

Tables 6-1 and & 7-1 from IRM Study Report

Table 6-1: Parametric IRM Impact Comparison – 2021 IRM Study vs. 2022 IRM Study

Parameter	Estimated IRM Change (%)	IRM (%)	Reasons for IRM Changes
2021 IRM Study – Final Base Case		20.7	
2022 IRM Study Parameters that increased the IRM			
Capacity Additions	0.6		Addition of 158 MW of wind and 182.9 MW of solar increased the IRM.
Cable Transition Rates	0.2		Recent cable poor performance
Wind Shapes (2016-2020)	0.1		The added 2020 shape had a poorer performance than the deleted 2015.
New Reserve Allocation	0.1		Movement of Reserves from a bottled zone (Zone A) to Zones F and G
Summer Maintenance	0.1		Planned maintenance increase
SCR Update	0.1		Slight drop in downstate performance
Partial outage of the Neptune UDR	0.5		Transformer replacement delayed
Total IRM Increase (Numbers rounded to nearest tenth)	1.7		
2022 IRM Study Parameters that decreased the IRM			
New Summer LFU	-1.0		Narrowing of high load bins
Final Load Forecast for 2022	-0.7		Decrease in downstate load forecast
Gold Book 2021 DMNC Values	-0.3		Upstate to downstate decrease in total available MWs
Thermal Outage Rates (2016 - 2020)	-0.3		Downstate rates improved
Non-SCR EOPs	-0.3		Slightly more MWs available
ROR Shapes (2016-2020)	-0.1		2020 saw better performance than the dropped 2015 shape
Update ELR Units	-0.1		Performance of underlying units improved.
Total IRM Decrease (Numbers rounded to nearest tenth)	-2.8		

Tables 6-1 and & 7-1 from IRM Study Report

2022 IRM Study Parameters that did not change the IRM			
New Winter LFU	0		
Solar and LFG Shapes (2016-2020)	0		
Deactivations	0		
Topology Changes	0		
Net Change from 2020 Study		- 1.1	
2021 IRM Study – Final Base Case		19.6	

Tables 6-1 and & 7-1 from IRM Study Report
 Table 7-1: Sensitivity Cases – 2022 IRM Study

Case	Description	IRM (%)	IRM % Change from Base Case	LOLH hours/yr	EUE MWhr/yr
0	2022 IRM Final Base Case	19.6	-	0.341	207.3
<i>IRM Impacts of Key MARS Study Parameters</i>					
1	NYCA Isolated (no emergency) assistance)	28.2	+8.6	0.298	163.4
2	No Internal NYCA transmission constraints	17.7	-1.9	0.365	303.0
3	No Load forecast uncertainty	11.7	-7.9	0.251	61.0
4	Remove all wind generation	14	-5.6	0.346	215.3
5	No SCRs	16.9	-2.7	0.324	178.4
<i>IRM Impacts of Base Case Assumption Changes</i>					
6	Advanced completion of Zone D PAR repair	19.5	-0.1	0.345	210.6
7	Enhanced Energy Limited Resource (ELR) functionality test. (Tan 45).	18.8	-0.8	0.361	245.5
8	Revert to 2021 IRM Study Cable Forced Outage Rates (Tan 45)	19.5	-0.1	0.343	211.8