



Grid Operations and Planning Report

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ERCOT Board of Directors
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Summary

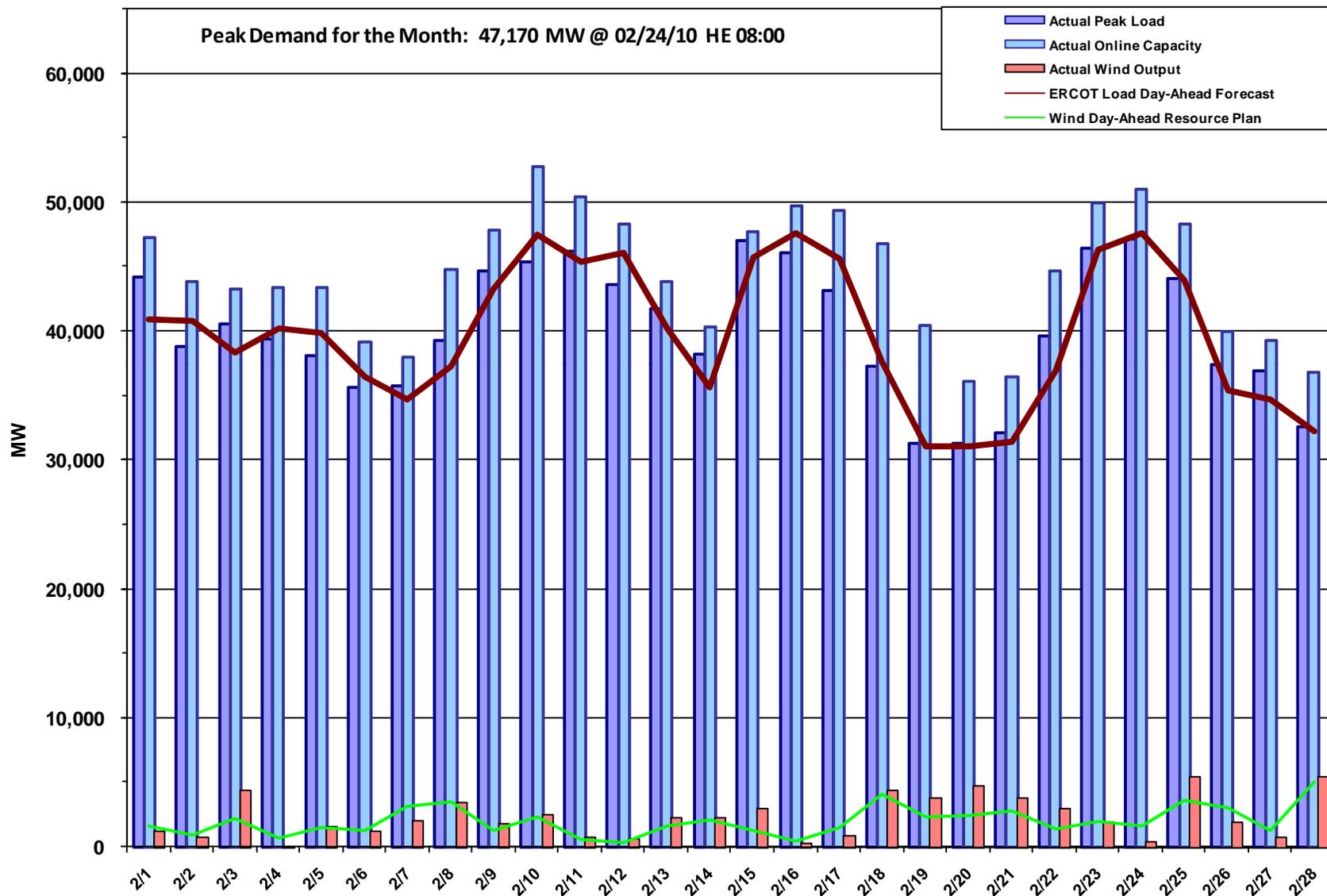
- **February 2010 Operations**

- The peak demand of 47,170 MW on February 24th was less than the long term forecast peak of 47,668 MW but more than the February 2009 actual peak demand of 42,228 MW.
- Day-ahead load forecast error for February was 3.79%.
- Advisories for Adjusted Responsive Reserve (ARR) below 3000 MW issued 9 days
- No Watches for ARR under 2500 MW
- No Energy Emergency Alert (EEA) events
- No Transmission Watches issued

- **219 active generation interconnect requests totaling over 73,000 MW as of February 28, 2010. No change from January 31, 2010**

- **8,916 MW wind capacity on line February 28, 2010. No increase from January.**

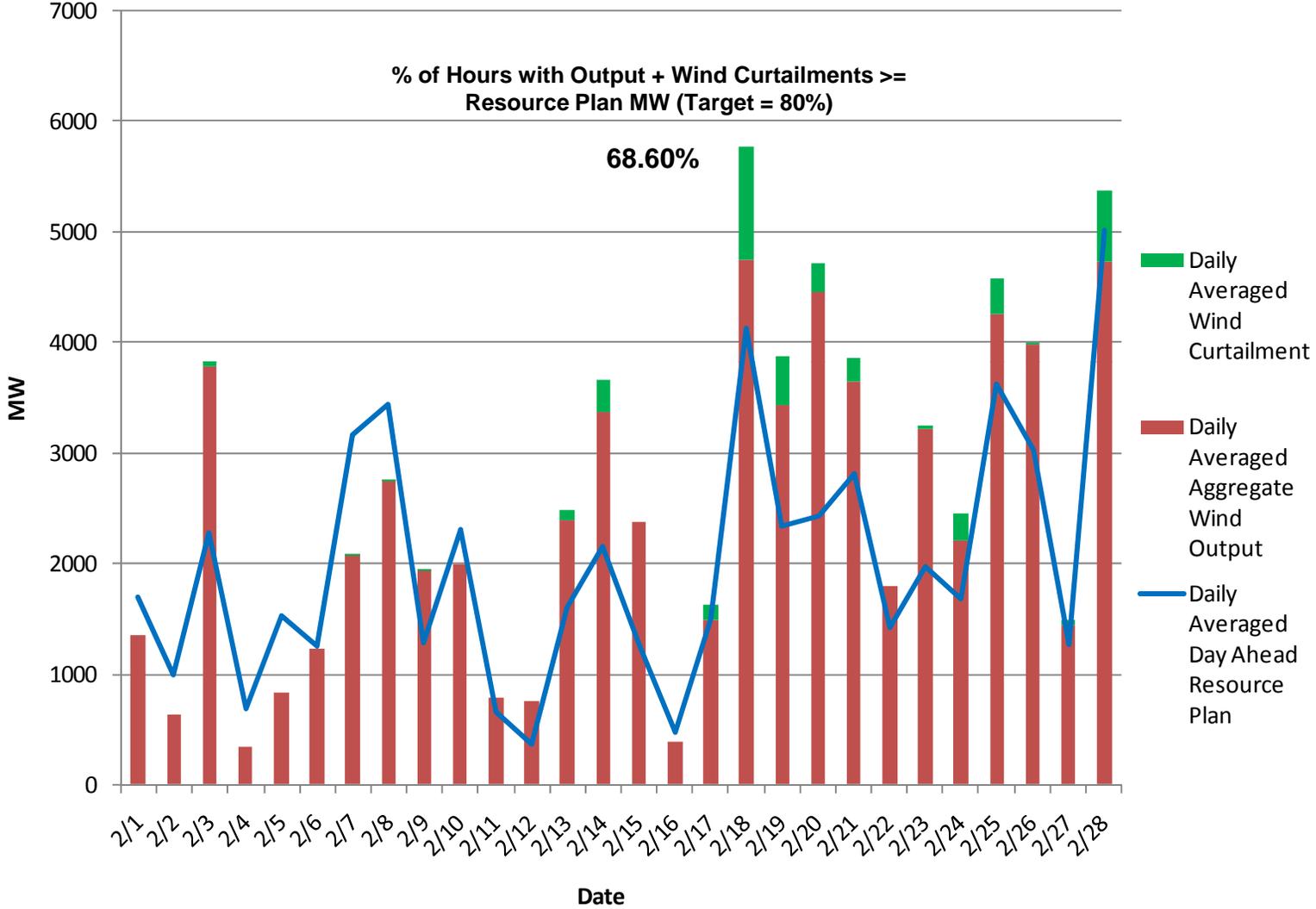
February 2010 Daily Peak Demand: Hourly Average Actual vs. Forecast, Resource Plan & On-line Capacity at Peak



Note: All data are hourly averages during the peak load hour obtained from Resource Plans, and EMMS.



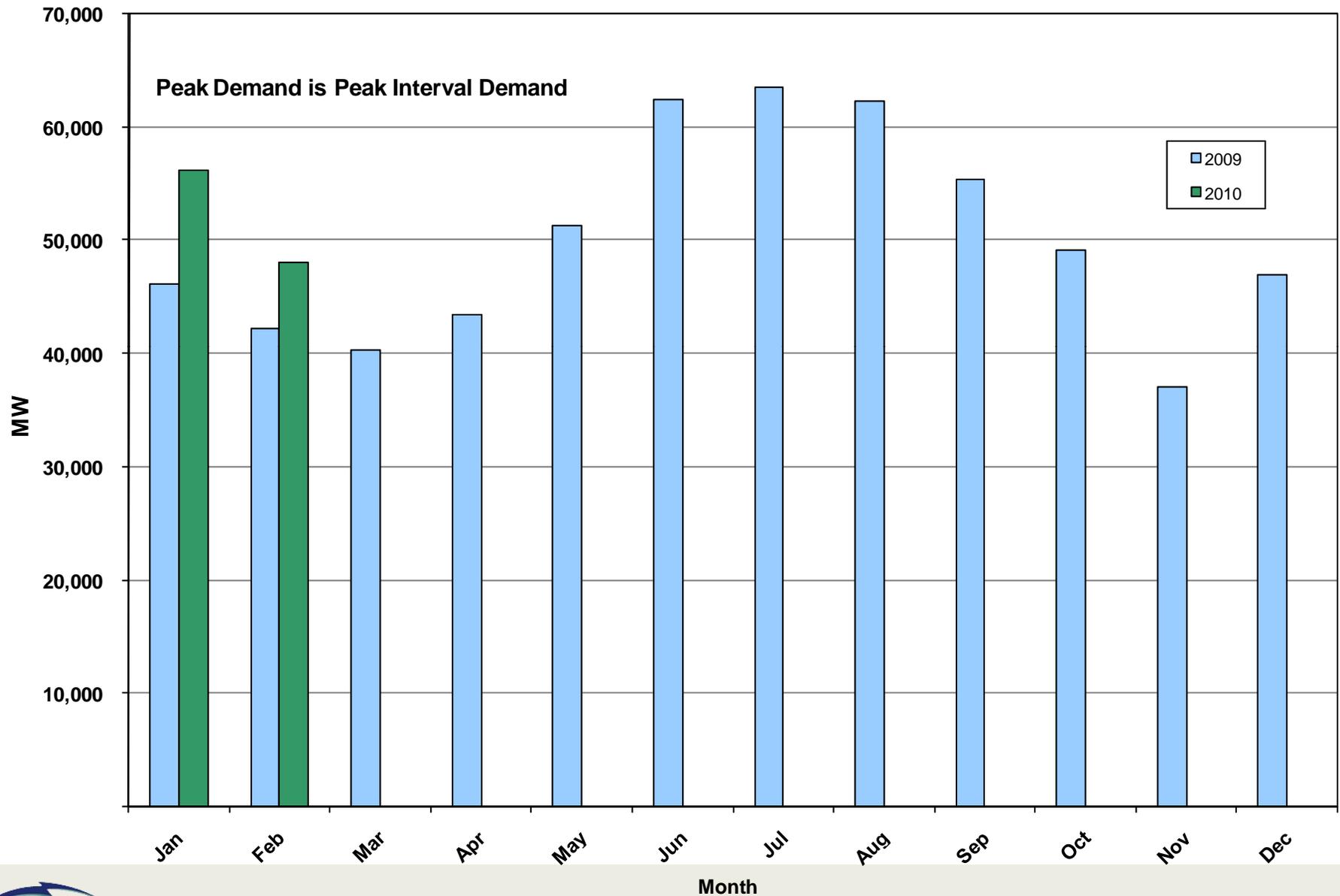
February 2010: Actual Wind Output w/ Curtailment Added Back Vs Wind Day-Ahead Resource Plan Based on AWS Forecast for All Hours



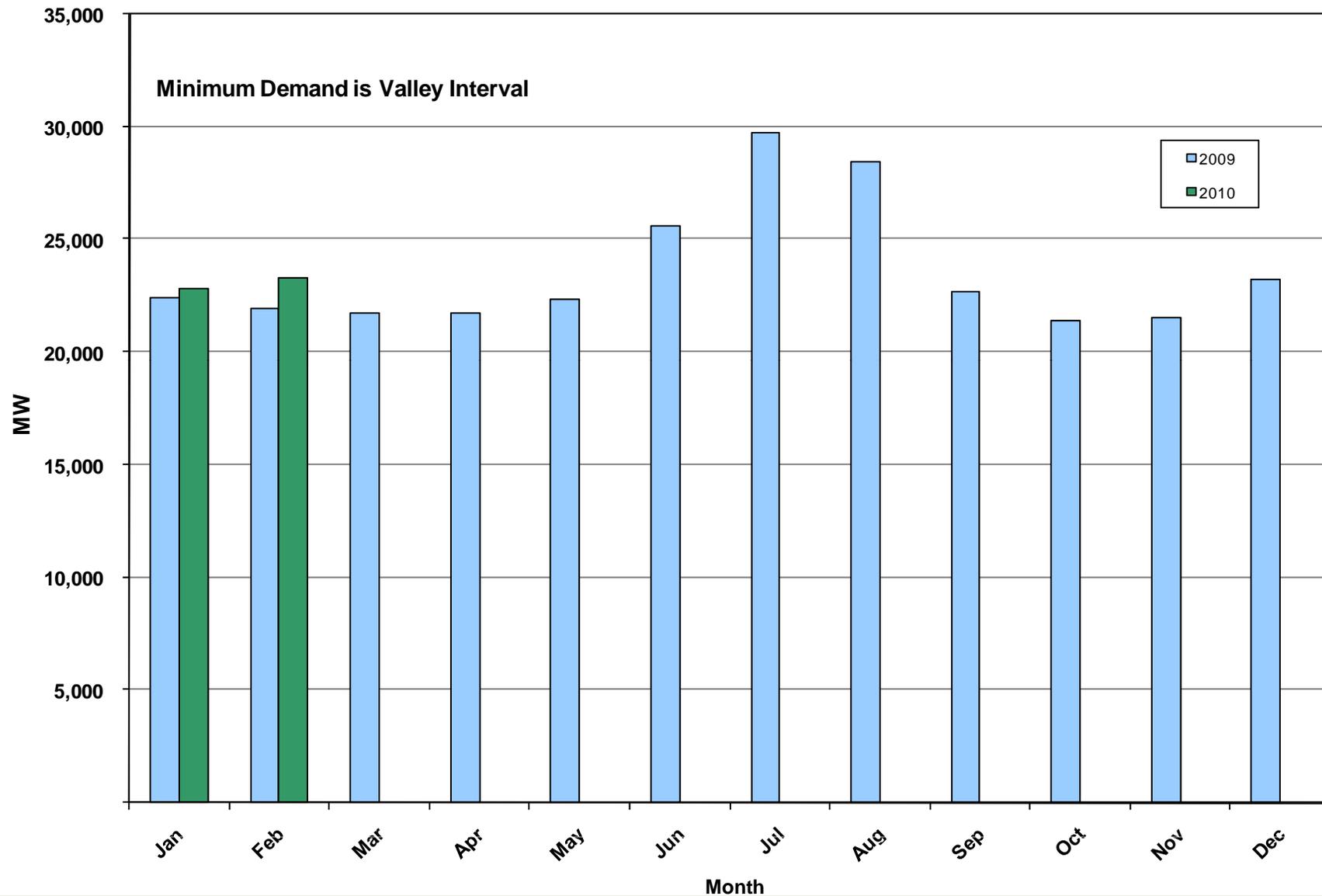
Note: QSEs must use AWST 80% probability of exceedence forecast for Day-Ahead Resource Plans

23 March 2010

February 2010: Monthly Peak Demand: Actual



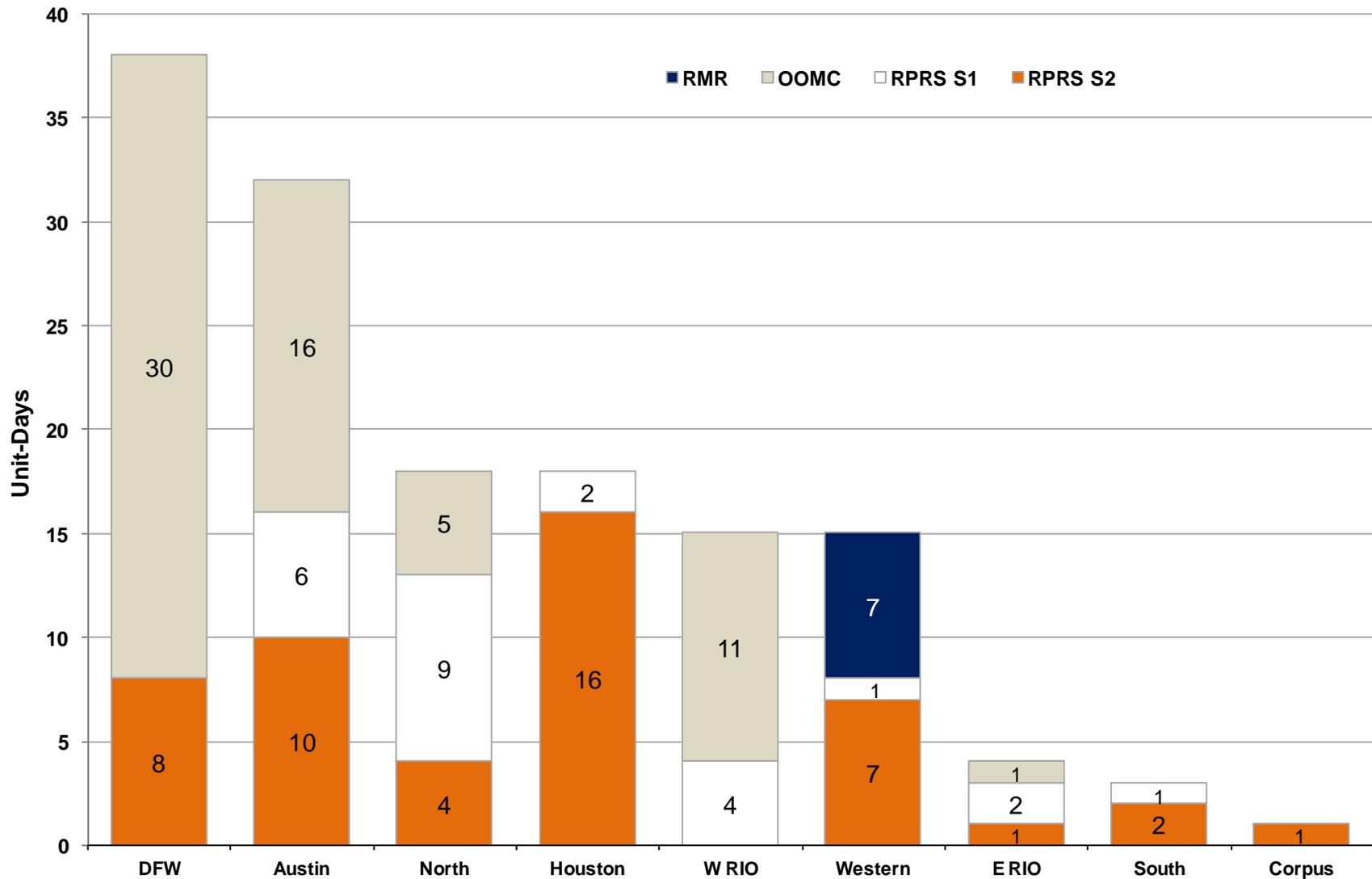
February 2010: Monthly Minimum Demand: Actual



Day-Ahead Load Forecast Performance in February 2010

	Mean Absolute Percent Error (MAPE) for ERCOT Mid-Term Load Forecast (MTLF) Run at 16:00 Day Ahead				
	2007 MAPE	2008 MAPE	2009 MAPE	2010 MAPE (YTD)	February 2010 MAPE
Average Annual MAPE	3.55	3.30	3.11	3.78	3.79

Capacity Purchases of RMR, OOMC & RPRS to Manage Local Congestion in February 2010



Zonal Congestion

CSC	Feb 09 Days	Dec 09 Days	Jan 10 Days	Feb 10 Days	Last 12 Months Total Days (Feb 09 – Feb 10)
North – Houston	0	0	1	0	52
North – West	1	0	0	0	3
West – North	14	9	13	12 Feb– 3, 14, 17-21, 24-28	145
South – North	0	3	0	0	9
North - South	0	1	1	0	38

Significant System Incidents in February 2010

- **February 25th**
 - Lost connection to Market Operations Interface (MOI) servers. Held IE 22:00 balancing energy deployment and resumed with IE 23:15 deployment.

Advisories and Watches in February 2010

- **Advisories issued for Adjusted Responsive Reserve (ARR) below 3000 MW.**
 - Issued 9 Days.
- **Watches issued for Adjusted Responsive Reserve (ARR) below 2500 MW.**
 - None
- **Transmission Watches**
 - None
- **No EEA's in February 2010**

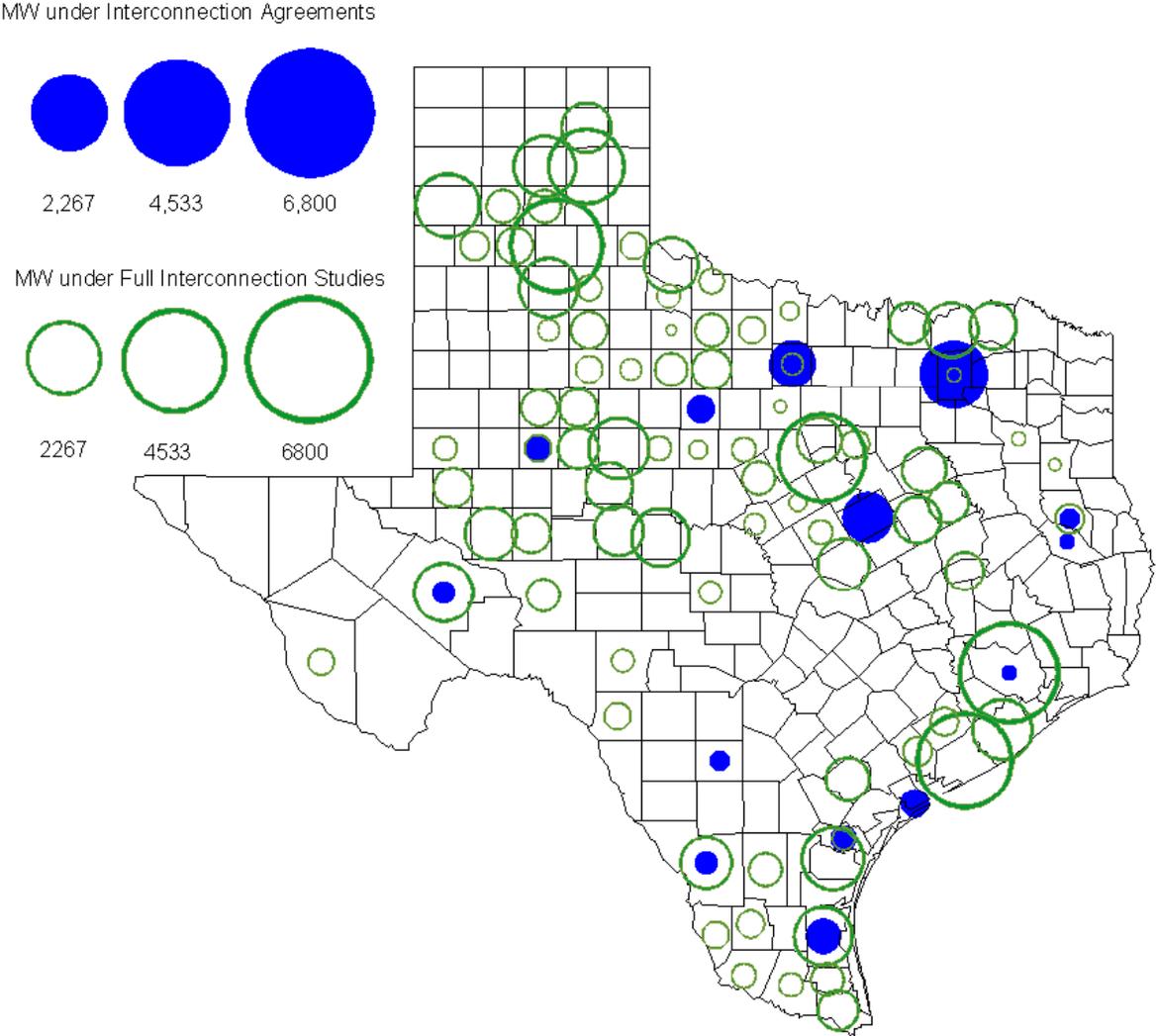
Other Items

- **February 3rd**
 - Held Real-Time Balancing Market for interval ending 12:45 due to operator not able to enter offset value. Resumed with interval ending 13:15 deployments.
- **February 18th**
 - Held Real-Time Balancing Market for interval ending 03:00 due to incorrect offset value entered. Resumed with interval ending 03:15 deployments.
- **February 28th**
 - Wind generation hit new peak of 6,242 MW, 22% of demand at the time.

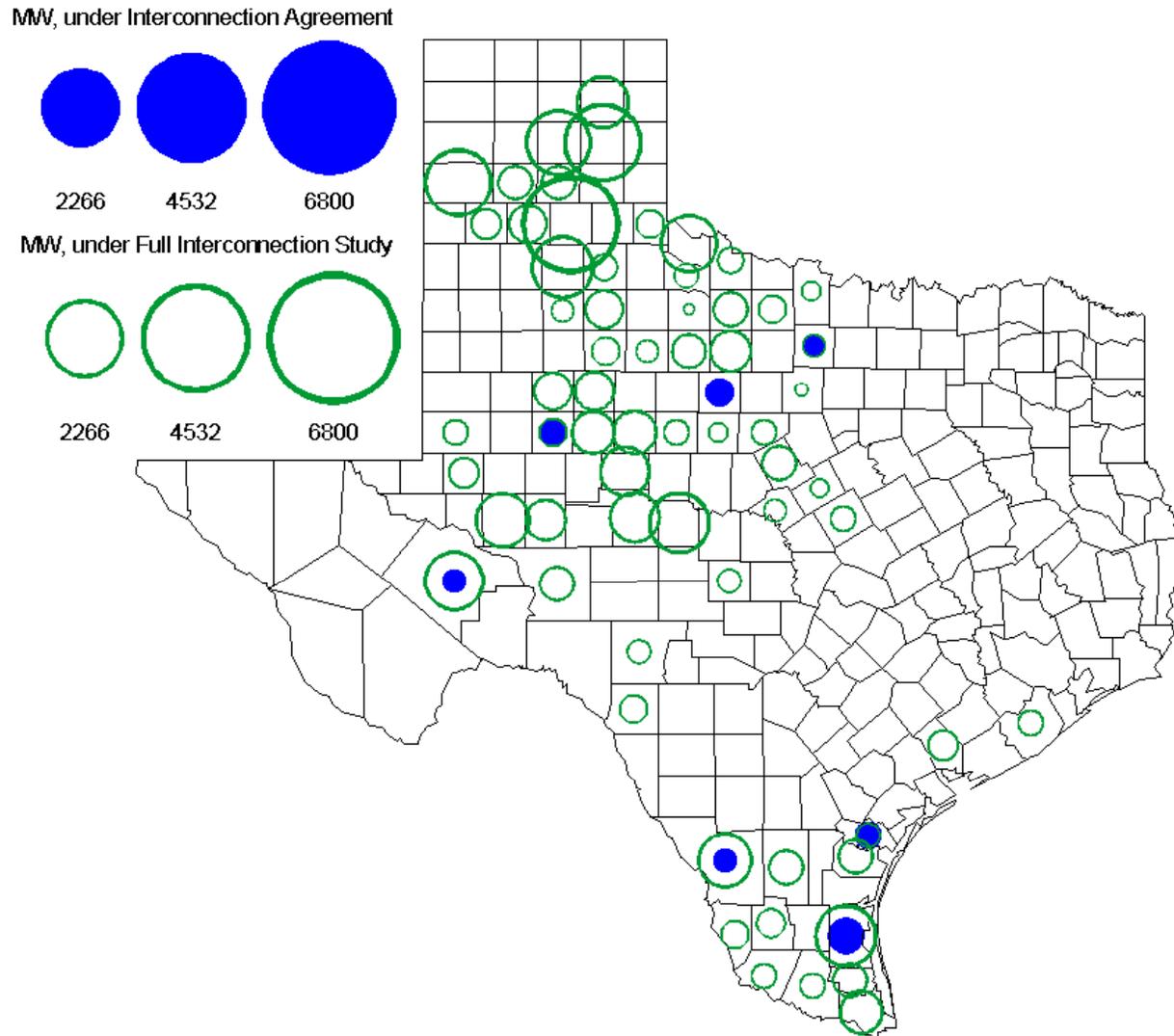
Planning Summary

- **ERCOT is currently tracking 219 active generation interconnection requests totaling over 73,000 MW. This includes over 45,000 MW of wind generation.**
- **Regional Planning is currently reviewing proposed transmission improvements with a total of \$798.0 Million**
- **Transmission Projects approved in 2009 total \$405.1 Million**
- **All projects (in engineering, routing, licensing and construction) total approximately \$9.5 Billion**
- **Transmission Projects energized in 2009 total about \$538.6 million**

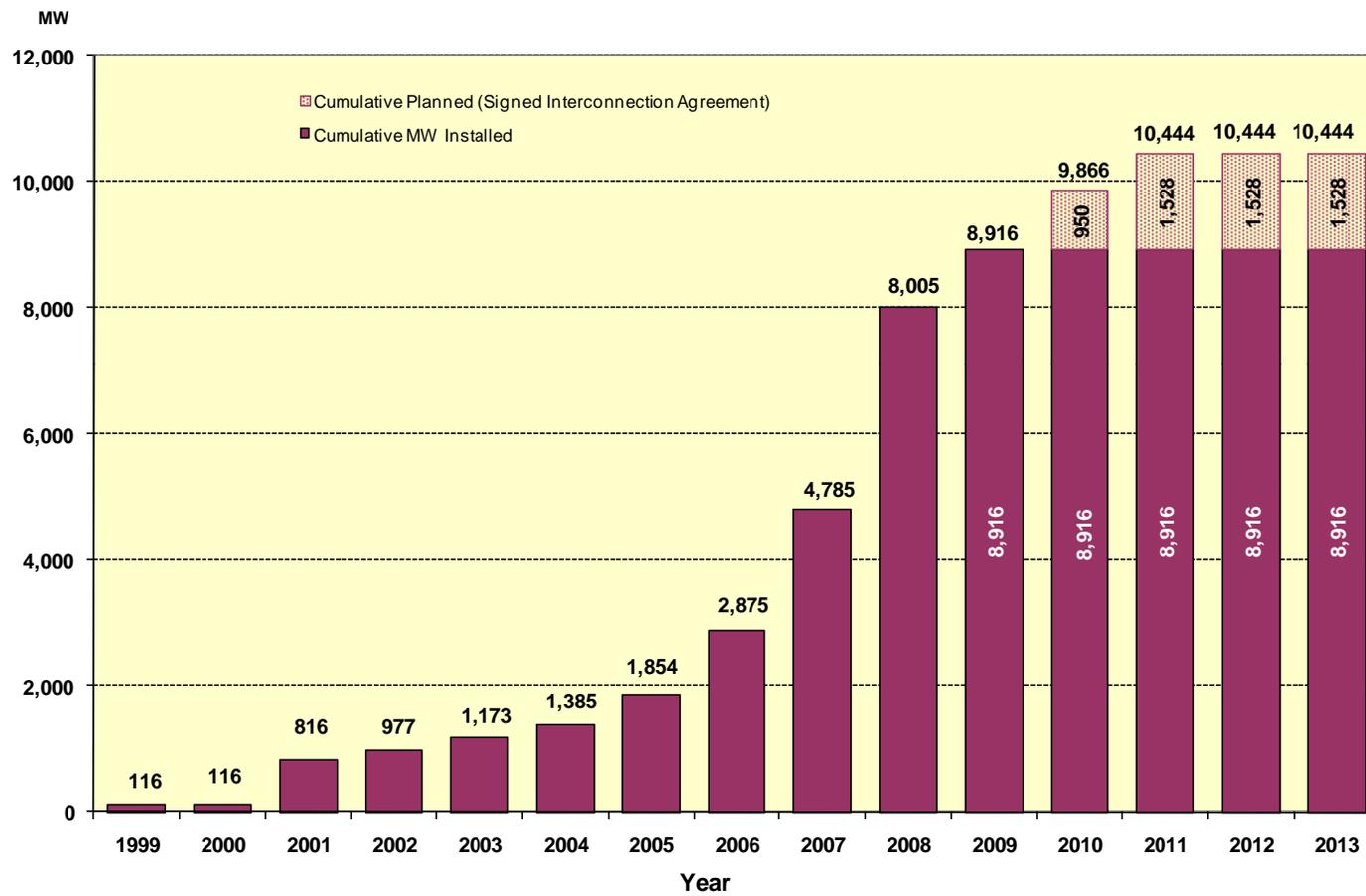
County Location of Planned Generation with Interconnection Requests (all fuels) February 2010



County Location of Planned Generation with Interconnection Requests (Wind) February 2010

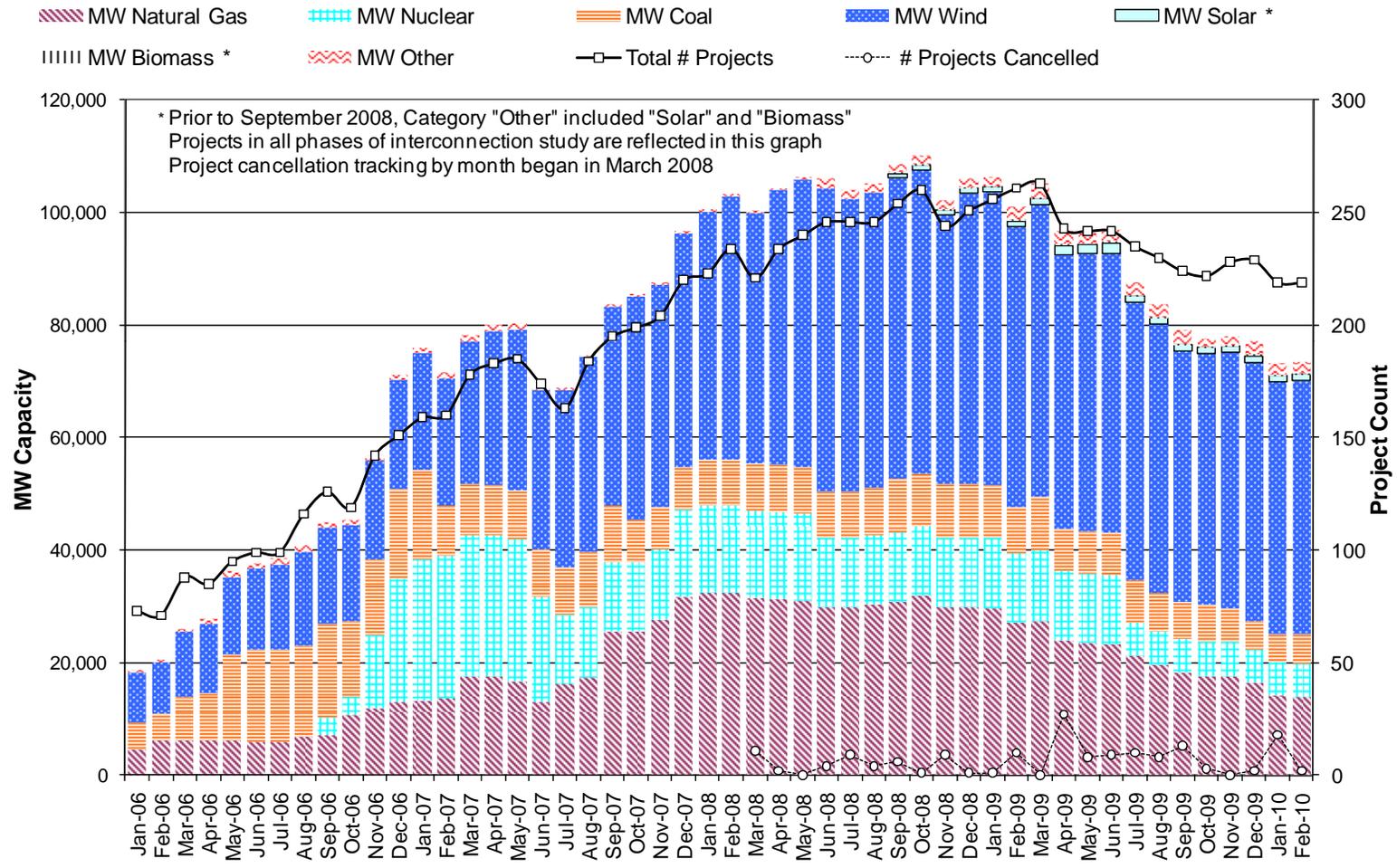


Wind Generation



as of February 28, 2010

Generation Interconnection Activity by Fuel



Generation Interconnection Activity by Project Phase

