

Table 6-1 for Final Base Case			
Parameter	Estimated IRM Change %	IRM %	Reason for IRM Changes
2022-23 IRM Study - Final Base Case (FBC)		19.6	
2023-24 IRM Study Parameters that Increased the IRM			
Addition of 539.3 MW New Wind Units	1.2		Lower availability of wind units.
Withhold 350 MW OR at Load Shed	1.1		Removing available MWs from Operating Reserve EOP step.
UDR Election	0.5		Cross Sound Cable election changed
Update of External Areas + Policy 5	0.3		Policy 5 adjustment reduced support from external areas.
DMNC Updates	0.2		Lower DMNC MW in downstate
Thermal Outage Rate (2017-2021)	0.1		Increased the EFORD
Non-SCR and Non-OR EOPs	0.1		A decrease in EOP MW.
Total IRM Increase	3.5		
2023-24 IRM Study Parameters that decreased the IRM			
DEC Peaker Deactivation	-0.9		Peaker units have higher EFORD, deactivation lowers the system EFORD
Update ELR Model	-0.8		Increased the availability of ELRs
New Summer LFUs	-0.6		Reduces the load forecast uncertainty
Topology Update + Neptune Rest.	-0.5		Increased the system transfer capability
New Load Shapes	-0.3		Adopted the new load shapes.
Update Run of River Shapes	-0.1		Improvement in RoR performance.
Total IRM Decrease	-3.2		
2023-24 IRM Study Parameters that did not change the IRM			
Winter LFU	0.0		
Update of Solar and LFG Shapes	0.0		
Update of Wind Shapes	0.0		
Update of SCRs	0.0		
Net Change from Previous Study		0.3	
2023-24 IRM Study FBC		19.9	

Table 7-1: 2023 Final Base Case IRM Sensitivity Case Results

2023 IRM Study Case	Description	IRM (%)	IRM (%) Change from Base Case	LOLH (hrs/yr)	EUE (MWh/yr)
0	2023 IRM Final Base Case	19.9	-	0.358	192.4
<i>IRM Impacts of Key MARS Study Parameters</i>					
1	NYCA Isolated (No Emergency Assistance)	27.5	+7.6	0.315	141.1
2	No Internal NYCA Transmission Constraints	17.9	-2.0	0.373	275.5
3	No Load Forecast Uncertainty	11.7	-8.2	0.284	79.1
4	No Wind Capacity	13.8	-6.1	0.356	188.6
5	No SCR Capacity	17.0	-2.9	0.342	166.9
<i>IRM Impacts of Base Case Assumption Changes</i>					
6	Energy Limited Resource (ELR) (Fixed Output Shapes)	20.1	+0.2	0.365	194.7
7	Operating Reserves Not Maintained at Load Shedding	18.4	-1.5	0.357	186.6
8	Reverse New Load Shapes (Tan 45)	20.2	+0.3	0.365	167.0
9	Y49 Outage Extended Beyond June 2023	20.5	+0.6	0.352	168.7
10	Y49 Transition Rate Reverted to 2015-2019 Data	19.4	-0.5	0.358	210.6