
NYISO Business Issues Committee Meeting Minutes
August 17, 2022
10:00 a.m. – 11:40 a.m.

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

Mr. John Cordi (NYPA) served as the chairperson for the meeting due to the inability of Mr. John Marczewski (East Coast Power) to attend. Mr. Cordi called the meeting to order at 10:00 a.m. The members of the BIC identified themselves and attendance was recorded. A quorum was determined.

2. Draft June 22, 2022 and July 13, 2022 Meeting Minutes

There were no questions or comments regarding the draft minutes from the June 22, 2022 and July 13, 2022 BIC meetings included as part of the meeting material.

Motion #1:

Motion to approve the minutes from the June 22, 2022 and July 13, 2022 BIC meetings.

Motion passed unanimously.

3. Market Operations Report

Mr. Rana Mukerji (NYISO) reviewed the market operations report included with the meeting material.

Mr. Chris Wentlent (MEUA) requested the NYISO provide information regarding the load consumption on the peak day experienced to date during the Summer 2022 Capability Period. Mr. Mukerji stated that, to date, the peak load occurred on July 20, 2022 during the hour beginning 5:00 p.m. Mr. Mukerji reported that the peak load during such hour was 30,505 MW with an energy send-out value of 606 GWh.

4. System & Resource Outlook Report

Mr. Jason Frasier (NYISO) reviewed the presentation included with the meeting material.

Mr. Matt Cinadr (E Cubed Company) sought clarification regarding the overall scope of the NYISO's comprehensive system planning process (CSPP) and activities that are outside the CSPP. Mr. Frasier clarified that certain planning related activities do not technically fall within the scope of the CSPP, such as the interconnection processes and the activities related to the development of the annual Load & Capacity Data report (commonly referred to as the "Gold Book").

Mr. Cordi (NYPA) noted appreciation for the draft System & Resource Outlook report's recognition for the value of the existing hydropower generation assets in serving to maintain reliability while simultaneously assisting to meet New York's clean energy goals.

Mr. Mike Mager (Couch White) noted the need to ensure strategic and targeted expansion of both transmission and new renewable generation to meet the state's clean energy and environmental policies. Mr. Frasier explained that the key findings from the draft System & Resource Outlook report include identification of both the need for transmission expansion to meet the state's policy goals, as well as the need to focus on a carefully coordinated transition of the grid that includes strategic and targeted expansions of both generation assets and new transmission capability.

Mr. Chris Casey (NRDC) asked whether the System & Resource Outlook study identifies a need for expanding interregional transfer capability. Mr. Frasier noted that the study did not specifically evaluate a need for interregional transmission expansion, but instead accounts for the current transfer capability that exists among the regions interconnected to New York. Mr. Casey asked whether the System & Resource Outlook study identified

changes in energy flow patterns between regions connected to New York. Mr. Frasier noted that given the modeling of achieving New York's policy goals in the study, the modeling did identify changes in the patterns and timing of energy flows between regions based on changes to New York's system over time in order to achieve the state's policies.

Mr. Mark Younger (Hudson Energy Economics) asked for clarification regarding the modeling of policy objectives in neighboring regions that was included as part of the System & Resource Outlook study. Mr. Frasier stated that the System & Resource Outlook study was not designed to serve as an interregional planning analysis and therefore does not fully model all potential policies that may be in place in neighboring regions.

Mr. Wentlent asked for clarification regarding the granularity of information that is provided regarding the assessment of interregional transfers between neighboring regions. Mr. Frasier stated that the System & Resource Outlook study provides information on an hourly level, as well as seasonal and annual aggregations of such data to help identify trends and patterns in interregional flows.

Mr. Younger stated that it is important for the study to identify both renewable generation spillage and curtailment to understand system impacts and needs arising from the increase in renewable generation required to meet the state's policies.

Mr. Mager asked what, if any, assumptions the System & Resource Outlook study includes regarding the current ongoing public policy transmission need for accommodating offshore wind. Mr. Frasier explained that the System & Resource Outlook study does not include any assumed expansions in response to the currently ongoing public policy transmission need for accommodating offshore wind. Mr. Frasier further noted that the study is intended to provide additional information for use in the ongoing evaluation of projects submitted in response to this public policy transmission need.

Ms. Doreen Saia (Greenberg Traurig) recommended that the NYISO consider potential adjustments to the description of the needs identified for the renewable generation pockets to avoid a potential for confusion that there is a need to address these pockets in advance of 2040. Ms. Saia also recommended that the NYISO highlight the need for dispatchable generation to help in balancing renewable generation output in order to maintain system reliability over time. Mr. Zach G. Smith (NYISO) stated that the NYISO recognizes the importance of the messaging surrounding the key findings of the System & Resource Outlook study and noted that a broader communications and public outreach strategy is intended to accompany the issuance of the System & Resource Outlook study report following approval by the NYISO Board of Directors.

Ms. Saia asked for an update regarding the NYISO's planned timing to issue its next solicitation to identify potential public policies that may be driving the need for transmission expansion as part of commencing the next cycle of the public policy planning process. Ms. Yachi Lin (NYISO) noted that the NYISO currently anticipates issuing its solicitation to identify potential public policies driving transmission needs in the late-August/early-September timeframe.

Mr. Cordi expressed appreciation for the NYISO's inclusion of a data catalogue as part of presentations related to the System & Resource Outlook to help provide market participants ready access to details regarding study assumptions and changes thereto over time.

Mr. Chris Hall (NYSERDA) noted appreciation for the NYISO's efforts and collaboration with stakeholders in developing the System & Resource Outlook study and indicated that the NYISO's consideration of feedback from NYSERDA was appreciated even though NYSERDA may not fully agree with all modeling assumptions that were ultimately adopted by the NYISO.

Motion #2:

Whereas, the Electric System Planning Working Group ("ESPWG") and Transmission Planning Advisory Subcommittee ("TPAS") have held a series of meetings to discuss and review the studies and analyses underlying the NYISO's 2021-2040 System & Resource Outlook ("Outlook"); and

Whereas, NYISO Staff has posted a draft Outlook Report dated August 10, 2022, including Appendices (“Draft Report”), for the August 17, 2022 Business Issues Committee (“BIC”) meeting; Therefore, the Business Issues Committee (“BIC”) hereby recommends that the Management Committee recommend that the Board of Directors approve the 2021-2040 System & Resource Outlook Draft Report, as presented and discussed at the BIC meeting held on August 17, 2022.

Motion passed unanimously.

5. Working Group Updates

- Billing and Accounting and Credit Working Group: The group met on July 22, 2022 and reviewed: (1) the standard accounting/settlement reports; (2) a verbal update regarding the schedule for conducting market trials related to the distributed energy resources (DER) participation model software enhancements; and (3) proposed changes to the credit security requirements for virtual and external transactions.
- Electric System Planning Working Group: The group has met four times since the last BIC meeting. On July 14, 2022, the group met and reviewed a draft of the 2021-2040 System & Resource Outlook study report. The group met on July 26, 2022 and reviewed: (1) key study assumptions for the short-term assessment of reliability study for Q3 2022; (2) a presentation by the New York Transmission Owners regarding an updated proposal for applying a federal right of first refusal to Network Upgrade Facilities identified as part of the Public Policy Transmission Planning Process; (3) a draft of the 2021-2040 System & Resource Outlook study report; (4) a presentation regarding the evaluation metrics to be utilized in assessing project proposals in response to the Public Policy Transmission Need (PPTN) related to facilitating the delivery of power from offshore wind facilities; (5) a presentation by NEET New York regarding considerations related to the evaluation metrics to be utilized in assessing project proposals in response to the PPTN related to facilitating the delivery of power from offshore wind facilities; (6) a presentation by NEET New York to provide an update regarding the status of its transmission upgrade project selected in response to the Western New York PPTN; and (7) presentations by LS Power and NYPA, and New York Transco to provide an update regarding the status of the transmission upgrade projects selected in response to the AC Transmission PPTN. On August 1, 2022, the group met and reviewed: (1) preliminary results for the scenario analysis conducted as part of the 2022 Reliability Needs Assessment (RNA); (2) the key study assumptions for the resource adequacy analysis conducted as part of the 2022 RNA; and (3) updated preliminary results for the transmission security analysis conducted as part of the 2022 RNA. The group also met on August 8, 2022 and reviewed a draft of the 2021-2040 System & Resource Outlook study report.
- Installed Capacity Working Group: The group met jointly with MIWG and/or PRLWG five times since the last BIC meeting. The group met on July 15, 2022 and reviewed: (1) topics related to the implementation of the DER participation model; (2) proposed rules for capacity market participation of internal controllable transmission facilities; and (3) an overview of the NYISO's compliance filing in response to FERC's order accepting previously proposed changes to the "Part A" test of the buyer-side capacity market mitigation rules. On July 21, 2022, the group met and reviewed: (1) an update regarding the schedule for Phase 2 of the improving capacity accreditation initiative; and (2) topics related to the implementation of the DER participation model. The group met on July 28, 2022 and reviewed: (1) topics related to Phase 2 of the improving capacity accreditation initiative, including preliminary capacity accreditation results for Special Case Resources (SCRs) and the proposed initial treatment of SCRs for purposes of capacity accreditation modeling; (2) a presentation by GE Energy Consulting regarding preliminary capacity accreditation results for SCRs; and (3) an overview of the proposed approach for determining initial Unforced Capacity derating factors for offshore wind. On August 4, 2022, the group met and reviewed: (1) proposed rules for capacity market participation of internal controllable transmission facilities; and (2) the proposed methodology for conducting a consumer impact analysis related to the market design proposal for internal controllable transmission facilities. The group also met on August 9, 2022 and reviewed: (1) topics related to Phase 2 of the improving capacity accreditation initiative, including capacity accreditation factors, resource specific derating factors, and considerations related to the determination and use of seasonal capacity accreditation factors; and (2) proposed rules for capacity market participation of hybrid storage resources.
- Load Forecasting Task Force: The group met on July 29, 2022 and reviewed: (1) the 10-year gross peak load forecast developed for conducting the resource adequacy analysis as part of the 2022 RNA; (2) the 10-year "light

load" forecast developed for use in the scenario analysis conducted as part of the 2022 RNA; and (3) an update regarding the peak loads experienced to date during the Summer 2022 Capability Period.

- Market Issues Working Group: The group met jointly with ICAPWG and/or PRLWG four times since the last BIC meeting. On July 15, 2022, the group met and reviewed: (1) topics related to the implementation of the DER participation model; (2) proposed rules for energy and ancillary services market participation of internal controllable transmission facilities; and (3) proposed rules for energy and ancillary services market participation of hybrid storage resources. The group met on July 21, 2022 and reviewed topics related to the implementation of the DER participation model. On August 4, 2022, the group met and reviewed: (1) proposed rules for energy and ancillary services market participation of internal controllable transmission facilities; and (2) the proposed methodology for conducting a consumer impact analysis related to the market design proposal for internal controllable transmission facilities. The group also met on August 9, 2022 and reviewed: (1) an update regarding the Dynamic Reserves project, including considerations related to the previously developed supplemental reserves proposal, the interaction of dynamic reserves with reserve and transmission demand curve mechanisms, and cost allocation for dynamic reserves; and (2) proposed rules for energy and ancillary services market participation of hybrid storage resources.
- Price Responsive Load Working Group: The group has met jointly with ICAPWG and/or MIWG four times since the last BIC meeting (i.e., July 15, 2022, July 21, 2022, July 28, 2022, and August 9, 2022). 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.

6. New Business

Mr. Thanh Nguyen (NYISO) provided an update regarding the status of the NYISO efforts to improve the current interconnection procedures including the pursuit of increased staffing within the NYISO's stakeholder services department to assist with general inquiries seeking information regarding the interconnection process. Mr. Nguyen noted that additional information regarding this new support will be further discussed at the Transmission Planning Advisory Subcommittee in September 2022.

Meeting adjourned at 11:40 a.m.

Business Issues Committee Meeting

August 17, 2022

Final Motions

Motion #1:

Motion to approve the June 22, 2022 and July 13, 2022 meeting minutes.

Motion passed unanimously.

Motion #2:

Whereas, the Electric System Planning Working Group (“ESPWG”) and Transmission Planning Advisory Subcommittee (“TPAS”) have held a series of meetings to discuss and review the studies and analyses underlying the NYISO’s 2021-2040 System & Resource Outlook (“Outlook”); and

Whereas, NYISO Staff has posted a draft Outlook Report dated August 10, 2022, including Appendices (“Draft Report”), for the August 17, 2022 Business Issues Committee (“BIC”) meeting;

Therefore, the Business Issues Committee (“BIC”) hereby recommends that the Management Committee recommend that the Board of Directors approve the 2021-2040 System & Resource Outlook Draft Report, as presented and discussed at the BIC meeting held on August 17, 2022.

Motion passed unanimously.

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Shell Energy North America, LLC	Other Suppliers	Picardi, Matt	Dannels , Jeff								
Stephentown Spindle, LLC	Other Suppliers	Streeter , Christopher									
Viridity Energy, Inc.	Other Suppliers	Pavo , Michael	Butt , Justin	Ward , Theodora	Schulze , Jim	Misciagna , Mark					
Vitol Inc.	Other Suppliers	Wadsworth , Joe	Conn , Averill	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	Lazarus , Dana	Kiselev , Dimitry	✓Islam , Lubaba	Raup , Chris	Butterklee, Neil	LoFrumento , Susan				
National Grid	Transmission Owners	Gonsalves , Shelanda	Lodemore , David								
New York State Electric & Gas (NYSEG)	Transmission Owners	✓Caletka, Patricia	Brophy , Richard	Lynch , Tim							
Orange & Rockland Utilities, Inc.	Transmission Owners										
Rochester Gas and Electric Corp.	Transmission Owners	✓Caletka, Patricia	Brophy , Richard	Lynch , Tim							
Alcoa, Inc.	Large Consumer	✓Mager, Michael	Loughney, Robert	Trinsey , Amanda	Goodman , Jay	Lang, Kevin					
GlobalFoundries, U.S., Inc.	Large Consumer	✓Mager, Michael	Loughney, Robert	Trinsey , Amanda	Goodman , Jay	Lang, Kevin					
IBM Corporation	Large Consumer	✓Mager, Michael	Loughney, Robert	Trinsey , Amanda	Goodman , Jay	Lang, Kevin					
Nucor Steel Auburn, Inc.	Large Consumer	✓Brew , James	Mackaronis , Chris	Baker , Laura	Briscar , Joseph						
Wegmans Food Markets	Large Consumer	✓Mager, Michael	Loughney, Robert	Trinsey , Amanda	Goodman , Jay	Lang, Kevin					
Metropolitan Transportation Authority	Large Consumer Government Agency	Keller , David	Chou , Frances								
Beth Israel Health Care System	Small Consumer	Duncan , Taylor	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda						
Fordham University	Small Consumer	Duncan , Taylor	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda	Goodman , Jay					
Memorial Sloan Kettering Cancer Center	Small Consumer	Duncan , Taylor	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda						
Mount Sinai Medical Center	Small Consumer	Duncan , Taylor	Lang, Kevin	✓Mager, Michael	Trinsey , Amanda						
New York University	Small Consumer	Duncan , Taylor	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								
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								
New York Power Authority	State Power Authorities	✓Antinori , Andrew	Michaels , Alan	✓Cordi , John	Kane , James						
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	Foglietta , Eileen	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 Clean Power Association	Environmental	Reynolds , Anne	Reeder , Mark	Fink , Sari	Tabak , Gabe	Grace , Gene					
Environmental Advocates	Environmental	Bambrick , Conor	✓Casey , Christopher	Murray , Frank							
Environmental Defense Fund	Environmental	Peress J., Naim	Stein , Elizabeth	Karas , Natalie	Murphy , Erin						
Natural Resources Defense Council	Environmental	✓Casey , Christopher	Howe , Cullen	Murray , Frank	Walsh , Christy						
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	Kumar , Manish									
Able Grid Energy Solutions, Inc.	Non Voting	Lines , Sam	Mills , Sara								
Acadia Center	Non Voting	Sosland , Daniel									
Alliance for Clean Energy New York	Non Voting	Reynolds , Anne	Reeder , Mark	Addepalli , Raj	Rabin , Kyle						
Anbaric Development Partners, LLC	Non Voting	Kosel , Howard	Sanderson , Bryan	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									
Avangrid Renewables, Inc.	Non Voting	Kilgallen , Kevin	Sokolski , Adam								
Bakerstand Solar, LLC	Non Voting	Caplan , Michael									
Bloom Energy	Non Voting	Noonan , Brian									
Boston Energy Marketing & Trading	Non Voting	Kramek , Mike									
Bruce Power	Non Voting	Jain , Anshul	Meyer , Sandra								
CPower	Non Voting	Dotson-Westphalen , Peter	Hourihan , Michael	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							

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
ConnectGen East, LLC	Non Voting	Rieman, Derek	Nash, Colleen	Turner, Becky							
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						
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								
Hanwha Q CELLS USA Corp.	Non Voting	Miller, Amy									
Hudson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
Hydro-Quebec TransEnergie	Non Voting	Prevost, Michel									
ITC Mid-Atlantic Development LLC	Non Voting	Wrenbeck, Tom	Benedict, Nathan								
Institute for Policy Integrity at NYU School of Law	Non Voting	Unel, Burcin	Ladin, Sarah								
Jupiter Power LLC	Non Voting	Smith, Caitlin									
LS Power Grid NY	Non Voting	Willick, Lawrence	✓Lundin, Tim	Brau, Brian	York, Joshua						
Lockport Energy Assoc.	Non Voting	Gesicki, Thomas	Youngberg, Mar y								
Lyonsdale Biomass, LLC	Non Voting	Ralston, William	Hebel, Nathan	Carrigan, Kathleen							
MAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre								
Marathon Energy	Non Voting	Nichols, Jim	Yeager, Keith								
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	Stankovski, Maryann	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					
NuErgen	Non Voting	Nole, Anthony	Hamilton, Kevin								
Plus Power, LLC	Non Voting	Fraenkel, Alex									
RENEW Northeast	Non Voting	Pullaro, Francis	Krich, Abigail								
Richard P. Felak	Non Voting	Felak, Rich									
Rodan Energy Solutions (USA) Inc.	Non Voting	Young, Craig									
Saracen Energy East LP	Non Voting	Peebles, Andy	Theriot, Kim								
Savion, LLC	Non Voting	Doering, Anthony	Sunderman, Derek								
Siemens Energy, Inc.	Non Voting	Feltes, James									
Taylor Biomass Energy, LLC	Non Voting	Taylor, Jim	Page, Allan								
Teichos Energy, LLC	Non Voting	Maclearnsberry, Kirk	VanCoevering, Darrel								
Tesla, Inc.	Non Voting	Van Cleve, Sarah	Gilfenbaum, Eliah								
TransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	Abend, Erik								
Transmission Developers Inc.	Non Voting	Jessome, Donald	Helmer, William	Harrison, Bob	Coxe, Raymond						
Transource New York, LLC	Non Voting	Rupert, David	Cundiff, Robert								
Voltus, Inc.	Non Voting	Guernsey, Dana	Amores, Angel	Fan, Jianing	Bates-Wannop, Allison	Konidena, Rao					
Wheelaerator Technologies, Inc.	Non Voting	Goldie, Reg	Ginnetti, Jim								
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					