

May 2008 Grid Operations

ERCOT Board of Directors 15 July 2008

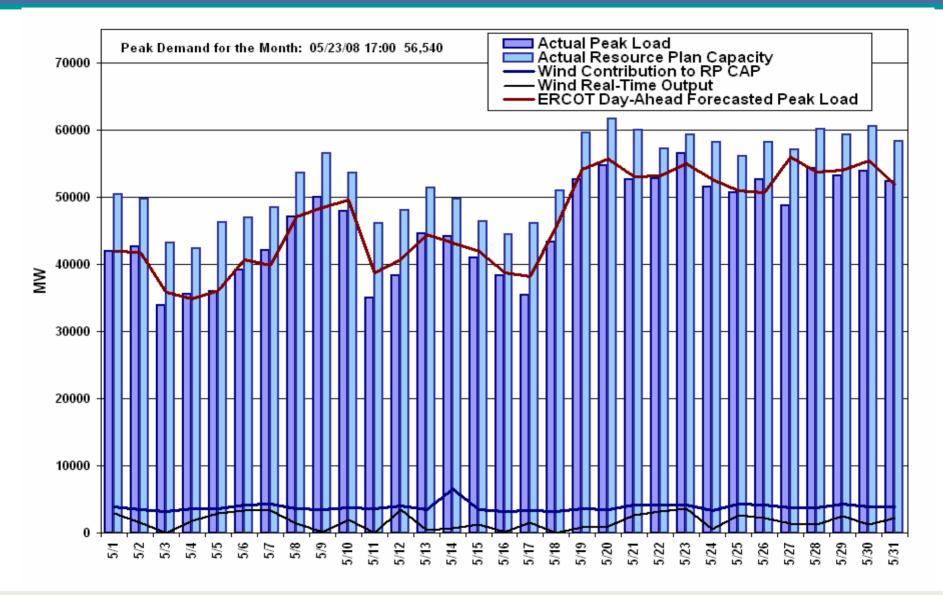
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- Peak Demand: Actual vs. Forecast On-line Resources: Total at Peak and Wind
- Day-Ahead Load Forecast Performance
- Out of Merit Capacity Order (OOMC) & Reliability Must Run (RMR) Purchases
- Zonal Congestion
- Significant System Incidents
- Advisories, Alerts and EECPs
- Other Items
- June 18th EECP Step One



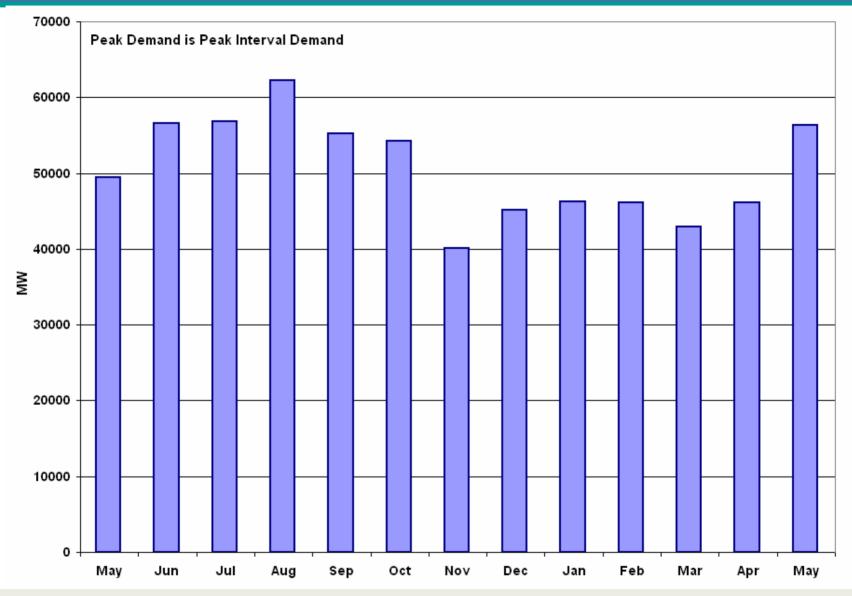
Daily Peak Demand: Hourly Average Actual vs Forecast Resource Plan: On-line Capacity at Peak



Note: Preliminary data obtained from EMS hourly averages.



Monthly Peak Demand: Actual

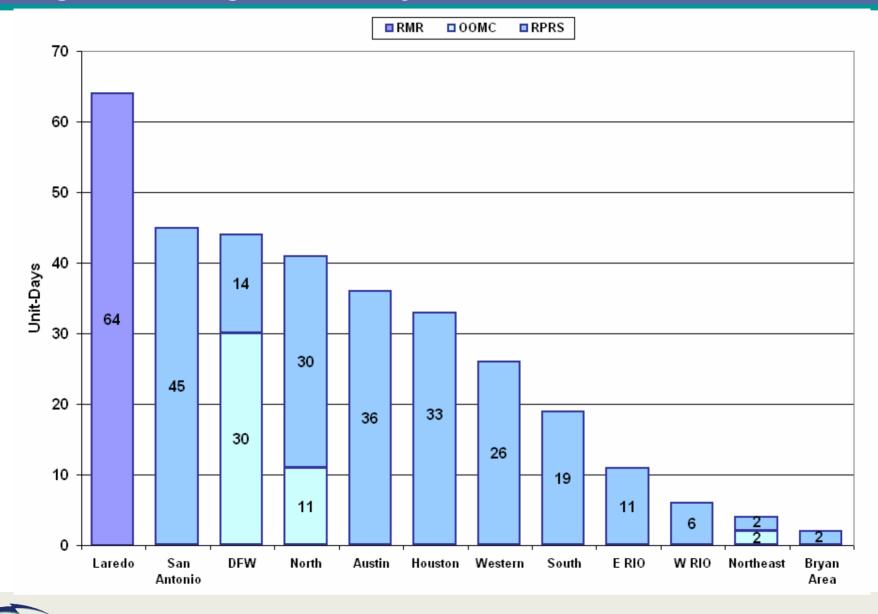




	Mean Absolute Percent Error (MAPE) for ERCOT Mid-Term Load Forecast (MTLF) Run at 16:00 Day Ahead					
	2005 MAPE	2006 MAPE	2007 MAPE	2008 MAPE (YTD)	May 2008 MAPE	
Average Annual MAPE	4.56	3.79	3.55	3.13	3.01	



Capacity Purchases of RMR, OOMC & RPRS to Manage Local Congestion in May 2008



Zonal Congestion

CSC	May 08 Days	May 07 Days	Last 12 Months Total Days
North – Houston	17 May – 1-5,7-9,14,15,19,20,24,27,28,30,31	13	111
North – West	1 May – 20	3	61
West – North	20 May – 1-3,5-7,11-14,21-26,28-31	2	133
South – North	8 May – 5,6,15-18,20,24	2	42
North - South	28 May – 1-14,18-31	N/A	69



Significant System Incidents in May 2008

- May 1st
 - High Voltage event at Tonkawa 345 kV substation during switching.
- May 9th
 - Loss of Tradinghouse #2 345 kV bus and subsequent lines.
- May 27th
 - Loss of 345 kV line in West Texas tripping 301 MW of generation. Storms were active in the area.



- Advisories issued for Adjusted Responsive Reserve (ARR) below 3000 MW.
 - Issued on 8 Days.
- No alerts issued for ARR below 2500 MW.
- Transmission Emergency Notices (unable to operate without post-contingency overloads):
 - 5/14 Emergency Notice issued for the Rio Grande Valley due to forced outage at Pharr Magic Valley.
 - 5/20 Emergency Notice for Laredo Area due to RMR unit forced outage. ERCOT received 50 MW of emergency energy from CFE.
- No EECPs implemented for the month of May.



- Held the following Balancing Energy intervals due to input error:
 - Held IE 05:00 on May 1
 - Held IE 11:30 and 17:30 on May 6th
 - Held IE 13:30 on May 12th
- May 12th
 - Held 19:00 interval due to software problems.



• Implemented at 16:25 and terminated at 18:15

• Primary factors:

 Peak load 2100 MW higher than the Day-Ahead Load forecast due to temperature predictions being lower than actual (forecast precipitation failed to materialize).

• Operational Response:

- Non-Spin Service deployed in all zones.
- 3003 MW of additional capacity was procured collectively from RPRS, ERCOT OOMC, and QSE Self Committed units for Hour Ending 17:00.

• Action Items

- ERCOT developing a methodology for taking into account forecast risks.
- Implementation of PRR 763 will incorporate the AWS Truewind Forecast into day-ahead resource procurements (RPRS).



Questions?