

Action Item List for Meeting #285 – January 4th, 2024

New York State Reliability Council – Installed Capacity Subcommittee

[Highlight denotes items that are behind schedule or due for the upcoming meeting]

| <i>No.</i> | <i>Action Item</i> | <i>Responsible Individual(s)</i> | <i>Scheduled Completion Dates</i> |
|------------|--|----------------------------------|-----------------------------------|
| 220-1 | Executive Committee requests ICS to annually track the amount (in MW for the EOP section) of public appeals used in New York | H Kosel | December 2024 |
| 257-1 | Develop a Scope for a Phase 4 High Renewables White Paper that includes anticipated project/technology changes and fuel mix. | H Kosel / Y Huang | October 2024 |
| 283-1 | Review Public Appeal for Load Reduction position in EOP sequence (EC generated item) | H. Kosel / Y. Huang | June 2024 |
| 284-1 | SCR modeling improvement presentation (continuing item) | NYISO | January 2024 |

Current White Paper Topics (For 2024 IRM Study)

| <i>White Paper Topic</i> | <i>Responsible Individual(s)</i> | <i>Status</i> | <i>Scheduled Completion Dates*</i> |
|---|----------------------------------|---------------|------------------------------------|
| Load Forecast Uncertainty / Load Shape selections (Phase 3) | M. Shuler | Completed | Completed |
| EOP Review | Y. Huang | Working | Completed |
| Gas Constraints | Y. Huang | Working | Q1 2024 |

*Scheduled Completion Dates subject to change

Model Improvement work (Future/Ongoing Work):

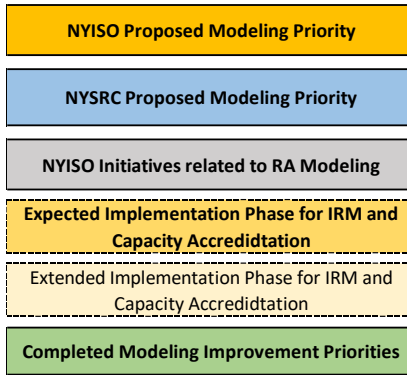
| | |
|---|---------|
| Evaluate limits on EOP activations in MARS | Ongoing |
| Enhance Maintenance Scheduling in MARS (Reintroduce Maintenance scheduling into MARS) | Ongoing |

Future (2023 and beyond) White Paper / Study Topics

The ICS has adopted a 5-year modeling improvement strategic plan to guide future planning for white paper topics. The strategic plan for 2022-2026 was discussed at the November 2022 ICS meeting and the prioritized initiatives are outlined below:

| Modeling Themes | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|---|--|--|--|---|-------------------------------|----------------------|
| 1. LCR Optimizer/Tan45 Methodology for Capacity Requirement | LCR Optimizer Improvement* | | | | | |
| | | LCR/TSL Improvement | | | | |
| | | Tan45 Methodology Review | | | | |
| | | Uncertainty with Large Entries/Exit | | | | |
| | | | | Comprehensive Tan45/LCR Review (with TSL Improvement) | | |
| | | | | | | Stability of IRM/LCR |
| 2. Winter Reliability and Modeling | Winter Gas Constraint* | | | | | |
| | Tie and Seasonal Specific Emergency Assistance | | | | | |
| | | Winter EA Assumptions | | | | |
| | | | Season specific load / Synthetic load shapes | | | |
| | | | | Seasonal Topology | | |
| | EOP Structure Review (sequence of SCR/EA) | | | | Winter Reliability Assessment | |
| 3. Energy Limited Modeling | SCR Modeling Revision* | | | | | |
| | | Modeling of DER | | | | |
| | | | ELR Output Limitation Review | | | |
| 4. Load Modeling | Variable LFUs | | | | | |
| | | Separation of BTM solar from Load Shapes | | | | |
| | | | Season specific load / Synthetic load shapes | | | |
| 5. Extreme Weather | | Impact of Regional Correlated Outages | | | | |

LEGEND:



*Expected to completed by end of 2023

Additional topics that ICS is also monitoring are as follows:

- Investigate Change in Generation Outage Rate Assumptions (5 yr avg vs 10 yr)
- Load Shifting Methodology
- Improvements to MARS modeling of ESRs.
- Identify considerations that will need to be evaluated for a Winter Peaking NYCA on future IRM determinations.
- What changes are required to shift MARS to use calendar year vs. capability year in IRM calculations.
- *Unavailable Capacity evaluation – some units historically not operating at/near DMNC during higher load periods. Monitor for potential changes.*
- *Develop criteria & modeling procedures covering extreme events: Implement revised EA model and gas constraints "assumptions" as evaluations are refined/finalized.*