2021/22 Winter Weekly Reserve Target (WWRT)

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Resource Adequacy Planning

Planning Committee

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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 upcoming 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: 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	18.29%	24%
	23.52%	
	21.61%	
	10.86%	
January	23.73%	27%
	10.44%	
	18.72%	
	26.25%	
February	18.13%	21%
	20.69%	
	17.31%	
	13.14%	

Last year's values were:

December: 23%
January: 27%
February: 23%

- Endorsement of the recommended Winter Weekly Reserve Target values for 2021/22

Month	WWRT
December 2021	24%
January 2022	27%
February 2022	21%

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