NYISO Business Issues Committee Meeting Minutes April 13, 2016 10:05 a.m. – 10:45 a.m.

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

Ms. Patti Caletka (NYSEG) substituted as Chair and called the meeting to order at 10:05 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. Market Operations Report

Mr. Rana Mukerji (NYISO) reviewed the market operations report included with the meeting material. There were no questions. Mr. Mark Younger (Hudson Energy Economics) suggested that the NYISO add a chart to depict changes in LBMPs for Central (Load Zone C) to accompany the similar charts for other selected zones.

3. Broader Regional Markets Report

Mr. Mukerji reviewed the report included with the meeting material. In reference to the FERC NOPR addressing energy market offer caps, Mr. Howard Fromer (PSEG) asked about what is meant by a "soft cap" and whether that would allow for offers above \$1000 to be eligible to set price. Mr. Mukerji explained details are still being worked out but costs would have to be verified and, if so, would be eligible to set price up to the level of a backstop hard cap that would be developed with neighboring control areas to ensure consistency across the regions. Mr. Fromer asked who is responsible for verification of costs in the case of external bids. Mr. Mukerji replied the NYISO has to look into it the treatment of external bids. Mr. Luc Bernier (HQUS) asked if external supply costs above \$1000 would be considered. Mr. Mukerji replied they would not. Mr. Fromer asked whether Con Edison had provided any formal notice to the NYISO related to extension or expiration of the Con Ed/PSEG wheeling agreements. Mr. Mukerji replied that NYISO had not received any such formal notice, but noted that it was his understanding that Con Edison had until the end of April 2016 to determine whether to extend the term of the agreements.

4. Planning Update

Mr. Henry Chao (NYISO) explained the 2016 RNA process has kicked off and will be discussed at the ESPWG. Mr. Fromer asked when the NYISO will release the draft 2016 Gold Book. Mr. Chao replied that the NYISO was continuing to review certain additional information, but was targeting release of the draft 2016 Gold Book for the following week (*i.e.*, on or before April 22, 2016). Ms. Caletka requested an update regarding the likely timing for the NYISO to complete the viability and sufficiency assessment for the projects submitted in response to the solicitation for the Western New York Public Policy Transmission Need. Mr. Chao indicated that the NYISO was continuing to expeditiously pursue completion of this analysis, but the timing for completion would, in part, be dependent on the timeframe for project sponsors to provide the NYISO certain additional information that has been requested by the NYISO to assist with completing its analysis.

4. Graduated Transmission Demand Curve Manual Updates

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

Motion #1:

The Business Issues Committee ("BIC") hereby approves the revisions to the Transmission and Dispatching Operations Manual, Day-Ahead Scheduling Manual and Ancillary Services Manual as more fully described in the presentation made to the BIC on April 13, 2016.

Motion passed unanimously with abstentions.

5. NY Transco

Mr. Jim Lahtinen (New York Transco) reviewed the presentation included with the meeting material. Mr. Fromer asked about New York Transco's corporate structure and affiliation with the existing Transmission Owners. Mr. Lahtinen explained that New York Transco is distinct from the existing Transmission Owners and does not develop plans for meeting the individual Transmission Owners' requirements to serve their load. Mr. Younger asked for clarification regarding the approved return on equity (ROE) for New York Transco. Mr. Lahtinen replied that the approved ROE for the Transmission Owner Transmission Solutions (TOTS) projects was a base ROE of 9.5%, plus a 50 point basis adder. Mr. Fromer asked if any other capital projects beyond the TOTS projects were being planned New York Transco at this time. Mr. Lahtinen stated not at this time, but noted that New York Transco may submit a response to the AC Transmission Public Policy Transmission Needs solicitation issued by the NYISO. Mr. Lahtinen explained that the settlement recently approved by FERC as to cost recovery for New York Transco applies only to the TOTS projects. Therefore, cost recovery for any additional projects would have to go back to FERC for further settlement discussions. Mr. Fromer asked how costs were to be allocated to NYPA with respect to cost recovery for the TOTS projects. Mr. Lahtinen replied that NYPA's load will be treated the same as all other LSEs and will be allocated costs for the TOTS projects using the same percentage as the LSEs in each transmission district where NYPA serves load.

6. Working Group Updates

BAWG – Mr. Norman Mah (Con Ed Solutions) reported that the BAWG met on March 21, 2016 to review the grid accounting report. He also reported that going forward the BAWG will meet every other month, but material will be posted on a monthly basis and anyone with questions on the posted materials should contact Stakeholder Services.

CPWG – Mr. Mah reported that the CPWG has not met since the last BIC meeting.

ESPWG – Mr. Scott Butler (Con Edison) reported that at the March 22, 2016 ESPWG meeting the NYISO reviewed its preliminary list of assumptions for the 2016 RNA, and provided supplementary information about compensatory MW by zone related to the Fitzpatrick deactivation analysis.

- Stakeholders also heard about the latest Northeast Coordinated System Plan, which is an interregional study evaluating the potential need for interregional projects among New York, PJM and New England, and were given an opportunity to comment on the study.
- At the April 7, 2016 ESPWG meeting, the NYISO reviewed its draft load forecast for the 2016 Gold Book, which is much lower than last year's forecast.
- An additional ESPWG meeting has also been added to the calendar on April 19, 2016 to review the draft 2016 Gold Book. The NYISO may also discuss the updated Fitzpatrick deactivation resource adequacy assessment, if there is anything available to report.

ICAPWG – Mr. Liam Baker (EasternGen) reported that the ICAPWG has been working on the ICAP Demand Curve Reset and completed work on the Renewables and Self Supply Compliance Filing. **IPTF** – The group did not meet.

LFTF – The group did not meet.

MIWG – Mr. Bob Boyle (NYPA) reported that the MIWG reviewed the Comprehensive Shortage Pricing manual updates that were acted upon at today's BIC and had a presentation on generator status update transparency.

PRWLG – The group did not meet.

EGCWG – The group did not meet.

7. New Business

Ms. Doreen Saia asked for an update on the State Resource Plan Study at a future working group meeting.

Meeting adjourned at 10:45 a.m.

Business Issues Committee Meeting

April 13, 2016 Final Motion

Motion #1:

The Business Issues Committee ("BIC") hereby approves the revisions to the Transmission and Dispatching Operations Manual, Day-Ahead Scheduling Manual and Ancillary Services Manual as more fully described in the presentation made to the BIC on April 13, 2016.

Motion passed unanimously with abstentions.

New York Independent System Operator - Committee Membership

Business Issues Committee - April 13, 2016 - Teleconference - 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						
CPV Valley LLC	Generation Owners	Litchfield , Matt	Rumsey , Tom								
Calpine	Generation Owners	✓ Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve						
Cricket Valley Energy Center	Generation Owners	De Meyere , Bob	Wallenstein , Arnold	Paryl, Ron							
EDP Renewables North America LLC	Generation Owners	✓ Brodbeck, John	Kaplan, Seth	Grimes, Mike	Nemeth, Jeffrey	Dictor, Stephen					
East Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	Lee , Tina	Franzetti , Paul						
Entergy Nuclear Northeast	Generation Owners	Logan , Kathy	Potkin, Marc	✓ Saia, Doreen	Del Orto , Ken						
Howard Wind LLC	Generation Owners	Merich , Olivia	Rugh , Chris								
Indeck Energy Services, Inc.	Generation Owners	Ferguson, Mike	✓ Younger, Mark								
Innovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
Invenergy Energy Management LLC	Generation Owners	Ma, Alex	Goldstein, Michael	Orzel , Chris							
National Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe, Brian								
Noble Environmental Power LLC	Generation Owners	Silton, Harry									
Selkirk Cogen Partners, LP	Generation Owners	Biittig, Timothy	Ryan , James								
Somerset Operating Company, LLC	Generation Owners	✓ Evanoski, Dave	Goodenough, Jeery	McManus, John							
TC Ravenswood, Inc.	Generation Owners	Taylor, William	DAndrea , James	Congel, Dan	Hachey, Mike						
BJ Energy LLC	Other Suppliers	Ni, Bing	Lee, George								
BP Energy Company	Other Suppliers	Briscoe , Judy	Magruder, Kathy								
BlueRock Energy, Inc.	Other Suppliers	✓ Nichols , Jim	Yeager, Keith	VanHorne, Phil	Graham , Tammy						
Brookfield Energy Marketing L.P.	Other Suppliers	LaRoe , Chris	Mitreski , Aleksandar	Mitelman, Rimma	Dallaire , Eric						
CPower	Other Suppliers	Markham , Craig	Lacey, Frank	Damaskos, Deno	✓ Ackerman, Alan						
Castleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss , Gordon	Romine , Brad	Emmett, Robert							
Citigroup Energy Inc.	Other Suppliers	Trayers, Barry									
Con Edison Solutions Inc.	Other Suppliers	✓ Mah, Norman	Dannels , Jeff								
Constellation New Energy	Other Suppliers	McCartney, Glen	Wentlent, Chris	✓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	Kuo, David					
DTE Energy	Other Suppliers	Pakela, Gregory	Wieszczyk, Raymond	German, Robert							
Direct Energy Business Marketing, LLC	Other Suppliers	Philips , Marjorie	Comstock , Read	g							
Dynegy Marketing and Trade	Other Suppliers	Roby, Rick	Ellis, Dean	Ziegler, Pete							
EDF Trading North America, LLC	Other Suppliers	Erbrick , Michael	LeForce , Randall	Collon Corre							
EnerNoc Energy Spectrum	Other Suppliers Other Suppliers	Brewster, David David, Gary	Breidenbaugh, Aaron Ahrens, David	Geller , Greg Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland , William	Villegas, Cristina	Cinadr , Matt		
Energy Spectrum Energy Technology Savings	Other Suppliers	Hendler , Jeff	Ross , Valerie	recourg, David	ISKUWIIZ, AIOII	Brown, Ruben	i chuanu , wiiliaili	v megas , Clistilia	Cinaui , iviati		
EnergyConnect	Other Suppliers	Campbell, Bruce	Davis, Robert	✓Lawrence, David							
Exelon Generating Co. LLC	Other Suppliers	Sears , Deborah	Wentlent, Chris	✓ Kirk, Steven		ŀ					
GDF Suez Energy NA, Inc.	Other Suppliers	Levine, Jeffrey	Hawkins , Darin	Campbell, Chad							
Galt Power	Other Suppliers	Fernands, Rochelle	Ackerman, Alan	Campoon , Chau							
HQ Energy Services US	Other Suppliers	Bernier , Luc	Leuthauser, Scott	Vennes, Yannick	✓ Plante , Matthieu						
Innoventive Power		Gruber, Craig	Halford , Steve	vennes, i annick	riante, iviattinieu						
Innoventive Power Integrys Energy Services of New York, Inc	Other Suppliers Other Suppliers	Haugh, Michael	rianoid, sieve								
Lyonsdale Biomass, LLC	Other Suppliers	Ralston , William	Hebel, Nathan	Carrigan , Kathleen		•					
Mercuria Energy America, Inc.	Other Suppliers	Davis , Andrew	✓ Younger, Mark	Carrigan , reunicon							
Morgan Stanley Capital Group, Inc.	Other Suppliers	Murray, Patrick	Kochonies, Karen	Ezickson, Doron		ŀ					
NRG Power Marketing Inc.	Other Suppliers	Joseph , Kelli	Fuller, Peter	Cona , Lisa							
NextEra Energy	Other Suppliers	Applebaum, David	Gardner, Michelle	Cont., Libu		ŀ					
Noble Americas Gas & Power Corp.	Other Suppliers	Boston , Roy	·	✓Sunga, Leonard							
			Kyle , Chris ✓ Gell, Richard		Chainfield Y 1						
Ontario Power Generation, Inc.	Other Suppliers	Lacivita, Ken		Barr, David	Sheinfield , Joel						
PSEG Energy Resource & Trade, LLC	Other Suppliers	Fromer, Howard	DePillo , Raymond	Messmer , Robert	Murawski , James						
Powerex Corporation	Other Suppliers	Tang, Glen	Dion , Julien	Fichten, Murray							
Repsol Energy North America Corporation	Other Suppliers	Moreton , Samuel	Horvath , Peter	Ahrono David	Williams Chiefins						
Riverbay Corporation	Other Suppliers	Merola , Peter	Ellison , Noel	Ahrens, David	Villegas, Cristina	-					
SESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael Picardi, Matt	Thoresen, James French, Dave								
Shell Energy North America, LLC Talen Energy	Other Suppliers Other Suppliers	Hyzinski , Tom	Greening, Michele								
TransCanada Power Marketing, Ltd.	Other Suppliers	Taylor, William	D'Andrea, James	Congel, Dan	Hachey, Mike						
U.S. Power Generating Co.	Other Suppliers	Baker, Liam	Reese, John	✓ Younger, Mark	✓ Schwall , Matthew	✓ Johnson, David	Wolcott, Tyler				
=		Freifeld, Allen	Reese, John	# Tounger, Mark	w Schwaii, Matthew	Johnson , David	wolcou, i yici				
Viridity Energy, Inc.	Other Suppliers	Freifeid, Allen	I	1	1	1	I	I	I	I	I

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Vitol Inc.	Other Suppliers	√Wadsworth , Joe	Viola , Bob	Kam , Kenney							
XO Energy NY, LP	Other Suppliers	Drangula, Carey	Thompson, Matthew	Hughes , Adam							
Central Hudson Gas & Electric Corp.	Transmission Owners	✓Borchert , John	Chan, Ting	Seitz, Diane	Dittmann, David						
Consolidated Edison Co. of NY, Inc.	Transmission Owners	Quin, Jane	Nachmias, Stuart	Butler, Scott	✓ Hargett , Chris	Butterklee, Neil					
National Grid	Transmission Owners	Franey, Bart	Lodemore , David	√Carron , Benjamin							
New York State Electric & Gas (NYSEG)	Transmission Owners	✓Caletka, Patricia	Kinney, Ray	Brophy , Richard							
Orange & Rockland Utilities, Inc.	Transmission Owners										
Rochester Gas and Electric Corp.	Transmission Owners	✓ Caletka, Patricia	Kinney, Ray	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	Radigan, Frank	Kopon, Owen							
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	Dowling, John	Loughney, Robert	✓ Mager, Michael	Trinsey, Amanda					
Association for Energy Affordability	Small Consumer	Morris, Jackson	Hepinstall, David	Strauss , Valerie							
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	✓ Mager, Michael	Trinsey, Amanda					
Fordham University	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	✓Mager, Michael	Trinsey, Amanda					
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	✓Mager, Michael	Trinsey, Amanda					
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	✓Mager, Michael	Trinsey, Amanda					İ
New York University	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	✓Mager, Michael	Trinsey, Amanda					
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	✓Hogan , Erin	Rigberg, Saul	Montalvo , Marc	Pereira, Alvaro	,					✓Kordonis, Dimitri
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	Coup, David	Mas , Carl	Wilcox , James						
Long Island Power Authority	State Power Authorities	Clarke, Dave	Wilczek , Mariann								
New York Power Authority	State Power Authorities	Antinori , Andrew	Boyle, Bob	Lundin, Tim	Mahoney , Daniel	✓ Wilkie , Brian					
Bath Electric, Gas & Water Systems	Municipalities and Coops	Hallgren, Guy	Bolbrock, Richard	Cordeiro, Mark							
Freeport Electric	Municipalities and Coops	Livingston , Al	Kimlingen, Ted	Rudebusch, Tom	Fiore , Chris						
Jamestown Board of Public Utilities	Municipalities and Coops	Gustafson, David	Leathers, David	Kulig, Steve	Rudebusch, Tom						
Lake Placid Village	Municipalities and Coops	Kroha, Peter	✓ Bolbrock, Richard	Cordeiro, Mark							
Municipal Commission of Boonville	Municipalities and Coops	Stabb, Kenneth	Bolbrock, Richard	Cordeiro, Mark							
Plattsburgh Municipal Lighting Dept	Municipalities and Coops	Treacy, William	✓ Bolbrock, Richard	Cordeiro, Mark							
Village of Arcade	Municipalities and Coops	Kilburn, Larry	✓ Bolbrock, Richard	Cordeiro, Mark							
Village of Fairport	Municipalities and Coops	Hegarty, Matt	✓ Bolbrock, Richard	Cordeiro, Mark							
Village of Rockville Centre	Municipalities and Coops	Andreas , Philip	Cardile , Thomas	✓ Rudebusch, Tom							
Village of Solvay	Municipalities and Coops	Hawksby, Joe	✓ Bolbrock, Richard	Cordeiro, Mark							
Village of Westfield	Municipalities and Coops	Thompson , Andrew	✓ Bolbrock, Richard	Cordeiro, Mark							
American Lung Association	Environmental	Gahl, David	Seilback, Michaek	Morris, Jackson							
American Wind Energy Association	Environmental	Reynolds, Anne	Gramlich, Robert								
Environmental Advocates	Environmental	Bambrick, Conor	Gahl, David	Morris, Jackson							
Natural Resources Defense Council	Environmental	Morris, Jackson	Ho , Bruce	Clements , Allison							
PACE Energy & Climate Center	Environmental	Gahl , David	Martin , Nicholas	Morris, Jackson							
Riverkeeper	Environmental	Len , Christopher	Lucas , Mark	Gahl , David							
AES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswarmy , Kiran								
Ace Energy Company, Inc.	Non Voting	Lynch, Stephen									
Alliance for Clean Energy New York Anbaric Northeast Transmission Development Co.	Non Voting Non Voting	Reynolds , Anne Sanderson , Barry									
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	Troin , morain	Silen , Dong	, conuna , John	Laien , maicus					
Boston Energy Marketing & Trading	Non Voting	Kramek, Mike									
Boundless Energy, LLC	Non Voting	Tompkins John, E.	Pratt , Charles								
Bruce Power	Non Voting	Viswanathan , Samira	Meyer, Sandra								
Caithness Energy LLC	Non Voting	Keevill , Gary	Collins , Kevin	Garber, Mitchell							
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						
Ecogen	Non Voting	Hagner, Thomas									
Energetix, Inc.	Non Voting	Comstock, Read									
Energya VM	Non Voting	Ortiz Lopez , Jose Ignacio									
First Wind Holdings, LLC	Non Voting	Keene, John	Salehian, Afshin	1	1	1	1	1	1	1	

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Iudson 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								
berdrola Renewables Inc	Non Voting	Allen, Thresa									
nnovari, Inc.	Non Voting	Lunt, Robin	Hodges, Brent								
AAG Energy Solutions, Inc.	Non Voting	Roberge, Martin	Vezina, Alexandre								
RG Curtailment Solutions, Inc.	Non Voting	Pieniazek, Marie	✓ Scheiderich , Jim	Lynch, Stephen	Korczykowski , Jim						
NYS Department of Public Service	Non Voting	✓ Paynter , Thomas	Evans, Adam								
National Fuel Gas Distribution Corporation	Non Voting	Novak , Michael	Eck, Robert			İ					
lew Athens Generating Co. LLC	Non Voting	DeVinney, Dan									
lew York Transco	Non Voting	Nachmias, Stuart	Hitti , Nabil	Allen, Richard	Carrigan , Kathleen						
oble Americas Energy Solutions	Non Voting	Sun, Jungsuk	Nakhonthap , Jade	✓ Sunga, Leonard							
ortheast Clean Heat & Power Initiative	Non Voting	De Veer , Henrietta	Lilian, Jon	Dwyer , Herb	Brown, Ruben	Cinadr , Matt	Martin , Nicholas	Villegas, Cristina			
uEnergen	Non Voting	Hamilton, Sandy	Korczykowski, Ryan								
ower Supply Services LLC	Non Voting	Phillips , Gabriel	Abend, Erik								
BC Energy Services, LP	Non Voting	Burnham, Steve	Fraiture, Christian	Doolittle, Robin							
ENEW Northeast	Non Voting	Pullaro , Francis	Krich, Abigail								
ES Americas, Inc.	Non Voting	Fernandes, John	Boyd, Dan								
ed Wolf Energy Trading, LLC	Non Voting	Sharma, Rishi									
ichard P. Felak	Non Voting	Felak, Rich									
aracen Energy East LP	Non Voting	Peebles , Andy									
emens Energy, Inc.	Non Voting	Feltes, James									
ephentown Spindle, LLC	Non Voting	Hebert, Chris									
ylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page, Allan								
ansAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted									
ransmission Developers Inc.	Non Voting	Jessome , Donald	Helmer, William								
Villiam P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					

NYISO Employees

Avallone, Ethan

Chao, Henry

Mukerji, Rana

Bissell, Garrett

Eckels, Debbie Dixon, Kirk