NYISO Business Issues Committee Meeting Minutes July 15, 2015 10:05 a.m. – 11:40 a.m.

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

The chair of the Business Issues Committee (BIC), Ms. Patti Caletka (NYSEG) 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. Meeting Minutes

Motion #1:

Motion to approve the Minutes of the June 10, 2015 meeting. *Motion passed unanimously.*

3. Market Operations Report

Mr. Rana Mukerji (NYISO) reviewed the market operations report included with the meeting material. There were no questions.

4. Seams Report

Mr. Mukerji reviewed the seams report included with the meeting material. There were no questions.

5. Planning Update

Mr. Henry Chao (NYISO) provided the update he explained the final EIPC Gas/Electric Study is complete and has been submitted to the DOE. The NYISO filed the compliance filing related to the Inter-Regional Planning Coordination Protocol as well as a FERC Order 1000 clean-up filing. He also stated the Public Policy Transmission Planning Process Manual, on today's agenda for approval.

6. Changes to the Reference Level Manual & MST Attachment H

This item was removed from the agenda.

7. Public Policy Transmission Planning Process Manual

Mr. Zach Smith (NYISO) reviewed the presentation included with the meeting material.

Ms. Caletka asked about the developer qualification process. Zach reviewed the developer qualification process and stated that if a developer is already approved as qualified in the Reliability Planning Process or the Economic Planning Process, the developer needs only to update their qualification information to be qualified in the Public Policy Transmission Planning Process. Mr. Bob Boyle (NYPA) asked if qualification approval for Public Policy was three years. Mr. Smith said that was correct. Mr. Boyle asked, if you added a separate approval for reliability qualification, would it restart the clock. Mr. Carl Patka (NYISO) stated there is nothing currently in the tariff or manual that addresses whether a qualification determination in one NYISO planning process that is updated in another NYISO process extends the qualification timeframe. Mr. Boyle stated it would be easier for an organization to know where they stand with a single qualification process instead of separate tracks for all of the processes. Mr. Smith said this would be a good clean-up item for the future.

Mr. Scott Butler (Con Edison) asked whether the manual would foreclose revisions or updates to the most recent reliability base case. Mr. Smith responded that the manual would permit the NYISO to

update the most recent reliability base case, and that the NYISO intended to recognize any significant system changes that had occurred.

Mr. Howard Fromer (PSEG) asked how one would measure sufficiency to meet a need. Mr. Smith explained each project will be looked at individually, and when the PSC declares a need, and then there should be enough detail to measure sufficiency. The NYISO would look to DPS and PSC for clarity. Once the NYISO evaluated each project for viability and sufficiency, the NYISO would report on the outcome and the PSC would decide whether or not to proceed with the evaluation.

Mr. Luc Bernier (HQUS) asked if a hybrid solution of transmission and generation and/or demand response would be considered. Mr. Smith replied that it would be, but the evaluation and selection process only applies to transmission. Mr. Fromer commented that the generation component would not receive cost recovery under the NYISO tariff. Mr. Smith said that was correct.

Motion #2:

The Business Issues Committee (BIC) hereby approves the Public Policy Transmission Planning Process Manual as presented at the July 15, 2015 BIC Meeting. *Motion passed by majority with abstentions.*

8. Working Group Updates

BAWG – Mr. Norman Mah (Con Ed Solutions) said the BAWG met on June 26th to review the grid accounting report.

CPWG – Mr. Mah reported that the CPWG met to review the balance the TCC credit policy for balance of period TCCs.

ESPWG – Mr. Scott Butler (Con Edison) reported that the ESPWG finalized its discussion of the Public Policy Transmission Planning Process Manual. The group will eventually discuss the developer agreement. In addition, the group has been discussing the natural gas forecast methodology and the 2015 CARIS base case.

ICAPWG – Mr. Boyle reported that ICAPWG discussed Behind the Meter: Net Generation and the RMR Compliance Filing.

IPTF – The group did not meet.

LFTF – Mr. Bryan Irrgang (PSEG Long Island) reported that the LFTF met on June 22nd for the Spring Economic Conference in NYC.

MIWG – Mr. Chris LaRoe (IPNNY) reported that MIWG reviewed Comprehensive Scarcity Pricing, Expand Minimum Generation Cost Field Size, Changes to Digital Certificates, Highlights from the Quarterly Report on the New York ISO Electricity Markets First Quarter 2015, Autumn 2015 Centralized TCC Auction & Survey,

TCC Manual Revisions and continued discussions on BTMG:NG.

PRWLG – Mr. Tim Lundin (CES) reported that PRLWG met with ICAPWG and MIWG on the DR Backstop Solution and BTM:NG.

EGCWG – The group did not meet.

9. New Business

None

Meeting adjourned at 11:40 a.m.

Business Issues Committee July 15, 2015 Final Motions

<u>Motion #1:</u>

Motion to approved the Minutes of the June 10, 2015 BIC meeting.

Motion passed unanimously.

<u>Motion #2:</u>

The Business Issues Committee (BIC) hereby approves the Public Policy Transmission Planning Process Manual as presented at the July 15, 2015 BIC Meeting.

Motion passed by majority with abstentions.

**Please note, agenda item 5: Changes to the Reference Level Manual & MST Attachment H was pulled from the agenda.

New York Independent System Operator - Committee Membership

Business Issues Committee - July 15, 2015 - NYISO - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Astoria Energy LLC	Generation Owners	McCall, Chuck	Habib , Phillipe	Singer, Leonard							
CPV Valley LLC	Generation Owners	Remillard, Steven	Litchfield , Matt	Bruno, Michael	Felak, Rich						
Calpine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve	LaRoe , Chris					
Cricket Valley Energy Center	Generation Owners	De Meyere , Bob	Wallenstein, Arnold	Ahrens, Jeff							
EDP Renewables North America LLC	Generation Owners	Kaplan , Seth	Grimes , Mike	Nemeth , Jeffrey	Harmon, Brad						
East Coast Power, LLC	Generation Owners	Shanker, Roy	Fogarty, Thomas	Fisher, Amy							
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	Schrage, John	Vounger, 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								
New Athens Generating Co. LLC	Generation Owners	Breen, Jack	Litchfield, Matt	DeVinney, Dan	Felak, Rich						
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							
Stephentown Spindle, LLC	Generation Owners	Hebert, Chris	Bullwinkel, Aaron	O'Brien, Robin							
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	Prescott, Randy	Magruder , Kathy	Bassett, Jeffrey							
BlueRock Energy, Inc.	Other Suppliers	Nichols , Jim	Eno, Jason	VanHorne, Phil	Gipson , Jon						
Brookfield Energy Marketing	Other Suppliers	Mitreski, Aleksandar	🗸 Mitelman , Rimma	Dallaire, Eric						🖌 LaRoe, Chris	
CPower	Other Suppliers	Markham , Craig	Lacey, Frank	Damaskos, Deno	🖌 Ackerman, Alan						
Castleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss, Gordon	Cheong, Mei								
Citigroup Energy Inc.	Other Suppliers	Trayers, Barry									
Con Edison Solutions Inc.	Other Suppliers	Mah, Norman	Wemple, Steve								
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	,							
Dynegy Power Marketing, Inc.	Other Suppliers	Roby, Rick	Ellis, Dean	Daley , Marty							
EDF Trading North America, LLC	Other Suppliers	Erbrick, Michael	LeForce , Randall	Dutey , marty							
EnerNoc	Other Suppliers	Brewster, David	Breidenbaugh, Aaron	Geller , Greg							
Energy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas, Cristina			
Energy Technology Savings	Other Suppliers	Hendler, Jeff	Ross, Valerie	Nudelman , Craig							
EnergyConnect	Other Suppliers	Campbell, Bruce	Davis, Robert	Lawrence , David							
Exelon Generating Co. LLC	Other Suppliers	McCartney, Glen	Wentlent, Chris	Kirk , Steven	Sears , Deborah						
GDF Suez Energy NA, Inc.	Other Suppliers	Levine, Jeffrey	Hawkins, Darin	Campbell, Chad	•						
Galt Power	Other Suppliers	Fernands, Rochelle	Ackerman, Alan	cumpton , chuu							
HQ Energy Services US	Other Suppliers	Bernier, Luc	Collins , Kyle	Leuthauser, Scott	Vennes, Yannick						
Innoventive Power	Other Suppliers	Gruber, Craig	Halford, Steve	Ţ Louinausoi, Stoli	, chines, 1 annuek						
Integrys Energy Services of New York, Inc	Other Suppliers	Haugh, Michael	Hanold, Steve								
Lyonsdale Biomass, LLC	Other Suppliers	Ralston, William	Hebel, Nathan	Carrigan , Kathleen							
Mercuria Energy America, Inc.	Other Suppliers	Davis , Andrew	Vounger, Mark	Currigan , Humbon							
Morgan Stanley Capital Group, Inc.	Other Suppliers	Murray, Patrick	Kochonies, Karen	Ezickson, Doron							
NRG Power Marketing Inc.	Other Suppliers	Joseph , Kelli	Fuller, Peter	Neal, David						✓ Younger, Mark	
NextEra Energy	Other Suppliers	Applebaum, David	Gardner, Michelle	Gil, David						LaRoe, Chris	
										V Lanoe, Chills	
Noble Americas Gas & Power Corp.	Other Suppliers	Boston, Roy	Kyle, Chris	Sunga , Leonard	01. 1 C 11 X 1						
Ontario Power Generation, Inc.	Other Suppliers	Lacivita, Ken	Gell, Richard	Barr, David	Sheinfield, Joel						
PSEG Energy Resource & Trade, LLC	Other Suppliers	Fromer, Howard	Carretta, Kenneth	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		VIII CLA						
Riverbay Corporation	Other Suppliers	Merola, Peter	Freedman, Herbert	Ahrens, David	Villegas, Cristina						
SESCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
Shell Energy North America, LLC	Other Suppliers	Picardi, Matt	French, Dave								
Talen Energy	Other Suppliers	Hyzinski , Tom	Greening, Michele								
TransCanada Power Marketing, Ltd.	Other Suppliers	Taylor, William	D'Andrea, James	🗸 Congel, Dan	Hachey, Mike	I	I		I	I	I

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6
Twin Cities Power LLC	Other Suppliers	Staska, Stephanie	Dube , Alex					
U.S. Power Generating Co.	Other Suppliers	✓ Baker, Liam	Reese, John	✓ LaRoe , Chris				
Viridity Energy, Inc.	Other Suppliers	Freifeld, Allen						
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	Miller, Richard	Nachmias, Stuart	Altobell, Deidre	✓ Butler , Scott	Butterklee, Neil		
National Grid	Transmission Owners	Franey, Bart	Lodemore, David					
New York State Electric & Gas (NYSEG)	Transmission Owners	Caletka, Patricia	Kinney, Ray	Brophy, Richard				
Orange & Rockland Utilities, Inc.	Transmission Owners		11111103, 1143	Drophy , ruenaru				
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	George, Quintin	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Lang, Kevin	
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	Lang, Kevin		
Fordham University	Small Consumer	Dowling, John	Luthin, Catherine	Loughney, Robert	Mager, Michael	Lang, Kevin		
Memorial Sloan Kettering Cancer Center	Small Consumer	Dowling, John	Luthin, Catherine	Loughney, Robert	Mager, Michael	Lang, Kevin		
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Lang, Kevin		
New York University	Small Consumer	Luthin, Catherine	Dowling, John	Loughney, Robert	Mager, Michael	Lang, Kevin		
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	Hogan , Erin	Rigberg, Saul	Montalvo, Marc	VPereira , Alvaro			
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	Williams, John	Hall , Christopher	d'Aversa , Jon-Paul				
Long Island Power Authority	State Power Authorities	Clarke, Dave	Wilczek , Mariann					
New York Power Authority	State Power Authorities	Antinori, Andrew	🗸 Boyle, Bob	Fossa, Andrea	Mahoney, Daniel	Wilkie, Brian		
Bath Electric, Gas & Water Systems	Municipalities and Coops	Moore, Ken	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	Moore, Ken	Bolbrock, Richard	Cordeiro, Mark				
Village of Rockville Centre	Municipalities and Coops	Andreas, Philip	Cardile, Thomas	Rudebusch, Tom				
Village of Solvay	Municipalities and Coops	Mondre, Judith	Bolbrock, Richard	Cordeiro, Mark				
Village of Westfield	Municipalities and Coops	Hamilton, James	Bolbrock, Richard	Cordeiro, Mark				
American Lung Association	Environmental	Gahl, David	Seilback, Michaek	Miller, Edward				
American Wind Energy Association	Environmental	Reynolds, Anne	Gramlich, Robert	Miller , Edward				
Environmental Advocates	Environmental	Bambrick , Conor	Gahl, David	Morris, Jackson				
Natural Resources Defense Council	Environmental	Morris, Jackson	Clements, Allison	Kennedy, Kit				
PACE Energy & Climate Center	Environmental	Gahl, David	Bowie, John	Morris, Jackson				
Riverkeeper	Environmental	Gallay, Paul	Gahl , David	Morris, Jackson				
Ace Energy Company, Inc.	Non Voting	Lynch, Stephen						
Alliance for Clean Energy New York	Non Voting	Reynolds, Anne						
Anbaric Northeast Transmission Development Co.	Non Voting	Sanderson, Barry						
Beacon Power LLC	Non Voting	Hebert, Chris	Bullwinkel, Aaron	O'Brien, Robin				
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	Lundin , Tim		
Demand Response Partners	Non Voting	Dorn, Andrew	Almeter , Carl	Hourihan, Michael				
Ecogen	Non Voting	Hagner, Thomas						
Energetix, Inc.	Non Voting	Comstock, Read	0-1-11 1 Y	Level Gr. 1	Ware 1 11 Y			
Energy Curtailment Specialists	Non Voting	Pieniazek, Marie	Scheiderich , Jim	Lynch, Stephen	Korczykowski , Jim			
Energya VM	Non Voting	Ortiz Lopez , Jose Ignacio	Adell Almazan , Miguel	ļ	I	I	I	I

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Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
First Wind Holdings, LLC	Non Voting	Keene , John	Salehian, Afshin								
Fluent Energy	Non Voting	Acampora, Peter	Begley, Jeff	Doll, Ed							
Great Bay Energy IV, LLC	Non Voting	Franco, Eugene	Colon, Antonio								
Hudson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
Hydro-Quebec TransEnergie	Non Voting	Prevost, Michel									
berdrola Renewables Inc	Non Voting	Allen, Thresa									
MAG Energy Solutions, Inc.	Non Voting	Roberge, Martin	Vezina, Alexandre								
NYS Department of Public Service	Non Voting	Paynter, Thomas	🗸 Evans , Adam								
National Fuel Gas Distribution Corporation	Non Voting	Novak , Michael	Eck, Robert								
New York Transco	Non Voting	Nachmias, Stuart	Lahtinen, James	Allen, Richard							
Noble Americas Energy Solutions	Non Voting	Sun , Jungsuk	Nakhonthap , Jade	🗸 Sunga , Leonard							
Northeast Clean Heat & Power Initiative	Non Voting	De Veer, Henrietta	Lilian, Jon	Dwyer, Herb	Brown, Ruben	Cinadr , Matt	Martin , Nicholas	Villegas, Cristina			
NuEnergen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan								
Power Supply Services LLC	Non Voting	Phillips , Gabriel	Abend , Erik								
RBC Energy Services, LP	Non Voting	Burnham, Steve	Fraiture, Christian	Doolittle, Robin							
RENEW Northeast	Non Voting	Pullaro, Francis	Krich, Abigail								
RES Americas, Inc.	Non Voting	Fernandes, John	Boyd , Dan								
Red Wolf Energy Trading, LLC	Non Voting	Sharma , Rishi									
Saracen Energy East LP	Non Voting	Peebles, Andy									
Saranac Power Partners	Non Voting	Wible , Steven									
Siemens Energy, Inc.	Non Voting	Feltes, James									
Taylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page, Allan								
FransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted									
Fransmission Developers Inc.	Non Voting	Jessome , Donald	Helmer , William								
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					

NYISO Employees

Dixon, Kirk Eckels, Debbie Chao, Henry Mukerji, Rana Patka, Carl Smith, Zach Schnell, Alex