

(ICS Approval Item for August)

2024-25 IRM Study - Sensitivity Cases (based on PBC)

Case	Description	Reason
0	2024-25 IRM Preliminary Base Case	These are the Base Case technical results derived from knee of the IRM-LCR curve
<i>IRM Impacts of Key MARS Study Parameters</i>		
1	NYCA Isolated	Track Total NYCA Emergency Assistance – NYCA system is isolated and receives no emergency assistance from neighboring control areas (New England, Ontario, Quebec, and PJM). UDRs are allowed
2	No Internal NYCA transmission constraints	Track level of NYCA congestion with respect to the IRM model – internal transmission constraints are eliminated and the impact of transmission constraints on statewide IRM requirements is measured
3	No Load Forecast Uncertainty	Shows sensitivity of IRM to load uncertainty, assuming that the forecast peak loads for NYCA have a 100% probability of occurring
4a	No Wind Capacity – Land-Based Wind Only	Shows wind impact for the land-based wind units and can be used to understand EFORD sensitivity (A – F Shifting)
4b	No Wind Capacity – All Wind Units	Shows wind impact for both land-based and off-shore wind units and can be used to understand EFORD sensitivity
5	No SCR Capacity	Shows sensitivity of IRM to SCR program
<i>IRM Impacts of Base Case Assumptions Changes</i>		
6	Emergency Assistance (EA) Impact	Shows impact of modifying EA from neighboring areas modeled during the Emergency Operating Procedures (Tan45)
7	Winter Constraints	<p>Built upon Sensitivity 6, shows impact to reliability when winter capacity is reduced due to gas constraints and can be used to understand tightening winter conditions</p> <p>Modeling options for ICS consideration:</p> <ul style="list-style-type: none"> - Capacity reduced for all hours from Dec - Feb - ___ MW is reduced in Zone ___ <ul style="list-style-type: none"> o MW reduction through negative units o MW reduction through derating existing units o Multiple levels of MW reduction can be considered

All results are calculated by shifting capacity from Zones A - K unless otherwise noted