

August 29, 2017 NYSRC ICS Meeting Report

Prepared for the September 9, 2017 NYSRC EC meeting

Tan 45 and Parametric Study Results

The NYISO provided an update to the issue that was discovered while performing the parametric study. The NYISO had noticed when adding a small new unit the LOLE increased instead of decreasing. The NYISO engaged GE to assist with the issue. It was determined that it was related to the Random Seed Generation Algorithm. The NYISO developed a workaround to the issue to produce the parametric results with GE developing a software revision. The NYISO will continue testing the revised software and will compare it to the results from the Tan 45 for it to be used in the preparation of the final base case. At this time there is no projected impact to the IRM process and results.

The results of the parametric study were prepared by Al Adamson and shown in the table below.

Parametric IRM Impact Comparison – 2017 IRM Study vs. Preliminary 2018 IRM Study

Parameter	Estimated IRM Change (%)	IRM (%)	Reasons for IRM Changes
2017 IRM Study – Final Base Case		18.1	
2018 IRM Study Parameters that increased the IRM			
New Generating Units	+0.4		Result of shifting method to get back to 0.1
NY Topology Updates	+0.2		Topology changes were made as a result of the discontinuance of the Con Edison/PSEG wheel
New Wind Generation	+0.2		Wind has lower availability
UDR Elections and Line EFORs	+0.1		
Updated LFU Model	+0.1		Updates were made to the model
Non-SCR/EDRP EOPS	+0.1		Less participation of EDRPs and EOPs
Retirements	+0.1		May change as Shoreham GTs have rescinded their deactivation notice
Updated Run of River Hydro	+0.1		
Total IRM Increase	+1.3		
2018 IRM Study Parameters that decreased the IRM			
Updated Load Forecast	-0.3		Lower load forecast
Updated External Control Area Models	-0.1		
Total IRM Decrease	-0.4		
2018 IRM Study Parameters that did not change the IRM			

New MARS Version	0		
Updated DMNC Rates	0		
NYPA Sales	0		
Updated SCRs & EDRPs	0		
Updated Maintenance	0		
Updated Generating Unit EFORd's	0		
Updated Cable Outage Rates	0		
New Wind Shapes	0		
Emergency Assistance Limit at 3500 Mw	0		
Net Change from 2017 Study		+0.9	
2018 IRM Study – Preliminary Base Case		19.0	

The results of the NYISO performing a Tan 45 and regression analysis on the parametric case resulted in a **Preliminary IRM of 19.0%** with LCRs of 80.6% in NYC and 103.6% in Long Island. The NYISO will begin the sensitivity studies using the preliminary base case.

Other Items:

IRM Report

The ICS discussed new topics for inclusion in the report. Among these will be the new Emergency Assistance methodology, behind the meter net generation resources, the NYISO's deactivation study on Indian Point, and the renewable resource sensitivity.