

# 2025 – 2026 IRM Whitepaper Planning

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# Prioritized Whitepaper Topics for 2024

- **Based on the 2024-2028 Resource Adequacy Model Strategic Plan, the following modeling improvements have been prioritized for 2024.** ([Link to RA Strategic Plan](#))

## Whitepapers in the Implementation Phase:

- Winter gas constraint model
- Enhanced Special Case Resource (SCR) modeling

## New Whitepapers Recommendations:

- Tan45 Methodology Initial Review
- Managing uncertainties with large entries and exist
- Winter emergency assistance (EA) assumptions
- Modeling approach for Distributed Energy Resources (DER)
- Separation of behind-the-meter (BTM) Solar from Load Shapes

## Other Initiatives being considered:

- LCRs and Transmission Security: LCR Optimizer enhancements and review of valuing transmission security in the NYISO-administered capacity market – NYISO projects for 2024
- Calendar Year vs. Capability Year – expected to be addressed with season specific load
- Regional correlated outages proposed from the Extreme Weather Working Group

# Plan for the 2024 New Whitepapers

- **Following the examples of the EOP Whitepaper and Gas Constraint Whitepaper, the NYISO plans to present the detailed scopes and timelines for new Whitepapers at the February ICS meeting.**

- Research and analysis will follow with the approval of the scope for each Whitepaper

- **Several topics already have on-going conceptual discussions**

## Tan45 Methodology Review

- Assess the feasibility of current Tan45 process for future system conditions and identify improvement options
  - The future system may include major supply mix changes and topology changes
  - Principles for potential improvements may be needed before reviewing options
- Consider interim process to manage the interaction between Tan45 methodology and the transmission security limit (TSL) floor values used in the NYISO's LCR process
  - Given the experience of the 2024 – 2025 IRM, an interim process might be needed to manage the interaction between Tan45 results and TSL floors

Managing Uncertainty – a separate presentation for today

# Clarifications on Other Initiatives

- **NYISO plans to provide background and on-going updates on the NYISO's 2024 project efforts for LCR Optimizer enhancements and valuing of transmission security in the capacity market**
  - Background on transmission security considerations will also benefit the Tan45 Methodology Review Whitepaper
- **Calendar Year vs. Capability Year is driven by the fact that the current IRM load shape adjustment process does not align the winter peak to the winter forecast. This issue will naturally be addressed with season-specific load, which is prioritized for 2025**
  - The IRM study is a one-year model with assumptions and information captured over a 12-month horizon
  - Inputs to the IRM model are season specific, except the load model. The current load shape adjustment process only adjusts the load shapes to align with the summer peak forecast
  - Once the winter forecast can be represented in the load shape adjustment process, the correct winter conditions can be represented in the current MARS construct
- **Impact of Regional Correlated Outages still require inputs and directions from NYSRC**
  - Potential sensitivity of reduced winter emergency assistance can be considered for the IRM study as a potential interim measure

# Next Steps

- The NYISO to present initial Whitepaper scopes at the February ICS meeting
- Upon ICS approval on the Whitepaper scopes, the NYISO to will proceed with the research and analysis, and provide progress report to the ICS based on the timelines established for each Whitepaper

# Our Mission & Vision



## Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



## Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation

# Questions?