2024-2025 IRM Study: Database Alignment Report

The New York State Reliability Council, L.L.C. (NYSRC) Installed Capacity Subcommittee (ICS) conducted the New York Control Area (NYCA) Installed Reserve Margin (IRM) Study for the 2024-2025 Capability Year (May 1, 2024 – April 30, 2025). The ICS technical study, performed under final base case assumptions, produced an IRM of 23.1% and "Minimum Locational Capacity Requirements" (MLCR) of 72.7% and 103.2% for Load Zone J and Load Zone K, respectively.[1] The study results meet the NYSRC resource adequacy criterion of a loss of load expectation (LOLE) of no greater than 0.100 Event-Days/year.

Following completion of the technical study, the NYSRC Executive Committee (EC) considered various factors to approve a final IRM for the 2024-2025 Capability Year. A material factor considered by the EC for this year's study was the impact of the transmission security limit (TSL) floor values used in the Locational Minimum Installed Capacity Requirements (LCR) study conducted by the New York Independent System Operator, Inc. (NYISO). After accounting for the TSL floor values, additional analysis conducted by the NYISO identified that the LOLE criterion could be met with an IRM of at least 21.5%.[2] On December 8, 2023, after consideration of the technical study results (including various sensitivity studies and the impact of the TSL floor values included therein), the EC approved a final IRM of 22.0% for the 2024-2025 Capability Year.[3]

As required by NYSRC Policy No. 5-17[4], after the EC approved the final IRM for the 2024-2025 Capability Year, the technical study database was aligned to ensure that the LOLE criterion was maintained. The database alignment was conducted with the recognition that the 22.0% IRM approved by the EC considered the applicable TSL floor values to be applied by the NYISO in its 2024-2025 Capability Year LCR Study. Accordingly, the database was aligned to the approved NYCA IRM of 22.0% and the MLCRs were set at the TSL floor values of 81.7% for Load Zone J, 105.3% for Load Zone K, and 81.0% for the G-J Locality. This database alignment is consistent with the EC's expectations during the IRM voting process and the objective of NYSRC Policy No. 5-17.

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[1] 2024-2025 Capability Year IRM Study Technical Report:
https://www.nysrc.org/wp-content/uploads/2023/12/2024-IRM-Study-Technical-Report-11-28-23_ICS_284_clean_bp-approved-12-8-2023.pdf

[2] Impact Assessment of 2024-2025 Capability Year TSL Floor Values:
https://www.nysrc.org/wp-content/uploads/2023/10/TSL-Floor-Assessment-ICS-11012023-Draft-v5-Market-Sensitive22933.pdf

[3] 2024-2025 Capability Year IRM Resolution:
https://www.nysrc.org/wp-content/uploads/2023/12/2024-25-IRM-Resolution-12-8-2023-final.pdf

[4] NYSRC Policy No. 5-17:
https://www.nysrc.org/wp-content/uploads/2023/12/NYSRC-Policy-5-17_Final-5_12_23-w_erratta.pdf

The aligned database meets the LOLE criterion with the following key results:

Case	2024 - 2025 IRM Technical Study	2024 - 2025 IRM Aligned Database
NYCA IRM	23.100%	22.000%
J LCR	72.700%	81.700%
K LCR	103.200%	105.300%
G - J	84.600%	81.000%
LOLE (Event-Days/year)	0.100	0.089
LOLH (Event-Hours/year)	0.378	0.340
EUE (MWh/year)	224.976	261.614