

New York State Reliability Council – Extreme Weather Working Group (EWWG)
Meeting # 24 Minutes – June 27, 2025
Zoom

1. Draft Meeting Minutes for Meeting #23 (5/30/2025) – Hilme Athar

- Approved

2. Extreme Weather Resource Adequacy Modeling– Jack Garrett

- Jack Garrett provided a quick recap of NYISO’s previous findings analyzing DNV simulated data (2000 to 2022) and production data (2019 to 2024) for extreme weather conditions. Explaining that there are several metrics which can be used to determine extreme weather impact on intermittent renewable resources. NYISO proposed utilizing low output hour counts defined as hours during which capacity factor (CF) of the renewable fleet falls to or below 10%.
- New analysis and presentation addressed questions raised at previous presentations about zonal considerations and BTM Solar modelling.
 - i. Regarding zonal considerations, most of the existing non-BTM renewable fleet is within zones A through E. Behind-the-meter solar is much more equally distributed across upstate and downstate zones. Previous test case results showed no significant correlation between hourly output from intermittent renewables in downstate zones and LOLE events. However this may change in the future with the addition of new downstate BTM, OSW, and energy storage.
 - ii. Based on 2025 Gold Book and previous work conducted by NYISO’s Demand Forecasting and Analysis team there is approximately 5,980 MW of BTM Solar installed capacity in the NYCA.
 - iii. Incorporating BTM Solar into low output count and CF analysis of DNV simulated and production data resulted in similar findings from previous analysis identifying “bad weather” years and “good weather” years.
 - 1. 2021 identified as a “bad weather” year, as it has the highest low output count, Z Score showed ~2.5 standard deviations greater than mean low output count of all years. And second lowest overall CF, Z score ~1.5 standard deviations below mean overall CF of all years.
 - 2. 2018 had lowest overall CF, ~2 standard deviations below mean. But low output count below one standard deviation from mean.
 - 3. 2014 identified as a “good weather” year, with lowest low output count (~1.75 standard deviations below mean). And highest overall CF (~1.25 standard deviations above mean).
 - 4. All other years low output count and overall CF approximately within one standard deviation of mean.
- Daniel Kirk-Davidoff asked if NYISO could possibly provide information on how closely pre-2017 BTM Solar estimates and post-2017 sampled inverter data align.
 - i. Jack responded that he will take note back to rest of NYISO team.

3. New York Renewable Power Profile Dashboard– Kevin Ravas

- Kevin Ravas presented on new NYISO-DNV collaboration to develop a web-based dashboard for renewable resource data.
- Dashboard will include hourly simulated generation profiles (2000–2024) for offshore wind, land-based wind, and utility-scale solar.
- Users will be able to:
 - i. Download hourly generation data (CSV format).

- ii. Generate reports and data aggregations.
 - iii. Use GIS map features to view site-specific data, net capacity factors, turbine classifications, and mounting arrangements (e.g., single-axis tracker vs. fixed tilt).
 - iv. Dashboard will not include meteorological inputs (e.g., irradiance, wind speeds).
 - v. Site-level granularity will be included where DNV has created profiles.
 - vi. Offshore wind assumptions (e.g., hub height) will be fixed and based on a single input set.
- Daniel Kirk-Davidoff confirmed output will include individual site profiles, not just zonal aggregations previously available.
- John Dellatto asked about coordination with the University at Albany VOWELS offshore wind dashboard. Kevin replied that they had not been in had not previously heard of it but said he would investigate further.
- Thomas Primrose noted intermittent VOWELS dashboard performance and asked if NYISO has access to Deepwater/South Fork operational data. Kevin confirmed they do and are using it for calibration.
- Timeline:
 - i. Internal design and dashboard engagement with DNV will continue through 2025.
 - ii. Public version expected Q1–Q2 of 2026.

4. Renewable Lull: Issue Discovery Report– Thomas Primrose

- Thomas Primrose provided a brief update on the Renewable Output Issue Discovery Report.
- Tom noted that ICS expressed interest in the report but as current IRM impact is low, modelling changes have not yet been considered urgent.
- Results of NYISO low output count and overall CF analysis will be added to the report draft.
- Tom is also reviewing South Fork Wind performance during extreme weather but must confirm whether the data or findings can be included.

5. Virtual Offshore Wind Energy Laboratory & Simulator (VOWELS)– Roger Clayton

- John Dellatto provided quick update from Roger Clayton. No new VOWELS meetings have occurred since earlier in the year. Next meeting possibly in summer.

6. Potential Reliability Rule – 153: System Conditions for Transmission Planning Performance Requirements Covering Wind and / or Solar Generating Resource Lulls– Roger Clayton

- No updates regarding PRR 153.

7. Other Business

- Hilme Athar (current Executive Secretary) will be nominated as the next Chair.
- New Executive Secretary will be identified by Hilme.
- The leadership change will be brought to the Executive Committee (EC) in July