

ICS 2021 White Paper SCOPE (DRAFT)

Evaluate Improvements to Modeling SCR Duration Limits

Study Purpose and Summary

Evaluate the modeling of Special Case Resources (SCR) to determine an optimal method of accounting for them in determining statewide Installed Reserve Margin (IRM) requirements.

Study Scope

Review and investigate the existing SCR modeling technique in the GE MARS modeling software. The analysis will focus on the ability and duration of reliability services provided by SCRs, and the fact that the MARS program does not impose daily duration limits on SCRs. The white paper will review how the existing derating factors, including SCR performance, the ACL (Average Coincident Load) to CBL (Customer Baseline Load) factor, and the five days per month dispatch limit might need to be changed as a result of also modeling duration limits. Imposing duration limits on SCRs would require either; (a) adoption of GE's enhanced Energy Limited Resource (ELR) modeling module, or (b) an alternative SCR modeling construct similar to the current "simplified method" for modeling ELRs. The white paper will consider recommendations that would enhance SCR modeling and increase confidence in the modeling results used to determine New York's IRM requirements. The analysis will be conducted together with the white paper that will further investigate ELR modeling in MARS.

Study Schedule

This study will be completed by May 2021.