Preliminary Parametric IRM Impact Comparison – 2015 vs. 2016 IRM Study

Parameter	Estimated IRM Change (%)	IRM (%)	Reasons for IRM Changes
2015 IRM Study – Final Base Case		**17.3**	
2016 IRM Study Parameters that Increased the IRM			
All Hours in Simulation Instead of Only Peak Hours	+0.4		Increase in 'off peak' LOLE events
Updated IESO, NE and Quebec Models	+0.3		Less assistance from the new external models
Updated Load Forecast (Gold Book)	+0.1		Downstate load growth higher than upstate
Non-SCR EOPs	+0.1		Slightly lower voltage response
Total IRM Increase	**+0.9**		
2016 IRM Study Parameters that Decreased the IRM			
Updated PJM Model (4-zone model)	-0.7		Increased planned installed reserve.
Updated Generating Unit EFORd's	-0.4		Five-year average performance improved
Updated SCRs	-0.1		Performance improvement
Updated Large Hydro Model	-0.1		Improved hydro availability
Updated Topology & Generation Additions	-0.1		Slight improvement of transmission and resource capability downstate
Total IRM Decrease	**-1.4**		
2016 IRM Study Parameters that do not change the IRM			
Updated Solar Shape	0		
Updated Sales	0		
Updated Cable Outage Rates	0		
Change Study Year	0		
Updated DMNC	0		
2013 Wind Shape Model* (Same as for 2015 IRM Study)	0		
Net Change from 2015 Study		**-0.5**	
2016 IRM Study – Preliminary Base Case		**16.8**	

*Use of 2014 load shape model would decrease IRM by 1.1%.