Other Suppliers	Reinhart, Brian	Rotger, Jose								
DC Energy	Other Suppliers	Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					•
DTE Energy	Other Suppliers	✓German, Robert	Pakela, Gregory	,	β,						
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							
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		
Energy Technology Savings Inc. d/b/a Logical Buildings	Other Suppliers	Hendler , Jeff	Ross , Valerie	<u> </u>							
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								
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	Mullin, Victor	Caso , Rob	Carrigan , Kathleen	Camp, Adam						
NextEra Energy	Other Suppliers	Applebaum, David	✓ Talbot , Soria	Gibelli , Stephen							
Ontario Power Generation, Inc.	Other Suppliers	Lauritsen, Kim									
PSEG Energy Resource & Trade, LLC	Other Suppliers	Gordon, Joel	DePillo , Raymond	Cimino, David	Dillon , George						
Riverbay Corporation	Other Suppliers	Merola, Peter	Ellison , Noel								
Rodan Energy Solutions (USA) Inc.	Other Suppliers	✓ Breidenbaugh, Aaron	Ingram , Rachel								
SESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
Shell Energy North America, LLC	Other Suppliers	Picardi, Matt				1			i		Ī
	Other Bupphers						•				

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
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							
New York State Electric & Gas (NYSEG)	Transmission Owners	✓ Caletka, Patricia	Lynch, Tim	✓Brophy , Richard							
Orange & Rockland Utilities, Inc.	Transmission Owners			1 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	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	Casey , Christopher							
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Ewart , Sean	Lang, Kevin	Mager, Michael	Trinsey, Amanda					
Fordham University	Small Consumer	Luthin, Catherine	Ewart, Sean	Lang, Kevin	Mager, Michael	Trinsey, Amanda					İ
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					
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	/a							
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	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	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	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	0.1.1								
Avangrid Renewables, Inc.	Non Voting	Kilgallen , Kevin	Sokolski , Adam								
Bakerstand Solar, LLC	Non Voting	Caplan , Michael									
Boston Energy Marketing & Trading	Non Voting	Kramek, Mike									
Bruce Power	Non Voting	Jain , Anshul	Meyer , Sandra								
CPower	Non Voting	Dotson-Westphalen , Peter		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							
Cubit Power One Inc.	Non Voting	Powell , Alan	Powell , Leighton	Singer, Leonard	1						
Customized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	✓ Ackerman, Alan	1					

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Energya VM	Non Voting	Garcia, Francisco	Maeso , Manual	Lopez, Ana	Corvillo , Cristina						
luent Energy	Non Voting	Acampora, Peter	Doll, Ed								
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								
lydro-Quebec TransEnergie	Non Voting	Prevost, Michel									
TC Mid-Atlantic Development LLC	Non Voting	Wrenbeck, Tom	Benedict, Nathan								
stitute for Policy Integrity at NYU School of Law	Non Voting	Unel , Burcin	Noll, Bethany	Bialek , Sylwia	Gundlach, Justin						
S Power Grid NY	Non Voting	Willick, Lawrence	York , Joshua	Carroll , Casey	Hayes , Patrick						
ockport Energy Assoc.	Non Voting	Gesicki, Thomas	Youngberg, Mary								
yonsdale Biomass, LLC	Non Voting	Ralston, William	Hebel, Nathan	Carrigan , Kathleen							
IAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre								
Iarathon Energy	Non Voting	Nichols, Jim	Perrotti , Frank	Yeager, Keith							
RG Curtailment Solutions, Inc.	Non Voting	✓ Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie							
Y-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise								
YS Department of Public Service	Non Voting	✓ Paynter , Thomas	Evans , Adam								
ational Fuel Gas Distribution Corporation	Non Voting	Stankovski, Maryann	Eck, Robert								İ
ew 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					
ıEnergen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan								
us Power, LLC	Non Voting	Fraenkel, Alex									
ENEW Northeast	Non Voting	Pullaro, Francis	Krich, Abigail								
chard P. Felak	Non Voting	Felak, Rich									
ΓΕΜ, Inc.	Non Voting	Ko , Ted	Bellacicco, John								
racen Energy East LP	Non Voting	Peebles , Andy	Miller, Jason								
vion, LLC	Non Voting	Doering , Anthony	Sunderman, Derek								
emens Energy, Inc.	Non Voting	Feltes, James									
ylor Biomass Energy, LLC	Non Voting	Taylor, Jim	Page, Allan								
ichos Energy, LLC	Non Voting	Maclearnsberry, Kirk	VanCoevering , Darrel								
sla, Inc.	Non Voting	Van Cleve , Sarah	Gilfenbaum, Eliah								
ansAlta 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								
/heelabrator Technologies, Inc.	Non Voting	Goldie , Reg	Ginnetti , Jim								
Villiam P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					