Draft ICS work product, for discussion purposes. Only 2021 Sensitivity Cases.

	2021 IRM Study –Sensitivity Cases (based on PBC)					
Case	Description	IRM (%)	NYC (%)	LI (%)	IRM% Change from Base Case	
0	2020 Preliminary Base Case	20.1	82.7	97.3	-	
	This is the Base Case technical results derived from knee of the IRM-LCR curve. All other sensitivity cases are performed as described above.					
1	NYCA Isolated	27.0	87.8	104.3	+6.9	
	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	No Internal NYCA Transmission Constraints (Free Flow System)	18.2	81.3	95.4	-1.9	
	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	No Load Forecast Uncertainty	11.0	75.9	88.2	-9.1	
	This scenario represents "perfect vision" for 2020 peak loads, assuming that the forecast peak loads for NYCA have a 100% probability of occurring.					
4	Remove all wind generation	15.2	82.7	97.3	-4.9	
	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	No SCRs	17.7	79.9	97.8	-2.4	
	Shows the impact of SCRs on IRM.					
6	SCR Modeling method update [Tan 45]	20.8	84.0	98.9	+0.7	
	Evaluate the effect of SCR duration limitations. Model SCRs as limited to six (6) hours of load reduction per day, with a further daily limit on total energy reduction from SCRs equal to 5 hours of the resource's value. That is, a hypothetical 100 MW of SCRs can reduce load for 6 hours per day but can only reduce load by 500 MWh over the course of that 6 hours.					
7	LI LCR Analysis	LI LCR impacts: LI LFU (-0.9%), LI unit deactivations (-0.4%), LI cable outage rates (-2.3%)				
	Tan 45 analysis was conducted on the three drivers affecting Long Island LCR values					
8	DLRs with new software modeling					
	Use new MARS software version to model the elections of the Duration Limited Recourses					

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