OE ENERGY MARKET SNAPSHOT

Mid-Atlantic States Version – November 2011 Data

Office of Enforcement
Federal Energy Regulatory Commission
December 2011

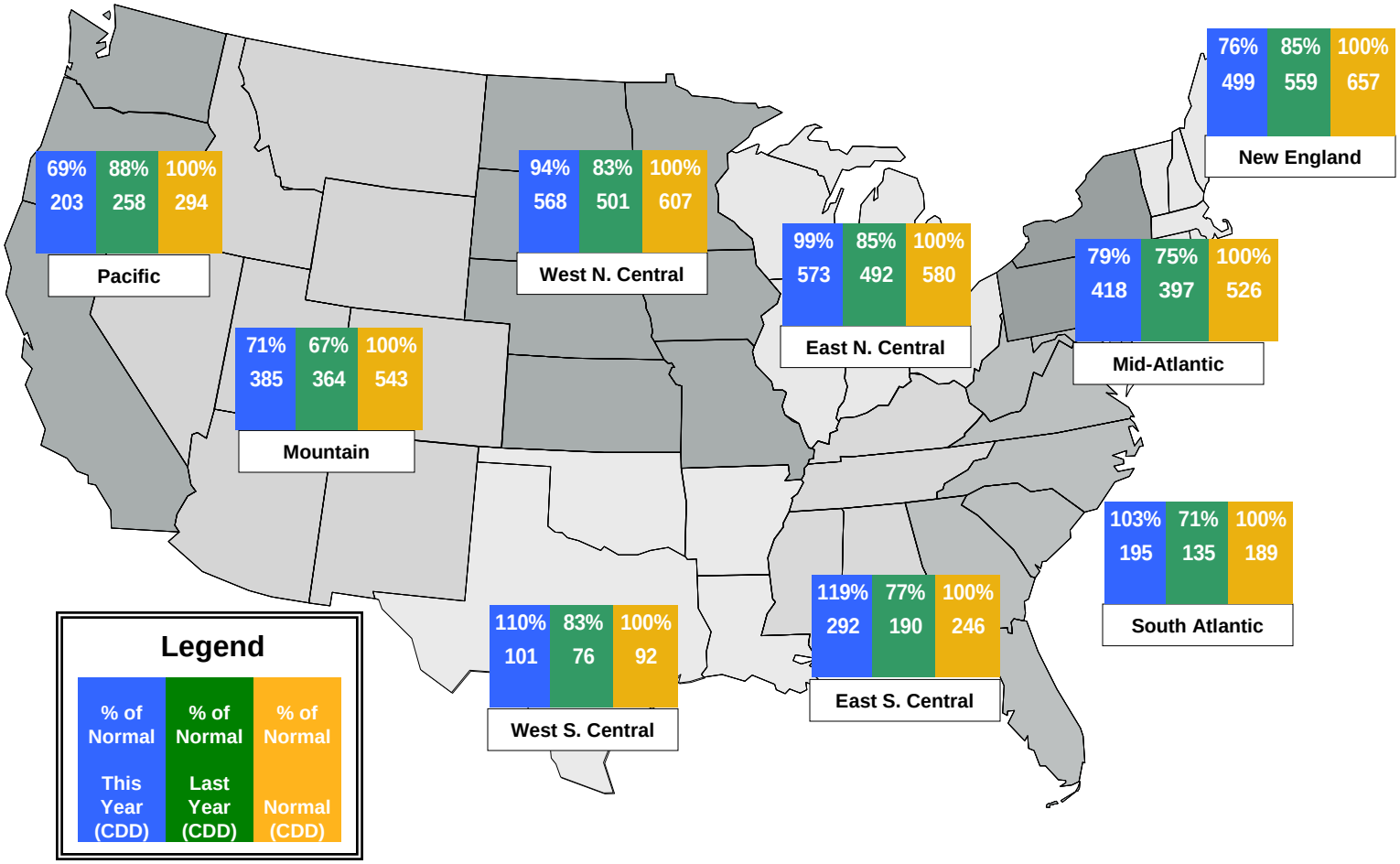
2011 Report on Enforcement

Click below for a copy of the report:

http://www.ferc.gov/legal/staff-reports/11-17-11-enforcement.pdf

Weather

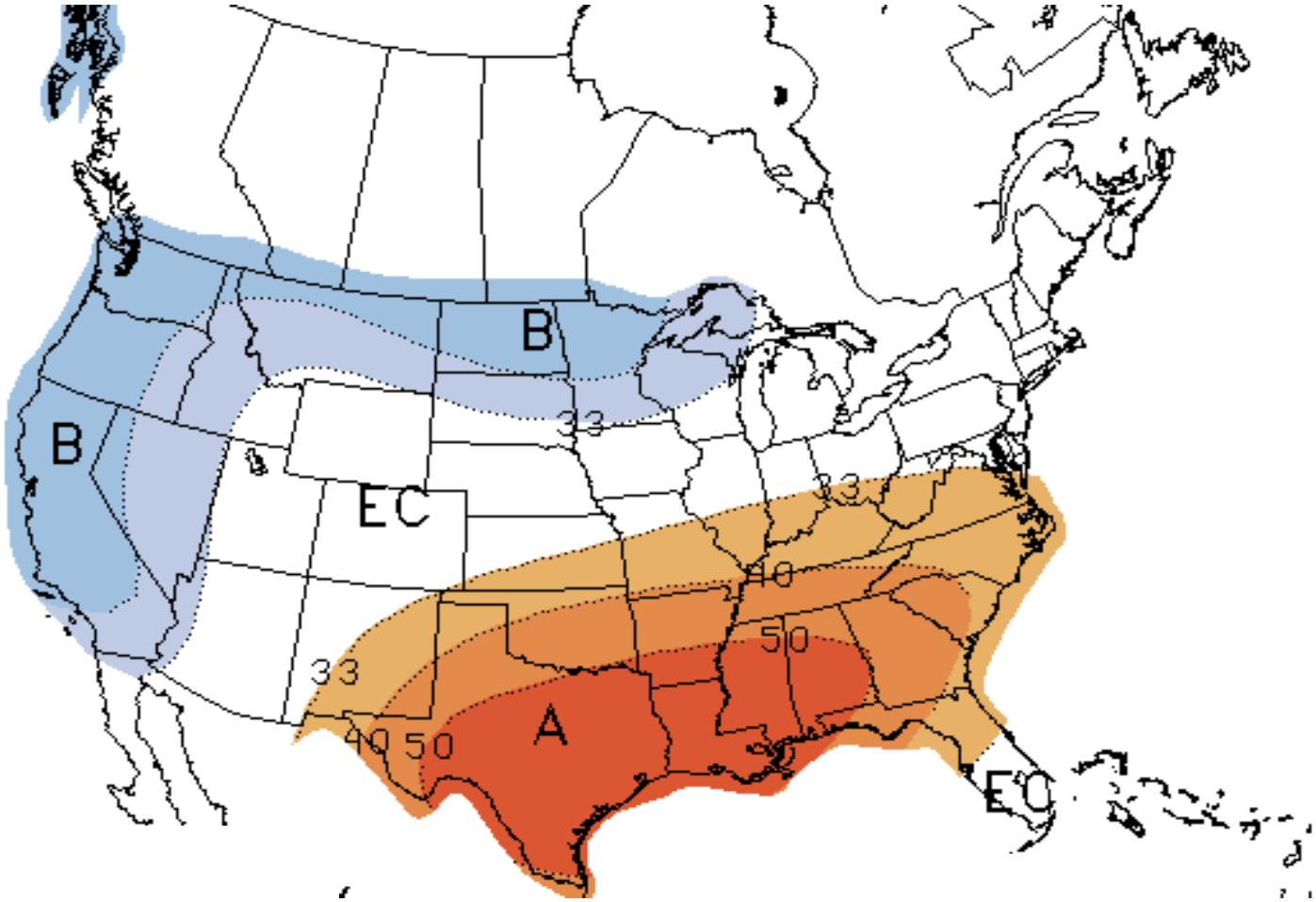
Regional Heating Degree Days – Year to Date November 2011



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

Updated December 2, 2011

NOAA's 3 Month Temperature Forecast
Made November 11, 2011, Valid for December 2011 – February 2012

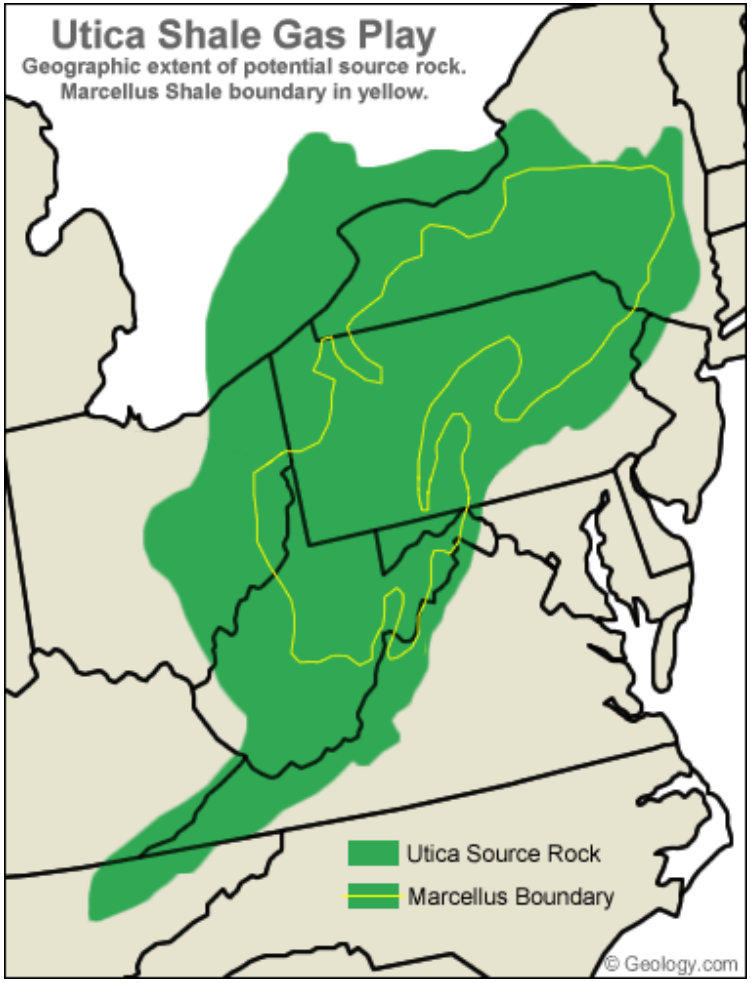


Note: "A" areas are above normal, "B" areas are below normal and "EC" means equal chance. Normal is based on the last 30 years of data.
Source: Derived from *NOAA* data.

Updated: December 02, 2011

Natural Gas and Fuels Markets

Utica Shale Attracts Attention



- Up to 14,000' below the surface
- Ranges in thickness from 100' to 500'
- Little public information is available – not thoroughly evaluated
- Ohio DNR estimates 12.3 billion barrels of oil and 20 Tcf of natural gas ultimately recoverable
- Eastern Ohio portion believed to be oil and NGL rich
- Experienced shale gas producers very active – Chesapeake, Devon, Chevron
- EIA recently reported Ohio issued 42 drilling permits for horizontal wells in the first 9 months of 2011 – only 2 were issued in the first 9 months of 2010

Source: Derived from Geology.com.

Updated December 6, 2011

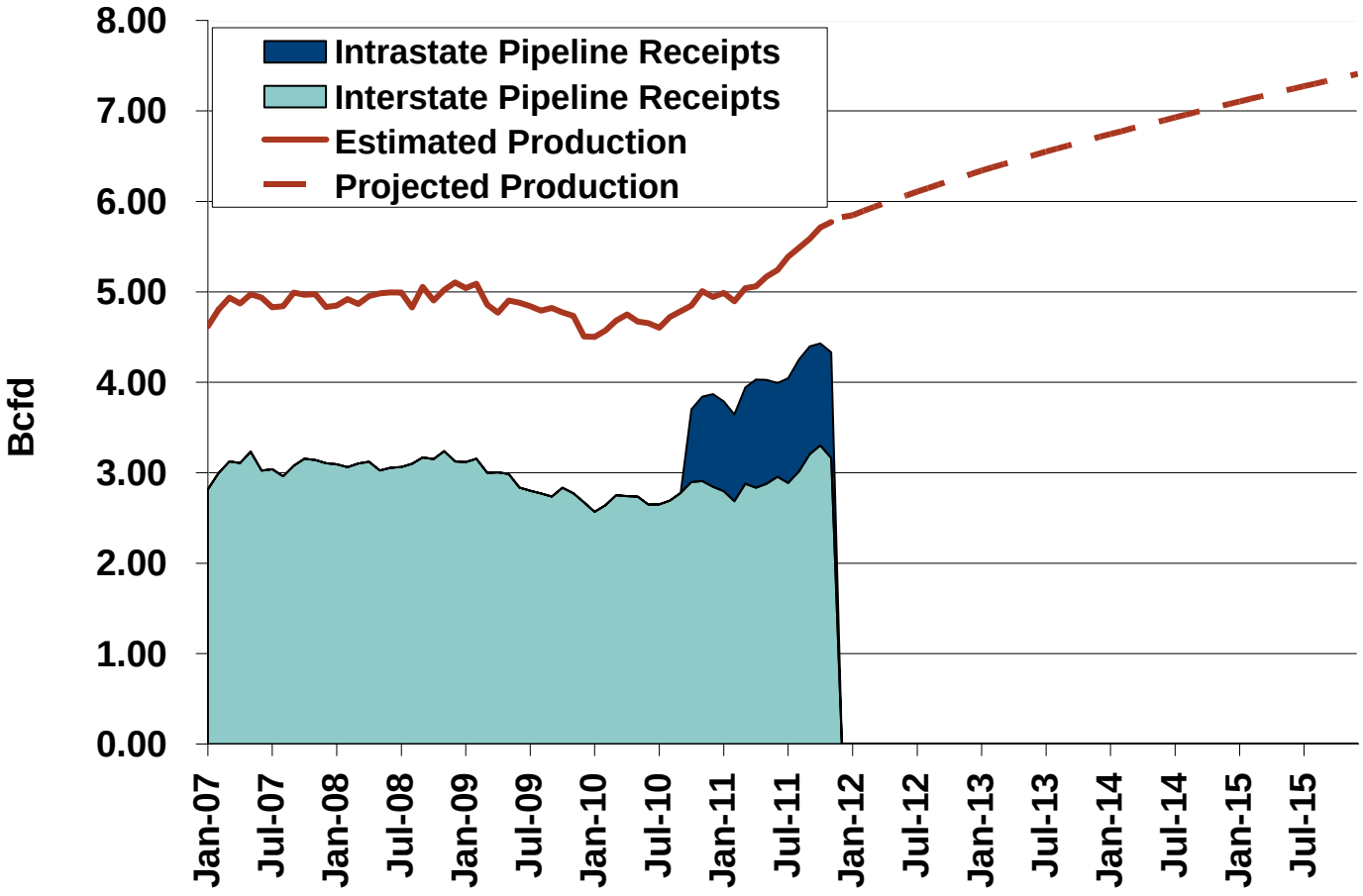
Cheniere reaches capacity target for financing Sabine Pass LNG exports

	Cheniere LNG Export Deals	
	BG	Gas Natural
Contracted Capacity	460 MMcfd	460 MMcfd
Contract Term	20 yrs	20 yrs
Reservation Fee	$2.25/MMBtu	$2.49/MMBtu
Gas Price	100% of HH	100% of HH
Gas Price for Liquefaction	15% of HH	15% of HH

Source: Cheniere financial reports filed with the SEC

Updated November 2011

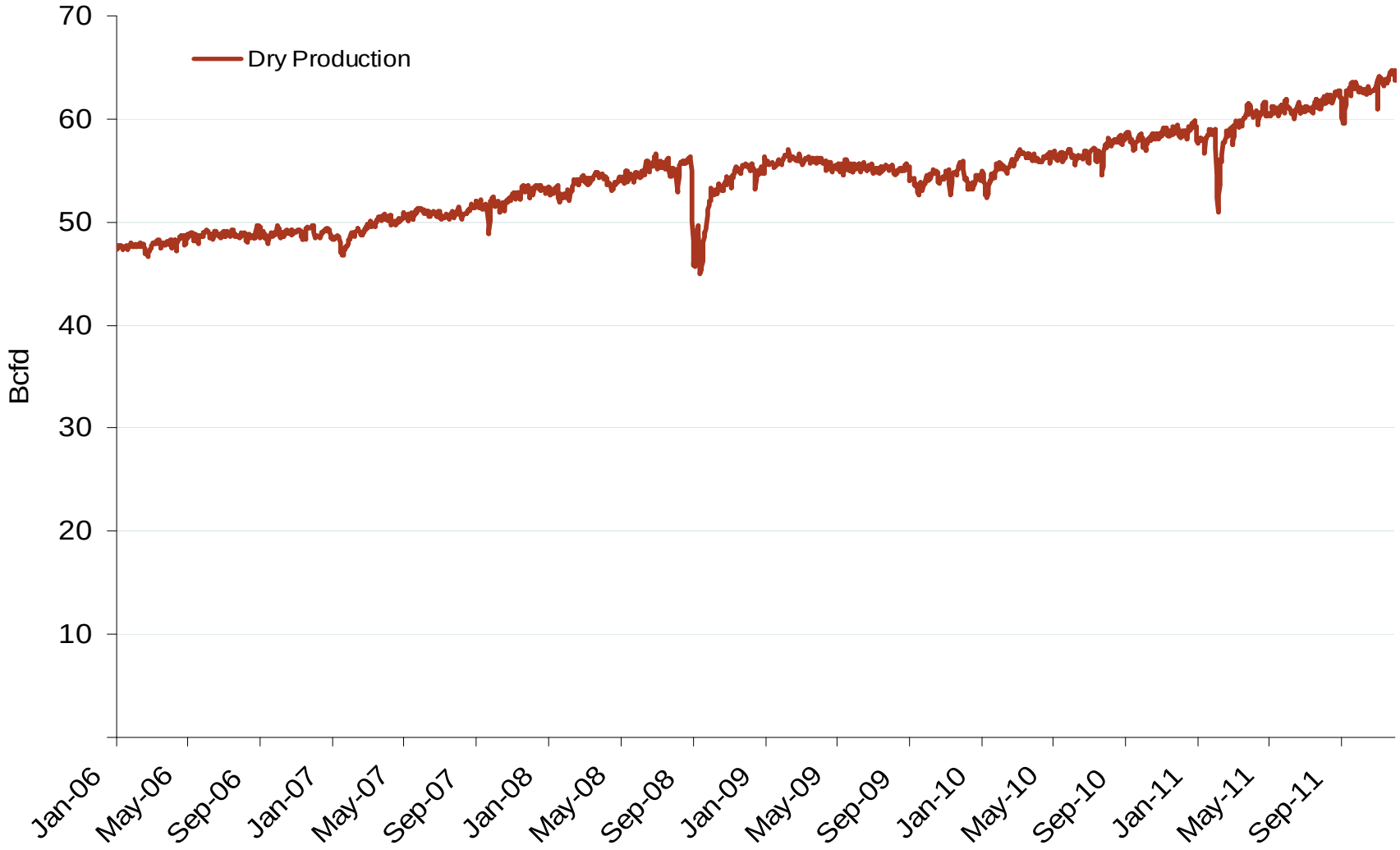
Newly Observed Intrastate Pipe Flows Show Anadarko Gas Production Hike



Source: Derived from Bentek Energy

Updated November 2011

Monthly U.S. Dry Gas Production – Lower 48 States



Note: Prior to July 2010, chart was derived from a combination of *EIA* and *Bentek Energy* data

Source: Derived from *Bentek Energy* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

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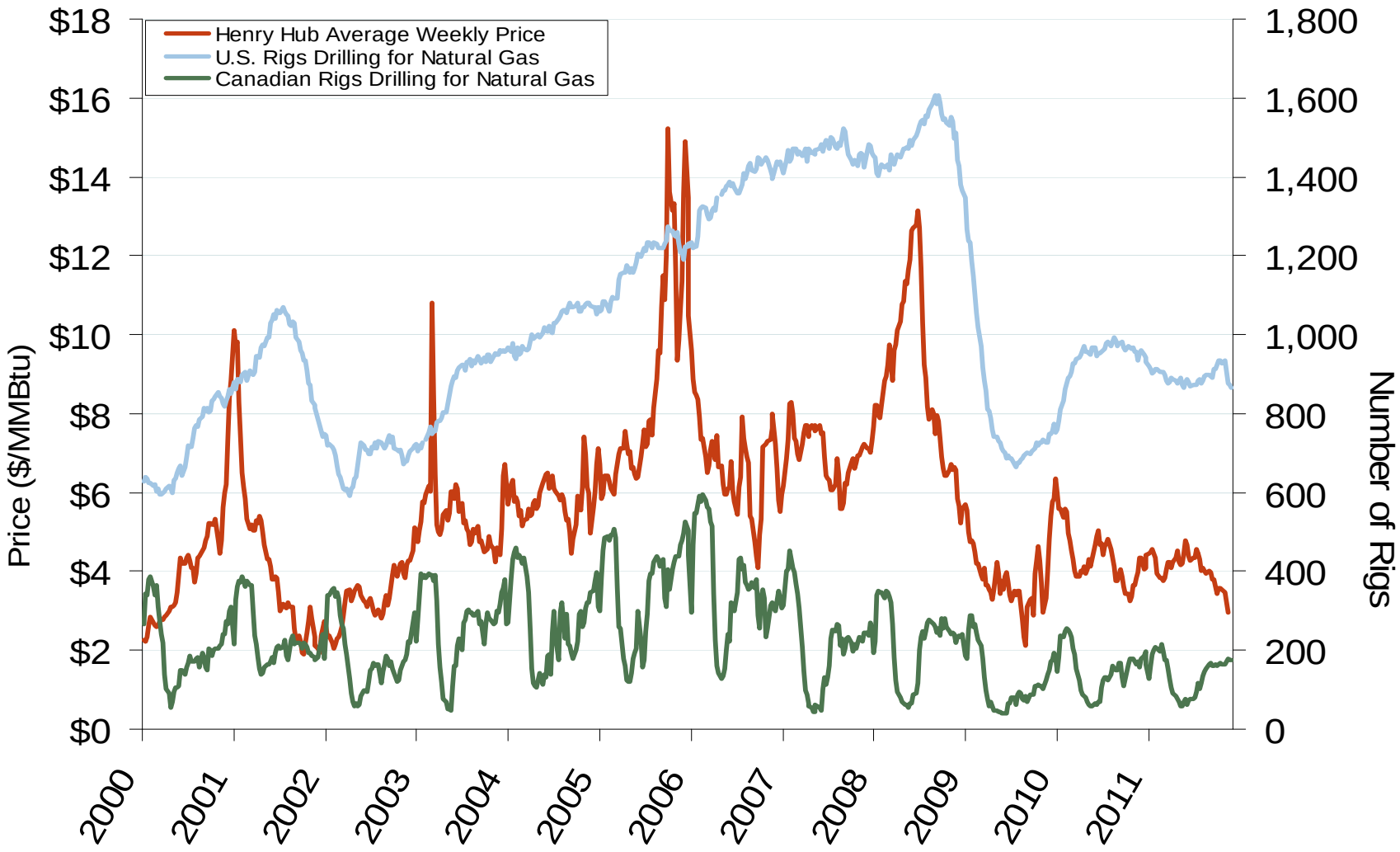
U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data

December 2011 MidAtlantic Snapshot

Updated: December 01, 2011

Natural Gas Market Overview: 5 Year Range of Henry Hub Spot Prices

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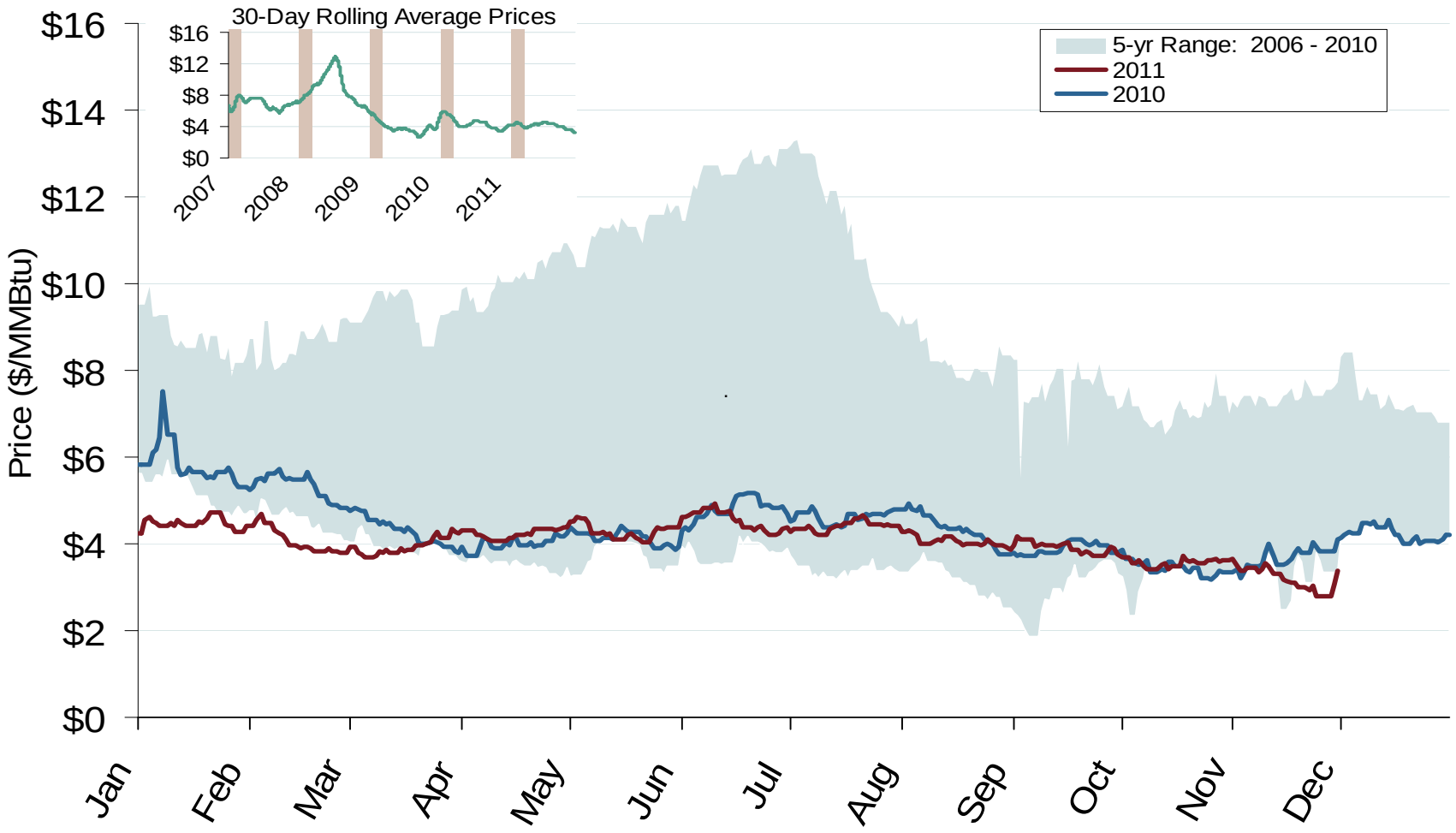
Henry Hub Natural Gas Daily Spot Prices

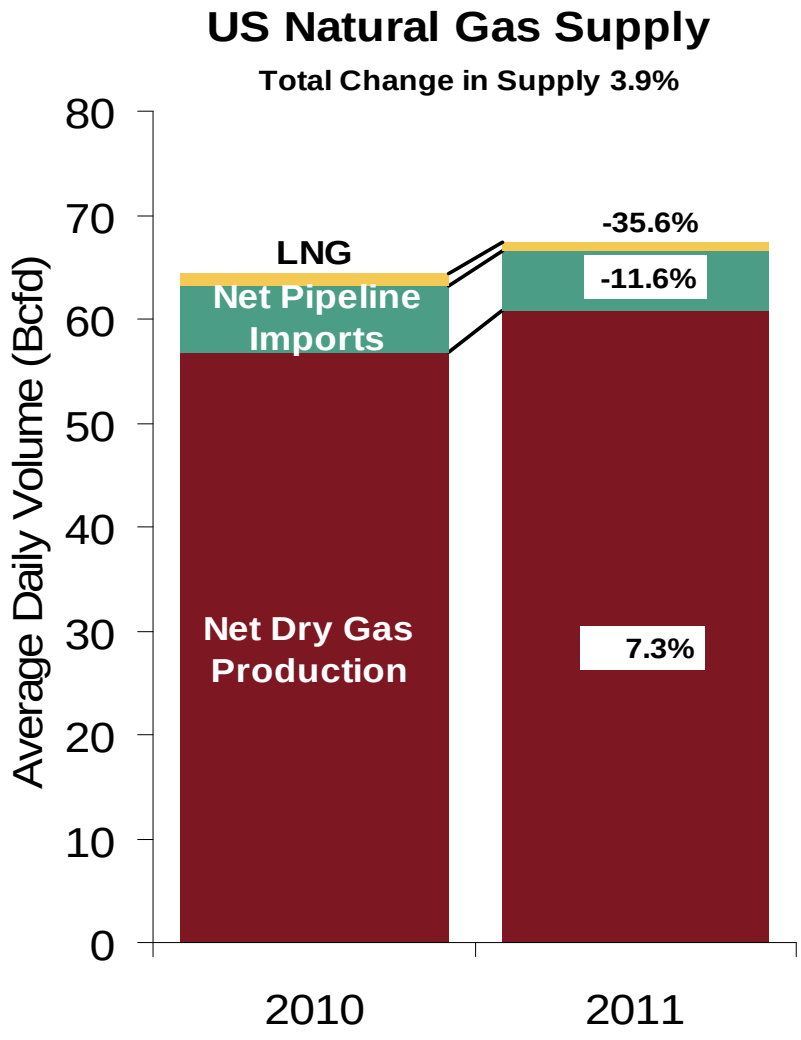


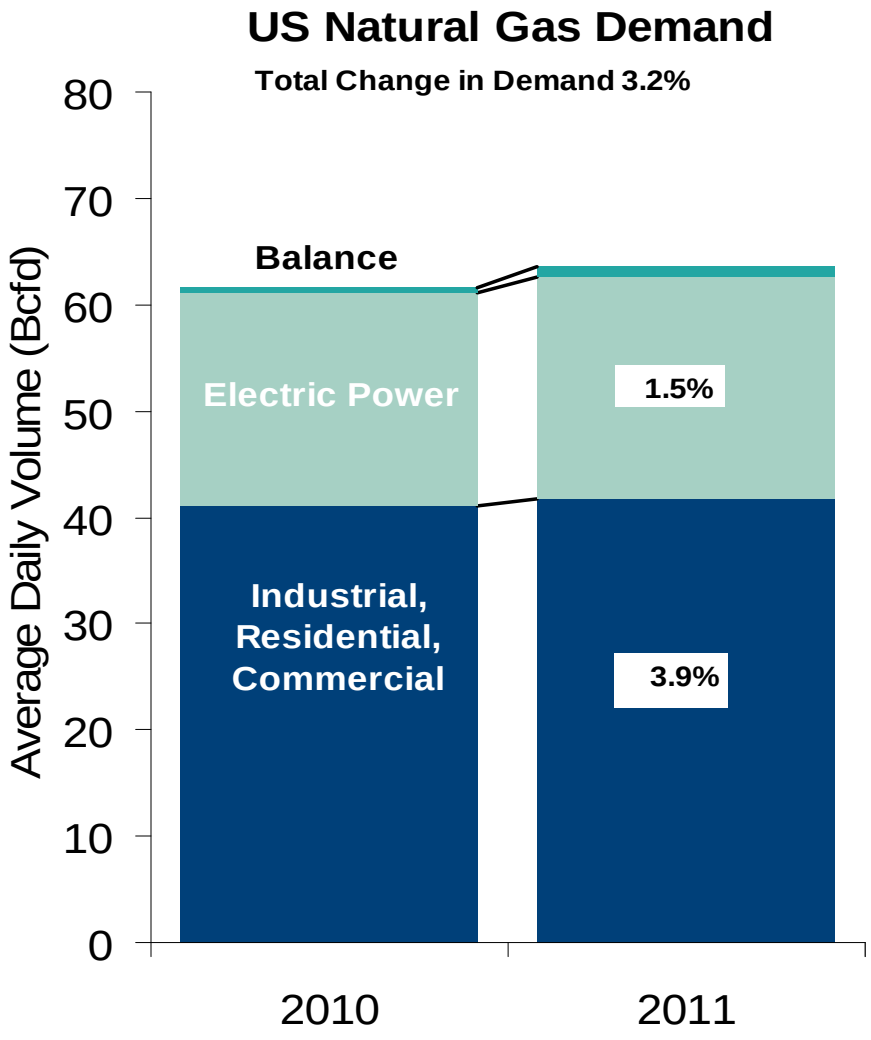
Source: Derived from *Platts* data

December 2011 MidAtlantic Snapshot

Updated: December 01, 2011

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





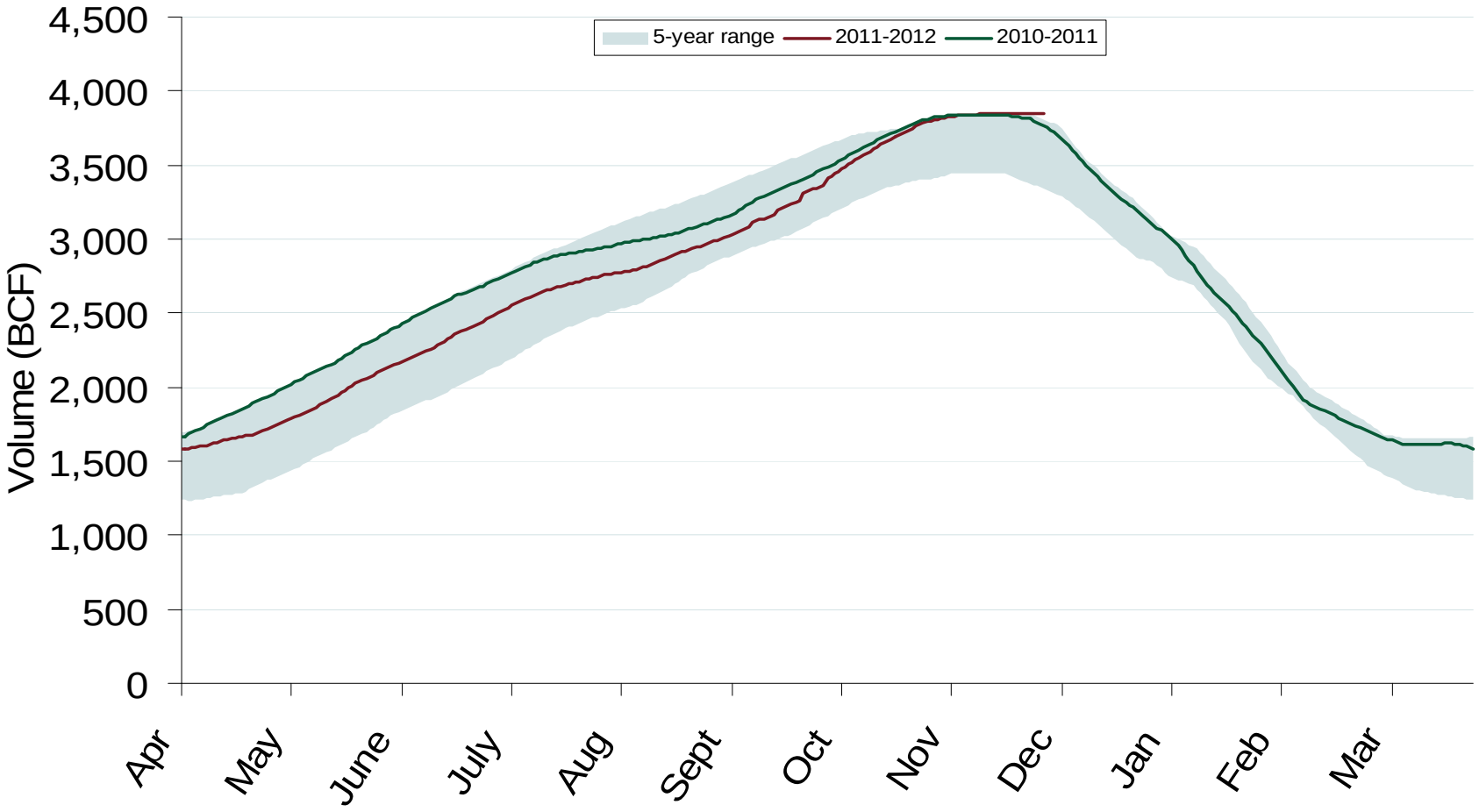
Note: Balance includes all amounts not attributable to other categories.

Source: Derived from *Bentek Energy* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

Total U.S. Working Gas in Storage



Source: Derived from *EIA* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

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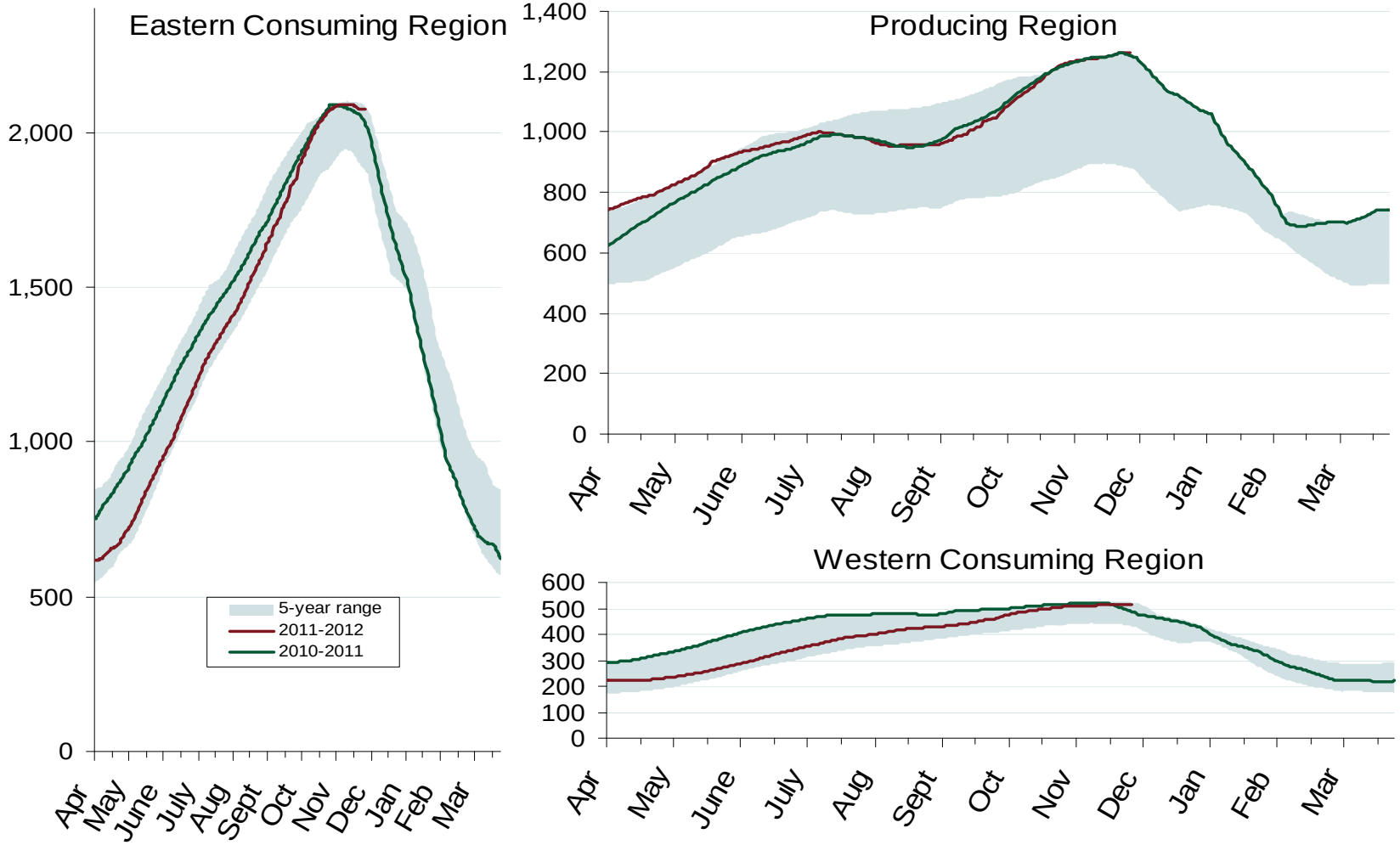
Regional Totals of Working Gas in Storage

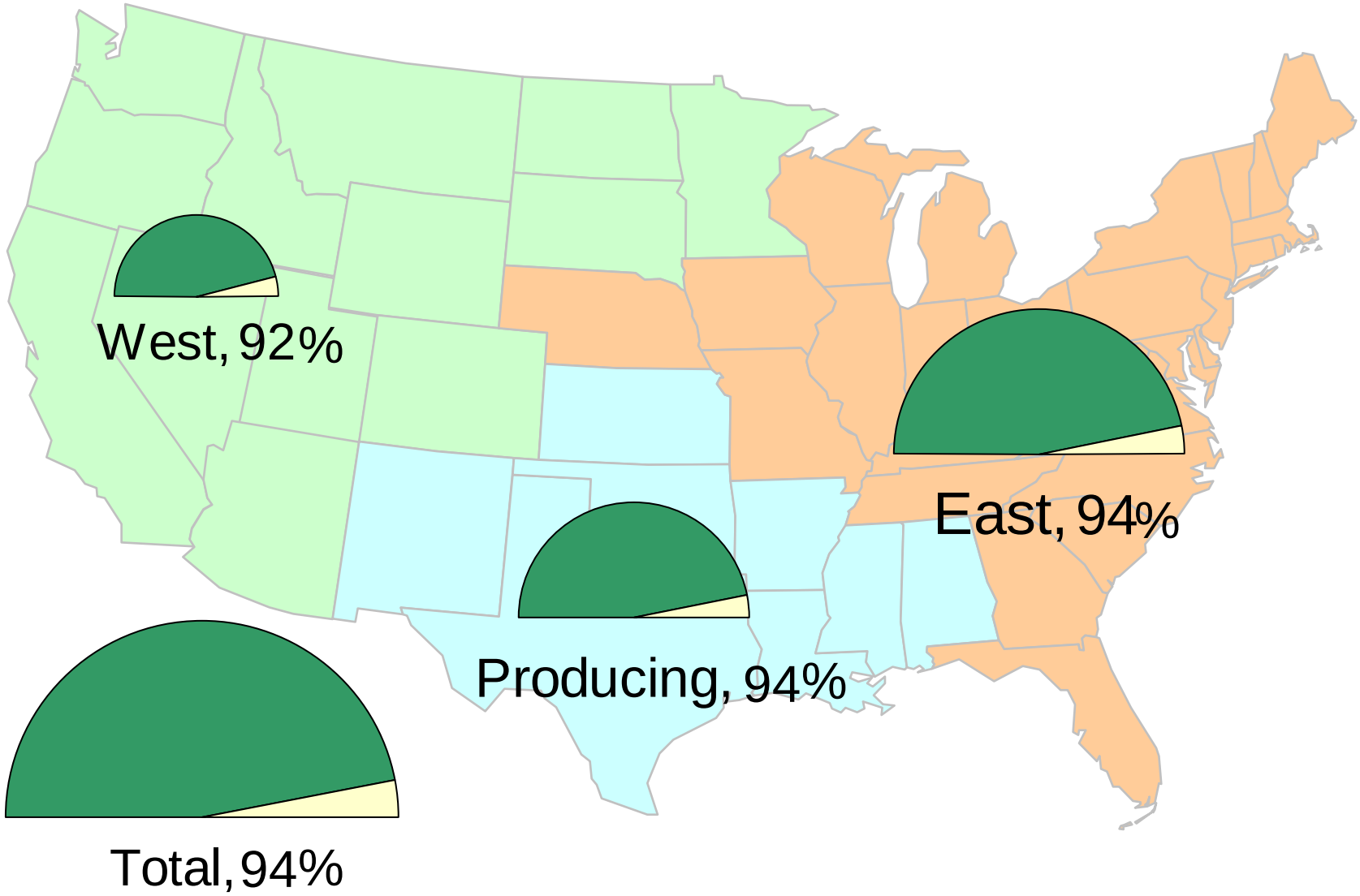


Source: Derived from *EIA* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

Natural Gas Storage Inventories – December 2, 2011



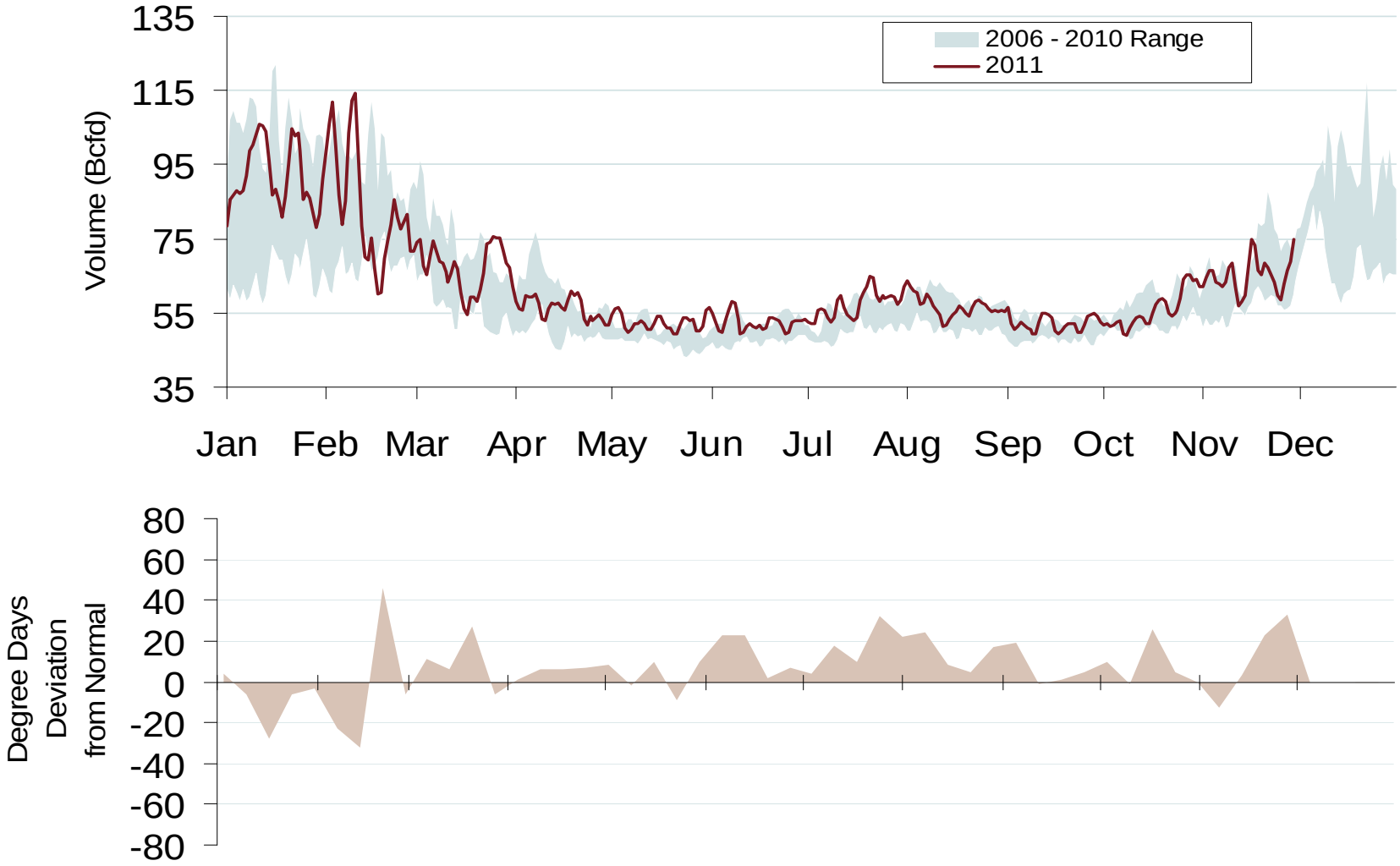
Source: Derived from *EIA Storage* and *Estimated Working Gas Capacity* data

December 2011 MidAtlantic Snapshot

Updated December 2, 2011

20022

Total U.S. Natural Gas Demand (All Sectors) and Temperatures



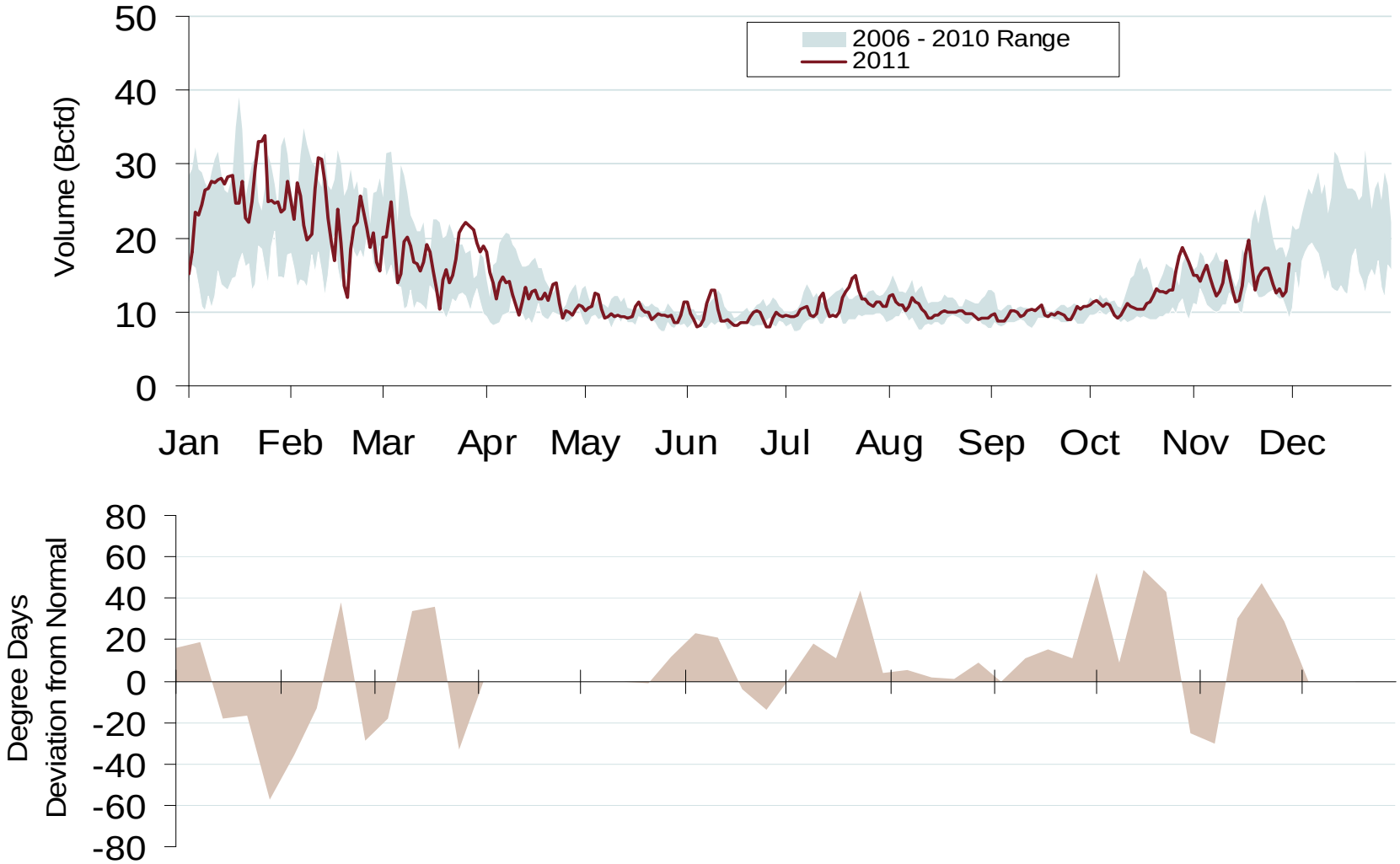
Source: Derived from *Bentek Energy* and *Weekly NOAA* data

December 2011 MidAtlantic Snapshot

Updated: December 06, 2011

20009

Daily Northeast Natural Gas Demand All Sectors



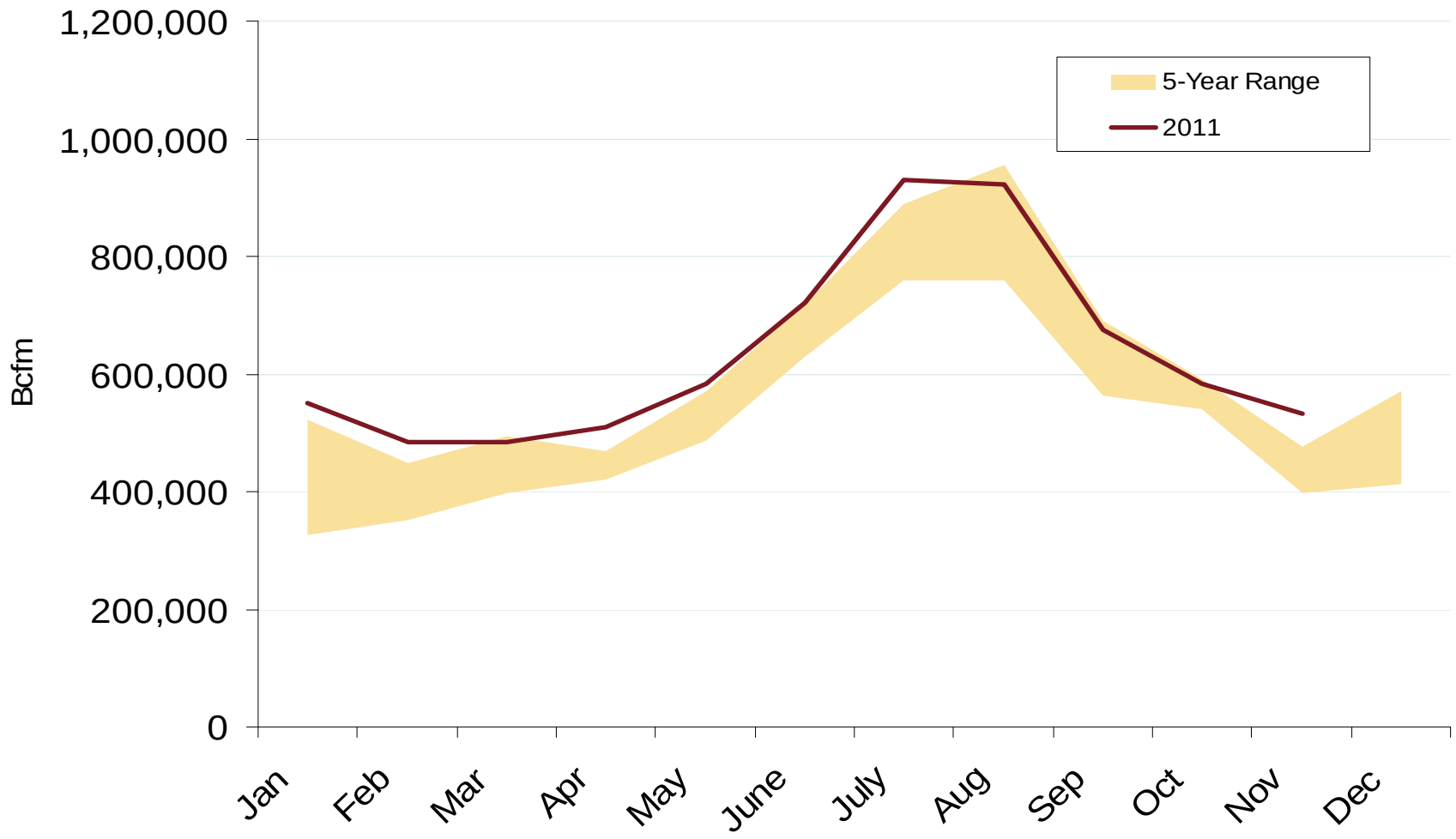
Source: Derived from *Bentek Energy* and Weekly *NOAA* data

December 2011 MidAtlantic Snapshot

Updated: December 06, 2011

22050

U.S. Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

20024

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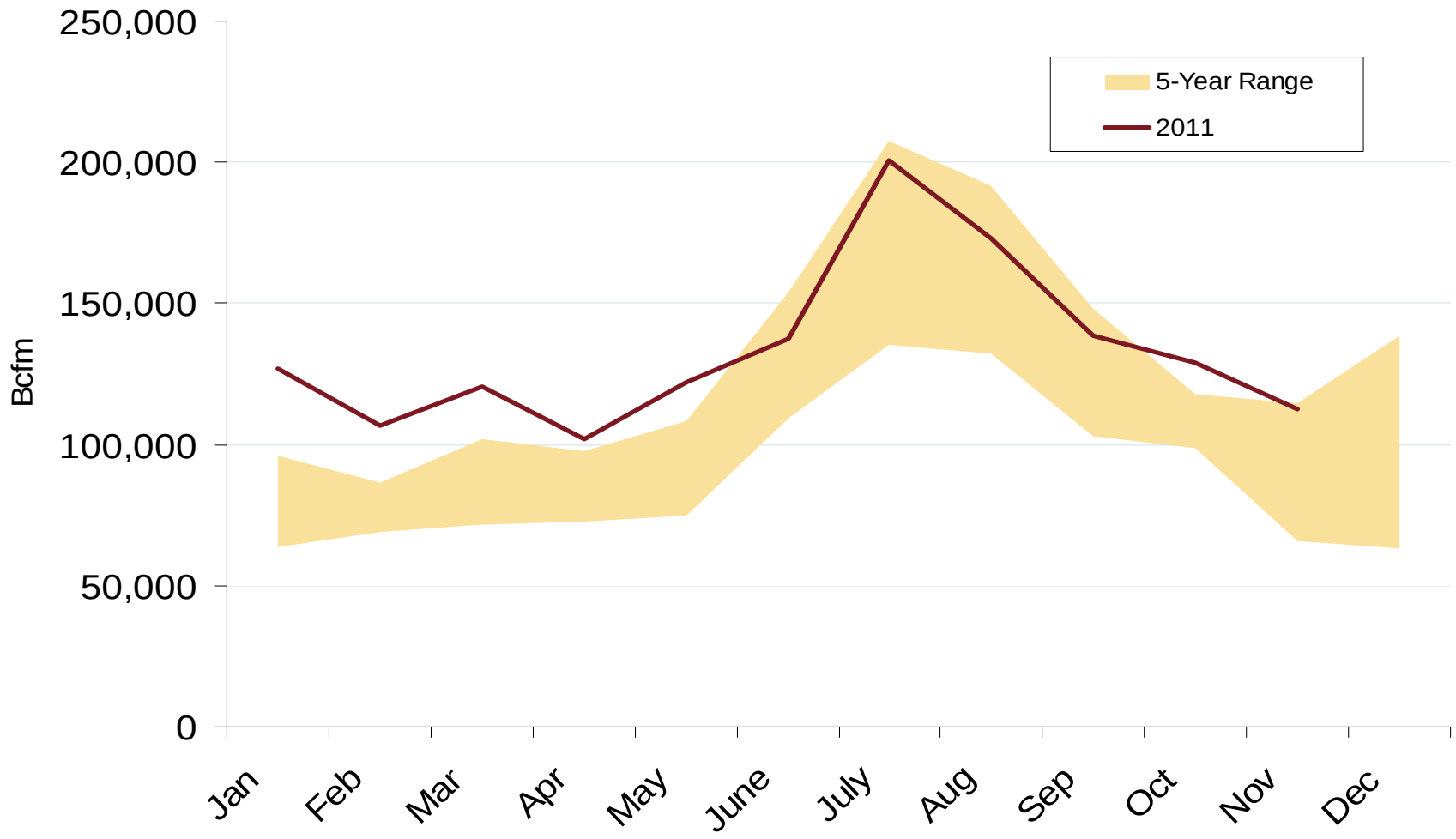
Northeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

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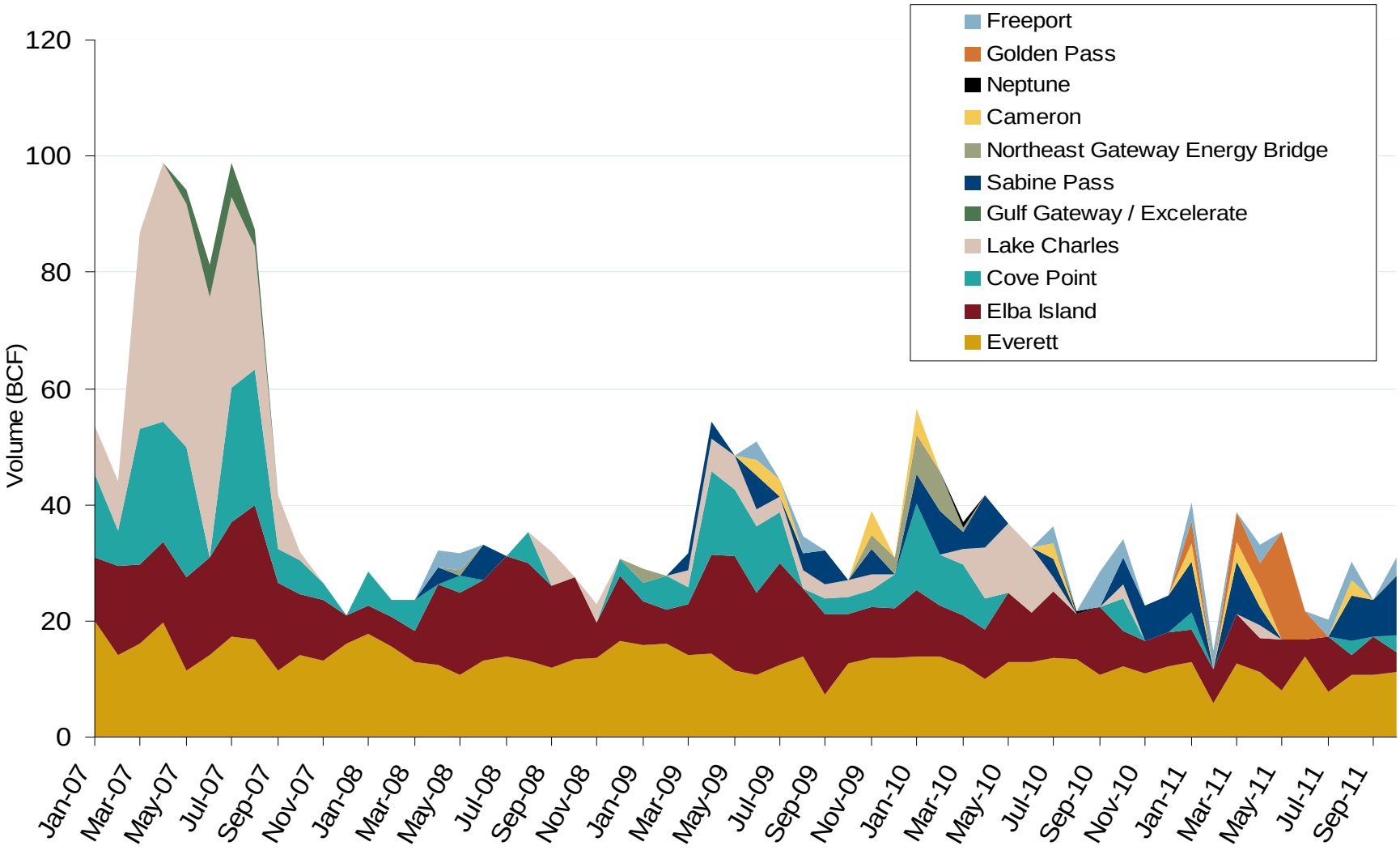
Monthly Gas Imports at Existing U.S. LNG Facilities

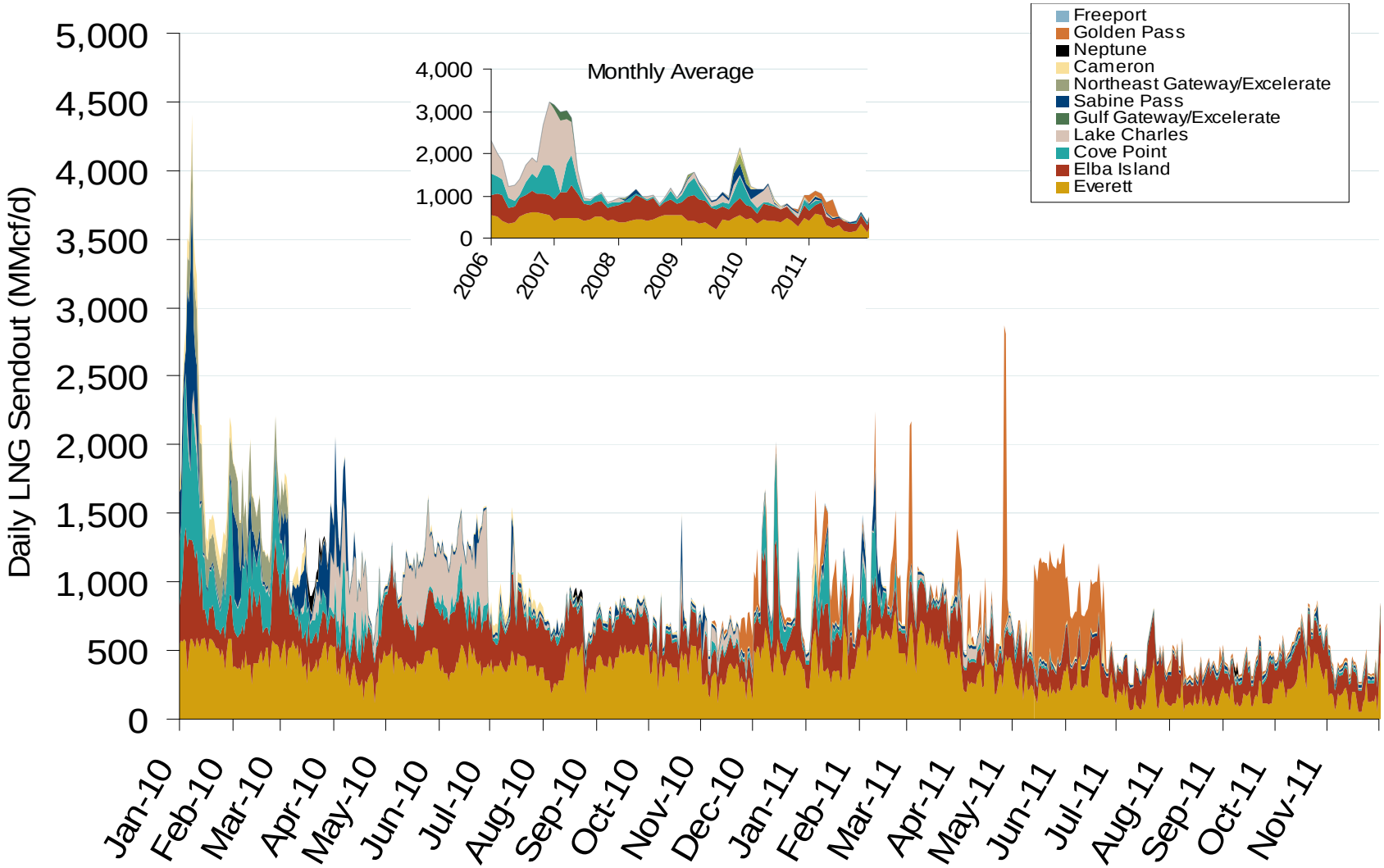


Source: Derived from *DOE Office of Fossil Energy* data

December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

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

Updated: December 02, 2011

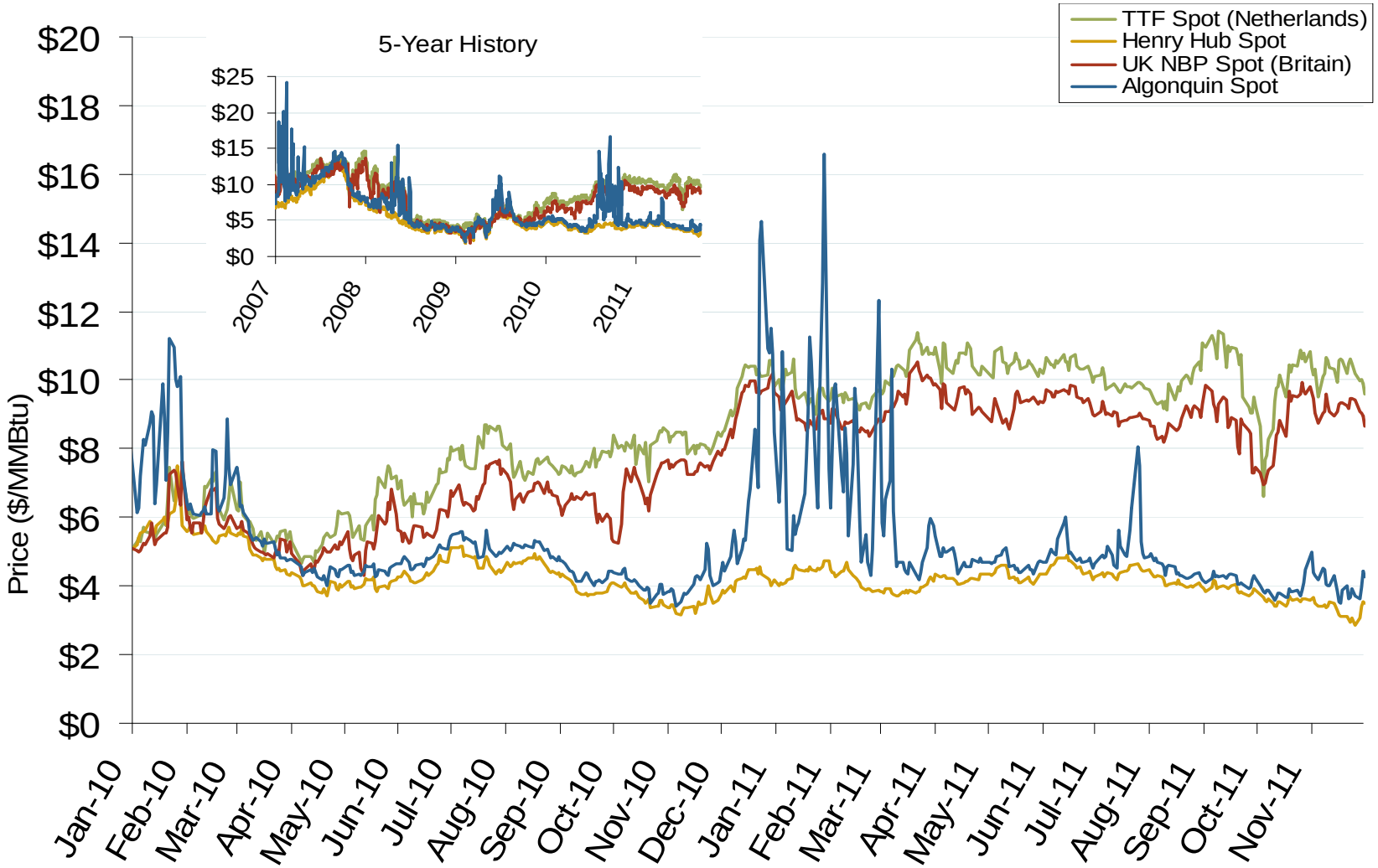
World LNG Estimated January 2012 Landed Prices

Source: *Waterborne Energy, Inc*. Data in $US/MMBtu

December 2011 MidAtlantic Snapshot

Updated December 2, 2011

Atlantic Basin European and US Spot Natural Gas Prices

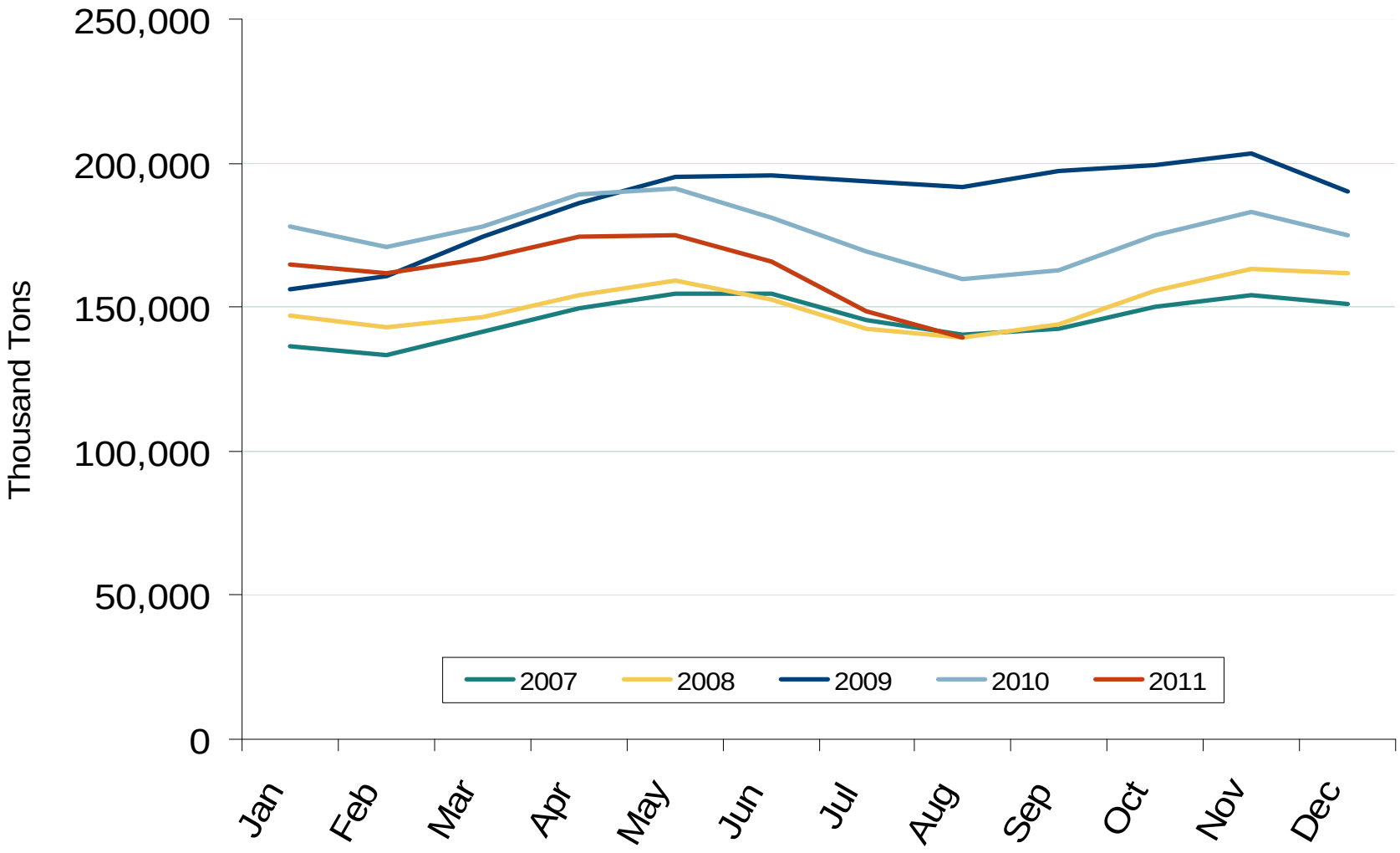


Source: Derived from *Bloomberg* and *ICE* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

U.S. Coal Stockpiles at Electric Power Generating Facilities



Source: Derived from *EIA* data. Excludes Industrial and Commercial Plants

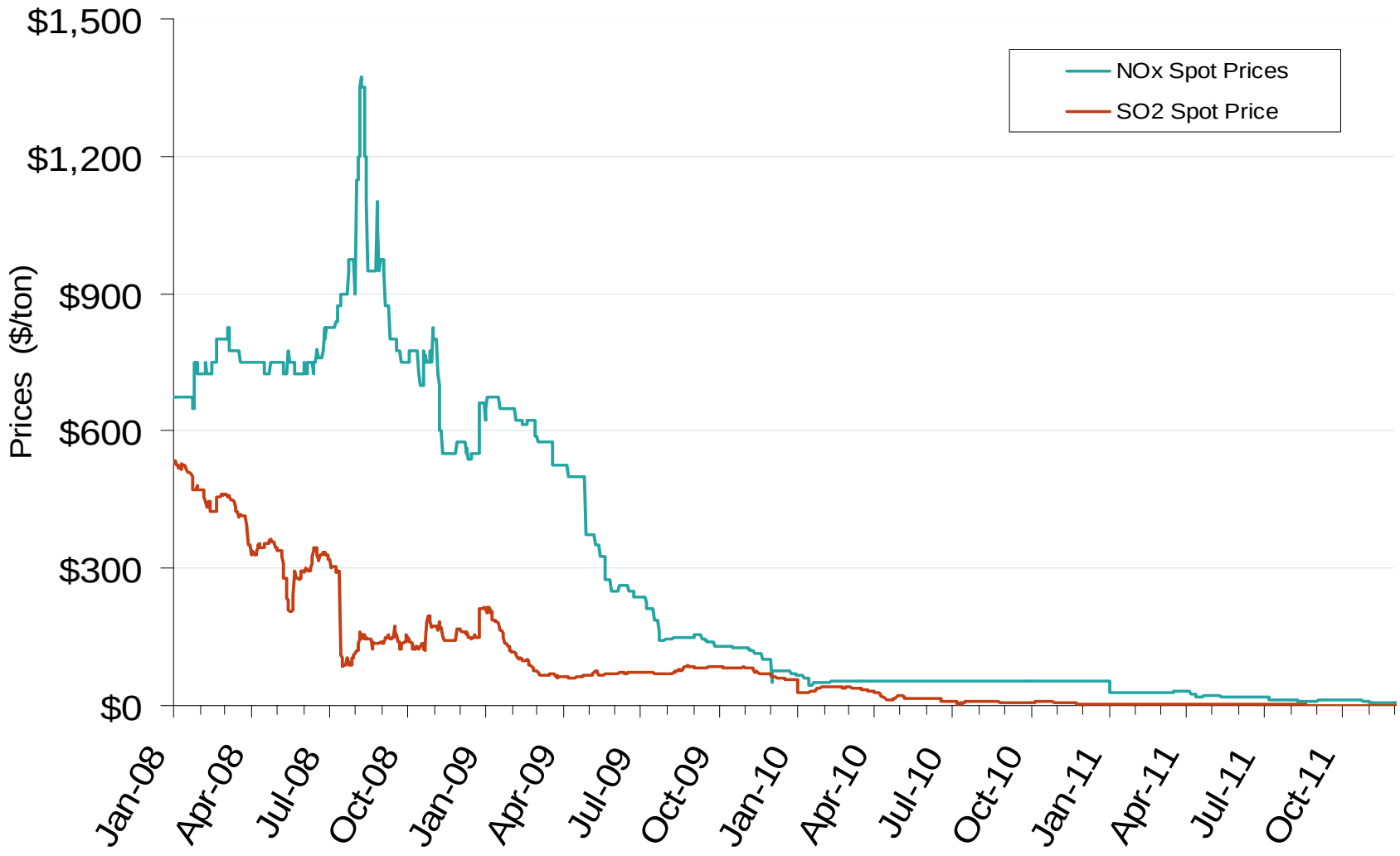
December 2011 MidAtlantic Snapshot

Updated: December 02, 2011

31000

Electricity Markets

SO2 Allowance Spot Prices and NOx Allowance Spot Prices



Source: Derived from *Bloomberg* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

PJM Electric Market: Last Month's RTO Prices

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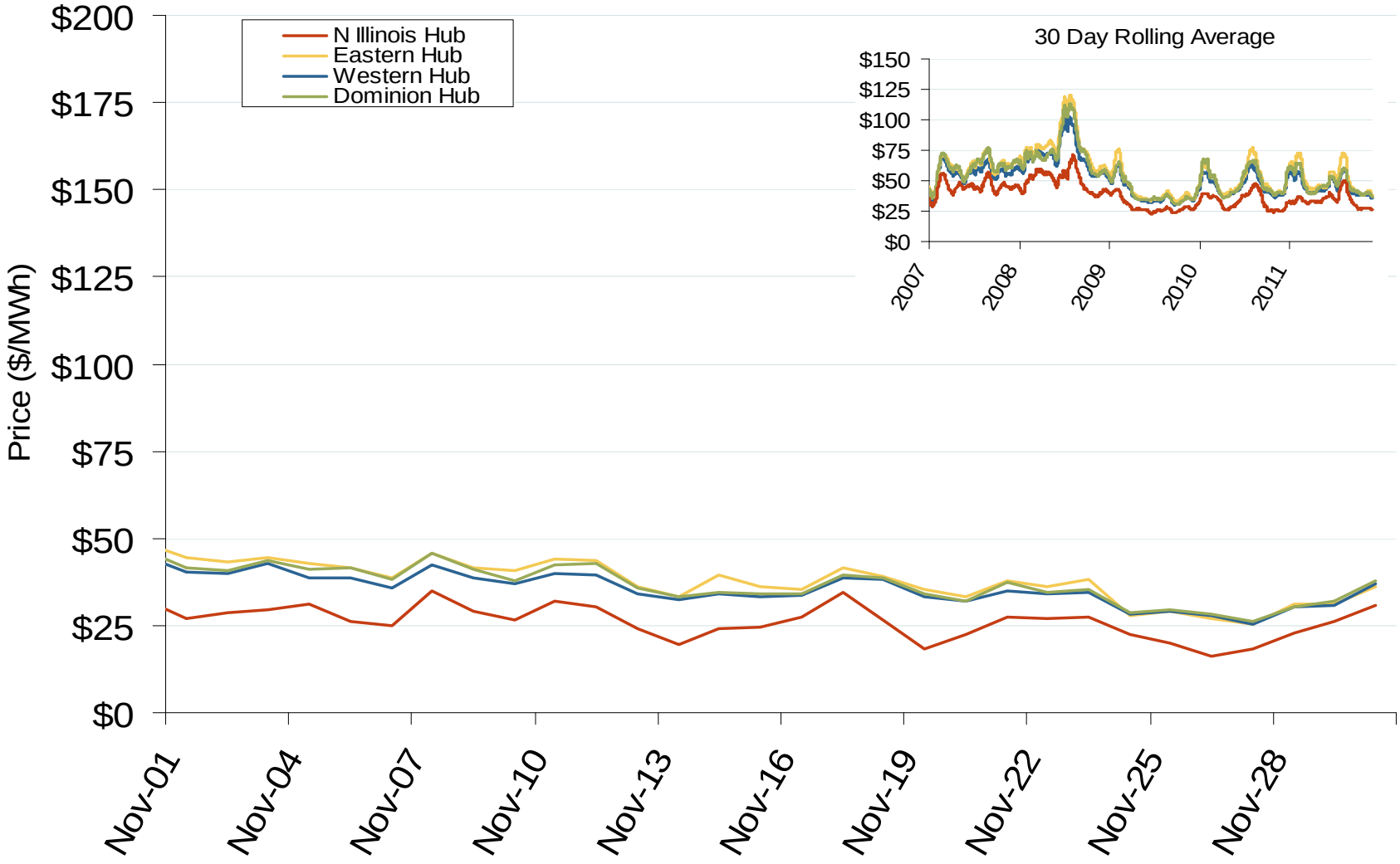
Daily Average of PJM Day-Ahead Prices - All Hours

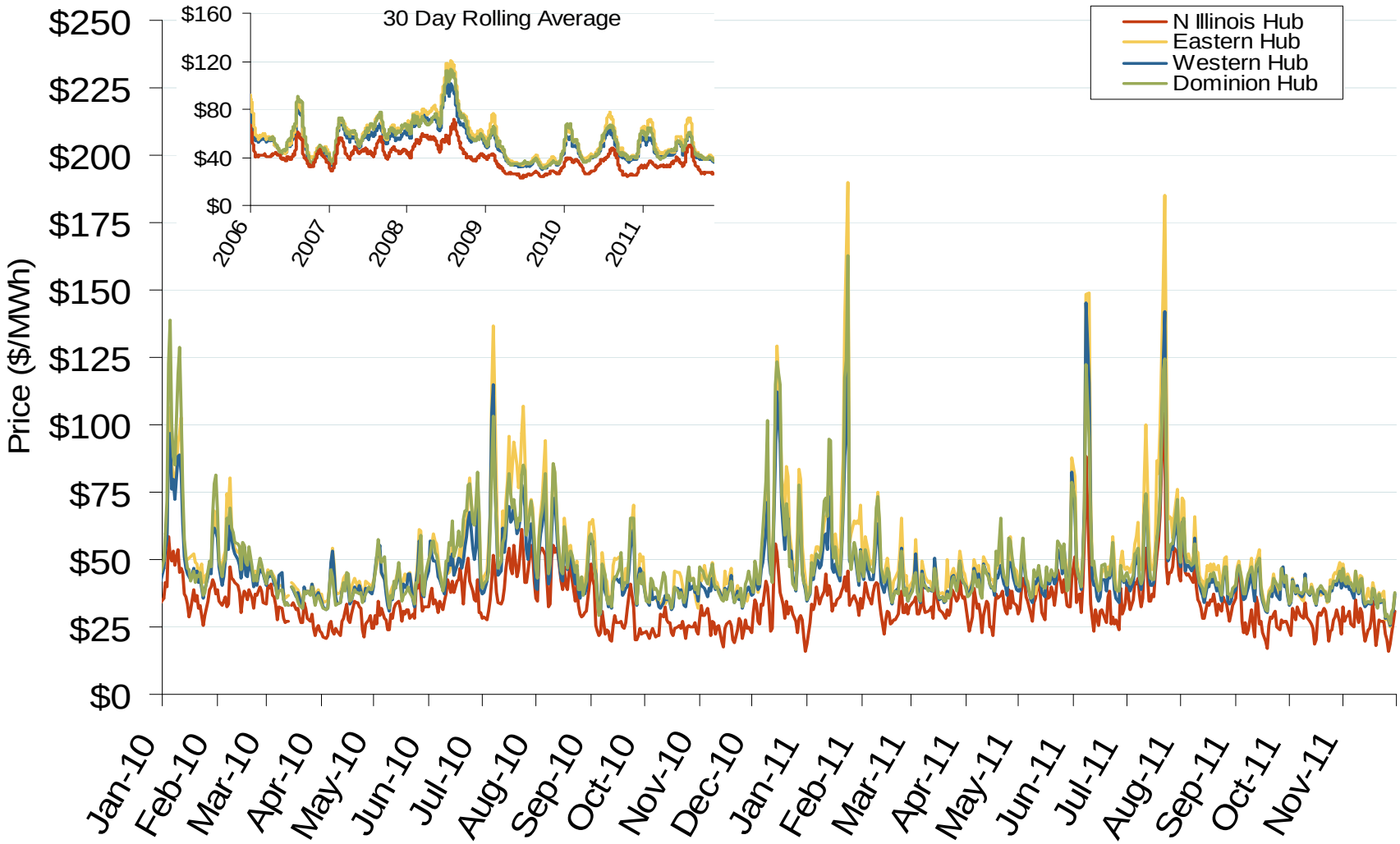


Source: Derived from *Bloomberg* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from *Bloomberg* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

PJM Electric Market: Last Month's Eastern Bilateral Prices

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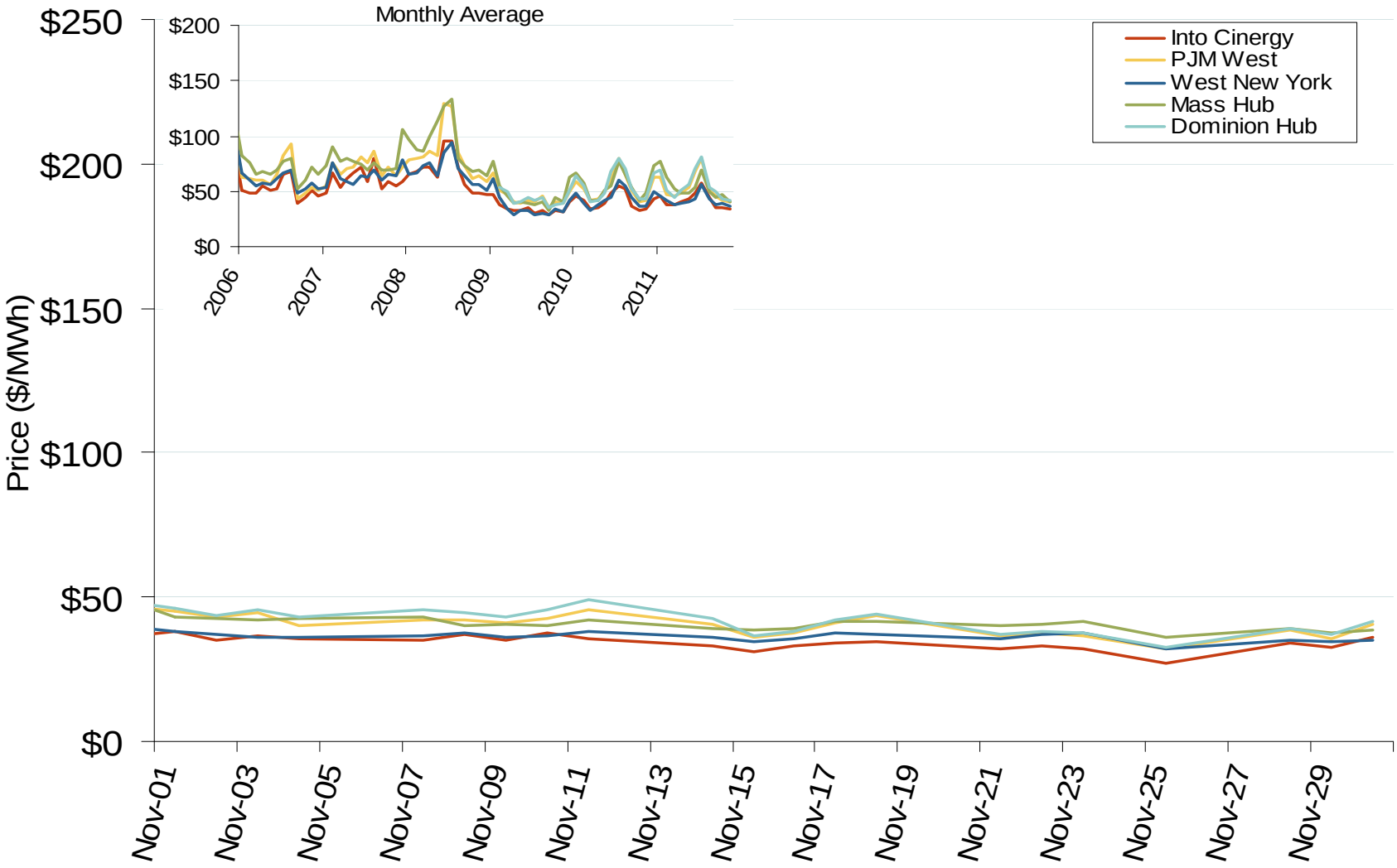
Eastern Daily Bilateral Day-Ahead On-Peak Prices



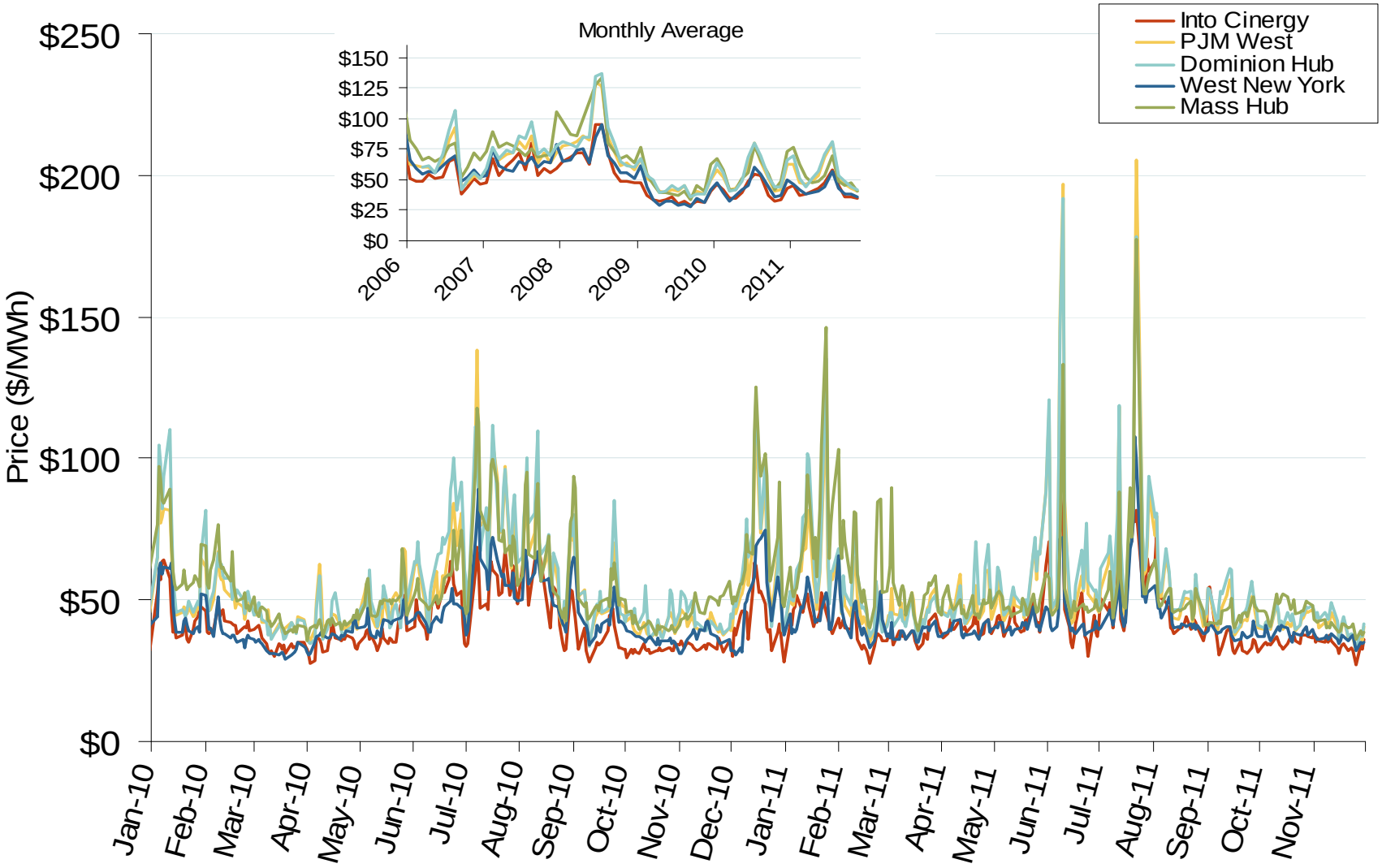
Source: Derived from *Platts* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

13562

Eastern Daily Bilateral Day-Ahead On-Peak Prices

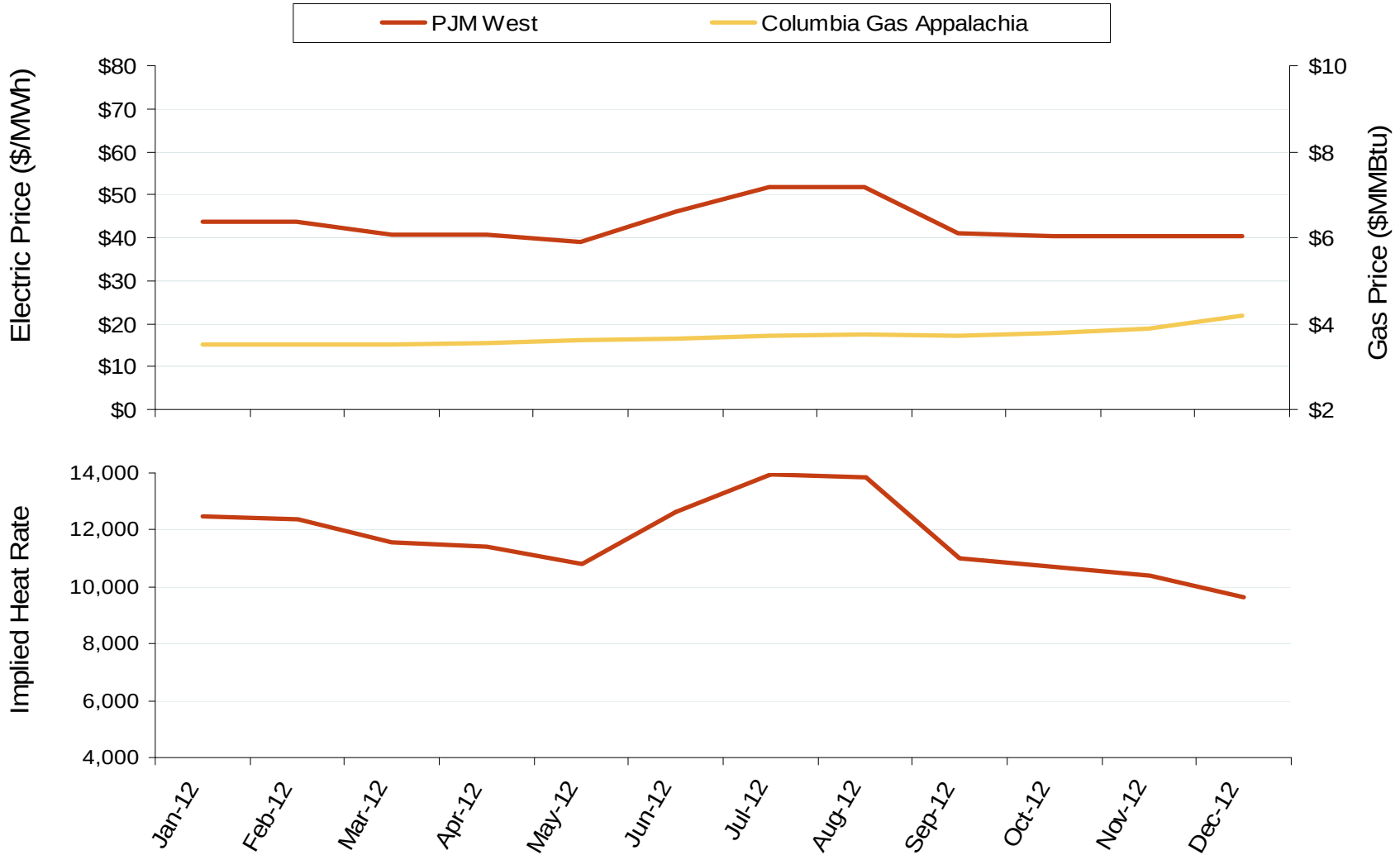


Source: Derived from *Platts* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

PJM West Electric Forward Price Curves and Implied Heat Rates

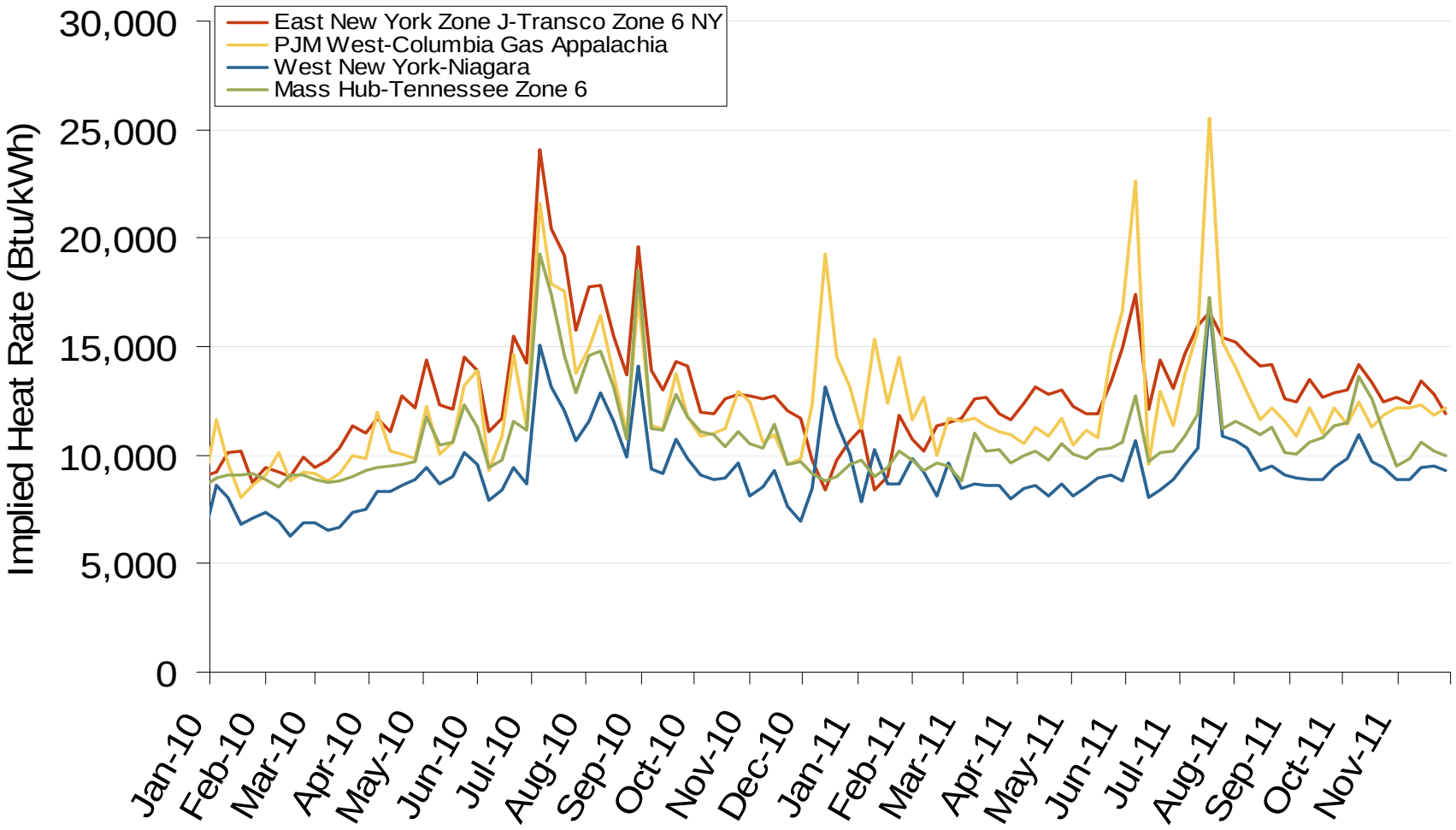


Source: Derived from *Nymex* data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

Implied Heat Rates at Eastern Trading Points - Weekly Avgs.

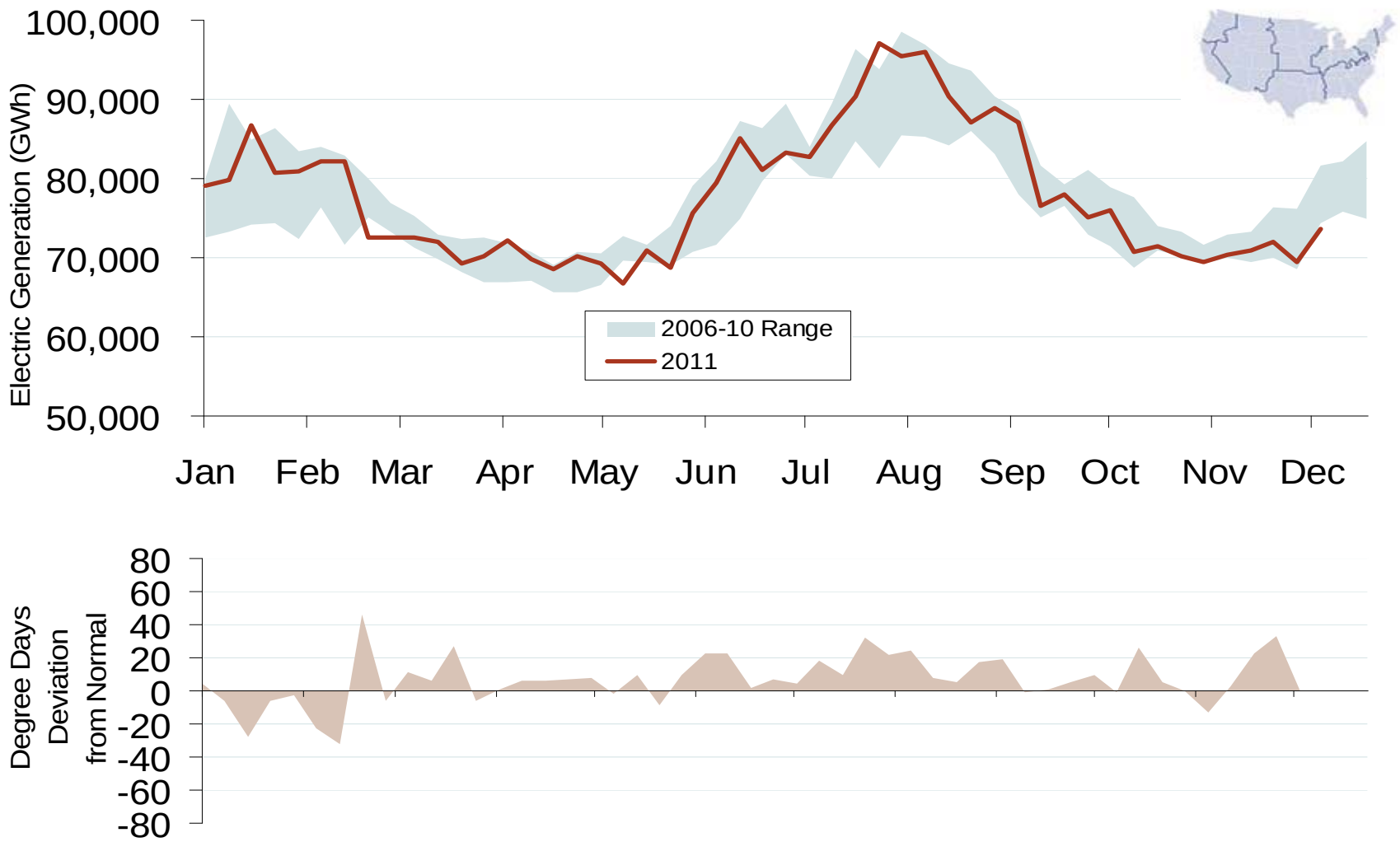


Source: Derived from *Platts* on-peak electric and natural gas price data

December 2011 MidAtlantic Snapshot

Updated: December 05, 2011

Weekly U.S. Electric Generation Output and Temperatures

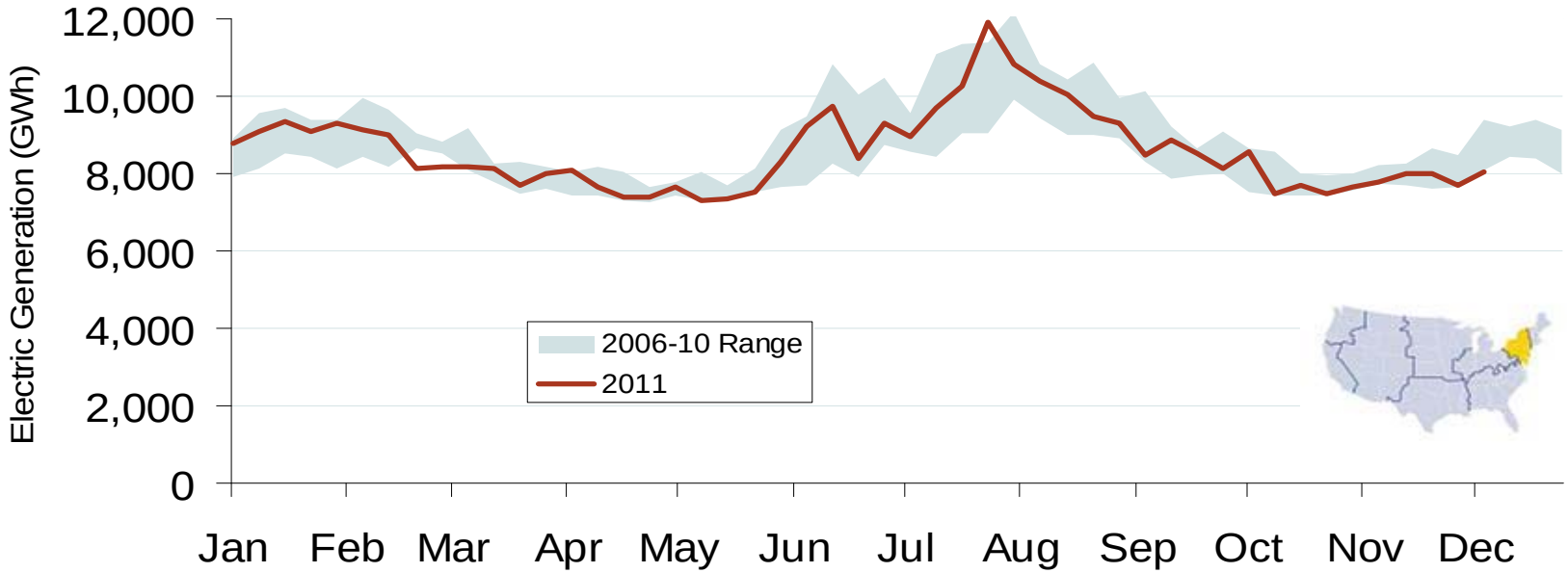


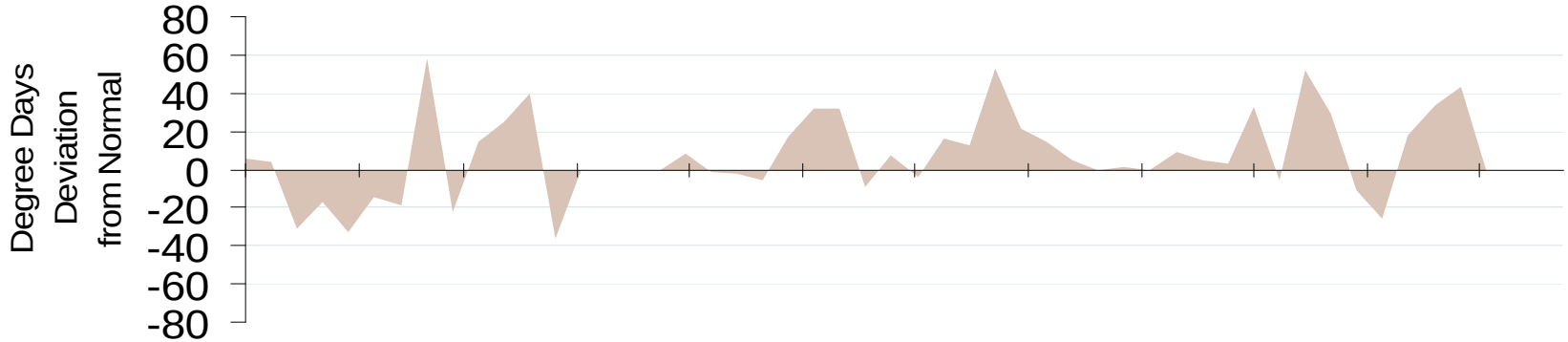
Source: Derived from *EEI* and *NOAA* data

December 2011 MidAtlantic Snapshot

Updated: December 07, 2011

Weekly Power Generation & Temps. - Mid Atlantic



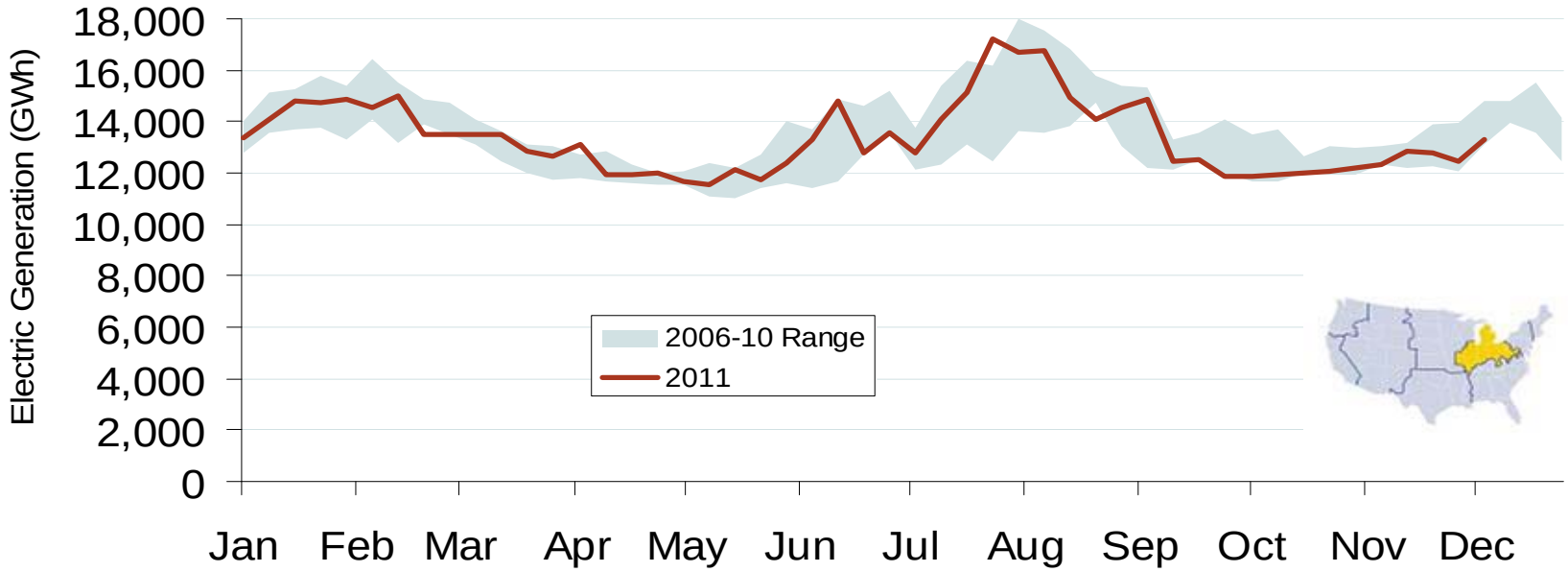


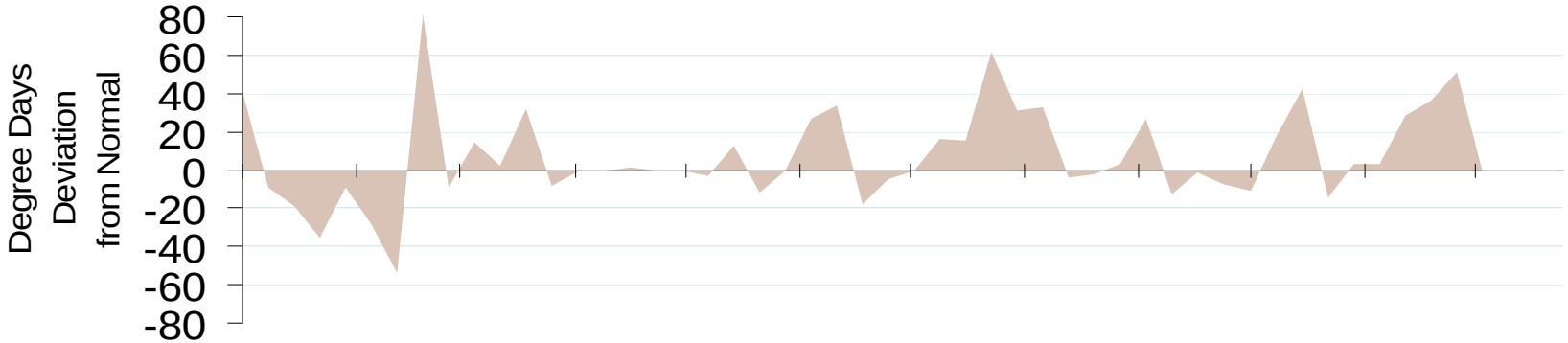
Source: Derived from *EEI* and *NOAA* data

December 2011 MidAtlantic Snapshot

Updated: December 07, 2011

Weekly Power Generation & Temps. - Central Industrial Region





Source: Derived from *EEI* and *NOAA* data

December 2011 MidAtlantic Snapshot

Updated: December 07, 2011