

**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	
<b>a</b>	<b>Total Resources, MW</b>	<b>74,534</b>			
<b>b</b>	<b>Spring Peak Demand, MW</b>	<b>58,312</b>		Updated 50% Probability forecast, based on expected Spring 2012 weather	
<b>c</b>	<b>Reserve Capacity (a -b), MW</b>	<b>16,222</b>			
			<b>Extreme</b>	<b>Extreme</b>	
			<b>Load/Typical Gen</b>	<b>Load/Extreme Gen</b>	
		<b>Base Case</b>	<b>Outages</b>	<b>Outages</b>	
	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)	-	-	-	
<b>d</b>	<b>Total Uses of Reserve Capacity</b>	<b>7,935</b>	<b>12,014</b>	<b>18,376</b>	
<b>e</b>	<b>Capacity Available for Operating Reserves (c-d), MW</b>	<b>8,287</b>	<b>4,208</b>	<b>(2,154)</b>	
	Less than 2300 MW indicates risk of EEA1				