

OE ENERGY MARKET SNAPSHOT

Mid-Atlantic States Version – August 2011 Data

- **Southwest Outages and Curtailments Report**
- **Weather**
- **Electricity Markets**
- **Natural Gas and Fuel Markets**

Office of Enforcement
Federal Energy Regulatory Commission
September 2011

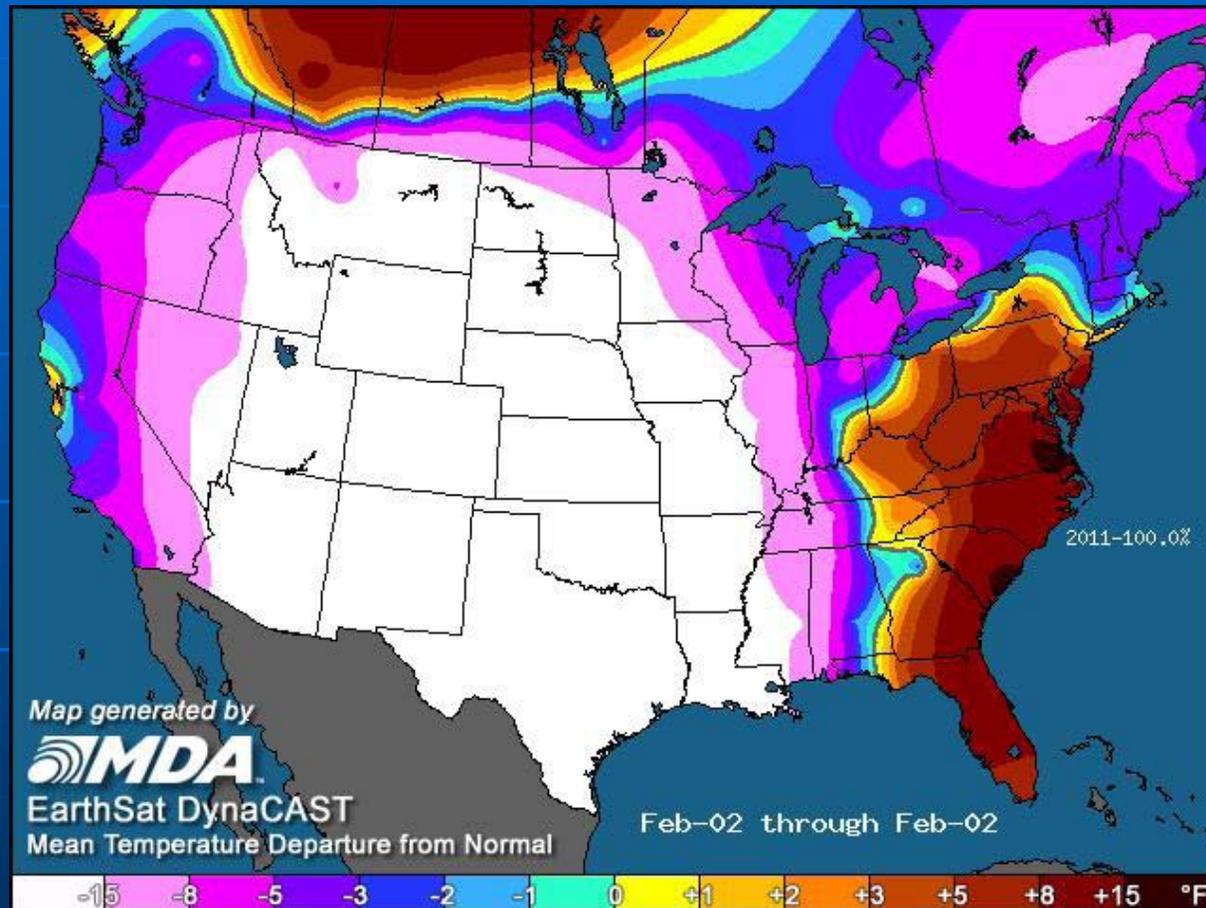


Outages and Curtailments Southwest Cold Weather Event February 1-5

Item No: A-4

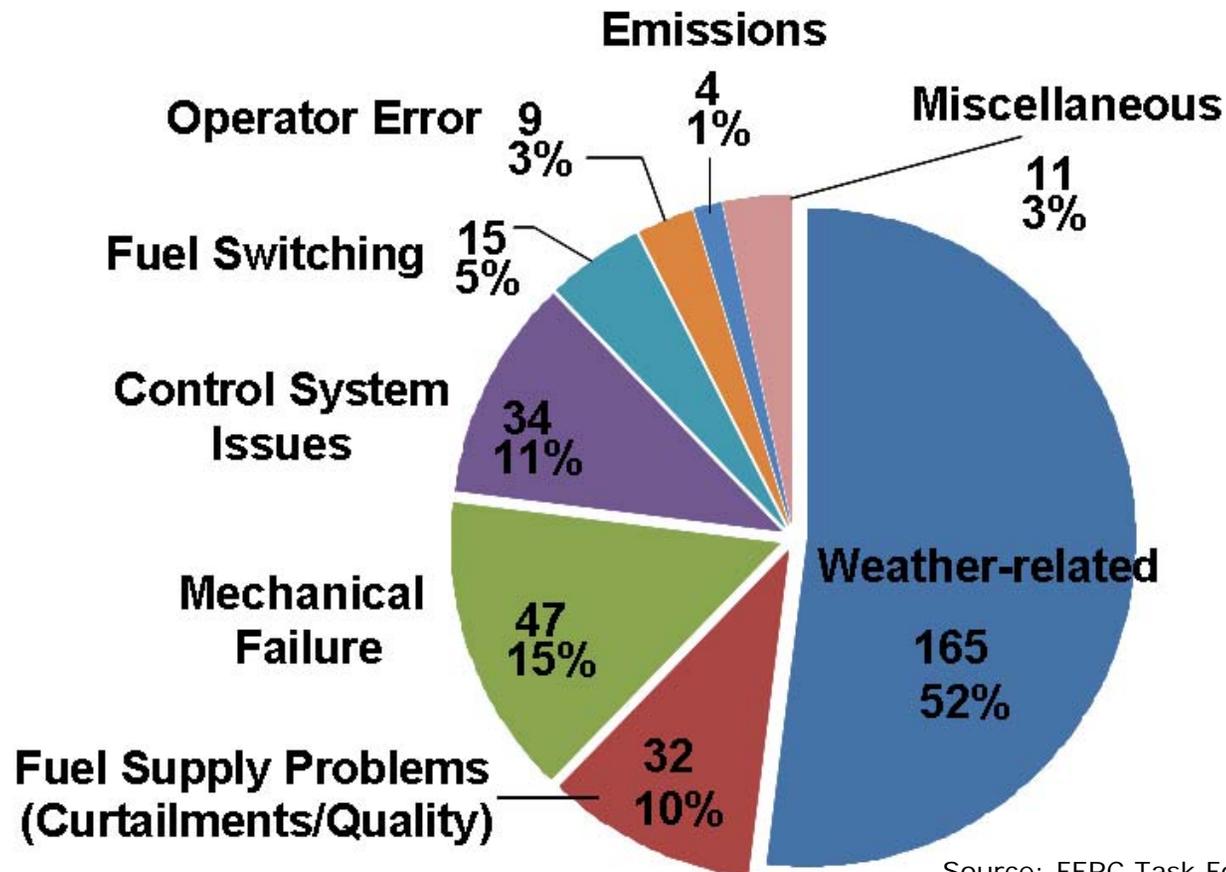
September 15, 2011

Widespread Low Temperatures Feb. 2, 2011

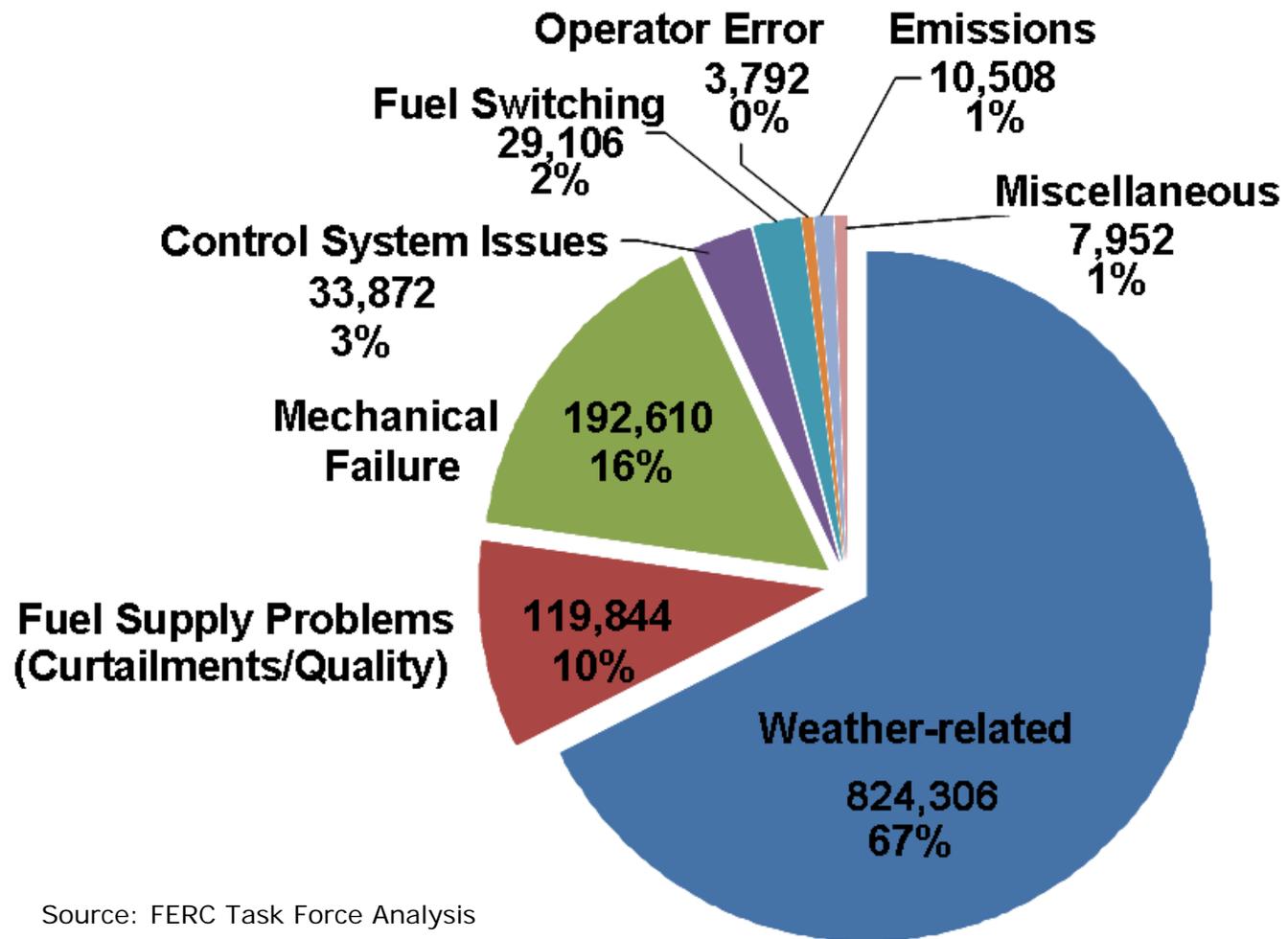


Source: MDA EarthSat

SW Units Tripped, Derated, Failed, on Feb 1-5

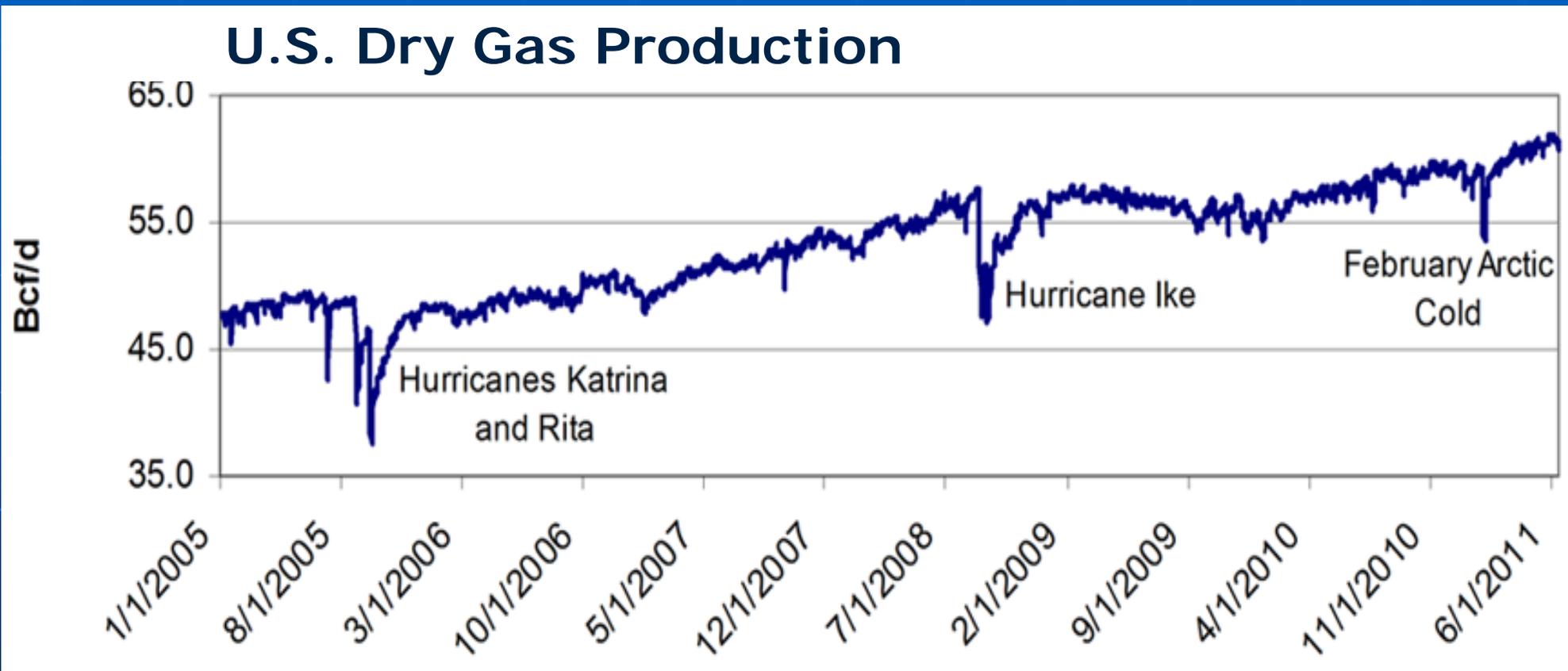


SW Mwh of Generation Unavailable on Feb 1-5



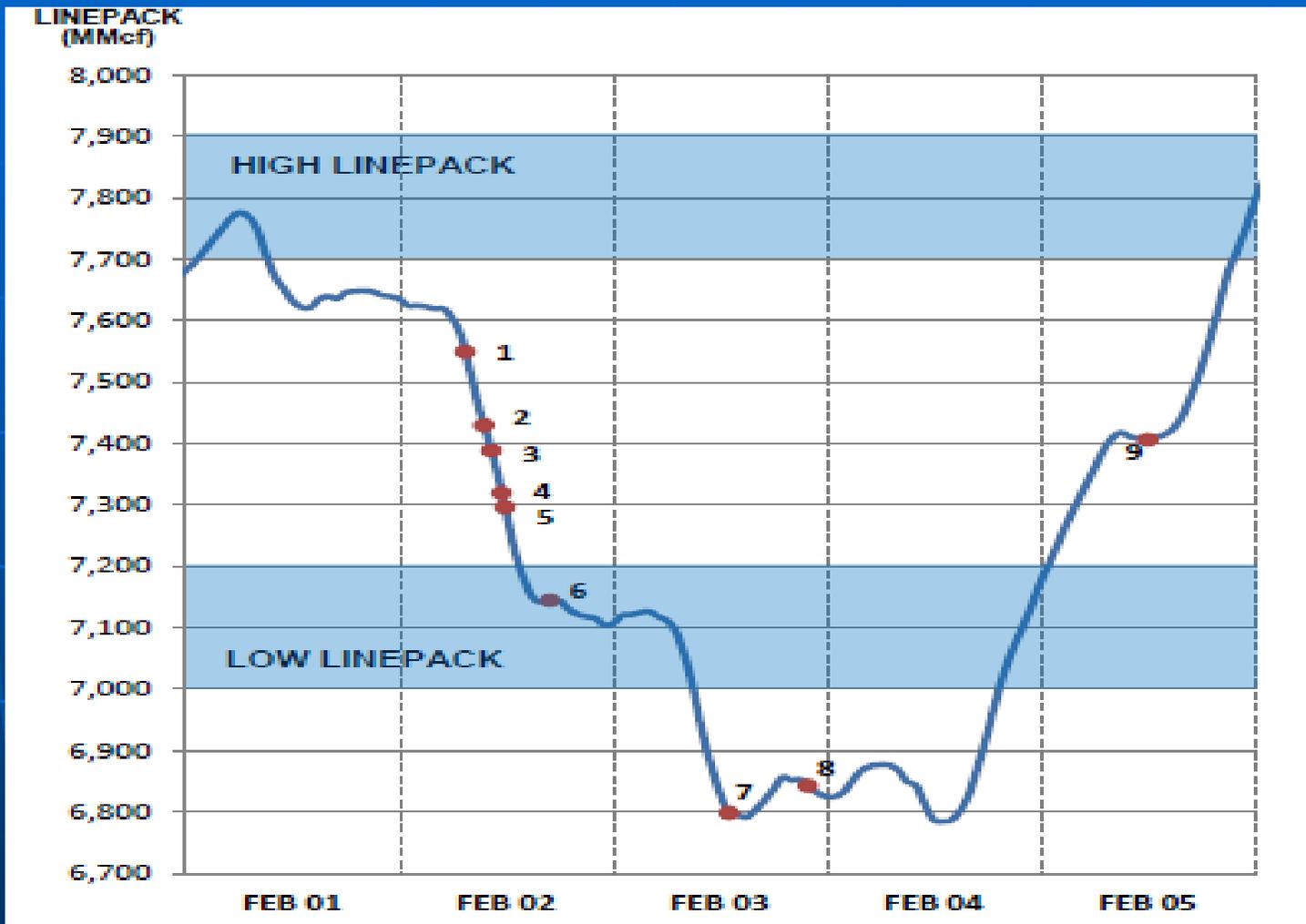
Source: FERC Task Force Analysis

Supply Reductions



Source: FERC Task Force Analysis from Bentek data.

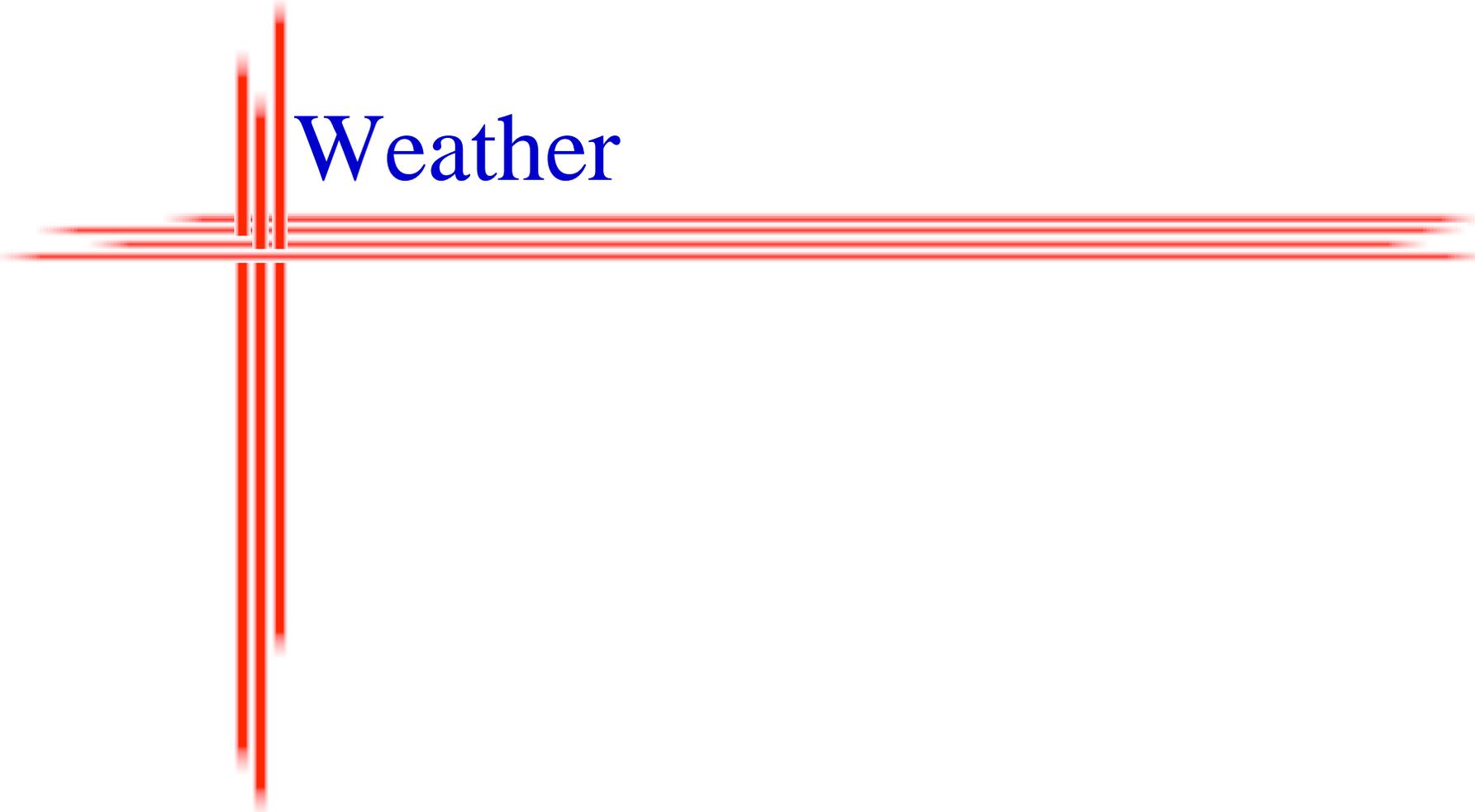
Pipeline Line Pack



Source: El Paso
Natural Gas Company

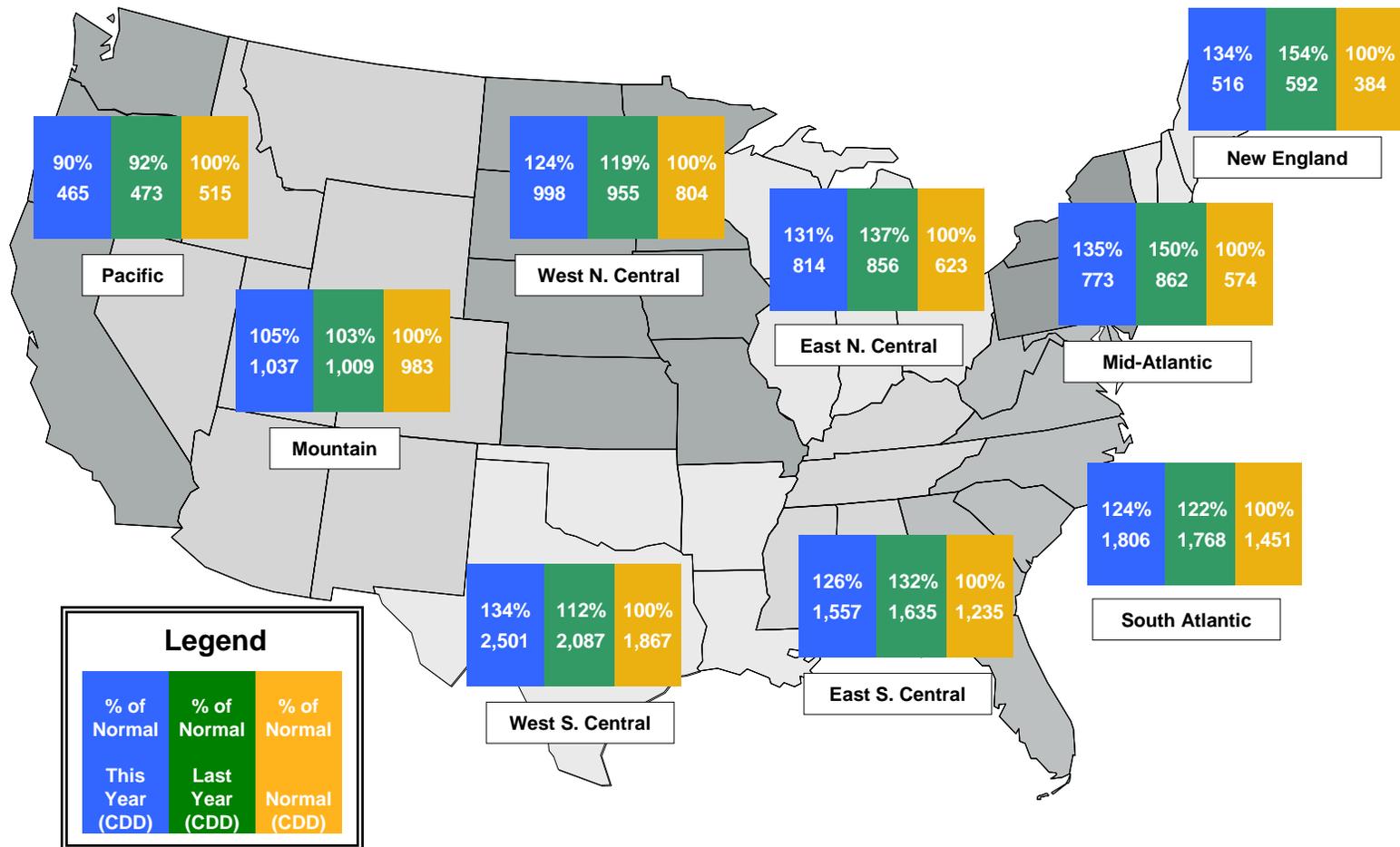
**Report on Outages and Curtailments
During the Southwest
Cold Weather Event
Of February 1-5, 2011**

<http://www.ferc.gov/legal/staff-reports/08-16-11-report.pdf>



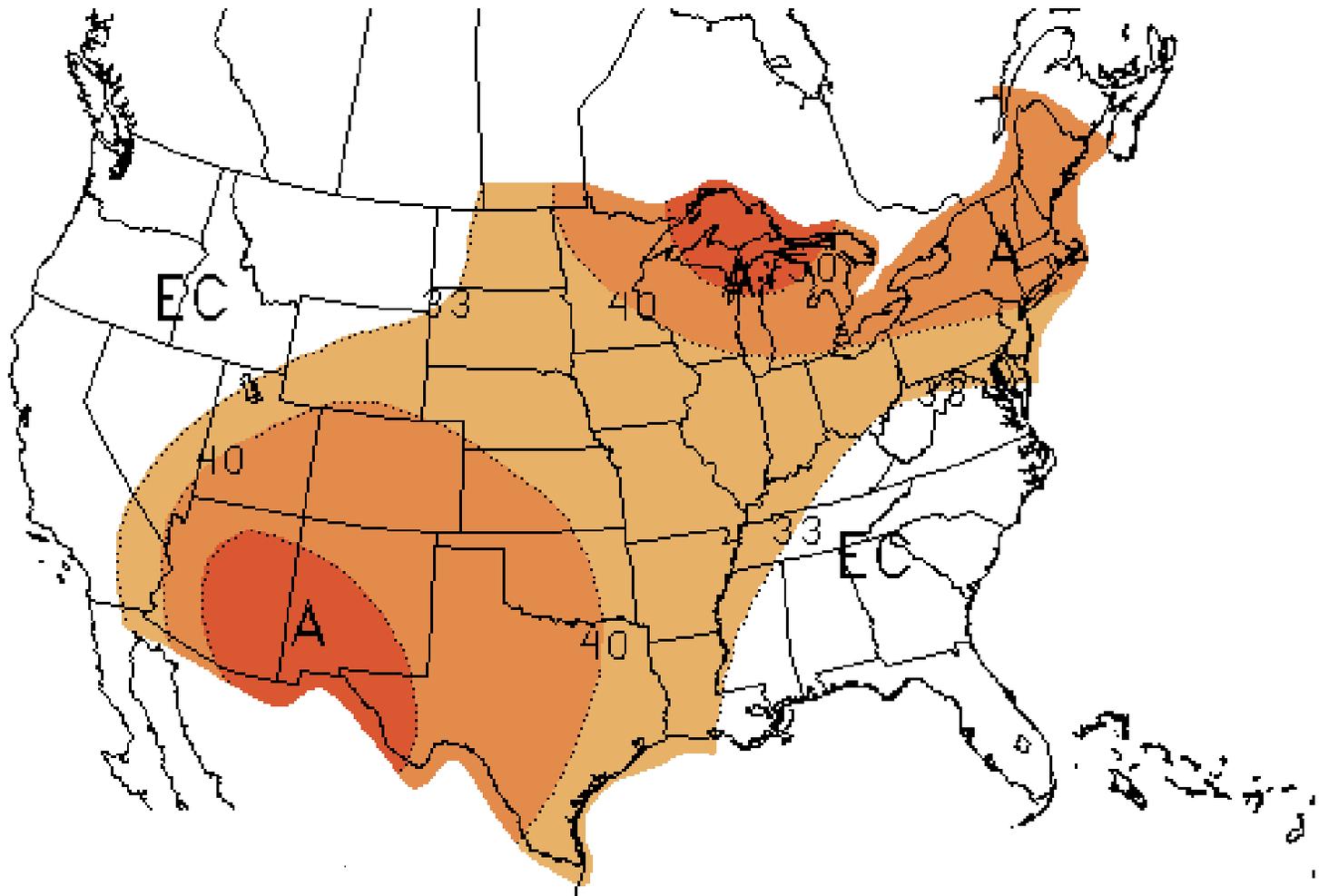
Weather

Regional Cooling Degree Days – January Through August 2011



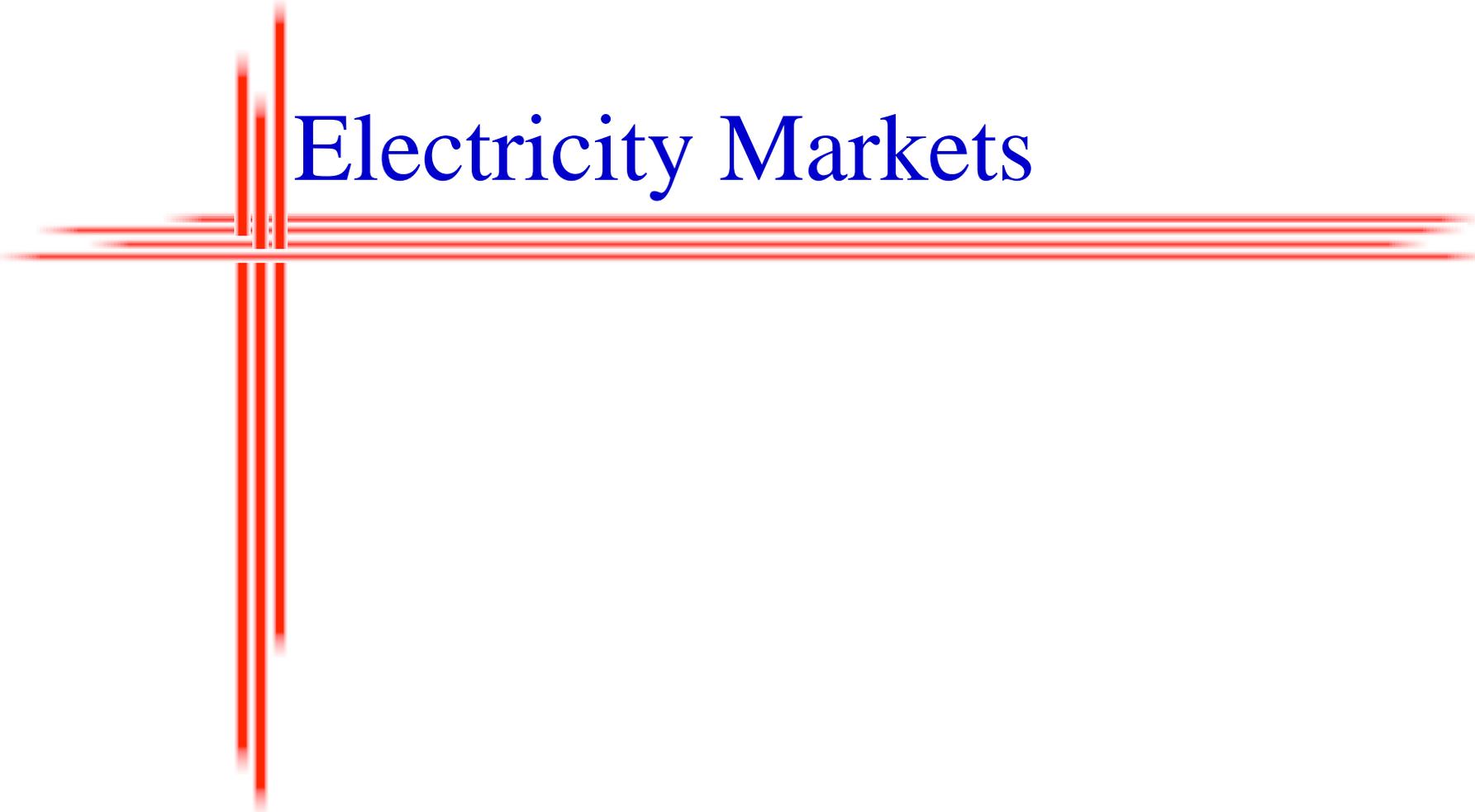
Source: Derived from NOAA data. Normal is based on a 30-year average of cooling degree day data.

NOAA's 3 Month Temperature Forecast Made August 18, 2011, Valid for Sep – Nov 2011



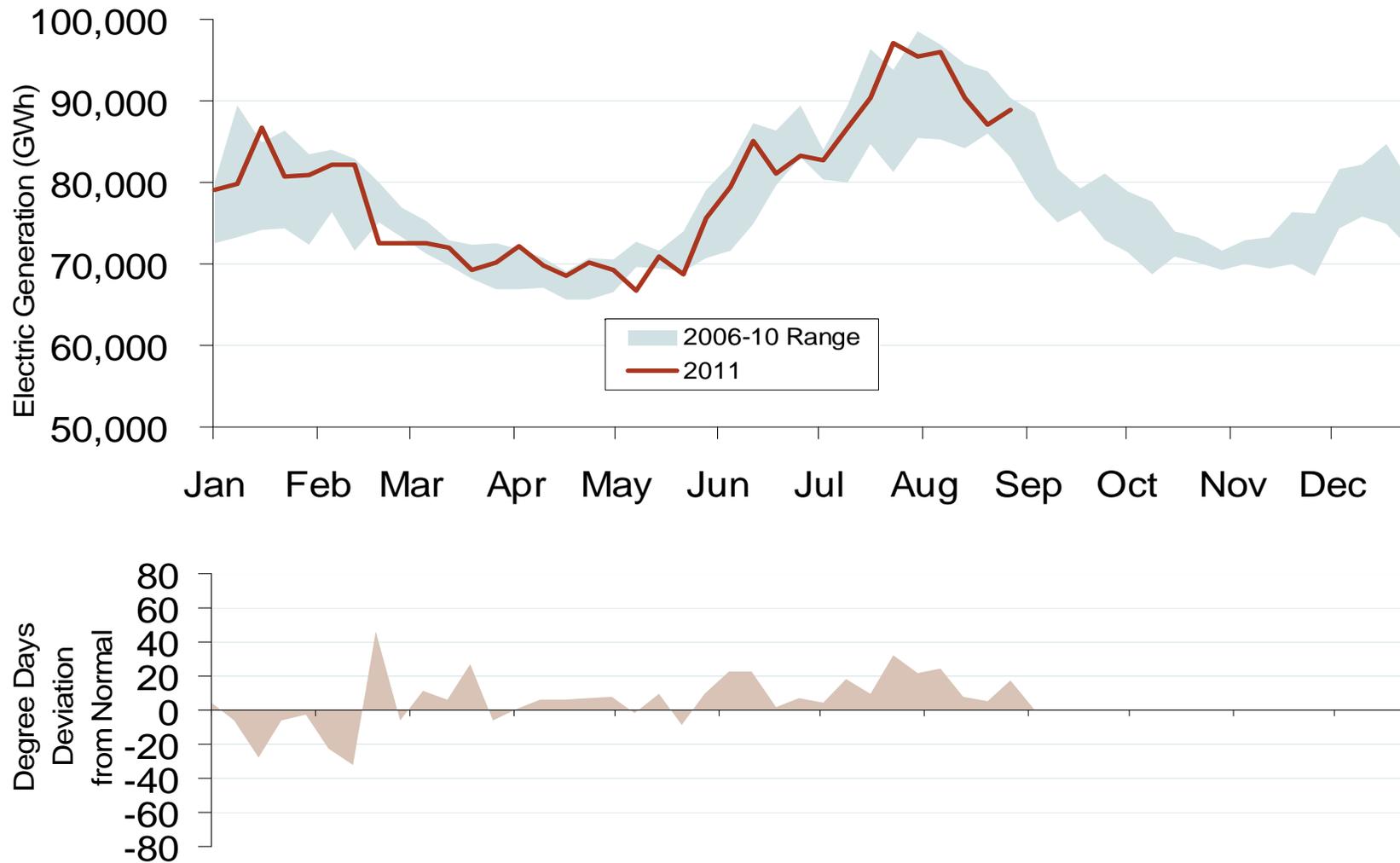
Note: "A" areas are above normal, "B" areas are below normal and "EC" means equal chance. Normal is based on the last 30 years of data.
Source: Derived from NOAA data.

Updated September 2, 2011

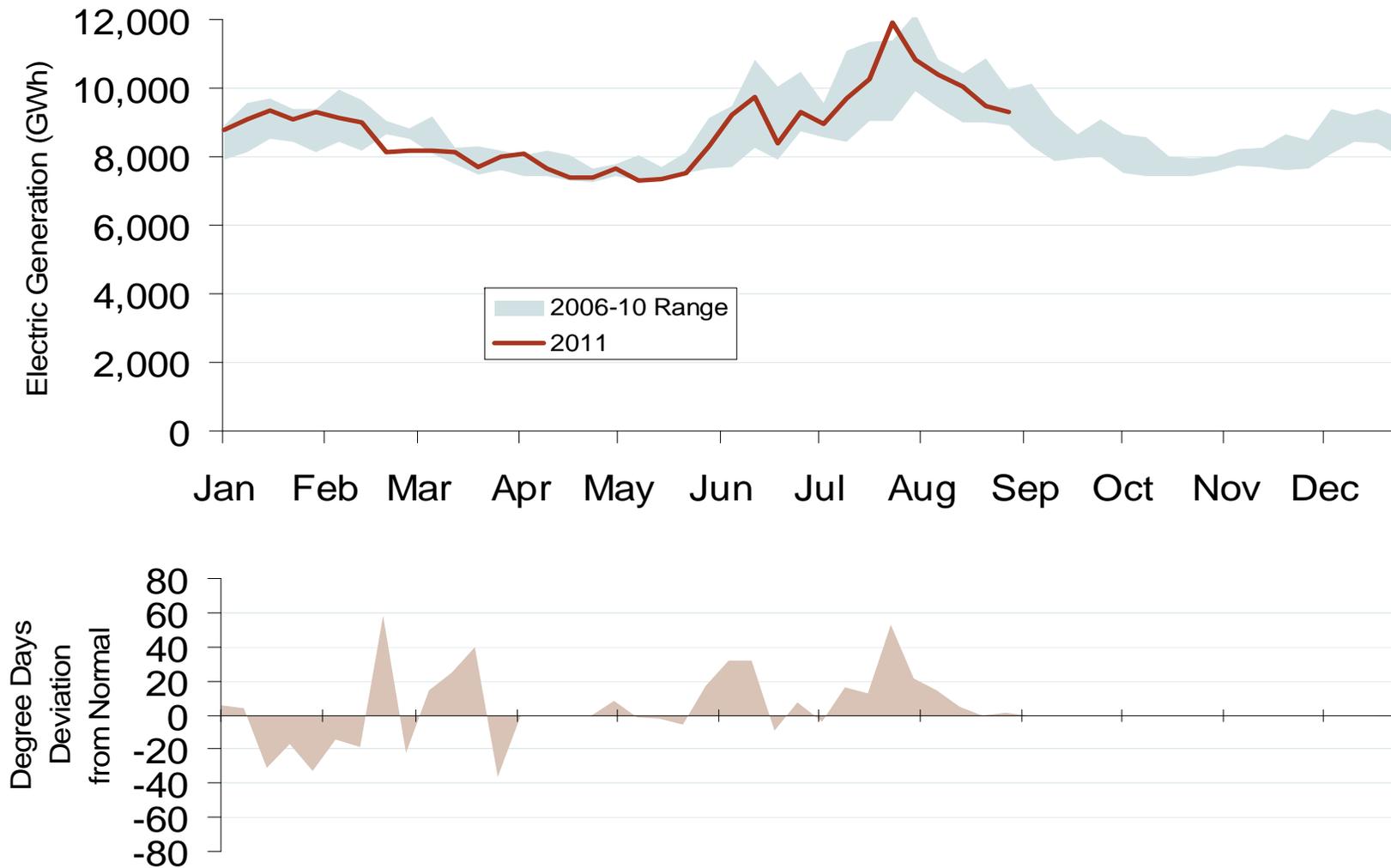


Electricity Markets

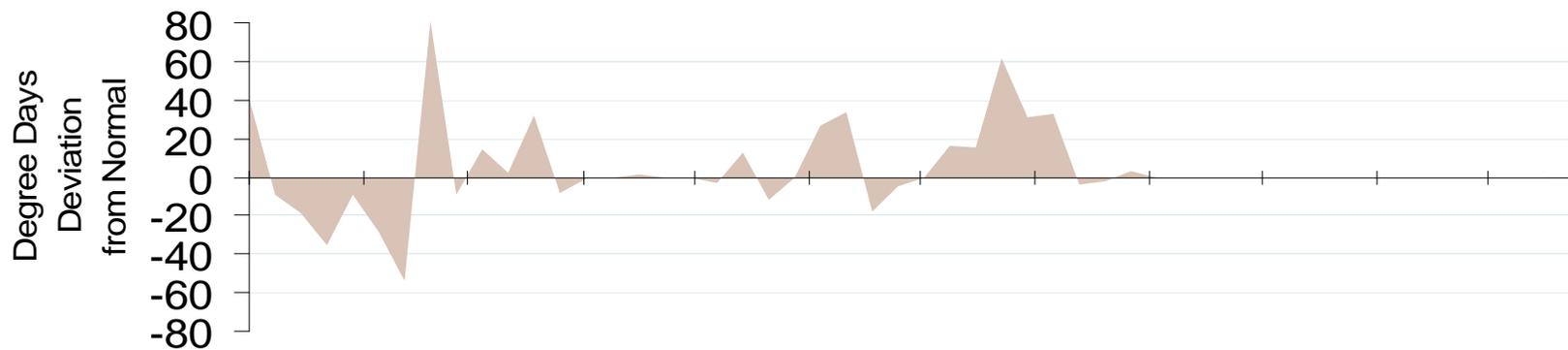
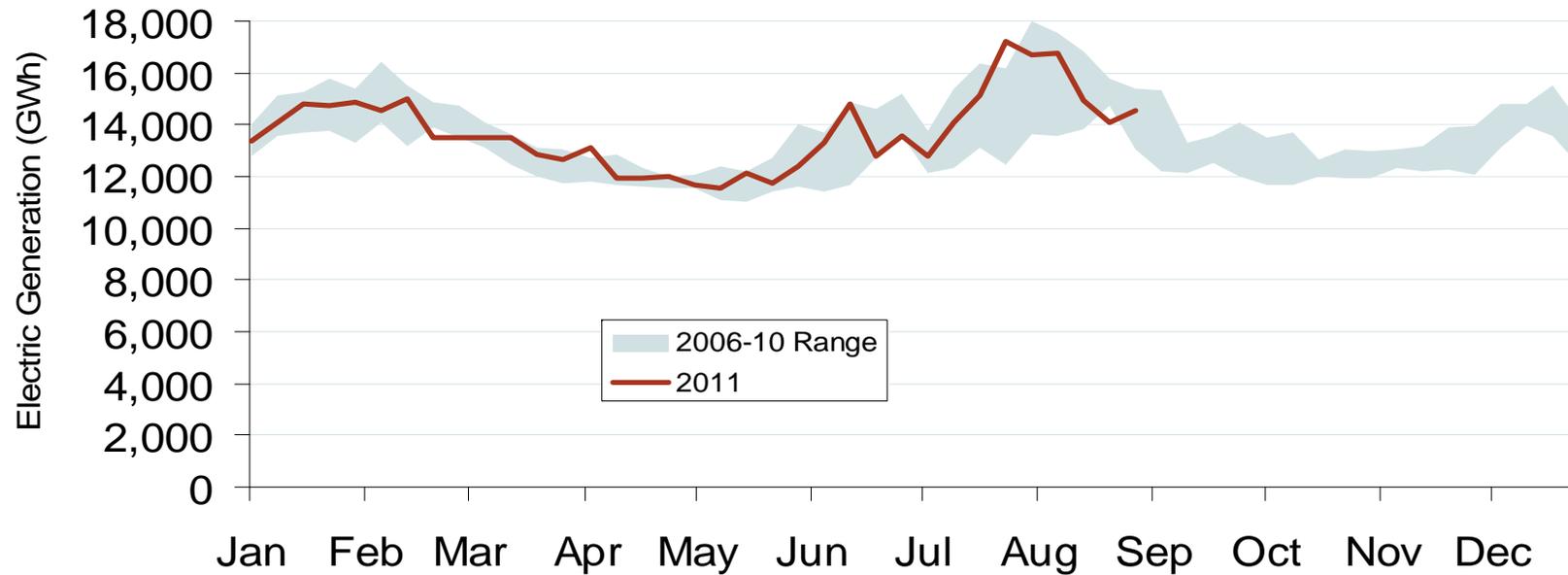
Weekly U.S. Electric Generation Output and Temperatures



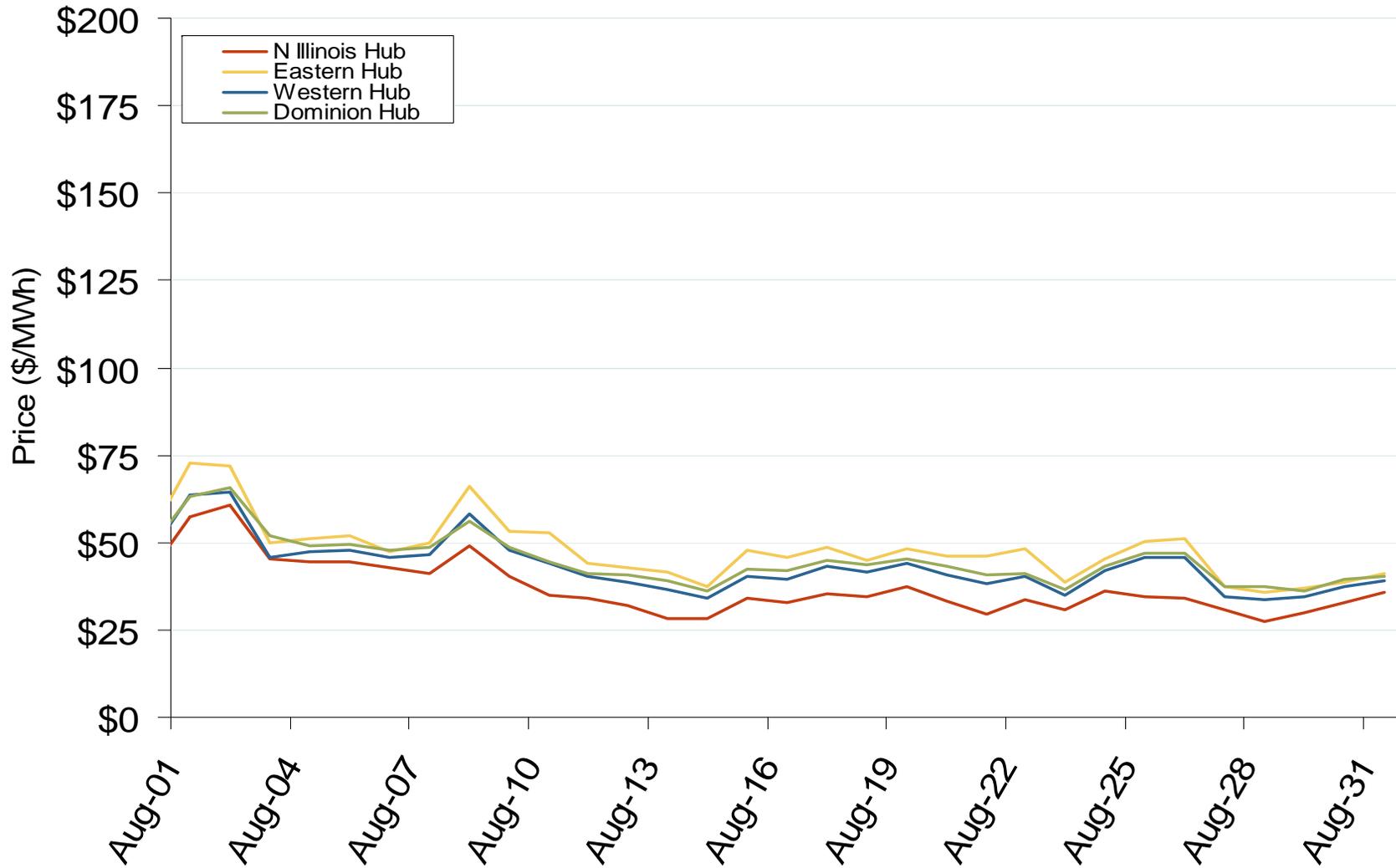
Weekly Power Generation & Temps. - Mid Atlantic



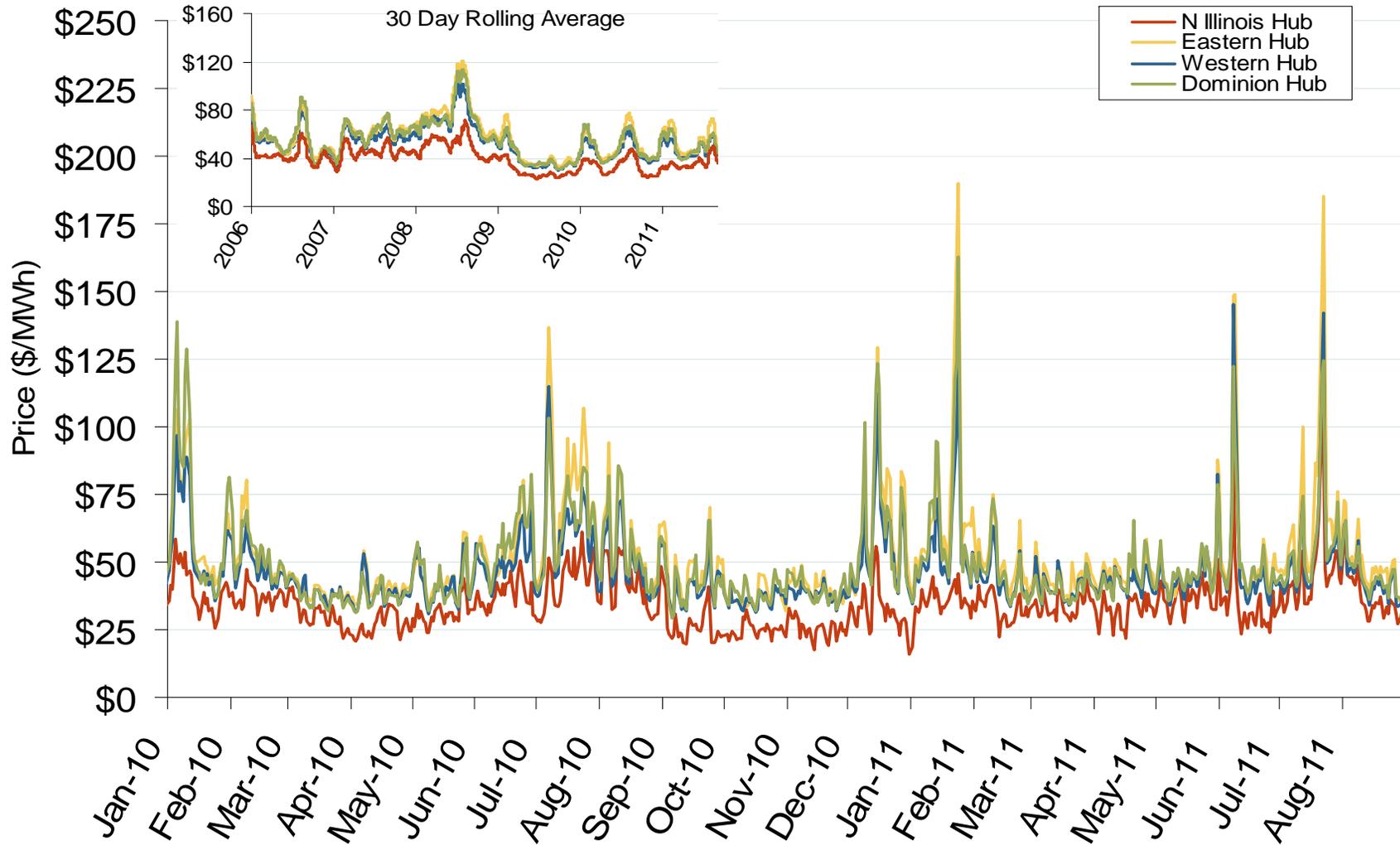
Weekly Power Generation & Temps. - Central Industrial Region



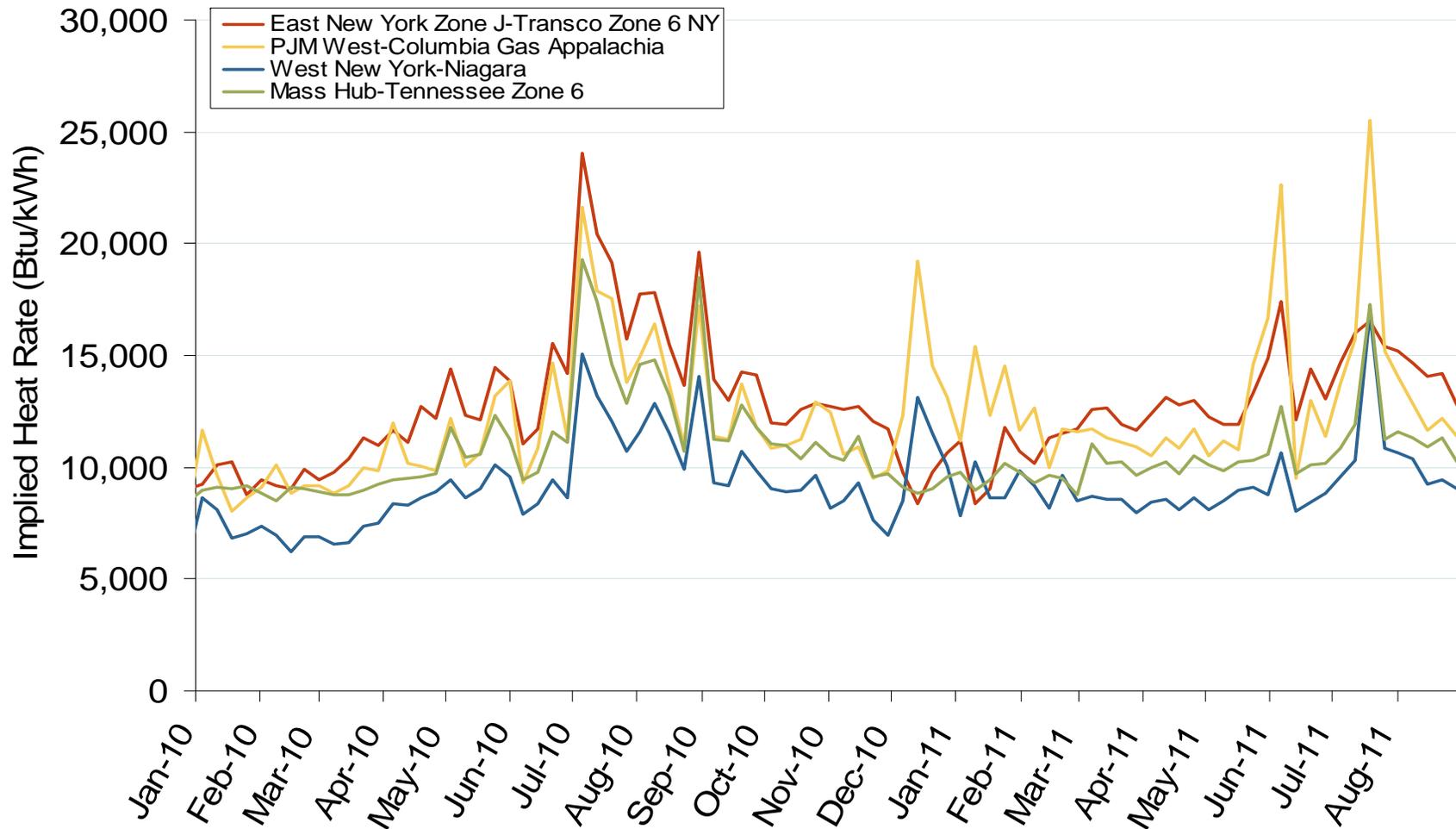
Daily Average of PJM Day-Ahead Prices - All Hours



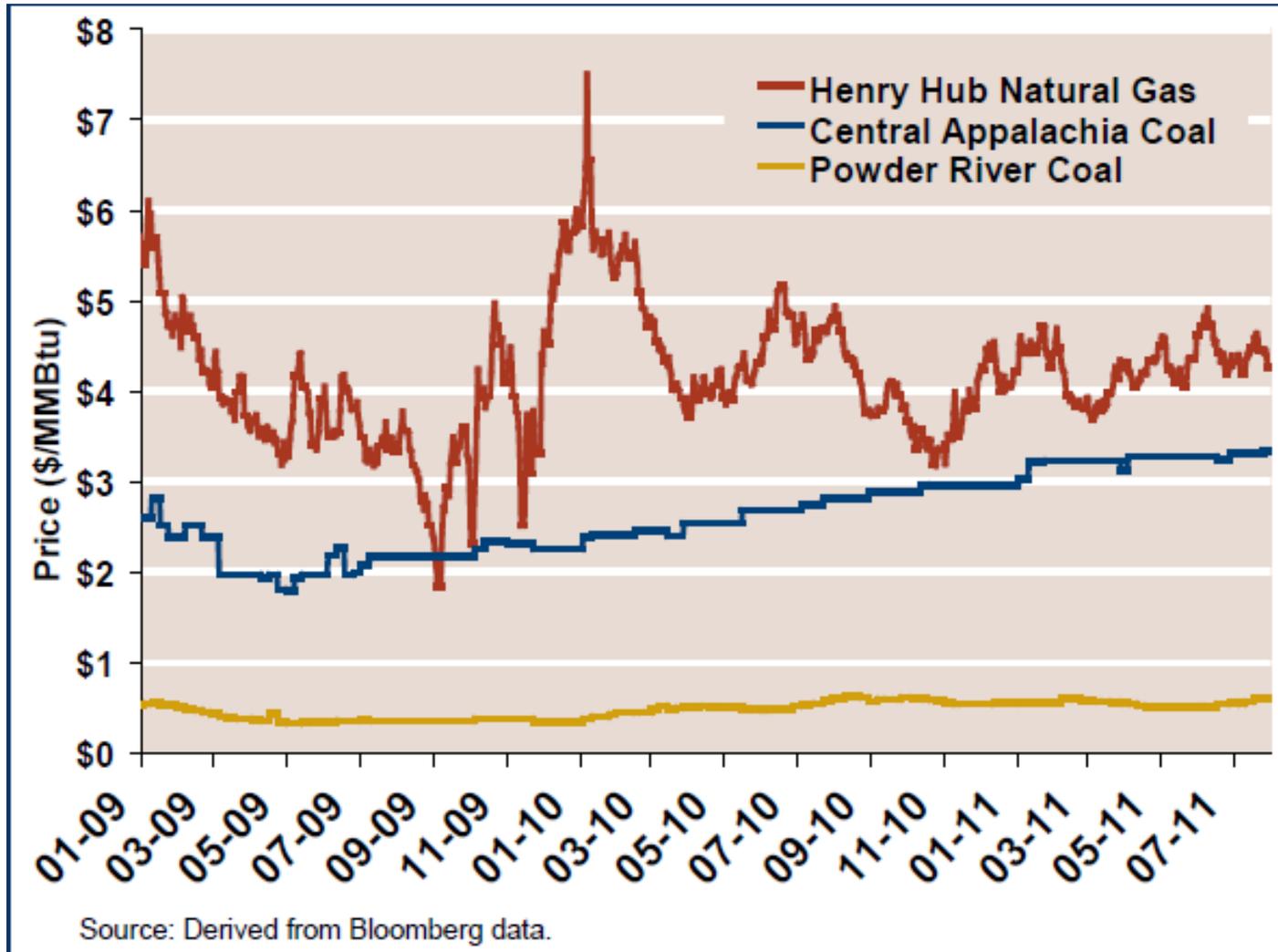
Daily Average of PJM Day-Ahead Prices - All Hours



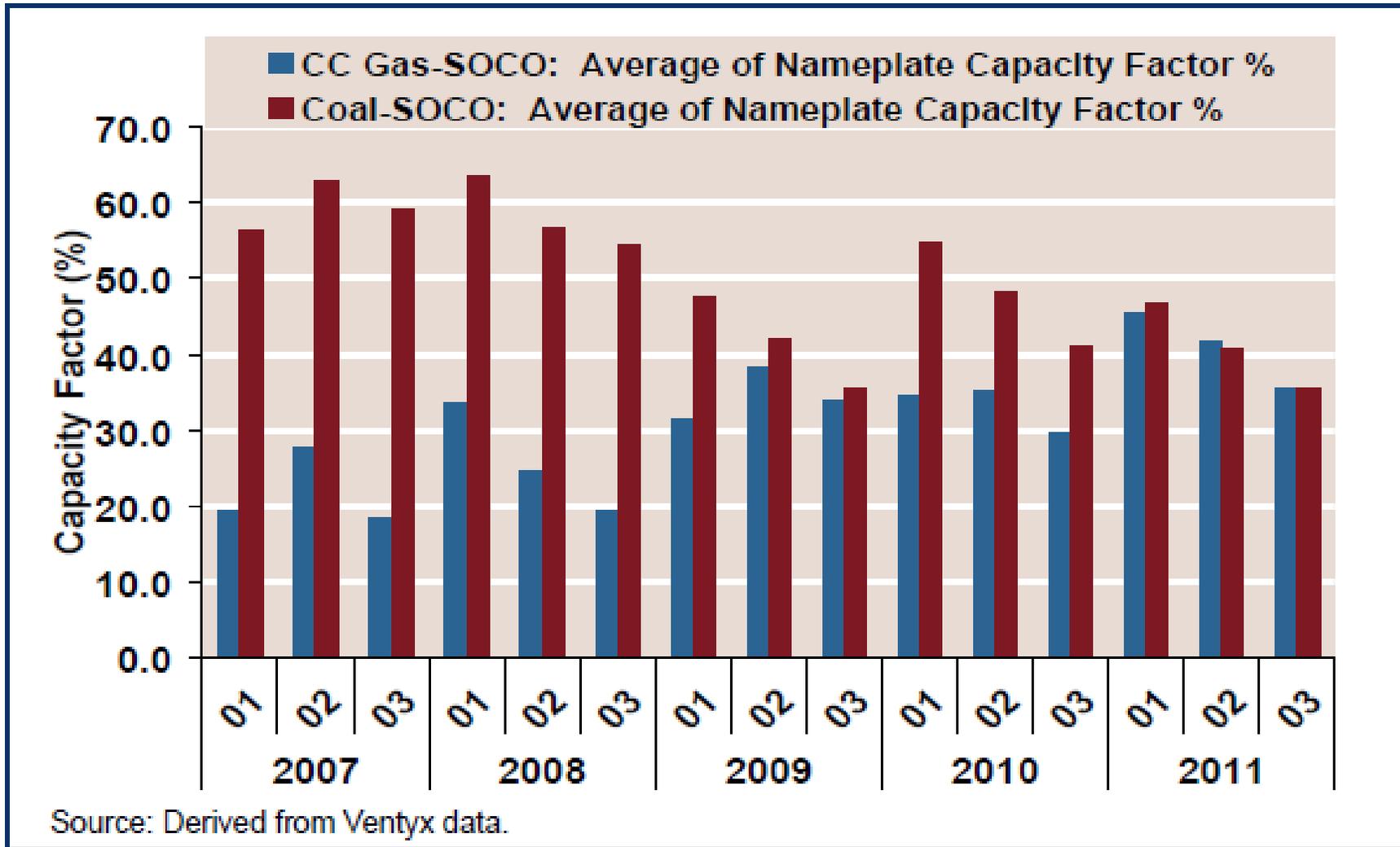
Implied Heat Rates at Eastern Trading Points - Weekly Avgs.



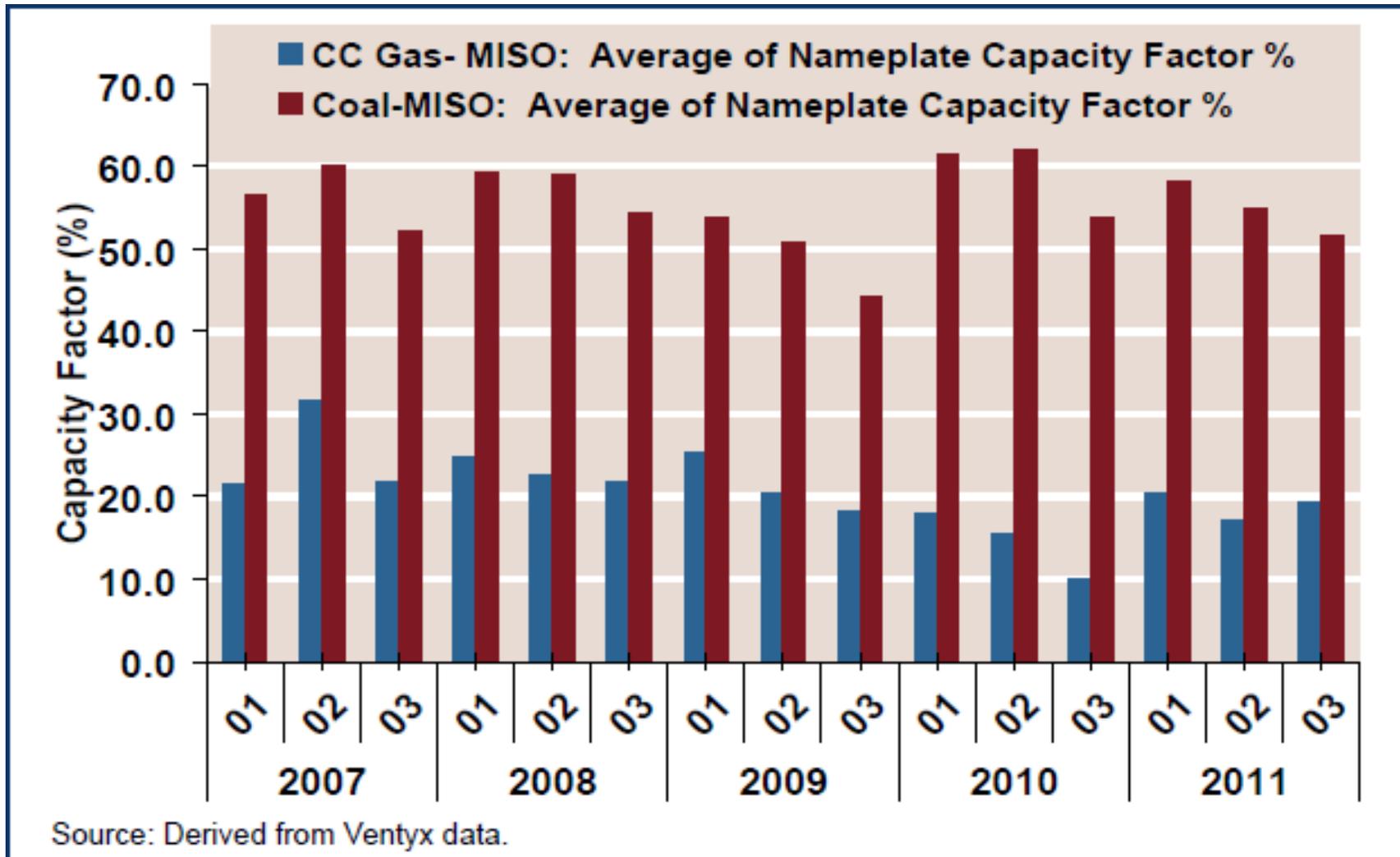
Natural Gas and Appalachian Coal Price Spreads Narrow Since 2009



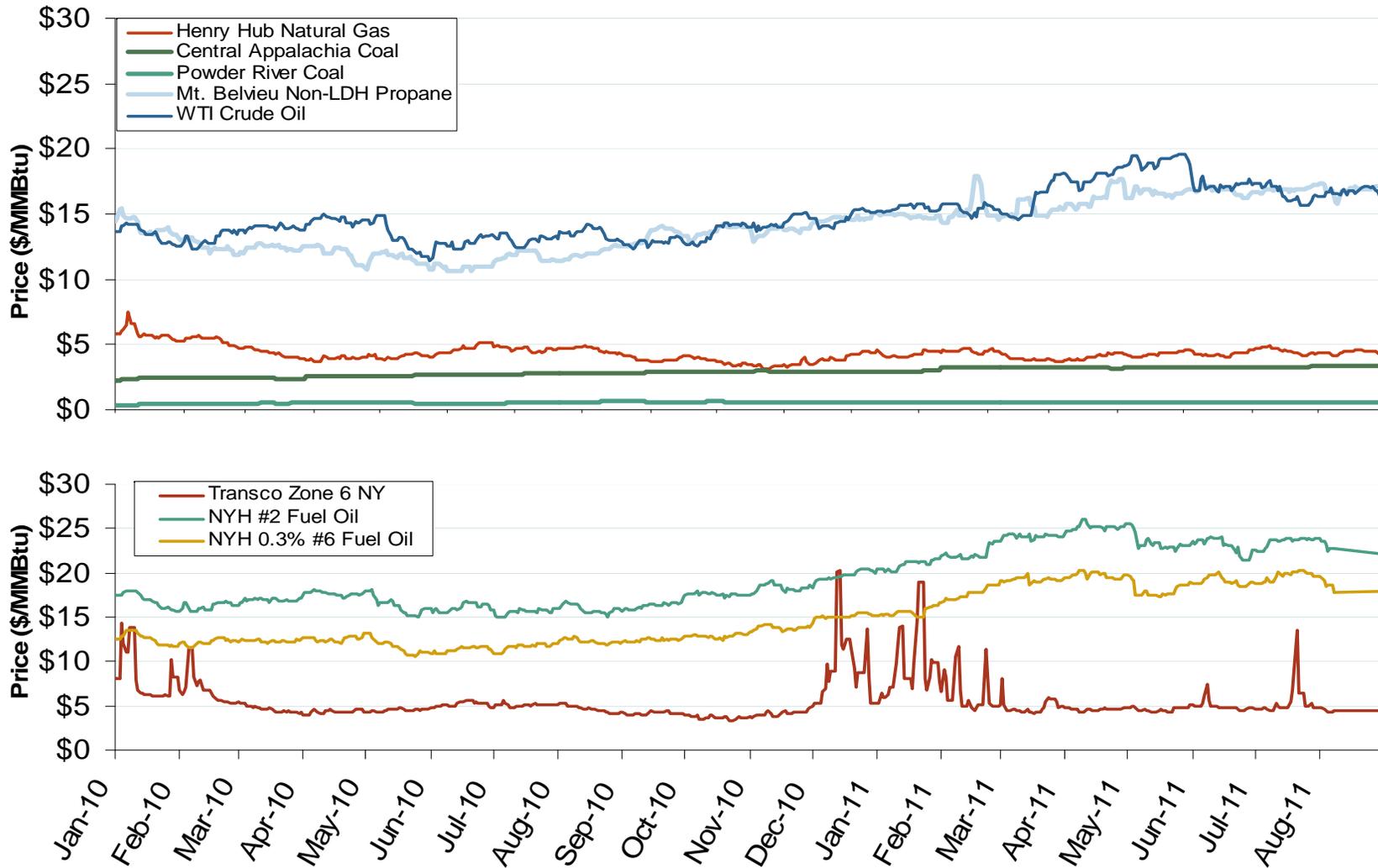
Combined Cycle and Coal Power Plant Capacity Factors Converge in Southern Company Market



Combined Cycle and Coal Power Plant Capacity Factors Show Little Change In MISO



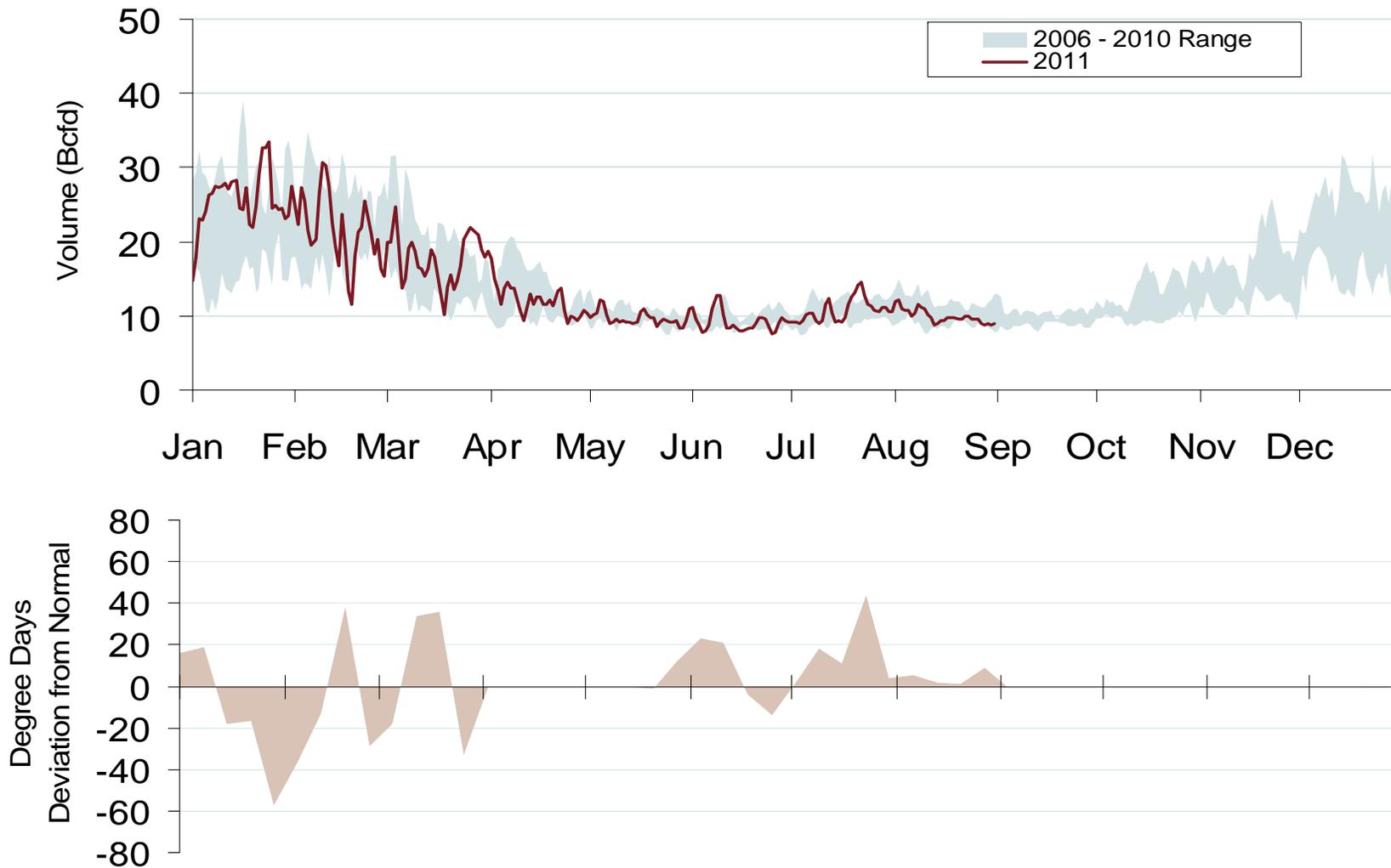
Oil, Coal, Natural Gas and Propane Daily Spot Prices



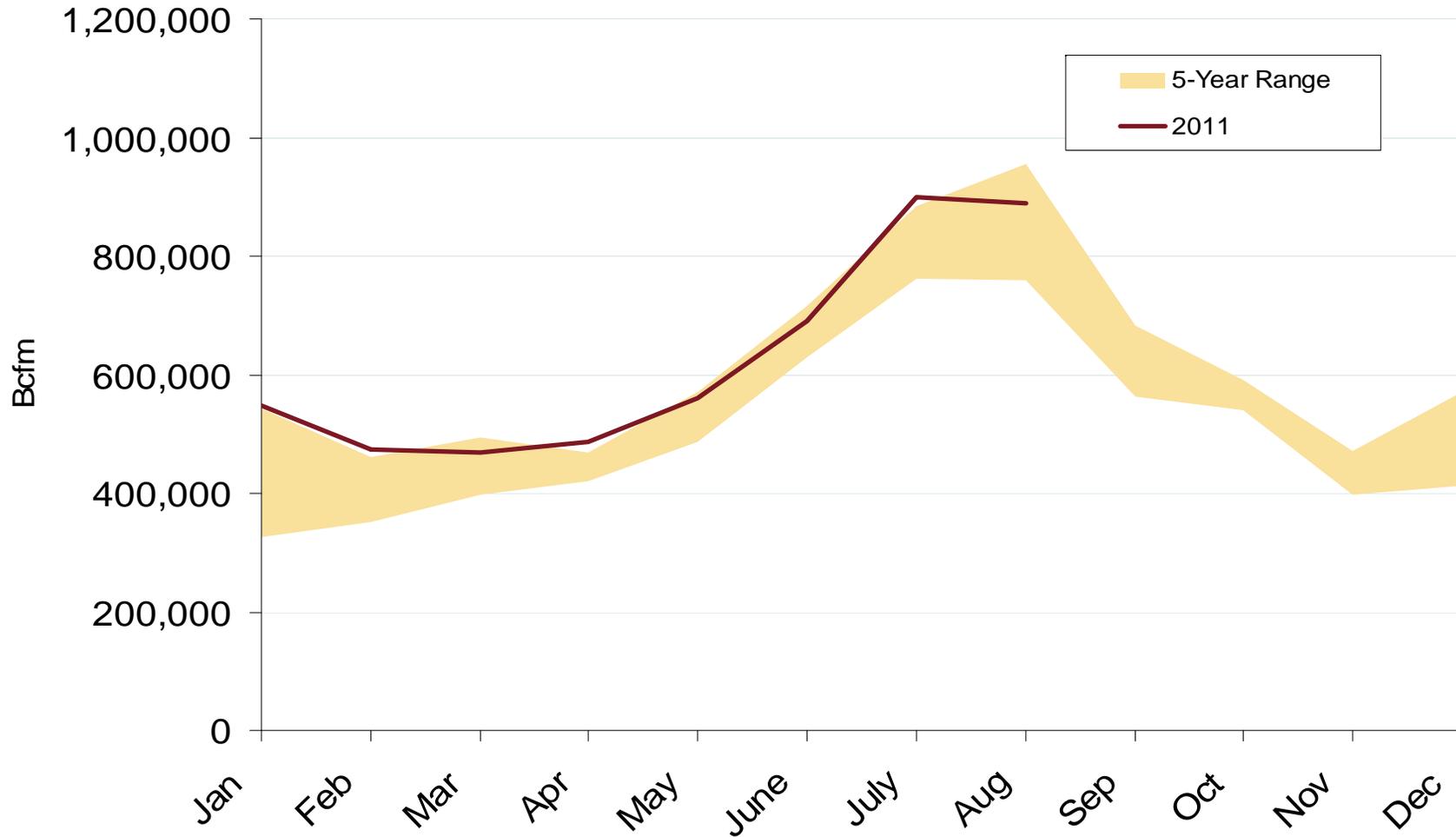
Notes: Coal prices are quoted in \$/ton. Conversion factors to \$/MMBtu are based on contract specifications of 12,000 btus/pound for Central Appalachian coal and 8800 btus/pound for Powder River Basin coal

Source: Derived from ICE and Bloomberg data

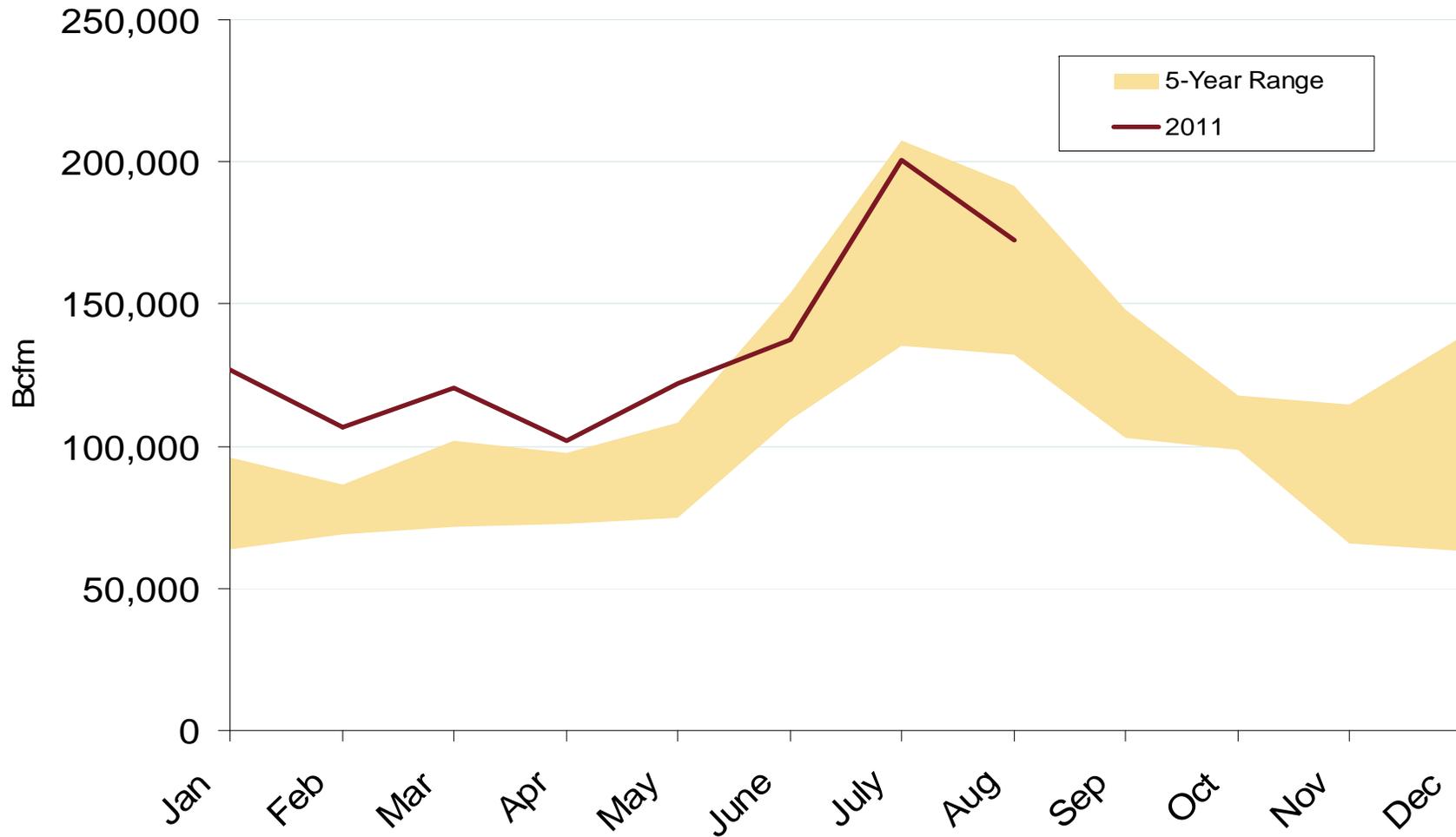
Daily Northeast Natural Gas Demand All Sectors



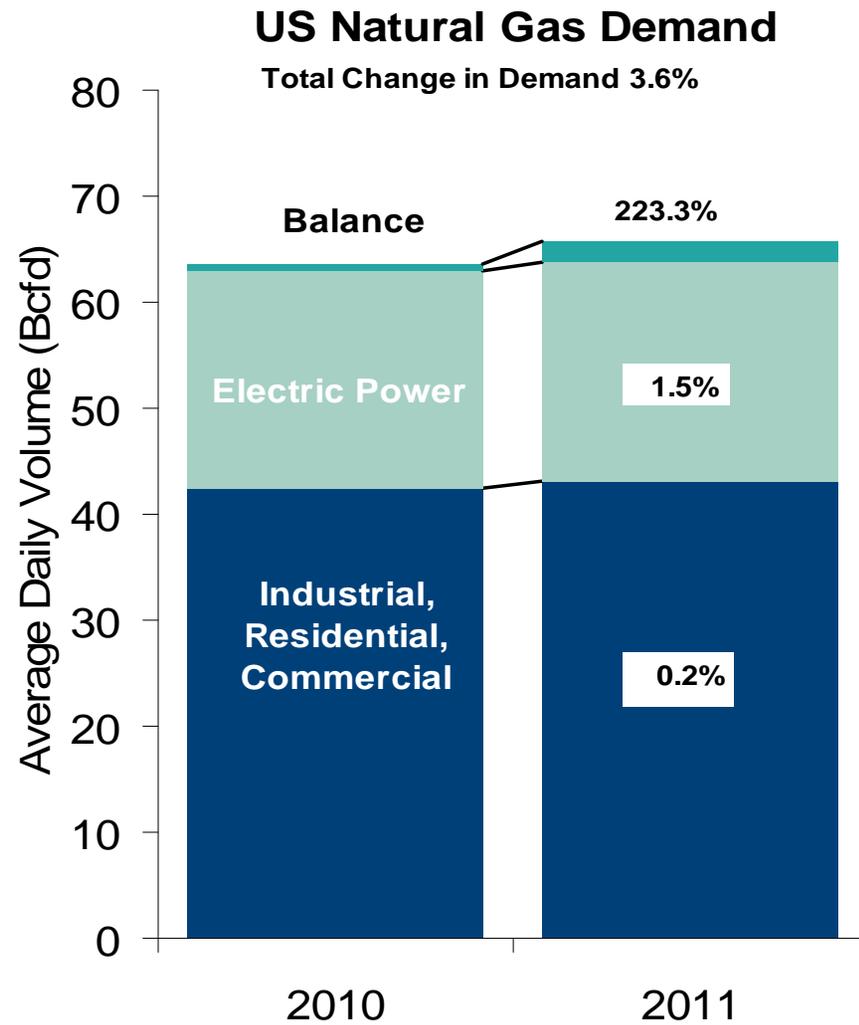
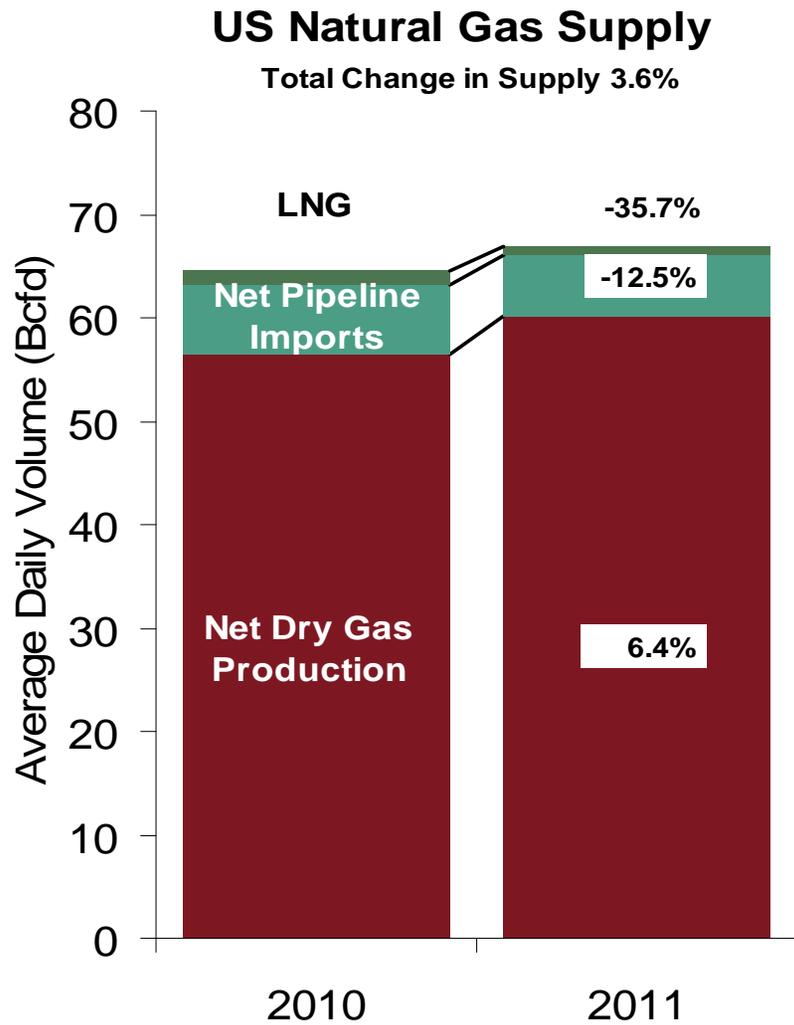
U.S. Natural Gas Consumption for Power Generation



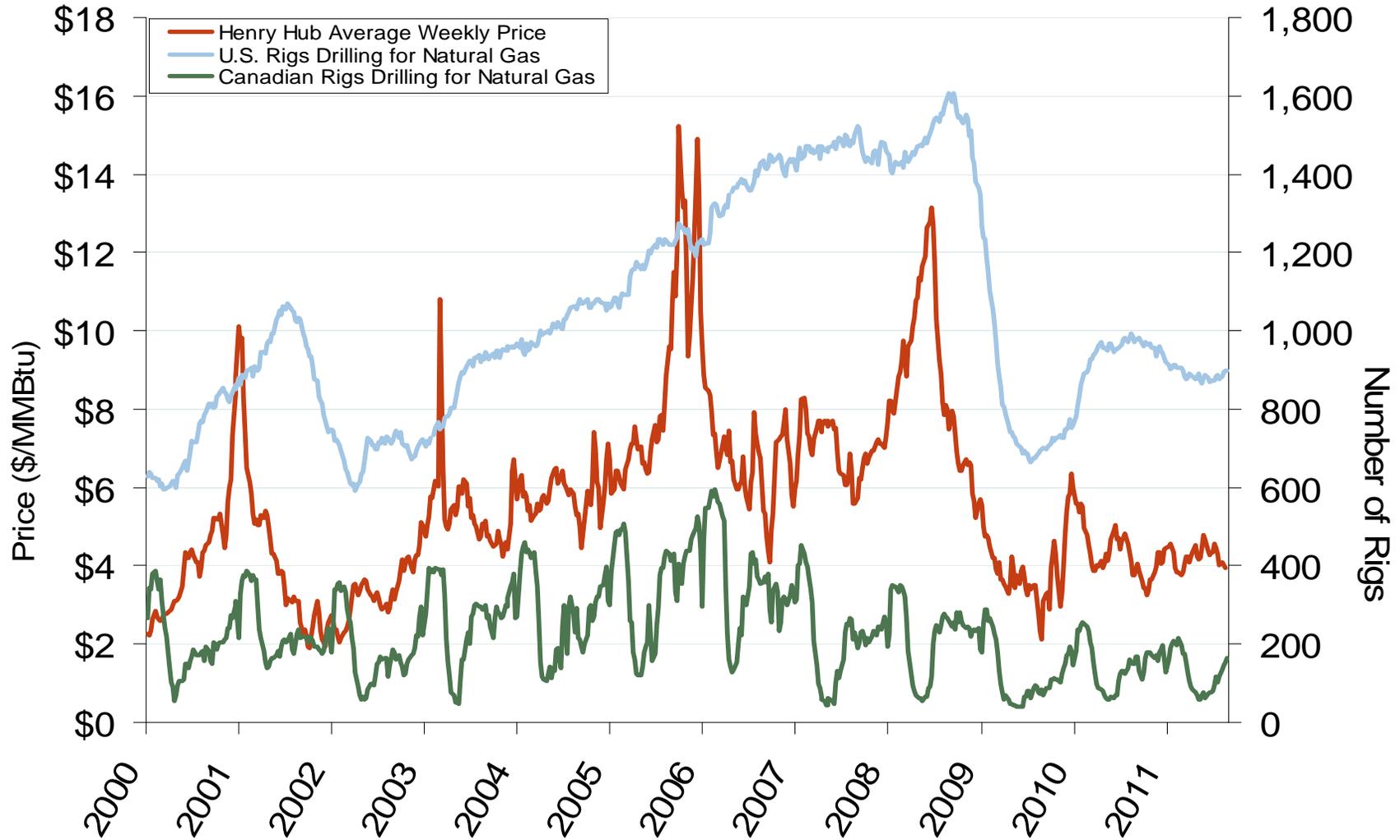
Northeast Natural Gas Consumption for Power Generation



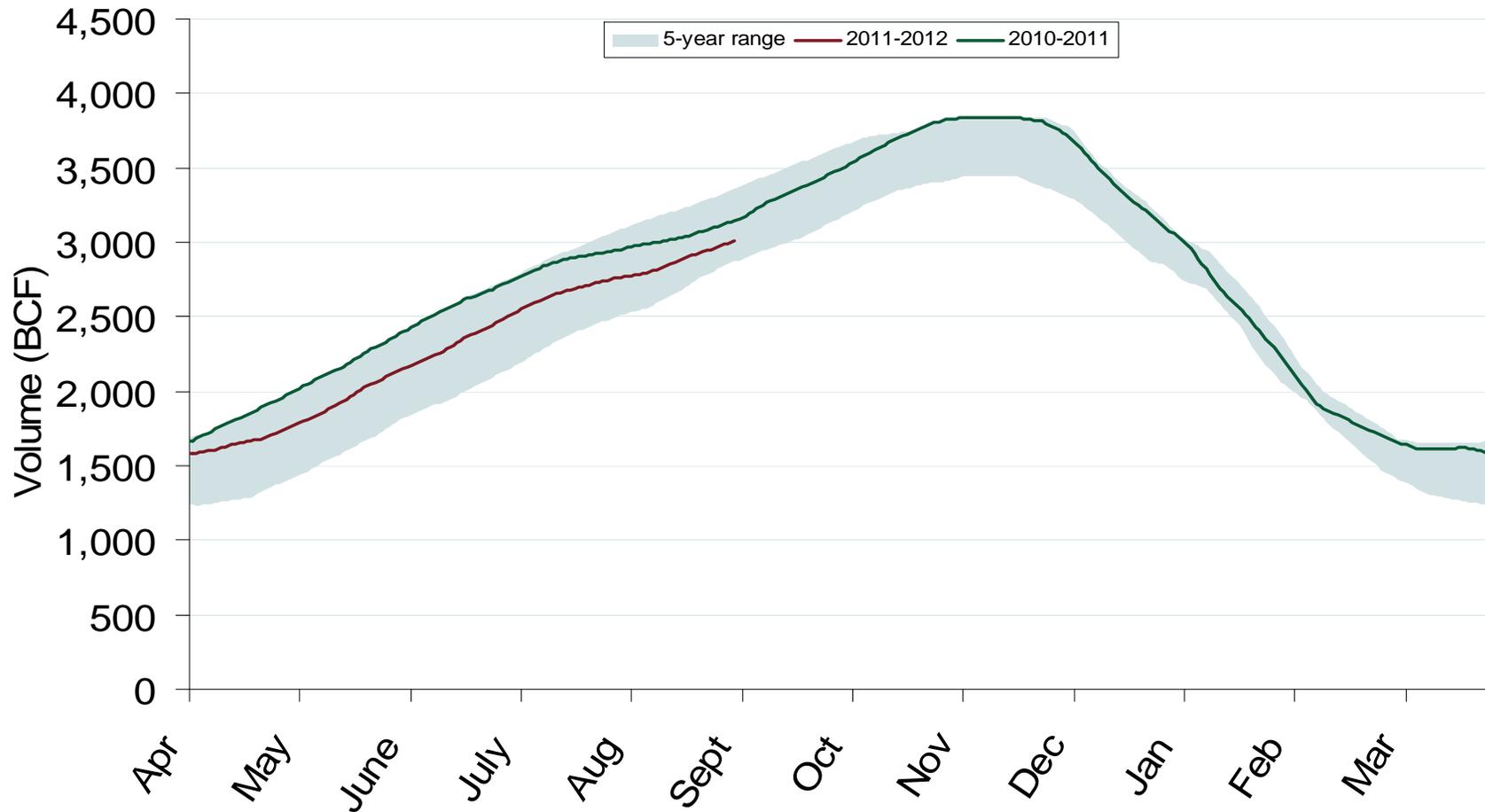
U.S. NG Supply and Demand 2010 vs. 2011: January - August



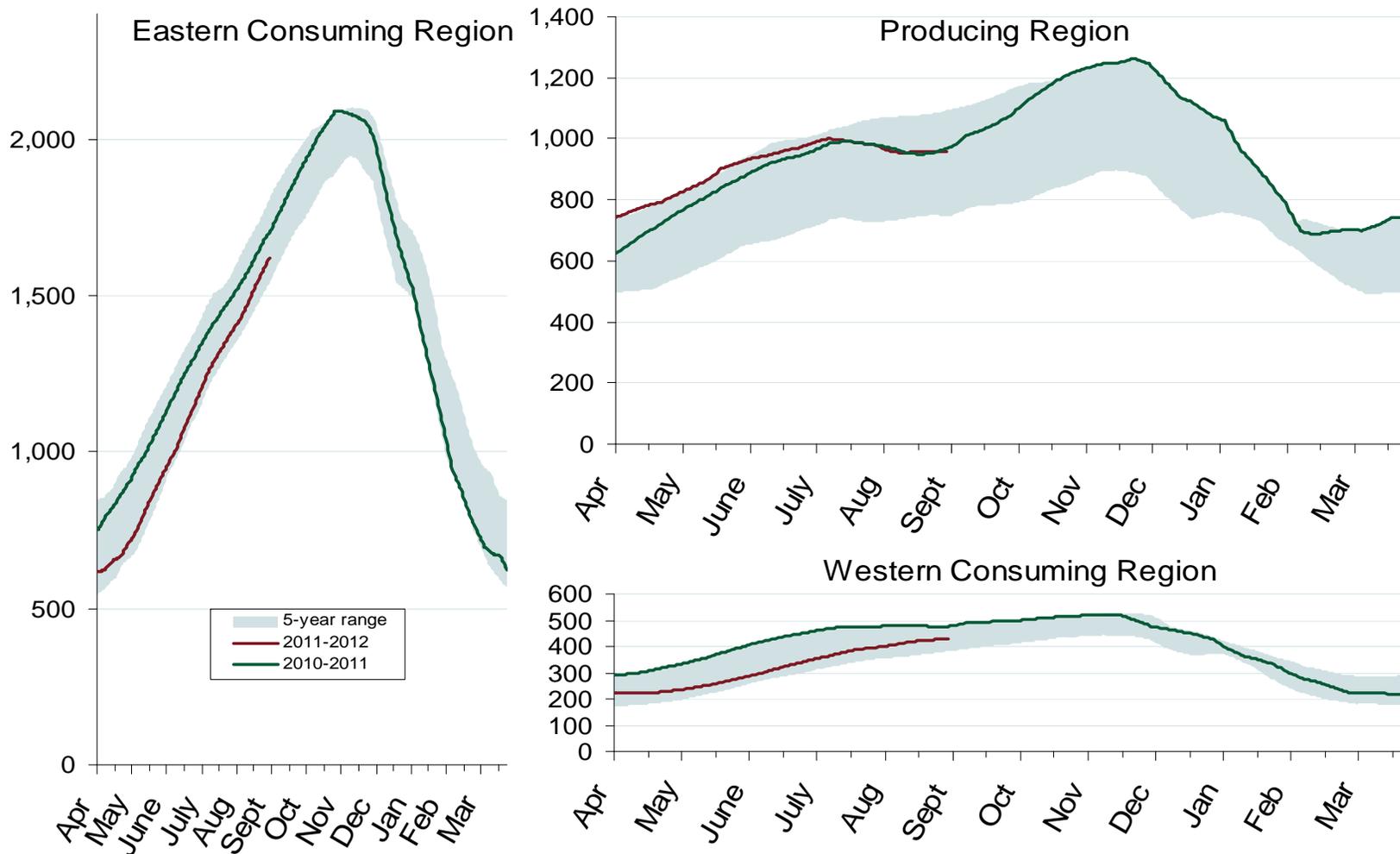
U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



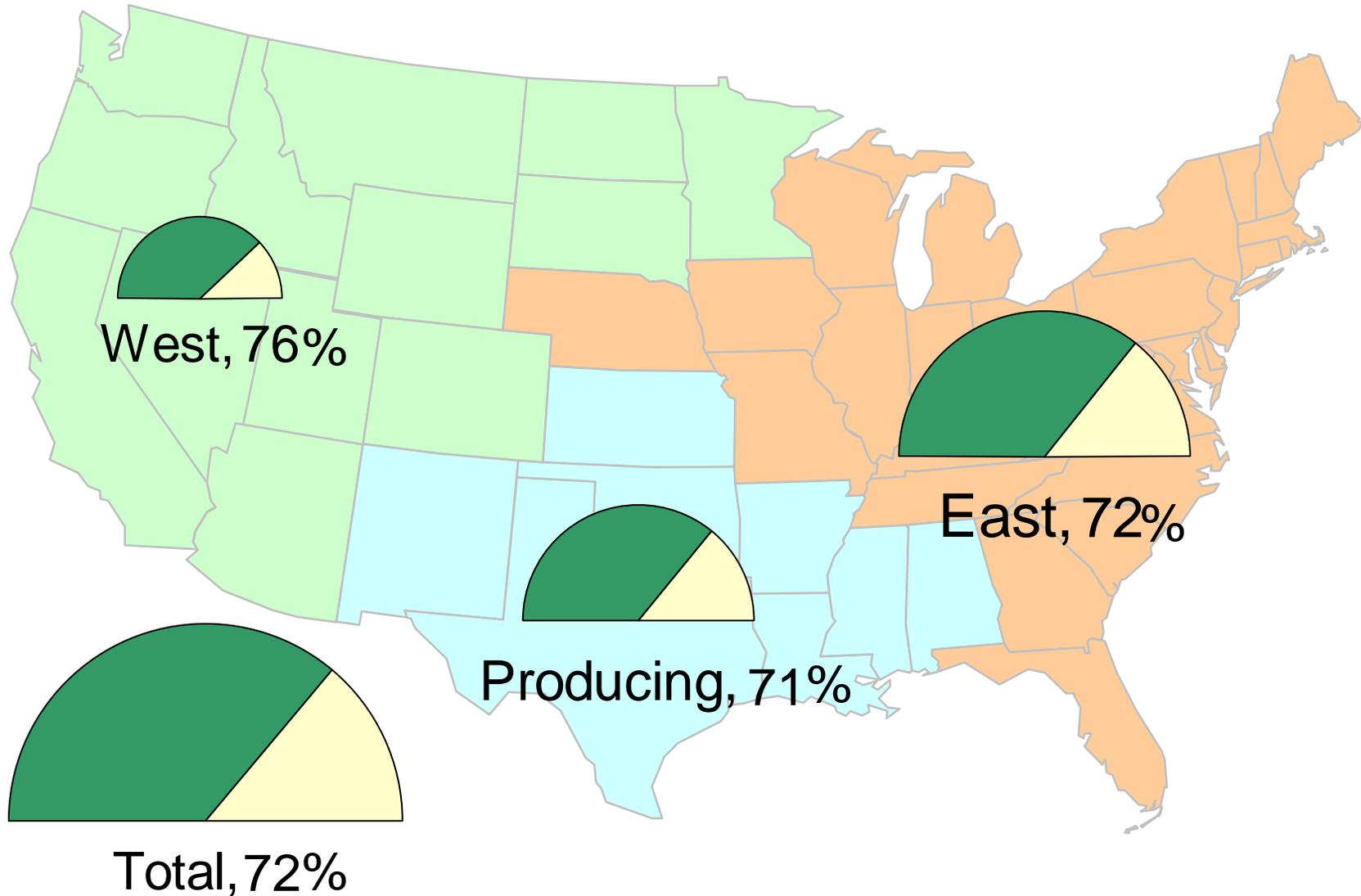
Total U.S. Working Gas in Storage



Regional Totals of Working Gas in Storage



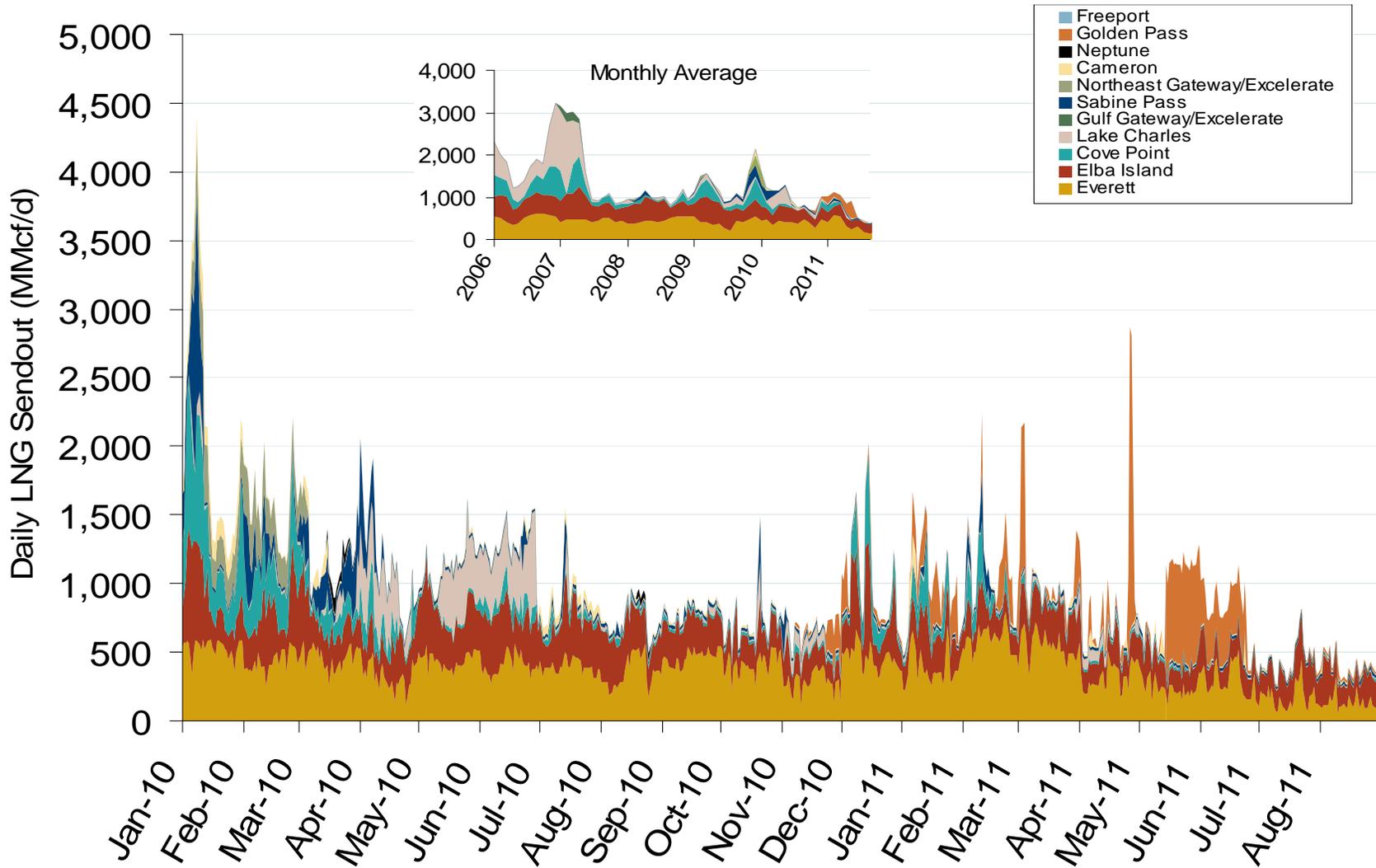
Natural Gas Storage Inventories – August 26, 2011



World LNG Estimated October 2011 Landed Prices



Daily Gas Sendout from Existing U.S. LNG Facilities



Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from *Bentek Energy* data