



March 2008 Grid Operations

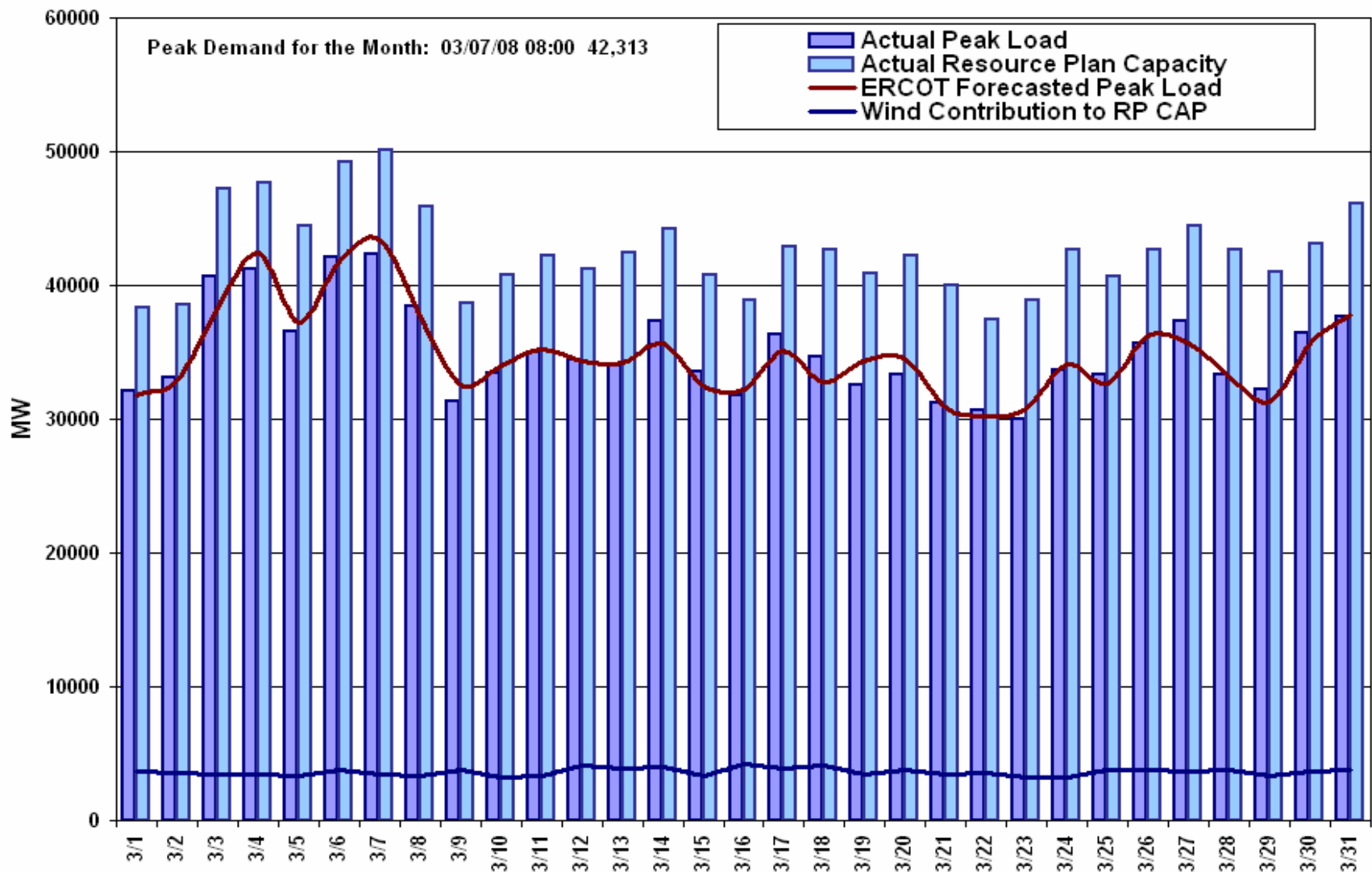
ERCOT Board of Directors
20 May 2008

Kent Saathoff

- **Peak Demands: Actual vs. Forecast**
- **On-line Resources: Total at Peak and Wind**
- **Load Forecast Performance**
- **Out of Merit Capacity Order (OOMC) &**
 - **Reliability Must Run (RMR) Purchases**
- **Zonal Congestion**
- **Significant System Incidents**
- **Advisories, Alerts and EECs**
- **Other Items**

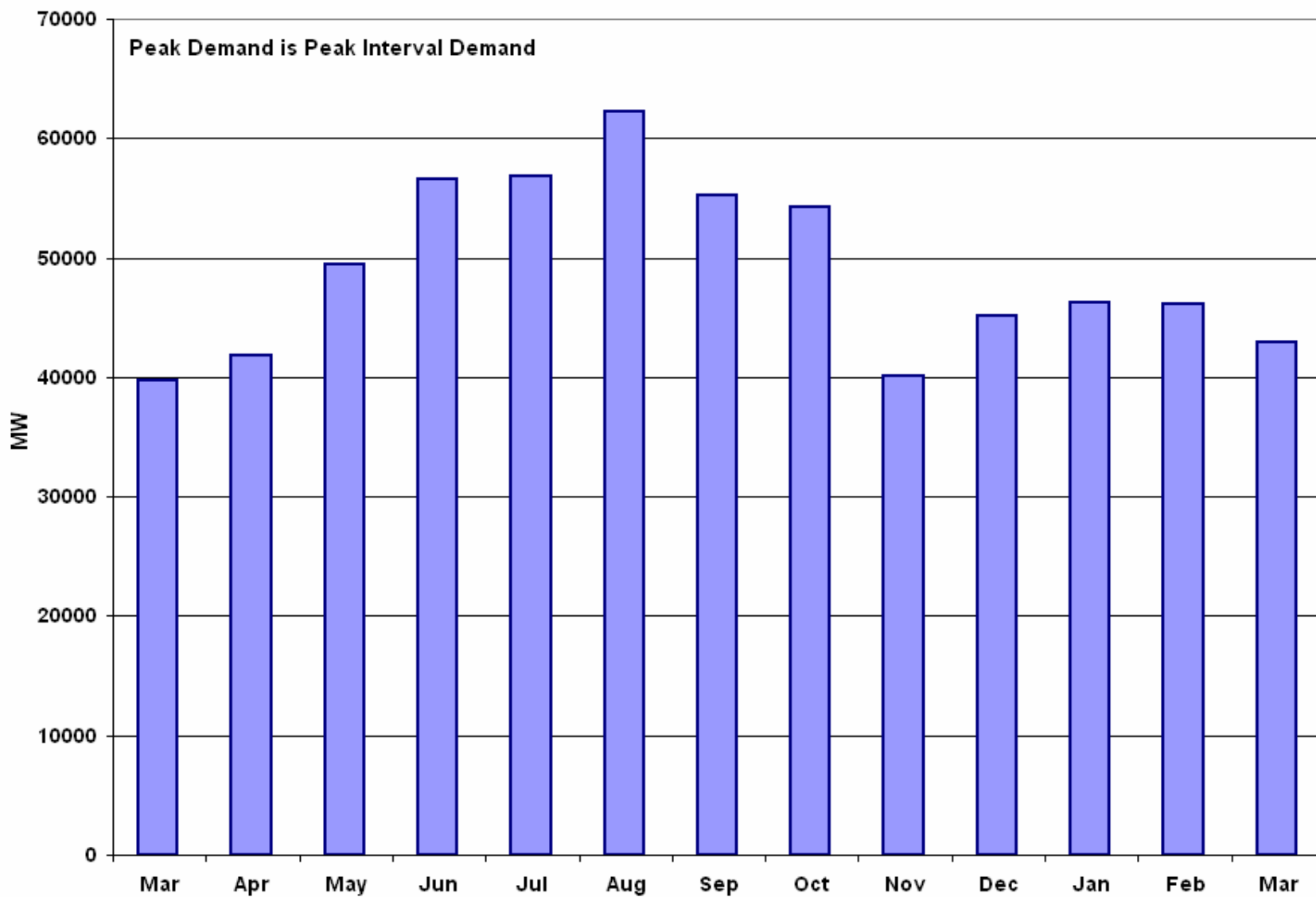
Daily Peak Demands: Hourly Average Actual vs Forecast

Resource Plan: On-line Capacity at Peak



Note: Preliminary data obtained from EMS hourly averages.

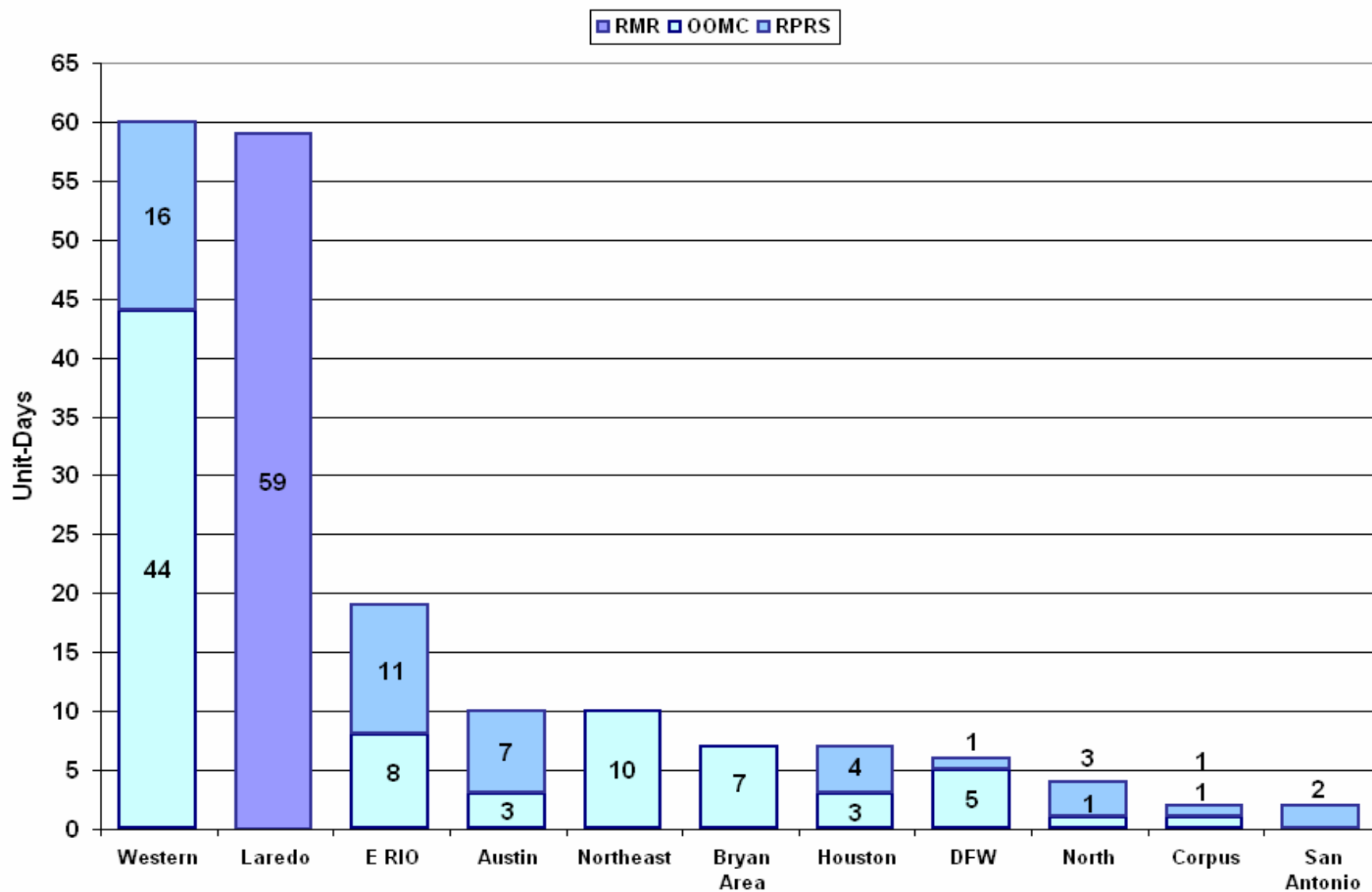
Monthly Peak Demands: Actual



Load Forecast Performance in March 2008

	Mean Absolute Percent Error (MAPE) for Mid-Term Load Forecast (MTLF) Run at 16:00 Day Ahead				
	2005 MAPE	2006 MAPE	2007 MAPE	2008 MAPE (YTD)	March 2008 MAPE
Average Annual MAPE	4.56	3.79	3.55	3.39	3.29

Capacity Purchases for RMR OOMC & RPRS to Manage Local Congestion in March 2008



Zonal Congestion

CSC	March 08 Days	March 07 Days	Last 12 Months Total Days
North – Houston	4 Mar – 18,19,21,31	0	80
North – West	2 Mar – 1,23	1	57
West – North	28 Mar – 1-9,12-28,30-31	0	92
South – North	9 Mar – 13,18,19,21,23,24,26,29,31	1	24
North - South	13 Mar – 1,2,5,12,13-16,18,20,21,27,30	N/A	25

Significant System Incidents in March 2008

- **March 16th DCS event**
 - Generation at 1172 MW tripped due to loss of condenser vacuum
 - Frequency spiked to 59.7 Hz and recovered in approximately 2 minutes and 27 seconds (no more than 15 minute recovery required)
 - 625 MW of LaaRs by means of underfrequency load shedding and 864 MW of Generation Resource Responsive Reserve was deployed.
- **March 18th**
 - Loss of one 138 kV bus, 345/138 kV Autotransformer and a unit with 634 MW tripped in Central Texas due to a failed conductor in substation coming into contact with the 138 kV bus.
- **March 18th**
 - Two RMR units forced offline due to grass fire in the area.
- **March 22nd**
 - High Voltage event at Sweetwater 345 kV substation.

- **Advisories issued for Adjusted Responsive Reserve (ARR) below 3000 MW.**
 - Issued 16 Days.
- **Alerts issued for ARR below 2500 MW.**
 - None.
- **Transmission Alerts:**
 - 3/17 Emergency Notice issued for the Rio Grande Valley. Loss of the North Edinburg – Lon Hill 345 kV would cause voltage collapse in the area.
 - 3/19 Loss of Sandow – Austrop 345 kV double circuit would cause low voltage and possible voltage collapse in Milano/Minerva area.
- **EECP**
 - No EECPs implemented.

- **March 13th**
 - Held the 00:15 interval due to congestion management tool input error.
- **March 13th**
 - Held interval 09:30 real-time balancing deployments due to an incorrect balancing deployment value being entered.
- **March 14th**
 - Held interval 04:15 deployments due to an incorrect zonal constraint value being entered.

Questions ?