

Whitepaper Request to NYSRC ICS on GE MARS Capabilities for Modeling Intermittent Resource Lull Events/Ramp Down Events

NYSRC Extreme Weather Working Group (EWWG)

August 31st, 2026

As part of NYSRC Extreme Weather Working Group Goal B3.2, *"Coordinate with ICS to provide input to criteria and modeling procedures covering statistically quantifiable wind and solar lull events,"* the EWWG requests that the ICS IRM Team prepare a white paper describing the capabilities of the **GE Multi-Area Reliability Simulation (MARS)** program with respect to modeling intermittent resources.

Specifically, the EWWG requests documentation on how weather-year-specific wind and solar generation profiles are incorporated into the MARS model, and how the model captures the effects of sustained low-output periods (lull events), ramp-down events, and other weather-driven variability associated with intermittent resources.

The objective of this whitepaper is to better understand and confirm how wind and solar lull events are currently represented within the IRM study process. This information will support the EWWG's ongoing efforts to evaluate and enhance reliability modeling approaches as the New York Control Area (NYCA) experiences increasing levels of intermittent resource penetration.