

Draft ICS work product, for discussion purposes Only -2019 Sensitivity Cases

2019 IRM Study –Sensitivity Cases

Case	Description	IRM (%)	NYC (%)	LI (%)
0	<b>2019 Final Base Case</b>	16.8	82.7	101.5
	This is the Base Case technical results derived from knee of the IRM-LCR curve. All other sensitivity cases are performed off of this run.			
1	<b>NYCA Isolated</b>	25.0	88.4	109.2
	This case examines a scenario where the NYCA system is isolated and receives no emergency assistance from neighboring control areas (New England, Ontario, Quebec, and PJM). UDRs are allowed.			
2	<b>No Internal NYCA Transmission Constraints (Free Flow System)</b>	14.4	81.0	99.3
	This case represents the “Free-Flow” NYCA case where internal transmission constraints are eliminated and measures the impact of transmission constraints on statewide IRM requirements.			
3	<b>No Load Forecast Uncertainty</b>	9.2	77.3	94.4
	This scenario represents “perfect vision” for 2019 peak loads, assuming that the forecast peak loads for NYCA have a 100% probability of occurring. The results of this evaluation help to quantify the effects of weather on IRM requirements.			
4	<b>Remove all wind generation</b>	12.0	83.4	102.4
	Freeze J & K at base levels and adjust capacity in the upstate zones. This shows the impact that the wind generation has on the IRM requirement.			
5	<b>No SCRs &amp; no EDRPs</b>	13.9	79.2	101.6
	Shows the impact of SCRs and EDRPs on IRM.			
6	<b>Remove CPV valley from service</b>	17.0	83.2	101.9
	Remove the addition of CPV Valley (678 MW) from the base case due to air permit uncertainty.			
7	<b>Limit Emergency Assistance from PJM to all of NYCA to 1500 MW</b>	16.8	82.7	101.5
	This case uses a grouped interface of all PJM to NYCA import ties and restricts the grouping to a limit of 1500 MW			
8	<b>Remove the 3500 MW EA Limit into NYCA</b>	16.5	82.5	101.2
	Remove the 3500 MW Emergency Assistance grouped limit entering NYCA from its neighbors. UDRs remain in New York.			
9	<b>Remove the B and C lines from service (tan 45)*</b>	16.6	85.3	102.1

Case	Description	IRM (%)	NYC (%)	LI (%)
	Due to uncertain outage duration, reduce the B and C line ratings to Zone J to 0 MW. Decrease the NYC import grouping from 315 MW to 105 MW.			
10	<b>Combine Cedars and Quebec areas</b>	16.9	82.7	101.6
	In anticipation of the 2020 IRM, create one Area with both Quebec and the Cedars combined. Increase tie capability to 1690 MW.			
11	<b>Remove public appeals from model</b>	17.2	83.2	102.1
	Remove 80 MW of public appeals from the EOP steps in the model.			
12	<b>Incorporate Quebec to New England wheel (tan 45)</b>	17.1	82.8	101.7
	Reduce the HQ to zone D rating by 300 MW and increase to NE to Zone F by 300 MW to account for this capacity transaction.			

\*The EC has indicated that the B and C lines will be removed from service for the base case.

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