

CAF Results from the New Load Shape Sensitivity of the 2023 IRM PBC

The following Capacity Accreditation Factor (“CAF”) results were calculated by GE Energy Consulting as part of the NYISO’s “Phase 2” work conducted to assist the NYISO and its stakeholders in finalizing the technical implementation details and administrative rules and procedures related to the marginal capacity accreditation market design. The calculations used the New Load Shape Sensitivity of the Preliminary Base Case (“PBC”) for the New York State Reliability Council’s 2023 Installed Reserve Margin (“IRM”) study (“2023 IRM PBC”). An overview of the case and CAF results was discussed at the [November 21, 2022 ICAPWG meeting](#).

The following CAF results were calculated using the Marginal Reliability Improvement (“MRI”) technique and a 100 MW representative unit for each Capacity Accreditation Resource Class (“CARC”), consistent with the methodology for calculating CAFs as outlined in Section 7.2.1 of the ICAP Manual. These CAF results were for informational purposes only, utilizing information available at the time of calculation. These CAF results are not the final CAFs nor indicative of the final CAFs that will be used to determine the market revenue of ICAP Suppliers starting with the Capability Year that begins on May 1, 2024. Informational CAFs calculated annually, utilizing the current up-to-date model assumptions at the time the calculations are performed, will be posted on the [Capacity Accreditation](#) web page. The effective CAFs will be calculated in accordance with Section 7.2 of the ICAP Manual.

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CARC	Rest of State	GHI	NYC Locality	LI Locality
2-hour Energy Duration Limited	57.20%	63.67%	44.71%	39.88%
4-hour Energy Duration Limited	86.24%	90.96%	93.60%	77.89%
6-hour Energy Duration Limited	91.22%	92.77%	96.36%	95.53%
8-hour Energy Duration Limited	97.74%	98.24%	98.84%	99.22%
Landfill Gas	71.43% ¹	N/A	N/A	N/A
Large Hydro	100.00% ²	N/A	N/A	N/A
Limited Control Run of River Hydro	39.37% ¹	38.19% ¹	N/A	N/A
Offshore Wind	N/A	N/A	42.08%	43.46%
Onshore Wind	13.54% ^{1,2}	N/A	N/A	N/A
Solar	16.11% ¹	15.52% ¹	17.13%	12.66%
Thermal ³	N/A	N/A	N/A	N/A

¹ The CAF was calculated using representative unit shapes that reflect historic weighted-average resource performance across NYCA. Going forward, the representative units for all CARCs will be modeled in accordance with Section 7.2.1 of the ICAP Manual.

² The Rest of State CAF for this CARC was modeled in Zone C. Going forward, all CAFs for the Rest of State capacity zone will be modeled in Zone F, consistent with Section 7.2.1 of the ICAP Manual.

³ GE Energy Consulting did not calculate CAFs for thermal units during the Phase 2 project work in a manner consistent with the final implementation procedure for resources in the Thermal CARC. Going forward, a representative unit will be modeled with no forced outages in accordance with Section 7.2.1 of the ICAP Manual. The 2023 Modeling Improvements for Capacity Accreditation project is working to determine if/how this CARC will be separated into multiple CARCs to reflect additional resource constraints of thermal resources. This work may result in this CARC being further broken down into separate CARCs of Unlimited Conventional Resources, Conventional Resources with Non-Firm Fuel, Startup Notification Limited Conventional Resources, and Startup Notification Limited Conventional Resource with Non-Firm Fuel.