

2017/2018 Winter Weekly Reserve Target (WWRT)



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- **Background**
 - WWRT is part of the Reserve Requirement Study (RRS), which also calculates the Installed Reserve Margin (IRM) and the Forecast Pool Requirement (FPR).
 - WWRT is supplied to the PJM Operations Department which uses it to coordinate planned generator maintenance scheduling during the winter period.
- **Objective**
 - Cover against uncertainties associated with load and forced outages during the winter months so that winter LOLE is practically zero

- Procedure
 - Step 1: In GE-MARS, set up an IRM case with total LOLE = 0.1 days/year.
 - Step 2: In addition to the required planned maintenance schedule, simulate additional planned maintenance during each week of the three winter months until the annual LOLE is worse than 0.1 days/year.
 - Step 3: Calculate the available reserves in each of the winter weeks as a percentage of the corresponding monthly peak.
 - Step 4: The WWRT for each month is the highest weekly reserve percentage (rounded up to the next integer value).

Month	% Available Reserves	Max % Available Reserves (by Month)
December	18.53%	23%
	22.37%	
	22.63%	
	10.69%	
January	20.28%	27%
	13.18%	
	24.89%	
	26.56%	
February	20.70%	25%
	24.37%	
	19.09%	
	14.91%	

Corresponding values calculated last year were:

- December: 24%
- January: 30%
- February: 28%

- Endorsement of Winter Weekly Reserve Target Values for 2017/18 as shown below:

Month	WWRT
December 2017	23%
January 2018	27%
February 2018	25%