



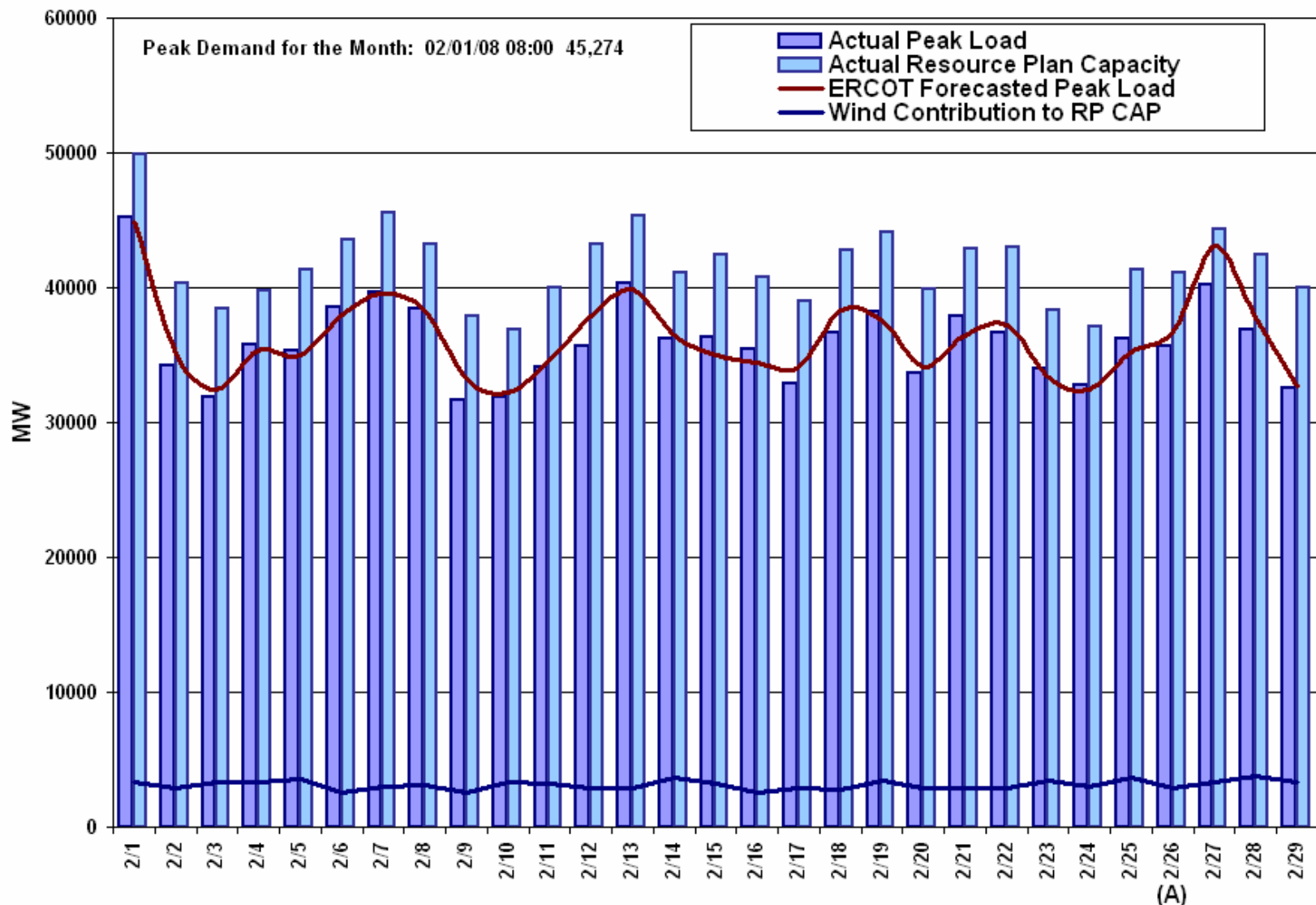
# February 2008 Grid Operations

April 15, 2008

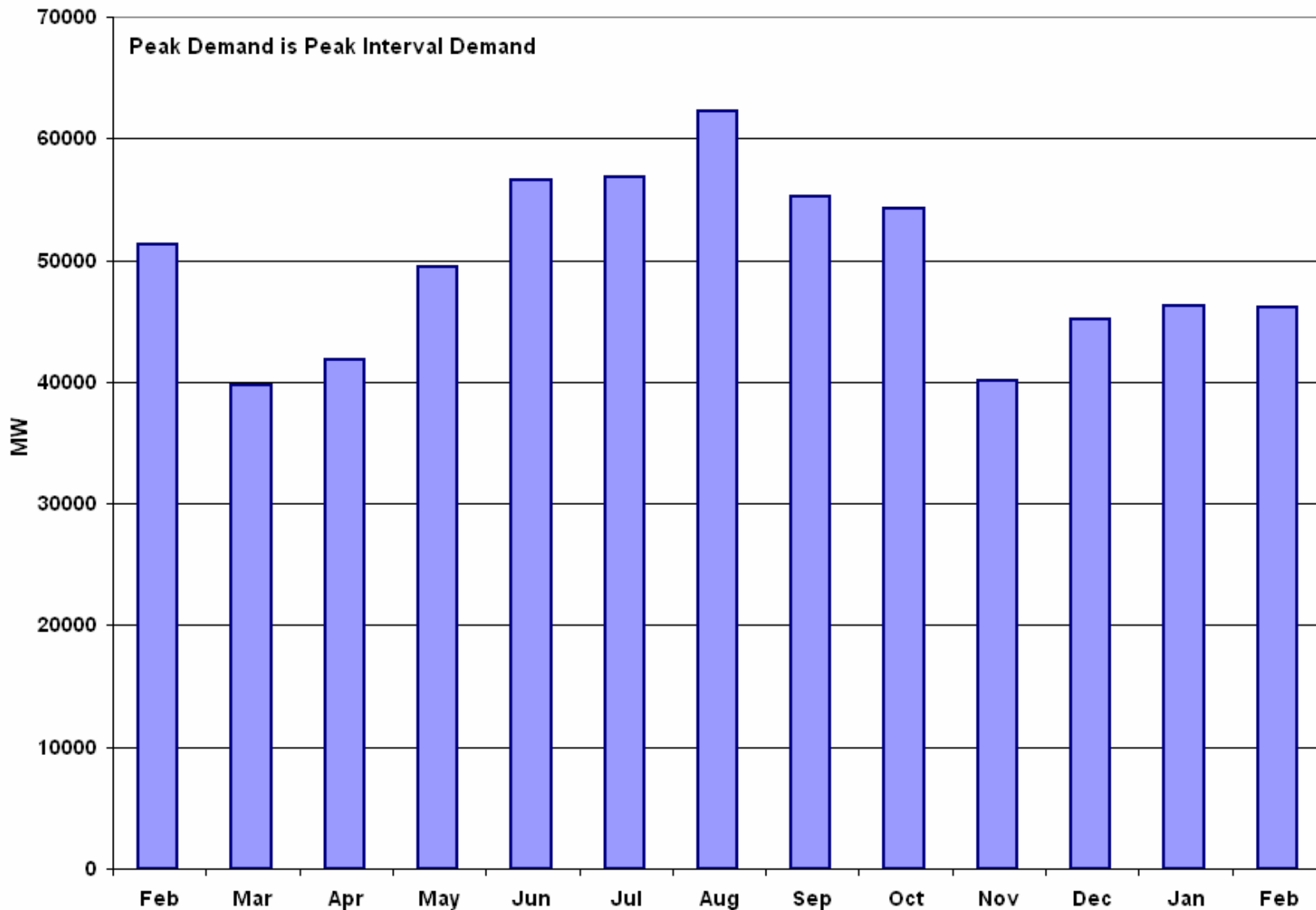
- **Peak Demands: Actual vs. Forecast**  
**On-line Resources: Total at Peak and Wind**
- **Load Forecast Performance**
- **Out of Merit Capacity Order (OOMC) &  
Reliability Must Run (RMR) Purchases**
- **Zonal Congestion**
- **Significant System Incidents**
- **Advisories, Alerts and EECPs**
- **Other Items – February 26, 2008 EECP Follow-up Actions**

# Daily Peak Demands: Hourly Average Actual vs Forecast

## Resource Plan: On-line Capacity at Peak



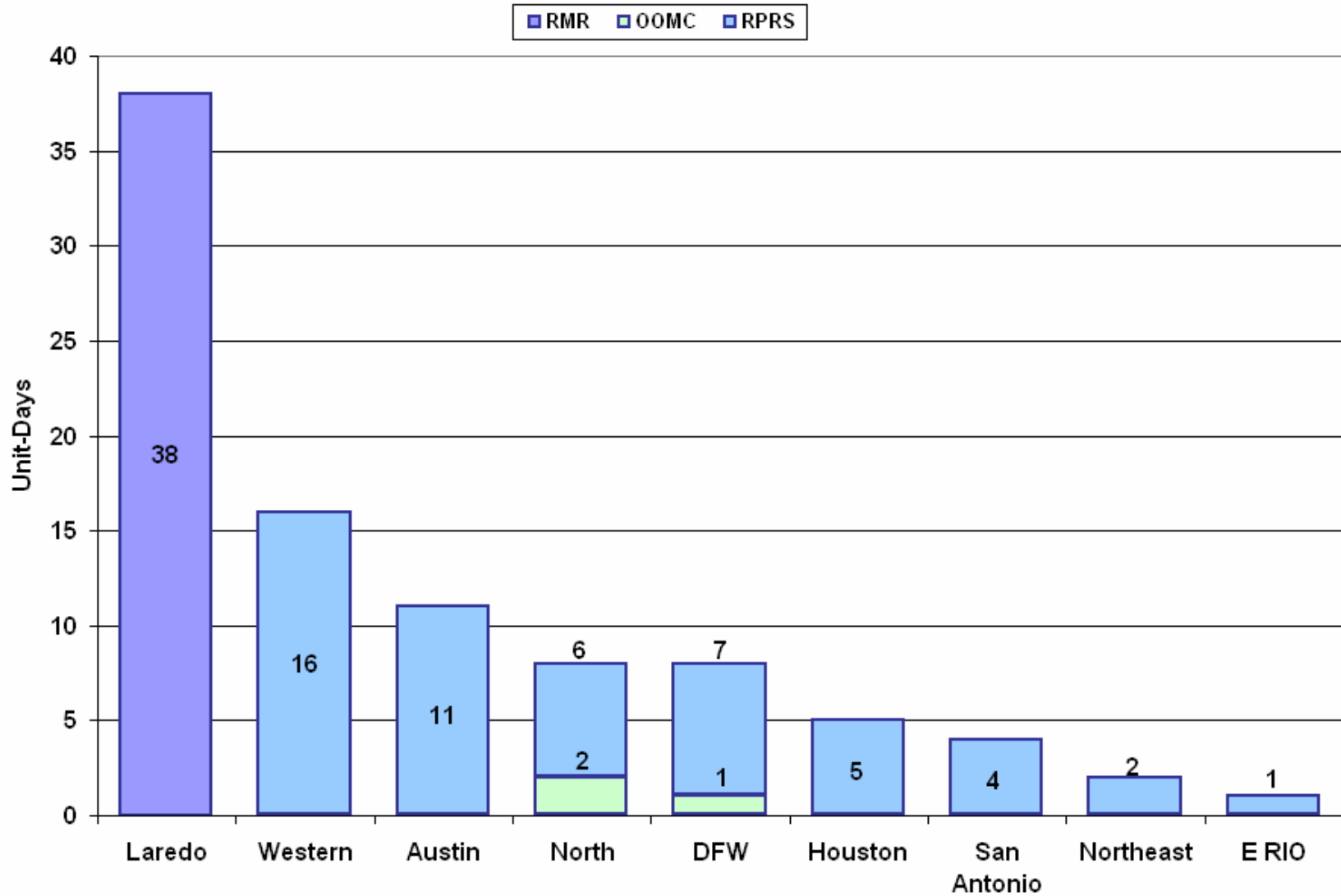
# Monthly Peak Demands: Actual



# Load Forecast Performance in February 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)	February 2008 MAPE
Average Annual MAPE	4.56	3.79	3.55	3.44	3.59

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



# Zonal Congestion

<b>CSC</b>	<b>Feb 08 Days</b>	<b>Feb 07 Days</b>	<b>Last 12 Months Total Days</b>
<b>North – Houston</b>	0	0	76
<b>North – West</b>	<b>15</b> Feb – 1,2,6,8,9,12,13,16,18,20,21,24,26,27,29	2	57
<b>West – North</b>	<b>24</b> Feb – 1-4,6-8,10,12-14,16-20,22-29	0	64
<b>South – North</b>	<b>2</b> Feb – 18,22	3	18
<b>North - South</b>	<b>4</b> Feb – 5,25,28,29	N/A	12

# Significant System Incidents in February 2008

- **February 19<sup>th</sup>**
  - Loss of five 345 kV lines, two 138 kV lines and nine units totaling 517 MW in the West due to a relay coordination timing issue.
- **February 28<sup>th</sup>**
  - Loss of three 345 kV lines and one 138 kV line in the West due to a breaker failure on the tertiary bus of Abilene Mulberry Creek's East transformer.



- **Advisories issued for Adjusted Responsive Reserve (ARR) below 3000 MW.**
  - Issued 16 Days.
- **Alerts issued for ARR below 2500 MW.**
  - None. EECF alert issued February 26.
- **Transmission Alerts:**
  - Transmission Emergency for the Presidio area due to a 69 KV forced outage. Block load transfer initiated from ERCOT to CFE.
- **EECF**
  - EECF Step 2 implemented 2/26 at 18:41 to 21:40.

- **Follow-up actions from February 26 EECP:**
  - Have manually integrated wind generation forecast into unit commitment (RPRS and OOMC) studies
  - Meeting April 10 with SPP and AEP to clarify and improve process for arranging emergency schedules over the North and East DC ties
  - Including lessons learned in system operator training
    - Integration and monitoring of wind generation forecast into operations
    - More efficient process for arranging emergency schedules over DC ties
    - Improve operator communication during EECP events
  - Working with TAC and its Subcommittees on wind integration and changes that may be needed to Ancillary Service procurement