

SCOPE

IRM IMPACT OF RENEWABLE CAPACITY ADDITIONS

Study Purpose and Summary

ICS will conduct a sensitivity study as part of the 2018-19 IRM Study to evaluate the IRM impact of increases of renewable resources. Certain types of renewable capacity, such as wind and solar, have a lower availability than conventional resources, and based on previous IRM studies, increase IRM requirements. Renewable capacity – including hydro, wind, and solar – is projected to provide approximately 20% of the total NYCA generation capacity mix in the 2018 Capability Year. This sensitivity study includes a scenario which significantly increases renewable capacity from 2018-19 base case projections, to as high as 30% of the generation capacity mix. The renewable capacity increase in this latter case will assume equal amounts of wind and solar additions.

Study Scope

The sensitivity study will start with the preliminary 2018-19 IRM Study base case and determine the IRM assuming three levels of wind and solar capacity, as follows:

- *Renewable Level 1:* No wind and solar (all wind and solar capacity removed from the preliminary 2018-19 base case).
- *Renewable Level 2:* Preliminary 2018-19 base case, including projected base case wind and grid connected solar capacity. (The 2017-18 IRM base case assumed 1,676 MW of wind and 32 MW of grid connected solar.)
- *Renewable Level 3:* Add 2,000 MW of wind capacity in Upstate Zones A through E and 2,000 MW of grid connected solar capacity in Downstate Zones G through K – above base case levels. These wind and solar capacity additions will be distributed in the above zones as appropriate. This case will utilize a tan 45 analysis in accordance with Policy 5 procedures.

The results of this sensitivity will be discussed in the 2018 IRM Study report.

Study Schedule

This sensitivity study will be conducted during the September-October 2017 period in accordance with the 2018-19 IRM Study milestone schedule for conducting sensitivity cases.