

Minutes
New York State Reliability Council, LLC (NYSRC)
Executive Committee (EC)
Meeting No. 270
October 15, 2021
Conference Call

Members and Alternates in Attendance:

Mayer Sasson	Consolidated Edison Co. of NY, Inc – EC Chair*
Chris Wentlent	Municipal & Electric Cooperative Sector – Member – EC Vice Chair
Rich Bolbrock, P.E.	Unaffiliated Member
Roger Clayton, P.E.	Unaffiliated Member – RRS Chair, RCMS Chair
Bruce Ellsworth, P.E.	Unaffiliated Member
Steve Whitley	Unaffiliated Member
Frank Pace	Central Hudson Gas & Electric – Member
Mark Domino, P.E.	National Grid, USA – Member
Mohammed Hossain, P.E.	NYPA – Member
Tim Lynch	NYSEG and RG&E – Member
Patti Caletka	NYSEG and RG&E – Alternate Member
Curt Dahl	PSEGLI-Member
Bob Loughney	Couch White-Large Customer Sector – Alternate Member*
Leonard Ashley	Independent Power Producers of NY (Wholesale Sellers Sector) – Member
Mark Younger	Hudson Energy Economics (Wholesale Sellers Sector) - Alternate Member

Other Attendees:

Paul Gioia Esq.	Whiteman, Osterman & Hanna, LLP – NYSRC Counsel
Al Adamson	NYSRC Treasurer and Consultant
Brian Shanahan	National Grid, USA – ICS Chair
Phil Fedora	Northeast Power Coordinating Council, Inc.
Matt Koenig	Consolidated Edison*
Vijay Puran	NYS Department of Public Service
Josh Boles	New York Independent System Operator*
Nichole Bouchez	New York Independent System Operator*
Nate Gilbraith	New York Independent System Operator*
Carl Patka	New York Independent System Operator
Robb Pike	New York Independent System Operator*
Zach Smith	New York Independent System Operator
Wes Yeomans	New York Independent System Operator*
Herb Schrayshuen	Power Advisors, LLC – EC Secretary
Rick Brophy	*
Andrea Calo	Customized Energy Solutions
Matt Cinadr	E Cubed LLC*
William Claggett	Consultant and former EC Member*
Erin Hogan	DOS-Utility Intervention Unit
Keith Galarneau	Ravenswood Generating
Scott Leuthauser	Hydro Quebec
Tim Lunden	LS Power
Norman Mah	Consolidated Edison Energy
Ed Schrom	Consultant

“*” Denotes part-time participation in the meeting

1. **Introduction** – M. Sasson, EC Chair, called the NYSRC Executive Committee Meeting No. 270 to order 9:36 a.m. on October 15, 2021. An initial quorum of 12 Members and Alternate Members of the NYSRC EC was established.
 11. **Identification of Visitors** – Visitors in attendance were identified via the participant list.
 12. **Requests for Additional Open Session Agenda Items** – None requested.
 13. **Requests for Executive Session Agenda Items** – M. Sasson stated that an executive session was held before the open meeting. M. Sasson stated that during this meeting the EC finished up budget discussions.
 14. **Report on Executive Session Meeting #269** – No report.
 15. **Declarations of Potential “Conflicts of Interest”** – There were no potential conflicts of interest reported.

2. **Meeting Minutes/Action Items List – H. Schrayshuen**
 21. **Approval of Minutes for Meeting #269 (September 2021) – Attachment #2.1** – H. Schrayshuen introduced the revised draft minutes of the September 10, 2021, meeting which included all comments received as of September 3, 2021. R. Clayton made a motion to approve the minutes of Meeting #269. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance (12 - 0). The EC Secretary will arrange to have the final minutes for EC Meeting #269 posted on the NYSRC website.
 22. **Review of Outstanding Action Items List – Attachment #2.2** – H. Schrayshuen reviewed and updated the action item list with the meeting attendees’ input. P. Gioia reported that the New York State Reliability Council Biennial payment to the NY Department of State has been completed. P Gioia suggested that the annual milestones be added to the Action Item List. H. Schrayshuen stated that he would develop the list of milestones to add to the Action Item List. **AI-270-1.**

3. **Organizational Issues**
 31. **Treasurer’s Report - A. Adamson**
 - 3.1.1. **Summary of Receipts & Disbursements - Cash Receipts and Disbursements – A. Adamson - Attachment #3.1.1** – A. Adamson presented Attachment #3.1.1 – Statement of Cash Receipts and Disbursements for September 2021, noting the end of month balance of \$220,333.47 which includes \$55,000.00 of prepayments. A. Adamson stated that current expenditures are \$18,000.00 below budget.
 - 3.1.2. **NYSRC 2022 Funding Mechanism and Budget – EC Approval Item – A.** Adamson stated that budgets previously discussed in the Executive Committee Meeting is set at \$737,000.00. This is a 5.9% increase from the 2021 budget. M. Domino made a motion to approve the 2022 Funding Mechanism with a budget set at \$737,000.00. The motion was seconded by C. Wentlent and unanimously approved by the EC members in attendance (12 – 0).
 32. **Other Organizational Issues**
 - 3.2.1. **2022 NYSRC Goal Status Report – R Clayton – Attachment #3.2.1** - R. Clayton reviewed Attachment #3.2.1. P. Gioia suggested removing the words “assure reliability” to “identify actions to preserve reliability.”. M. Sasson asked the NYISO if they have any comments on the 2022 NYSRC Goals. R. Pike stated that he currently does not have any concerns with the goals as drafted. He will take the draft back to

the NYISO and report to R. Clayton if any concerns arise. The report will be distributed for comment. M. Sasson thanked R. Clayton and the committees for their work on this effort. R. Clayton thanked A. Adamson for his work in developing this document.

3.2.2. EC discussion regarding November and December in-person meetings plan - H. Schrayshuen stated that there is a reservation at Wolferts Roost for the November 2021 EC meeting. H. Schrayshuen requested the EC to determine if hosting a face-to-face meeting in November 2021 will be a feasible option. After discussion it was determined enough of the EC members can travel for a face-to-face meeting. H. Schrayshuen, R Clayton and R Bolbrock will develop an in-person meeting protocol due to the COVID-19 pandemic. **AI-270-2** H. Schrayshuen will develop a hybrid meeting plan to accommodate the EC Members who cannot travel along with outside guests. **AI-270-3.**

4. Installed Capacity Subcommittee (ICS) Status Report/Issues – B. Shanahan, ICS Chair

4.1. ICS Chair Report – B. Shanahan - Attachment #4.1 – B. Shanahan reviewed Attachment #4.1 – Summary of ICS meeting #252 on October 6, 2021. B. Shanahan stated that the ICS reviewed a report from the NYISO regarding the Fall Load Forecast. The forecast is 197.6 MW lower than the 2021 Gold Book projection that was previously approved to use for the IRM study. ICS decided to use the Fall Load Forecast numbers for the Final Base Case for the 2022 IRM study. B. Shanahan stated that ConEd and PSGE-LI have reviewed the Preliminary Base Case results and reported no major findings. There were some editorial suggestions made, which the ICS accepted. B. Shanahan stated that the ICS reviewed the EC’s comments on the proposed Public Appeals Load Reduction Survey. ICS finalized the questions and have submitted them to the TO’s ICS representatives. ICS has requested the survey responses to be submitted by December 10, 2021. The survey responses will not be used in the 2022-2023 IRM study report. C. Dahl stated that there was a public appeal event this past summer and PSEG-LI is in the process of evaluating the response to the public appeal for load reduction. B. Shanahan discussed a special sensitivity using GE MARS in modeling energy limited resources (ELRs). The results of this special sensitivity were favorable in that the resulting IRMs were comparable to the Tan45 based calculation.

4.1.1. Final Draft of the Assumptions Matrix – Attachment #4.1.1 – EC Approval Item - B. Shanahan presented attachment #4.1.1 stating that ICS had no significant comments. R. Bolbrock made a motion to approve the Final Draft of the Assumptions Matrix. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance. (12-0)

4.1.2. 2022 IRM Study – Sensitivity Cases (based on Preliminary Base Case) – Attachment #4.1.2 - B. Shanahan presented attachment #4.1.2 reviewing each of the sensitivity results. A. Adamson asked if the LOLH and EUE metrics would be added to the report. It was determined that the additional metrics would be mentioned in the body of the report and the details of the metrics would be placed in the Appendix to the IRM study.

There was a discussion regarding the EOP calls resulting from the simulation results. J. Boles stated the resulting EOP calls in the MARs is a result of not attempting to optimize maintenance, which is what would happen in actuality. J Boles stated that the EOP calls can be moved to shoulder months to reflect actual operations more accurately. A. Adamson stated, “would the public find 10 or

more voltage reductions year to be acceptable?” He expressed concern with the trend of the increase in EOP calls, particularly the voltage reductions. There was discussion regarding moving step 8, emergency assistance, further up in the modeling sequence and running a sensitivity analysis on that approach. It was determined that B. Shanahan would take that idea back to the NYISO and ICS to determine if the sensitivity could be done in time for the Final Base Case Report. A. Adamson suggested that if the sensitivity could not be completed, an explanation was needed in the report to address the high EOP calls reported by the model. C. Dahl added that at ICS, LIPA requested that a sensitivity related to the availability of the Y49/Y50 cables be evaluated as part of the Final Base Case. It was determined that if the Y49/Y50 sensitivity could be part of the Final Base Case Report without compromising other work, it should be included.

42. Other ICS Issues – None to report.

5. Reliability Rules Subcommittee (RRS) Status Report/Issues –R. Clayton, RRS Chair

51. RRS Status Report – R. Clayton stated that RRS did not meet in October. The next RRS meeting will take place November 4, 2021.

52. Planning for Future Reliability – Attachment #5.2 – M. Sasson presented Attachment #5.2 on the FERC ANOPR. P. Gioia stated that the NYSRC has intervened in the FERC ANOPR case without comment.

53. Other RRS Issues – M. Sasson stated that the preliminary results of the joint NERC/FERC report on the ERCOT event has been issued and will be distributed. R. Clayton stated that NERC issued a level 2 Alert regarding cold weather events and preparedness. W. Yeomans will present the NYISO position on the NERC Alert at the next RRS meeting. R. Clayton stated that there is a rule adopted by the NYSRC stating that the NYISO shall prepare special studies to determine the impacts of dynamic technologies (e.g., inverter-based resource-based equipment). M. Sasson stated that in its ANOPR comments the ERO recommended that FERC change the standardized interconnection agreements for renewable generators to provide dynamic models to perform the needed special studies. The NYSRC could build on its rule and the recommendations NERC made in the ANOPR case.

6. Reliability Compliance Monitoring Subcommittee (RCMS) Status Report/Issues –R. Clayton, RCMS Chair

61. RCMS Status Report – R. Clayton reported on Attachment #6.1, a summary of the RCMS Meeting #258 held on October 7, 2021. He reported that the RCMS found the NYISO in full compliance for Real Time Operations of the NYS BPS for the months of August (C8:R1). RCMS also found the NYISO in full compliance for Statewide Voltage Reduction Tests (D.1:R10), Minimum Operating Reserve Requirements (E.1:R.1-7), and Black Start Provider Requirements (F.1:R.3)

62. 2021 Reliability Compliance Program – Attachment #6.2 – Attached for informational purposes.

63. Other RCMS Issues – None to report.

7. NYISO Status Reports/Issues

71. NYISO Comprehensive System Planning Process – Z. Smith – Attachment #7.1 – Z. Smith stated that the NYISO filed comments for the FERC Advance Notice of Proposed Rulemaking (ANOPR). The NYISO comments were forwarded to the EC. M. Sasson noted that the NYISO comments included a summary of the planning and interconnection processes. Z. Smith stated

that the draft of the 2021-2030 Comprehensive Reliability Plan (CRP) will be presented to the working groups, followed by the Operating Committee and Management Committee, and finally to the NYISO Board of Directors for approval. Z. Smith stated that the NYISO has begun work on the 2021-2040 System & Resource Outlook and is working with stakeholders on assumptions. Z. Smith stated that the NYISO issued a solicitation for solutions to a Long Island reliability need on August 12, 2021. The solicitation for solutions is in response to the Long Island Export Public Policy Transmission Need identified as a result of the Climate Leadership and Community Protection Act (CLCPA) impacts. The responses to the solicitation were due to the NYISO on October 11, 2021. The NYISO received 19 project proposals from four project developers. The NYISO will publish a list of the projects after which it will evaluate the viability and sufficiency of solutions to meet the reliability need. Z. Smith stated that Quarter 3 Short Term of Reliability (STAR) was issued on October 13, 2021. The Q3 STAR did not find any short-term bulk reliability needs but Z. Smith stated that the STAR did note that some new large load facilities have been added to the system. The facilities, which are bitcoin mining facilities, can come onto the system quickly, reducing reserve margins. Z. Smith stated that there will be a special Interregional Planning Stakeholder Advisory Committee (IPSAC) meeting on October 29, 2021, to discuss a potential interregional transmission planning study for potential projects to facilitate the integration of offshore wind.

7.1.1. EPIC Planning the Grid for Renewable Future Report – Attachment #7.1.1 – Z. Smith presented Attachment #7.1.1 stating that Eastern Interconnection Planning Collaborative (EIPC) developed the white paper to inform policymakers of the risks, challenges as decisions are made that affect the transmission grid considering a significant increase in the development of renewable generation.

72. NYISO Markets Report – R. Mukerji – Attachment #7.2 – N. Bouchez reported on behalf of R. Mukerji. N. Bouchez presented attachment #7.2 stating the NYISO is continuing to discuss with stakeholders throughout September and October its proposal for capacity accreditation and buyer-side mitigation measures. N Bouchez also stated that the NYISO is exploring a potential market enhancement to expand the provision of regulation service from generators by separating regulation “up” and “down.” Bifurcating the regulation market could increase the resource participation and competition to provide these services, which could reduce the overall costs procuring regulation service. The NYISO is continuing to explore a Dynamic Reserve approach that will explore more efficient scheduling of operating reserves based on system conditions and transmission system capability. This approach will not only allow for appropriate reserves to be procured to cover the largest generating source contingency that could potentially occur under the current system conditions, but will also allow for more reserves to be scheduled where they are cost-effective.

73. NYISO Monthly Operations Report – W. Yeomans – W. Yeomans stated that September weather was quiet with quite a few scheduled outages due to maintenance and transmission projects. He noted that the load for September was low.

7.3.1. NYISO Operations Report, September 2021 (short form) – Attachment #7.3.1 - For information purpose only.

7.3.2. NYISO Operations Report, September 2021 (long form) – Attachment #7.3.2 – W. Yeomans presented attachment #7.3.2. W. Yeomans stated that the September peak load of 24,613 MW occurred on September 15, 2021. There were 22.73 hours of thunderstorm alerts and 0 hours of NERC TLR level 3 curtailment in September.

7.3.3. NYISO Summer 2021 Hot Weather Operations Report – Attachment #7.3.3 – W.

Yeomans presented attachment #7.3.3, a review of the operating experiences from Summer 2021.

8. Decarbonization & DER – M. Koenig-

8I. Decarbonization & DER Report – M. Koenig - Attachment #8.1 – M. Koenig reported on Attachment #8.1 which includes links to the referenced documents. M. Koenig highlighted the NERC September Newsletter, NERC Disturbance Report: Fault-Induced Solar PV Tripping Events in Odessa, TX – NERC Staff Review 2021 Winter Freeze, Recommend Standards Improvements, NERC Webinar on Preparation for Severe Cold Weather, NYSERDA Announcements: \$11M awards for Renewables / Energy Storage projects, Tier 4 Awards for Two Major Transmission Projects, DOE Announces New “UNIFI” Grid-Forming Inverter Consortium and IEEE Paper: Comparison of Grid Following & Grid Forming inverters in High Penetration Power System, PES Magazine - September / October Edition with focus on Australia’s experience with DERs, Snapshot of the NYISO Interconnection Queue: Storage / Solar / Wind / CSRs (Co-located Storage).

9. Environmental Status Report/Issues – C. Wentlent –

9I. NYSRC/DEC Meeting on September 16, 2021 – Attachment #9.1.1 - C. Wentlent presented attachment #9.1.1 summarizing the September 16, 2021, NYSDEC/NYSRC meeting. C. Wentlent highlighted that the Climate Action Council has met and is continuing to develop a Draft Scoping Plan that will create the path for the state to meet the CLCPA requirements. C. Wentlent stated that several air permit cases (Danskammer and NRG Astoria) could set a precedent for repowering of natural gas generation facilities and an similar environmental Title V air emission permit for the Greenridge bitcoin facility. C. Wentlent stated the PSC issued a Tier 2 Renewable Energy Credit Implementation Resale Plan. NYSERDA can resell to voluntary purchasers starting February 2022. C. Wentlent also noted a petition by IPPNY, AFL CIO and others submitted to create a 1GW Demonstration Program for 24/7 dispatchable non-carbon emitting resources by 2030. This petition is subject to public comment. The next NYSDEC/NYSRC meeting will be held on November 18, 2021.

10. Resource Adequacy Working Group – C. Wentlent – C. Wentlent stated that the NYISO released a draft of a Parametric Analysis table that includes Loss of Load Hours (LOLH) and Expected Unserved Energy (EUE) changes for the updated 2022 IRM Study parameters. The Resource Adequacy Working Group will be working with the NYISO to understand the parametric analysis results.

10I. Reliability Metric Suite Application Illustration – Attachment #10.1 – A. Adamson stated that he attended the NERC Probabilistic Analysis Forum. He noted attachment #10.1 which illustrates that additional reliability characteristics for assessing loss of load events can be provided by using a suite of reliability metrics -- LOLE, LOLH, and EUE -- by comparing the reliability impacts of the recent California (August 2020) and Texas (February 2021) loss of load events. R. Clayton stated that he performed some calculations and stated the California event at .0009 was just below the .001 criterion and the Australian criterion of .002. The ERCOT winter outages normalized percentage for the 990,000 MWh unserved was .287%, which is above all criteria. M. Sasson asked R. Clayton to create a table to distribute to the EC to show the events in comparison to the known criteria. **(AI-270-4)**. P. Fedora stated that Andreas Klaube of NPCC is the Chair of the Probabilistic Assessment Working Group and that NPCC is heavily involved in the working group activities. The forum documents will be circulated. A. Adamson also stated that the initial NYSRC application of the LOLH and EUE

metrics will be to include them in the sensitivity table (Table 7-1) in the 2022 IRM report.

11. NERC/NPCC Standards Tracking – A. Adamson – Attachment#11.1

11.1. NERC Standard Tracking – A. Adamson – Attachment #11.1 – A. Adamson reviewed attachment #11.1 stating that the NYSRC abstained from voting on Project 2020-03: Supply Chain Low Impact Revision: CIP-003x (Draft 1)

12. State/NPCC/Federal Activities – M. Sasson/P. Fedora

12.1. NPCC Report –P. Fedora – P. Fedora stated that NPCC President and CEO Charles Dickerson wrote the ERO Executive Spotlight article in the September NERC newsletter. The NPCC Board of Directors will meet on October 27, 2021. They will review draft strategic plan, discuss by-law changes, and review the NERC policy input. NPCC held a DER/VER Forum on October 14, 2021. The forum focused on offshore wind generation and the transmission facilities required to bring the renewable resource to the loads. P. Fedora thanked Z Smith for describing the NYISO transmission initiatives. There were other presentations made by ISO-New England, PSE&G Long Island, the Ontario Independent Electricity System Operator, and PJM. The recording and the presentation are posted on the NPCC website.

12.2. NPCC/NERC Report – P. Fedora - P. Fedora stated that the NERC Standards Committee will meet on October 20, 2021. Included in the agenda is the adoption of Extreme Cold Weather Grid Operations, Preparedness and Coordination Standard Authorization Request (SAR). The NERC Board of Trustees (BoT)/Member Representative Committee (MRC) meeting will be held on November 4, 2021. The MRC agenda will include MRC nominations for sector representation and NERC policy input. Some prospective BoT agenda topics include 2022 ERO enterprise work plan priorities, 2021 Long Term Reliability Assessment, preview of the NERC Winter Reliability Assessment, and the policy input request. The NERC policy input request asked the EROs and MRC “Do you agree that more nimble ERO programs are desirable with the rapid changes occurring the electricity sector and where do you see opportunities for exploring new way of working and making process more efficient and agile.” He also reports that the FERC ANOPR technical conference is scheduled for November 15, 2021.

12.2.1. NERC Energy Reliability Assessment Task Force (ERATF) – P. Fedora & W.

Yeomans – P. Fedora stated the next meeting of the ERATF will be held on October 19, 2021. The agenda includes a summary of the survey responses and guideline information. The ERATF expects to provide a recommendation to the NERC Reliability and Security Technical Committee in December.

12.3. Implementation of Presidential Order on Securing the U.S. Bulk Power Systems – NYISO & TO input – Administration/DOE 100-Day Plan - C. Patka stated that this specific Presidential Executive Order on Electric Sector Supply Chain Security has expired thus has no enforcement mechanism to limiting imports of equipment. C. Patka reported that there are three separate cyber security bills being considered in the U.S. Senate.

12.4. FERC 2021 Annual Reliability Technical Conference – H. Schrayshuen and R.

Clayton – Attachment #12.4 – H. Schrayshuen presented attachment #12.4. R. Clayton reviewed some statements from Jim Robb CEO of NERC. J. Robb noted in his remarks at the conference that there is a disconnect between the speed the country is trying to convert to renewables and the speed that the new resources are interconnected. J. Robb also in his remarks stated that natural gas is needed as a bridging fuel to reliably transition to renewable energy sources. Natural gas system reliability will become critical. He mentioned a need for transmission infrastructure. The traditional reserve margin methods for projecting resource adequacy no longer work and that energy-based reliability criteria need to be developed. Demand response will also be critical. The impact of costs to end users needs to be considered. The link to the video media of J. Robb’s remarks will be

circulated to the EC members.

13. NAESB Activities – B. Ellsworth – No report.

14. Visitor Comments – P. Fedora noted that the NYSRC may have interest in the Senate Infrastructure Bill in relation to Section 215 of the FPA. C. Patka added that some portions of the Bill could possibly add to the DOE and FERC authorities in transmission planning and extends tax credits for renewable projects for three to five years. P. Fedora mentioned Section # 304-64, interregional offshore wind transmission planning modeling and analysis. It was determined that this topic will be a standing agenda item to be reported on by C. Patka and P. Fedora.

15. Adjournment of the EC Open Meeting

The open Executive Committee Meeting #270 was adjourned at 2:32p.m.

16. Future Meeting Schedule

Meeting	Date	Location	Time
#271	November 10, 2021	Tentatively hybrid meeting Wolferts Roost/WebEx	9:30 AM