

**Final
Seasonal Assessment of Resource Adequacy for the ERCOT Region
Spring 2012**

Released March 1, 2012

SUMMARY

The ERCOT Region should have sufficient installed generating capacity for the Spring 2012 season to cover peak demands resulting from expected or extreme weather conditions with a historically-typical amount of generation outages. However, if extreme weather occurs while an unusually high number of generators are out of service due to the coincidence of planned maintenance that typically occurs in this season, or if an extreme level of forced outages were to occur during a similar period of high demand, the ERCOT system could have insufficient resources available to serve the demand resulting from that extreme weather. This insufficiency could result in the need for rotating outages to maintain the integrity of the system as a whole.

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Range of Likely Risks

Installed Capacity, MW	65,915	Based on current Seasonal Maximum Sustainable Limits reported through Registration process		
Planned Units (not wind) with Signed IA and Air Permit, MW	-	Based on in-service dates provided by developers of generation resources		
Capacity from Private Networks, MW	4,390	Based on actual net PUN output during non-EEA periods of August 2011		
Switchable Units, MW	3,138	Installed capacity of units that can switch to other Regions		
less Switchable Units Unavailable to ERCOT, MW	(317)	Based on survey response of Switchable Unit owners		
RMR Units to be under Contract, MW	-	-		
Effective Load-Carrying Capability (ELCC) of Wind Generation, MW	855	Based on 8.7% of installed capacity (Effective Load Carrying Capability) of wind per Planning Guide Section 8		
ELCC of Planned Wind Units with Signed IA, MW	-	Based on in-service dates provided by developers of generation resources		
50% of Non-Synchronous Ties, MW	553	Based on 50% of installed capacity of ties, per Planning Guide Section 8		
a Total Resources, MW	74,534			
b Spring Peak Demand, MW	58,312	Updated 50% Probability forecast, based on expected Spring 2012 weather		
c Reserve Capacity (a -b), MW	16,222			
		Extreme	Extreme	
		Load/Typical Gen	Load/Extreme Gen	
	Base Case	Outages	Outages	
Extreme Load Range	-	2,723	2,723	Based on load forecast using actual extreme weather year temperatures for May
Typical Maintenance Outages	4,092	4,092	4,092	Based on average of historic planned outages for hour ending 3P-6P of Mar, Apr, May weekdays
90th Percentile Maintenance Outages	-		3,458	Based on historic planned outages for hour ending 3P-6P of Mar, Apr, May weekdays
Typical Forced Outages	3,819	3,819	3,819	Based on average of historic forced and delayed outages for hour ending 3P-6P of Mar, Apr, May weekdays
90th Percentile Forced Outages	-		2,904	Based on historic forced and delayed outages for hour ending 3P-6P of Mar, Apr, May weekdays
Derations due to High May Temps		1,356	1,356	Seasonal Ratings for Spring minus ratings for Summer
Forced Outages due to Drought (minimum)	24	24	24	Current unavailability
Forced Outages due to Drought (maximum)	-			
d Total Uses of Reserve Capacity	7,935	12,014	18,376	
e Capacity Available for Operating Reserves (c-d), MW	8,287	4,208	(2,154)	
Less than 2300 MW indicates risk of EEA1				