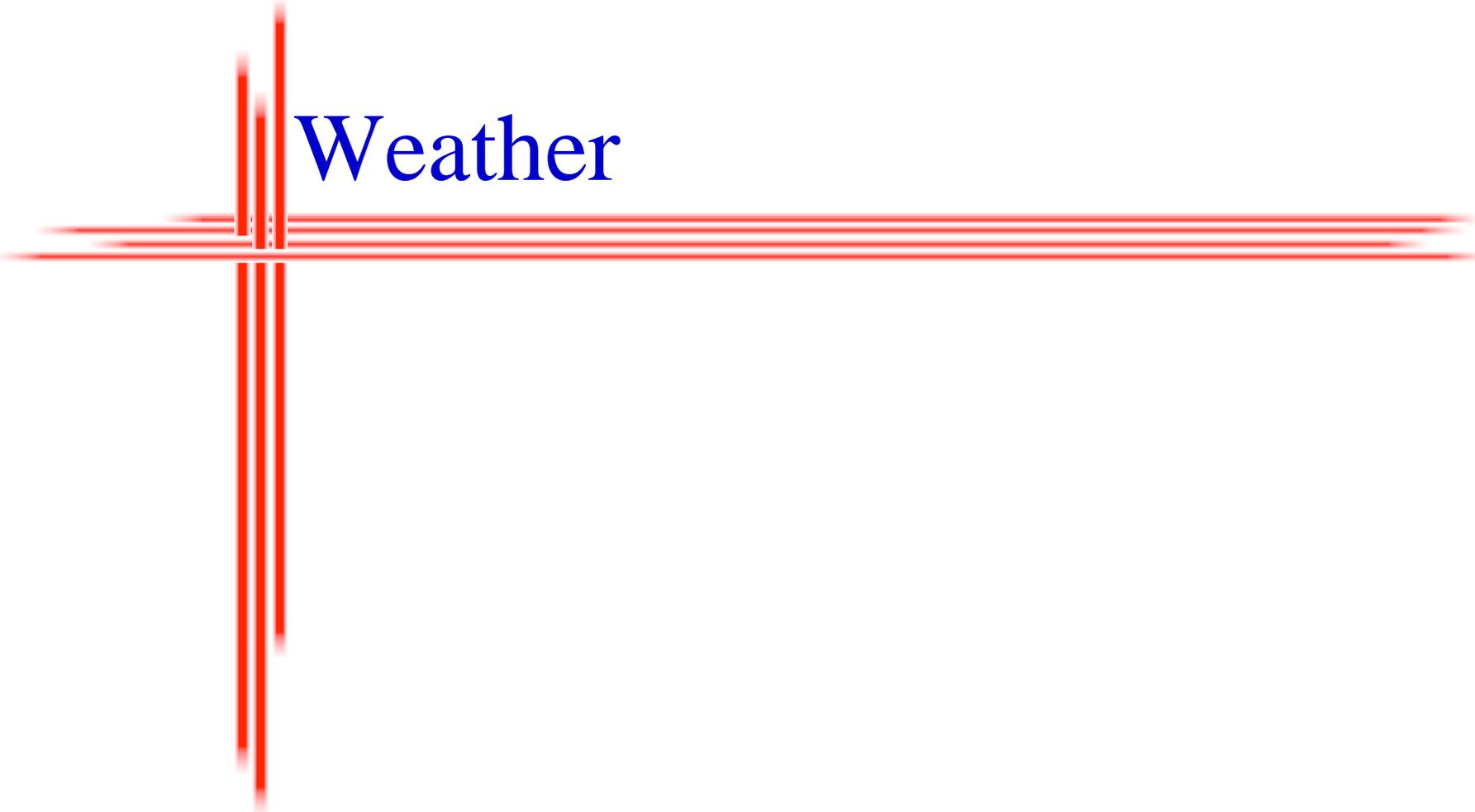


# **OE ENERGY MARKET SNAPSHOT**

## **Mid-Atlantic States Version – December 2011 Data**

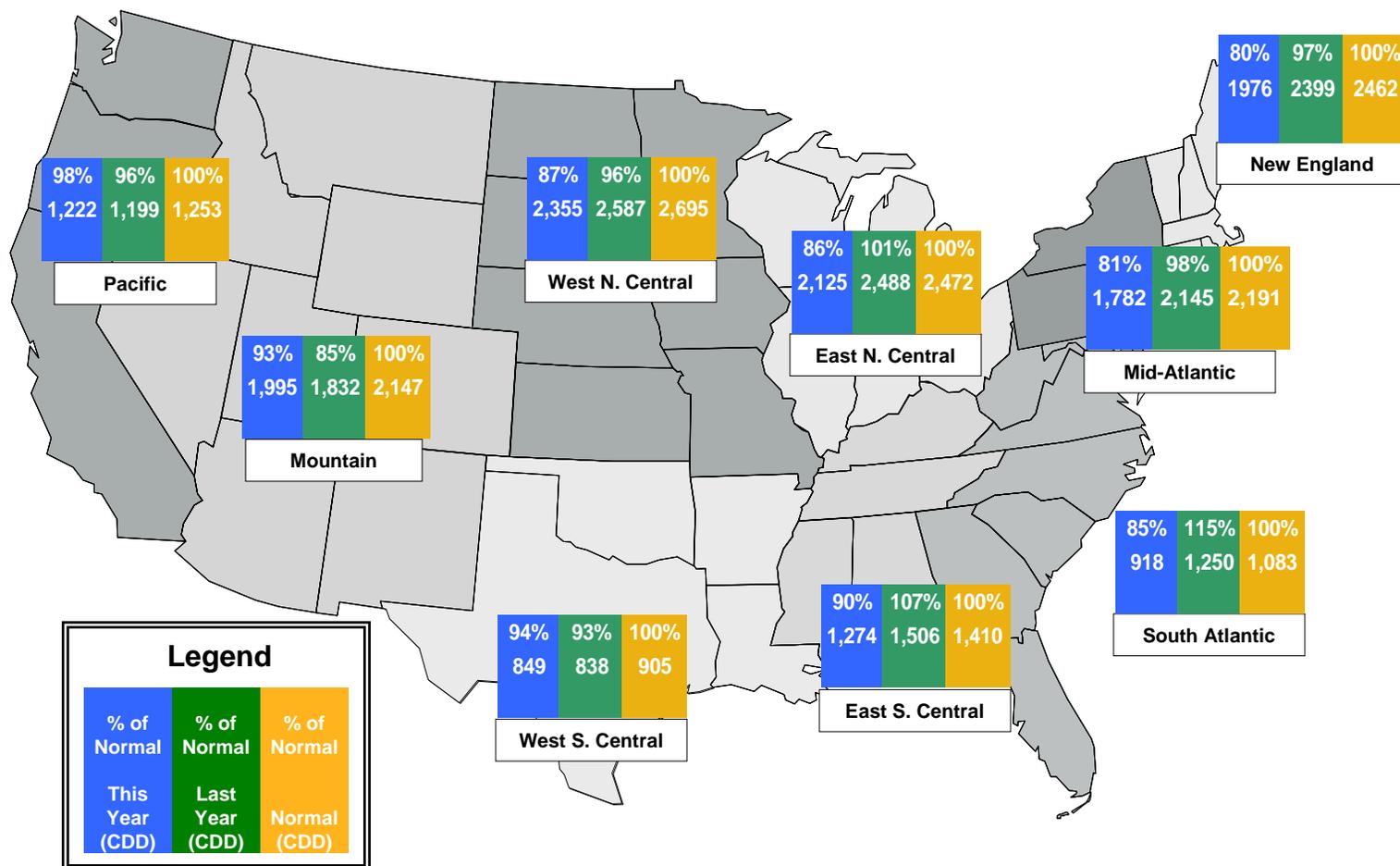
---

Office of Enforcement  
Federal Energy Regulatory Commission  
January 2012



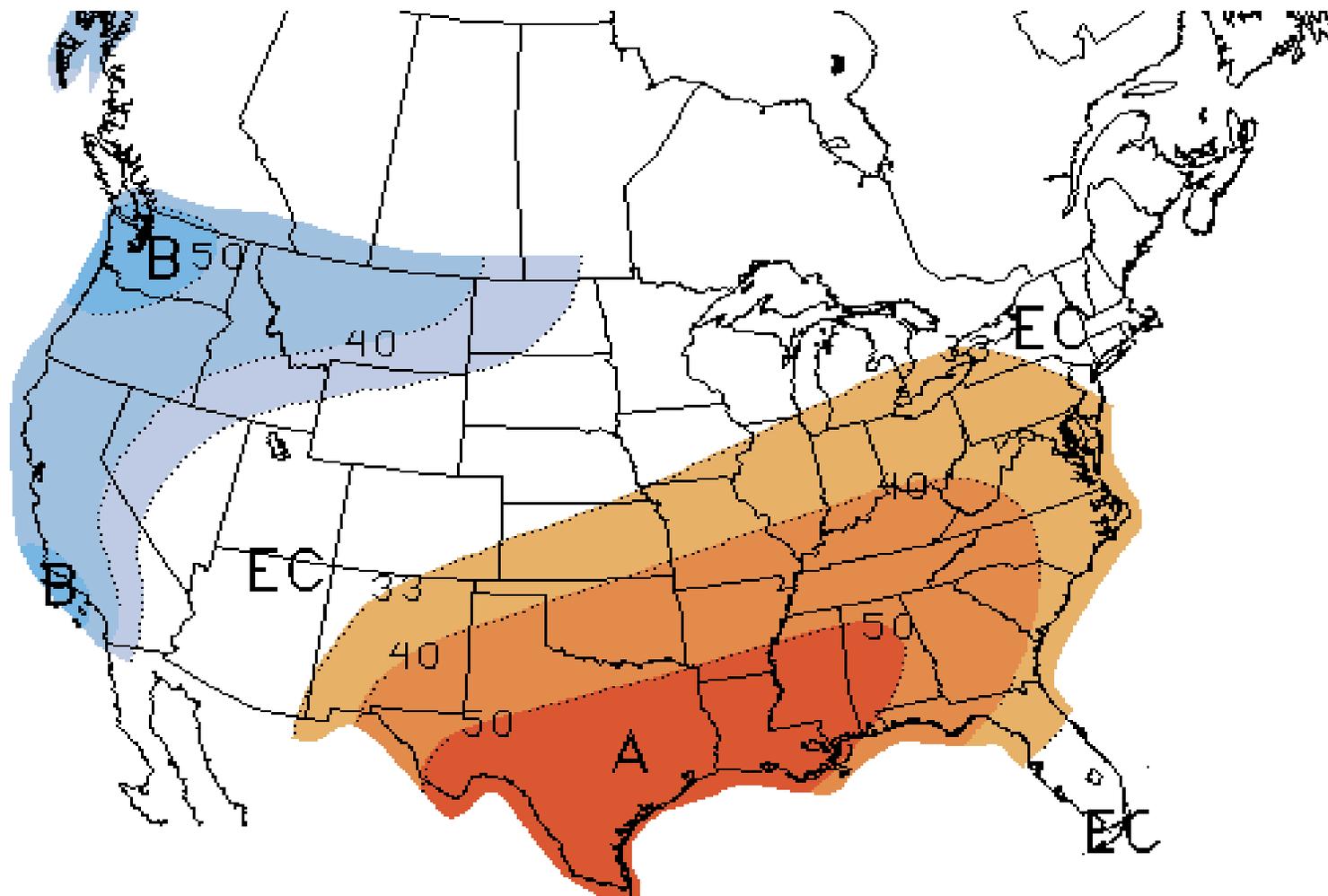
# Weather

## Regional Heating Degree Days – July 2011 to December 2011



Source: Derived from NOAA data. Normal is based on a 30-year average of heating degree day data.  
 January 2012 MidAtlantic Snapshot

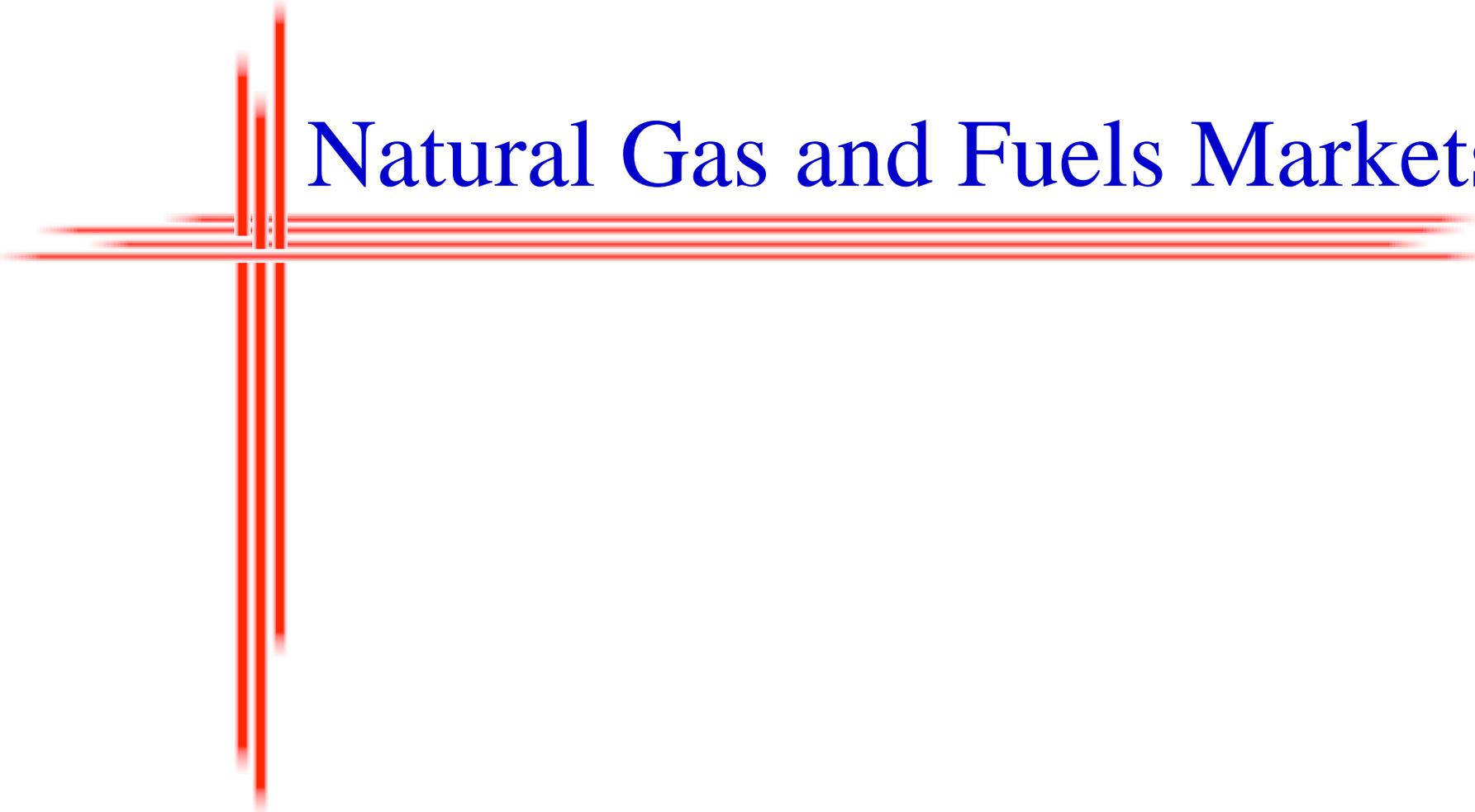
## NOAA's 3 Month Temperature Forecast Made December 15, 2011, Valid for January 2012 – March 2012



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: January 3, 2012

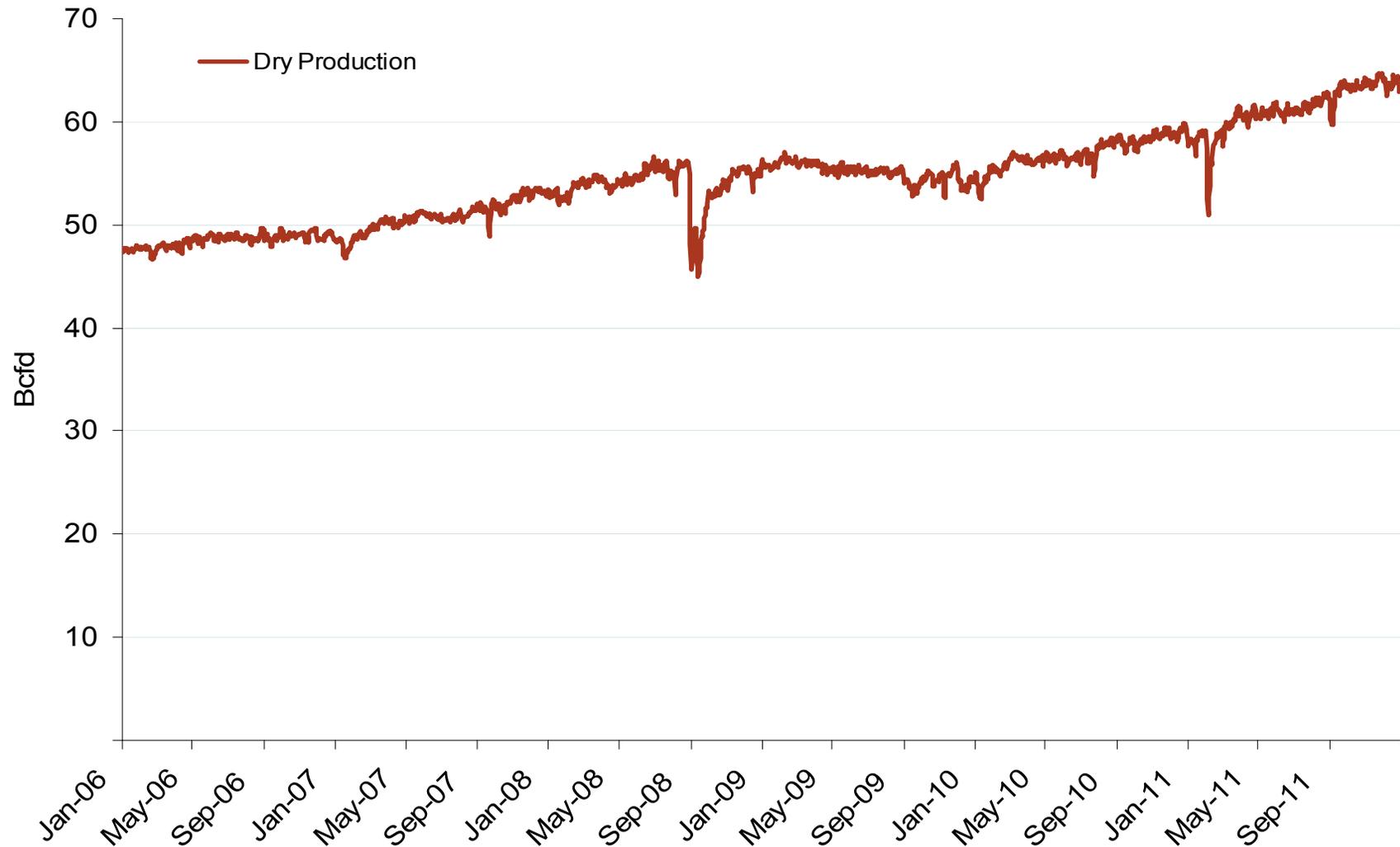


# Natural Gas and Fuels Markets

## January Monthly Settlement Prices

| <b>Monthly prices decline everywhere outside of the Northeast</b> |                                   |                                       |                                      |
|---|-----------------------------------|---------------------------------------|--------------------------------------|
| <b>Locations</b>  | <b>Bidweek<br/>Jan -<br/>2012</b> | <b>Change<br/>from last<br/>month</b> | <b>Change<br/>from last<br/>year</b> |
| <b>Boston</b>   | \$5.29                            | \$2.71                                | -\$2.32                              |
| <b>Chicago</b>  | \$3.31                            | -\$0.41                               | -\$1.08                              |
| <b>Houston</b>  | \$2.99                            | -\$0.29                               | -\$1.09                              |
| <b>New York city</b>  | \$5.22                            | \$2.76                                | -\$3.73                              |
| <b>Northern California</b>  | \$3.43                            | -\$0.44                               | -\$0.83                              |
| <b>Rockies</b>  | \$3.01                            | -\$0.36                               | -\$0.86                              |
| <b>Southern California</b>  | \$3.38                            | -\$0.29                               | -\$0.69                              |
| <b>NYMEX Prompt Month (Henry Hub)</b>                             | <b>\$3.08</b>                     | <b>-\$0.28</b>                        | <b>-\$1.31</b>                       |

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



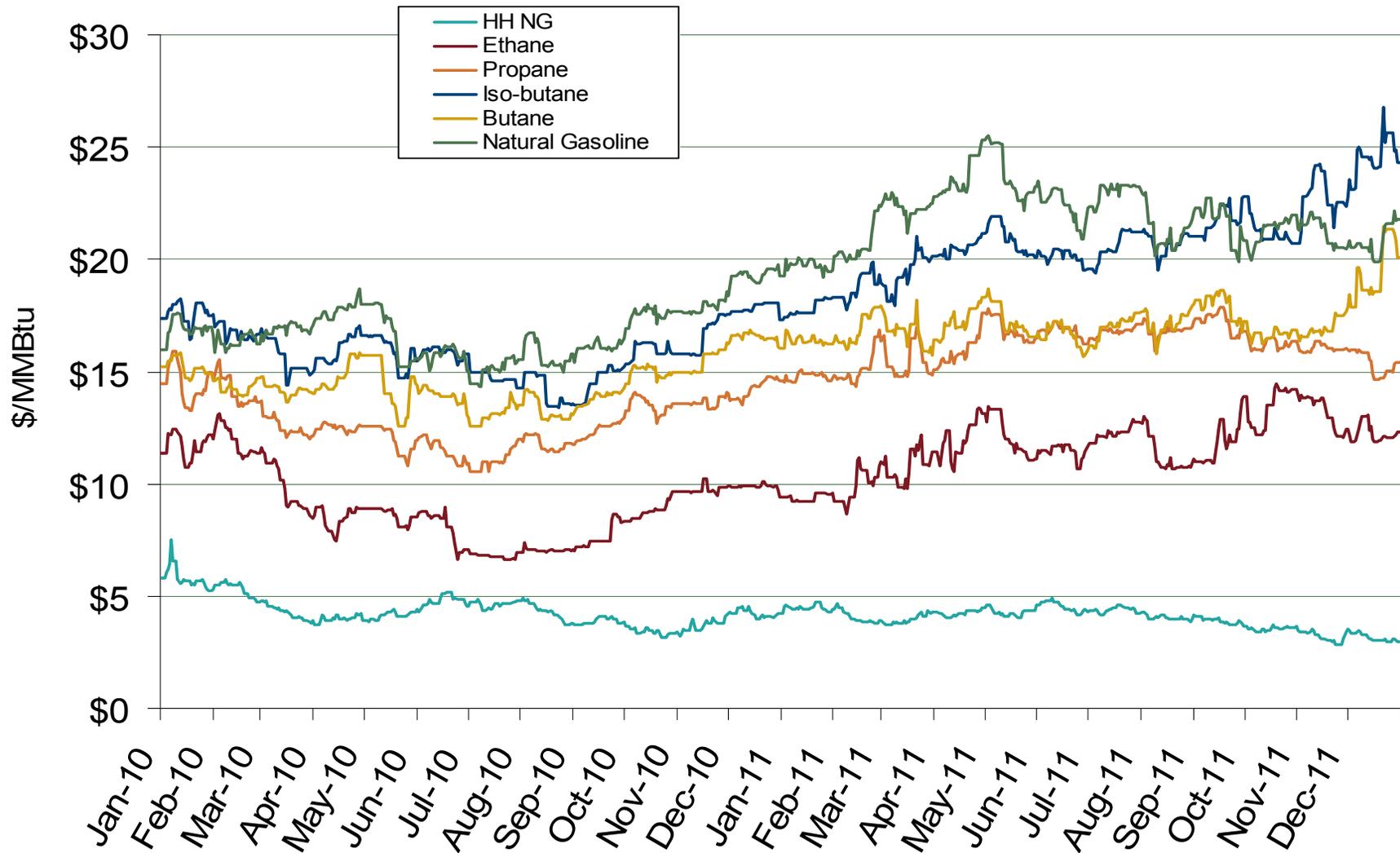
Note: Prior to July 2010, chart was derived from a combination of *EIA* and *Bentek Energy* data

Source: Derived from *Bentek Energy* data

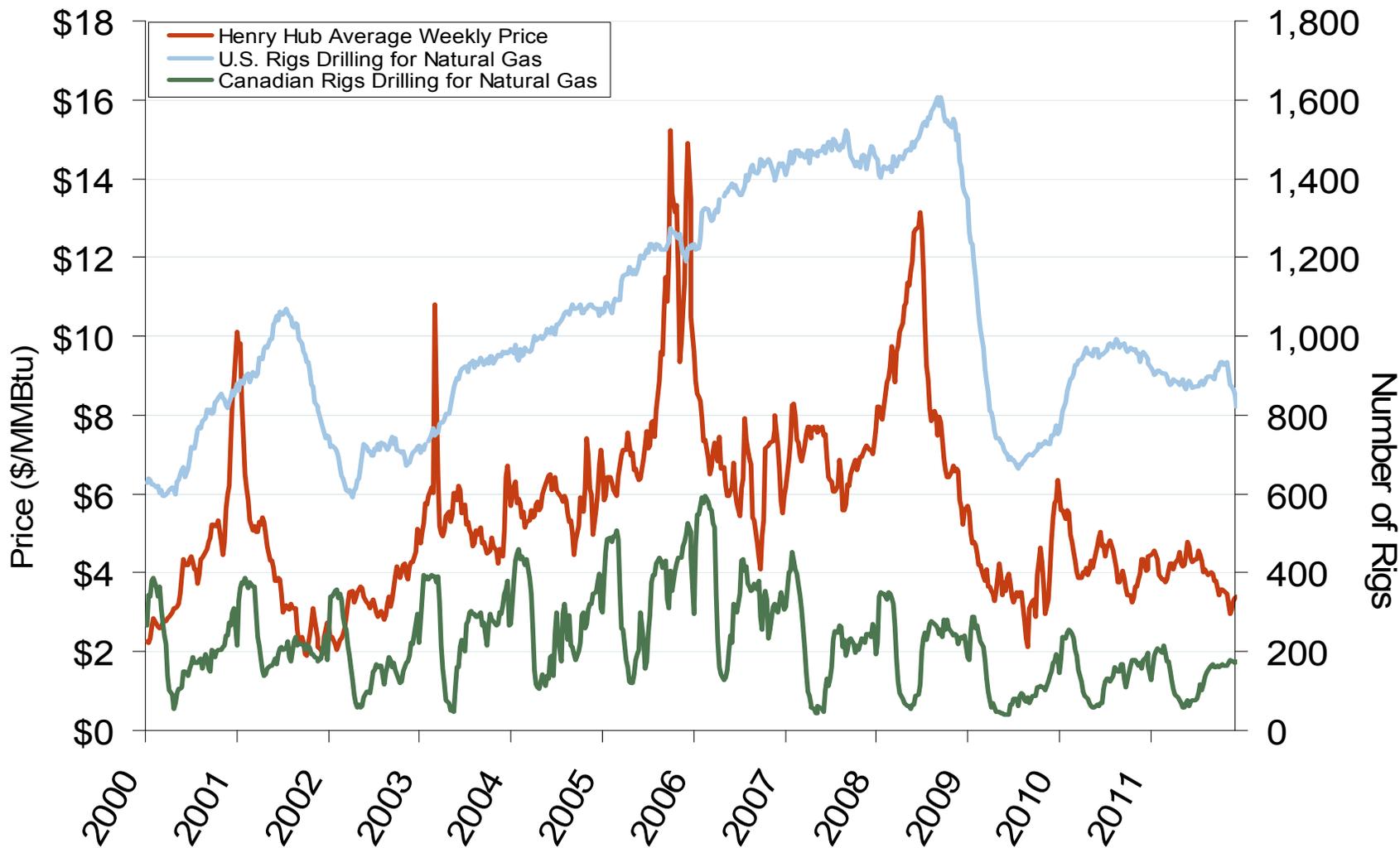
January 2012 MidAtlantic Snapshot

Updated: January 09, 2012

## U.S. Natural Gas vs. Natural Gas Liquids (NGL) Prices



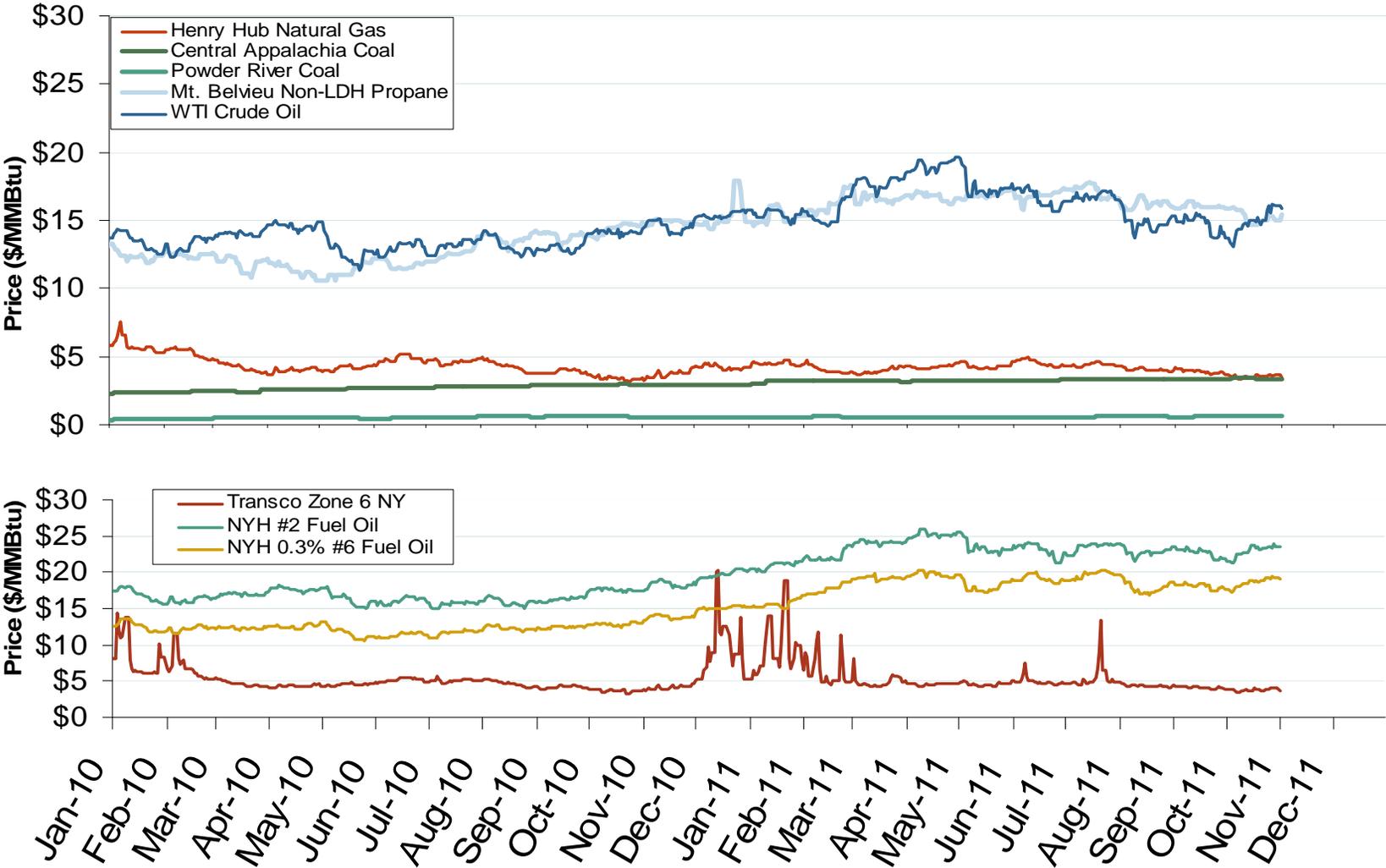
## U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Other Fuels Market: Fossil Fuel Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

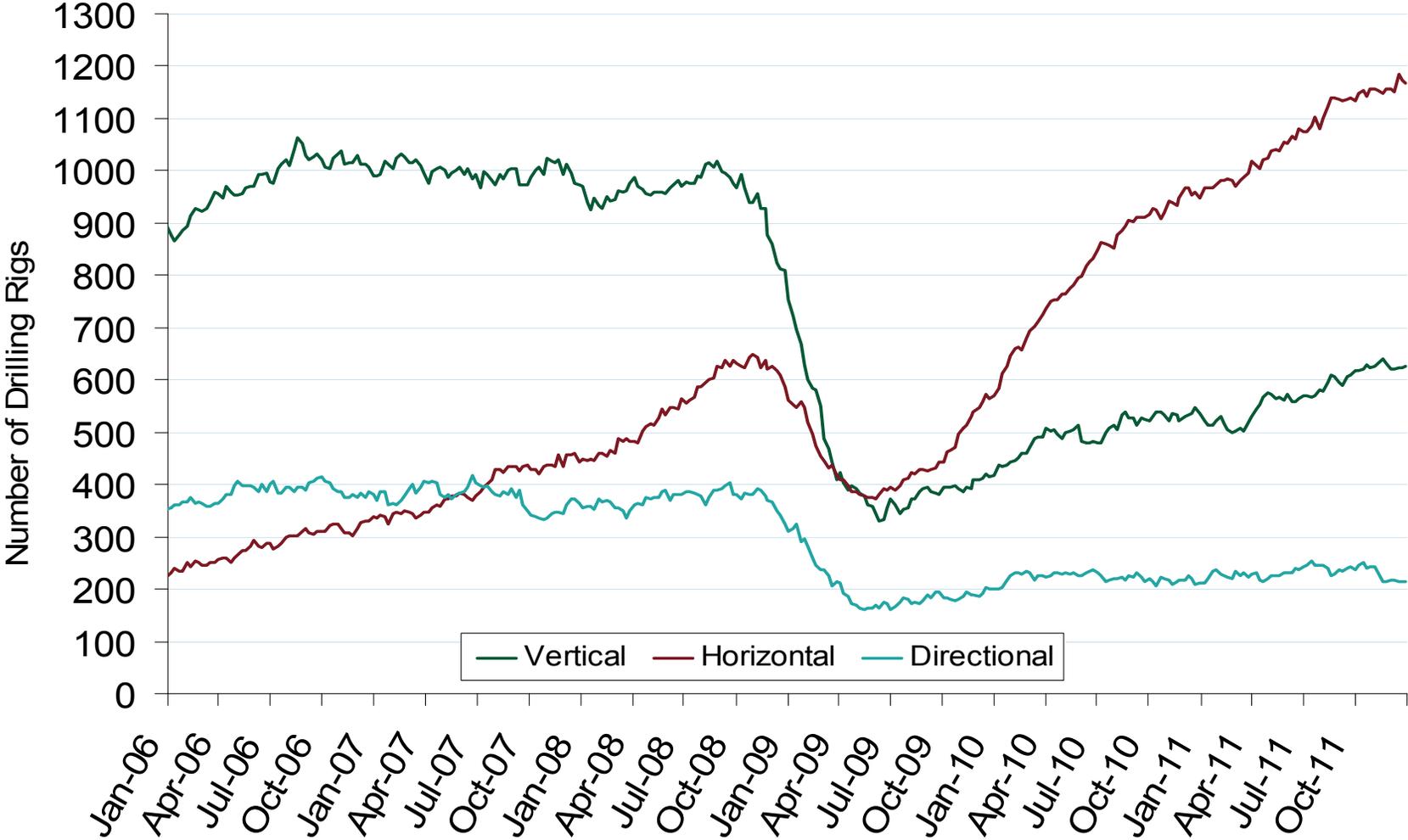
# Oil, Coal, Natural Gas and Propane Daily Spot Prices



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

# U.S. Oil and Natural Gas Drilling Rig Count by Type



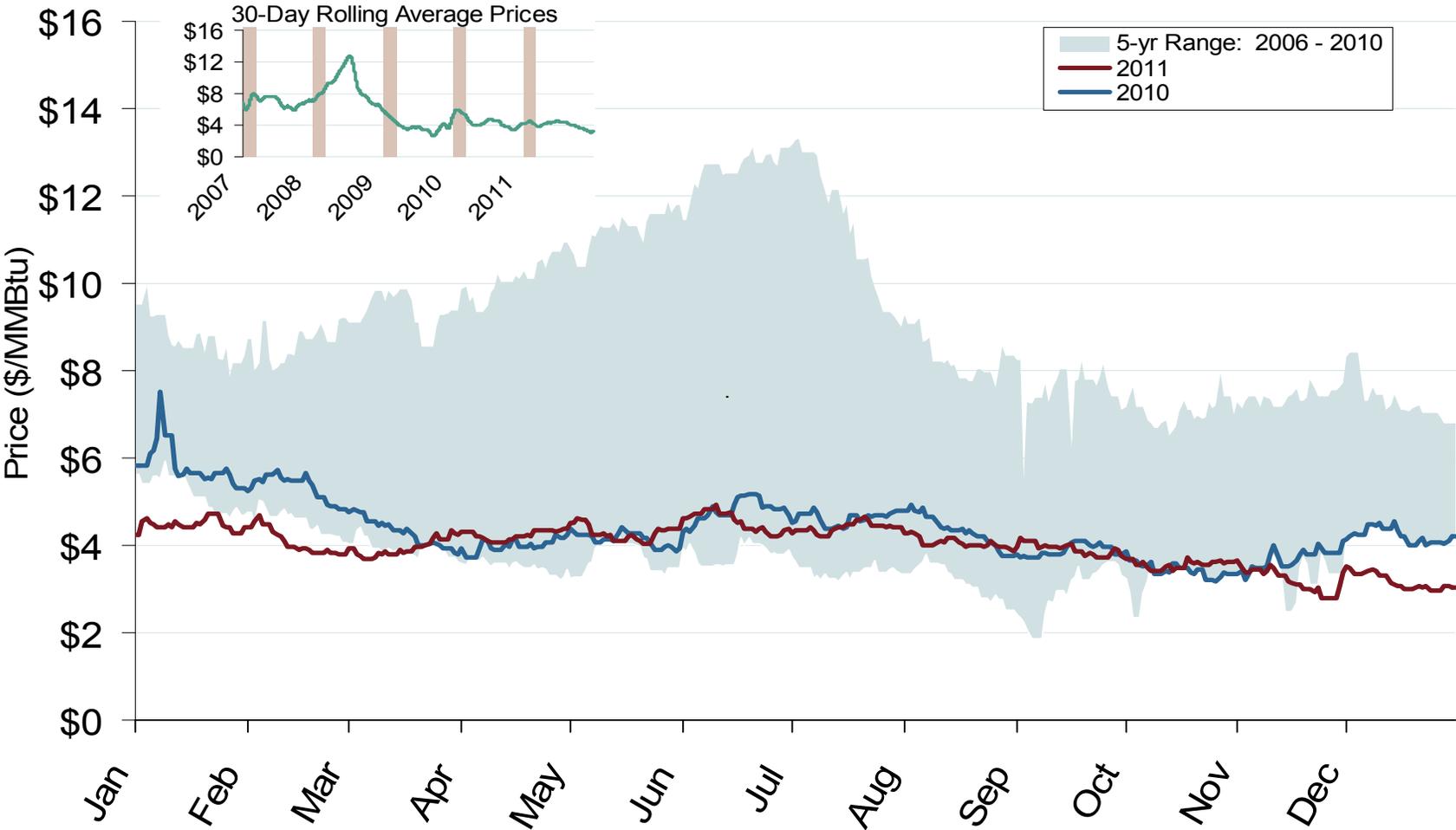
Source: Derived from *Platts* and *Baker Hughes* data  
January 2012 MidAtlantic Snapshot

Updated: January 03, 2012

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

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

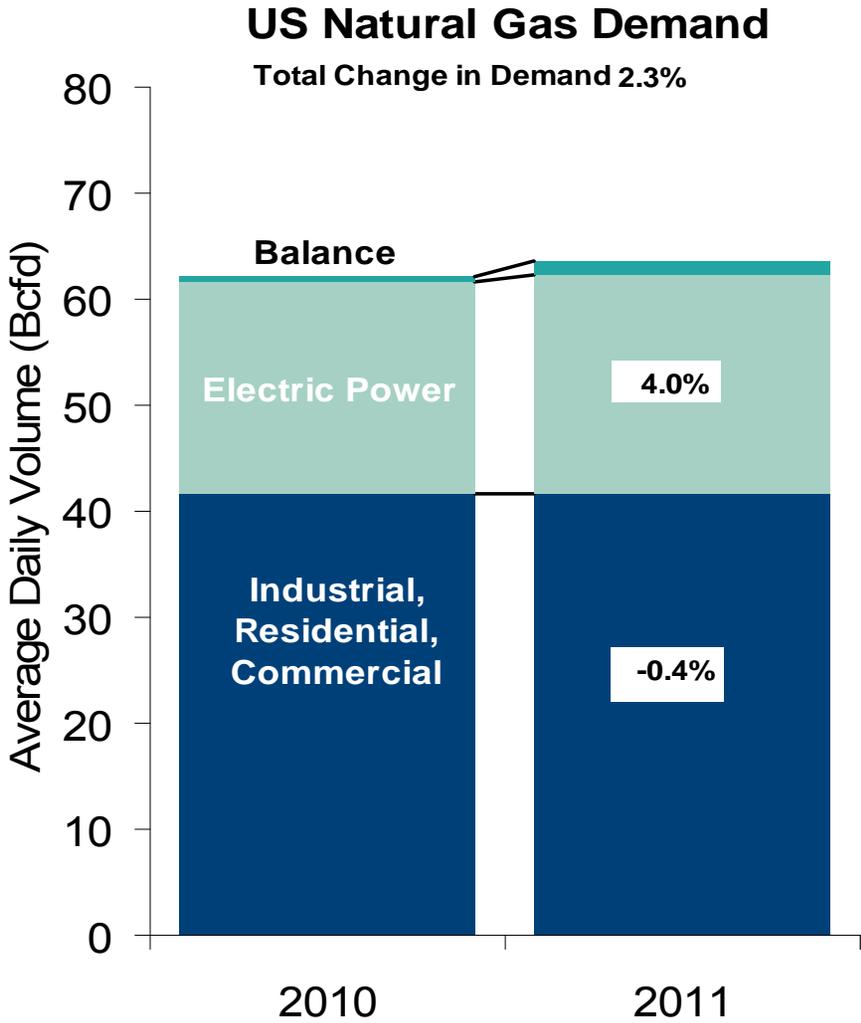
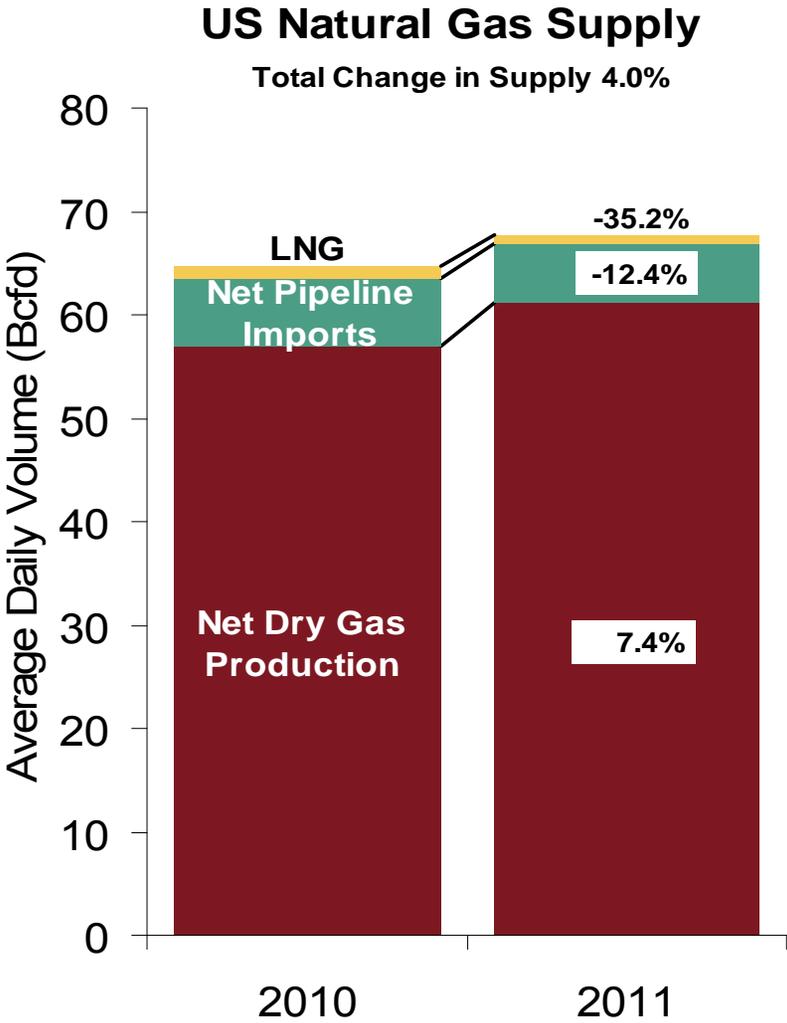
# Henry Hub Natural Gas Daily Spot Prices



Source: Derived from Platts data  
January 2012 MidAtlantic Snapshot

Updated: January 03, 2012

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

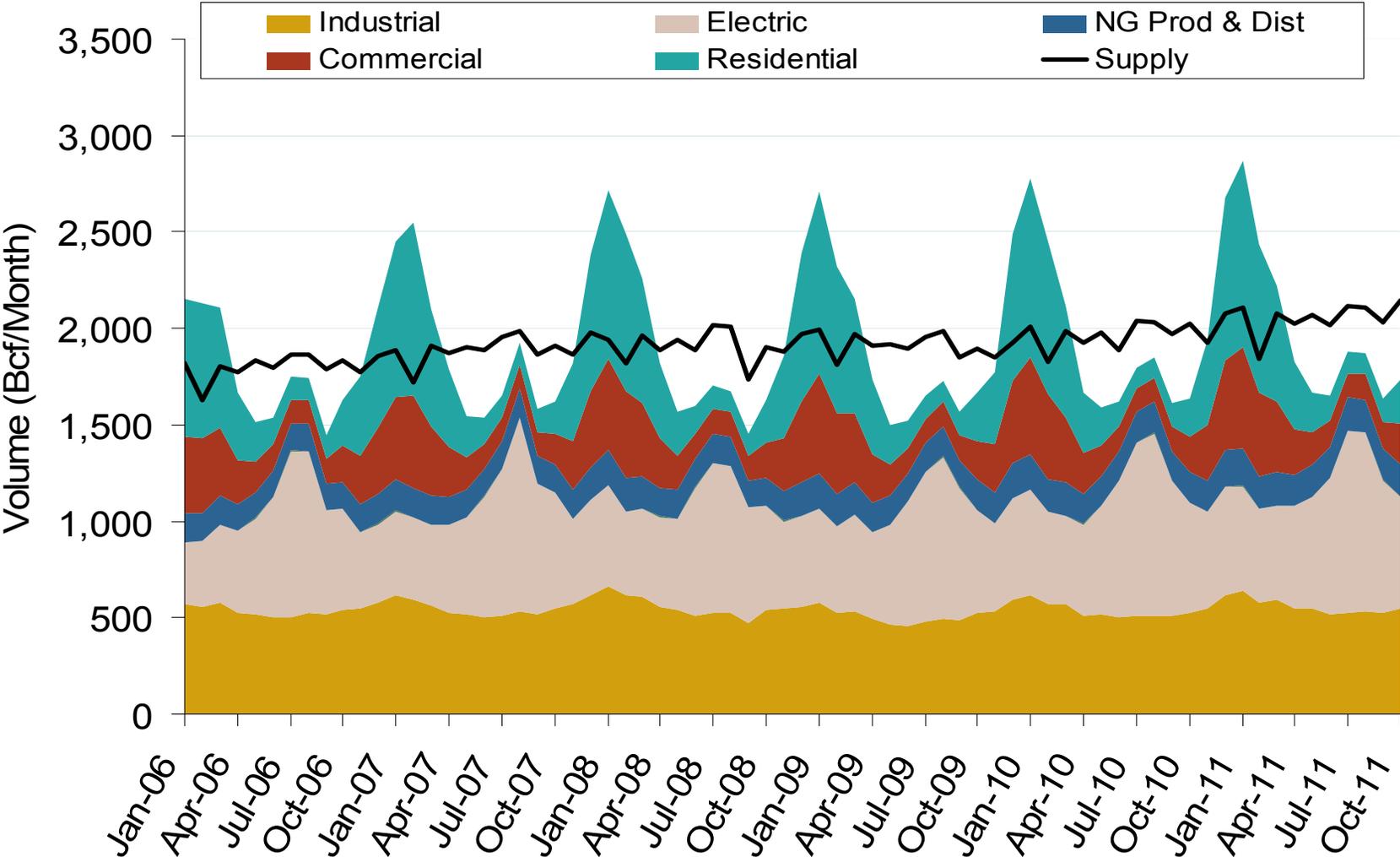


Note: Balance includes all amounts not attributable to other categories.

Source: Derived from Bentek Energy data

January 2012 MidAtlantic Snapshot

# Annual U.S. Natural Gas Consumption by Sector



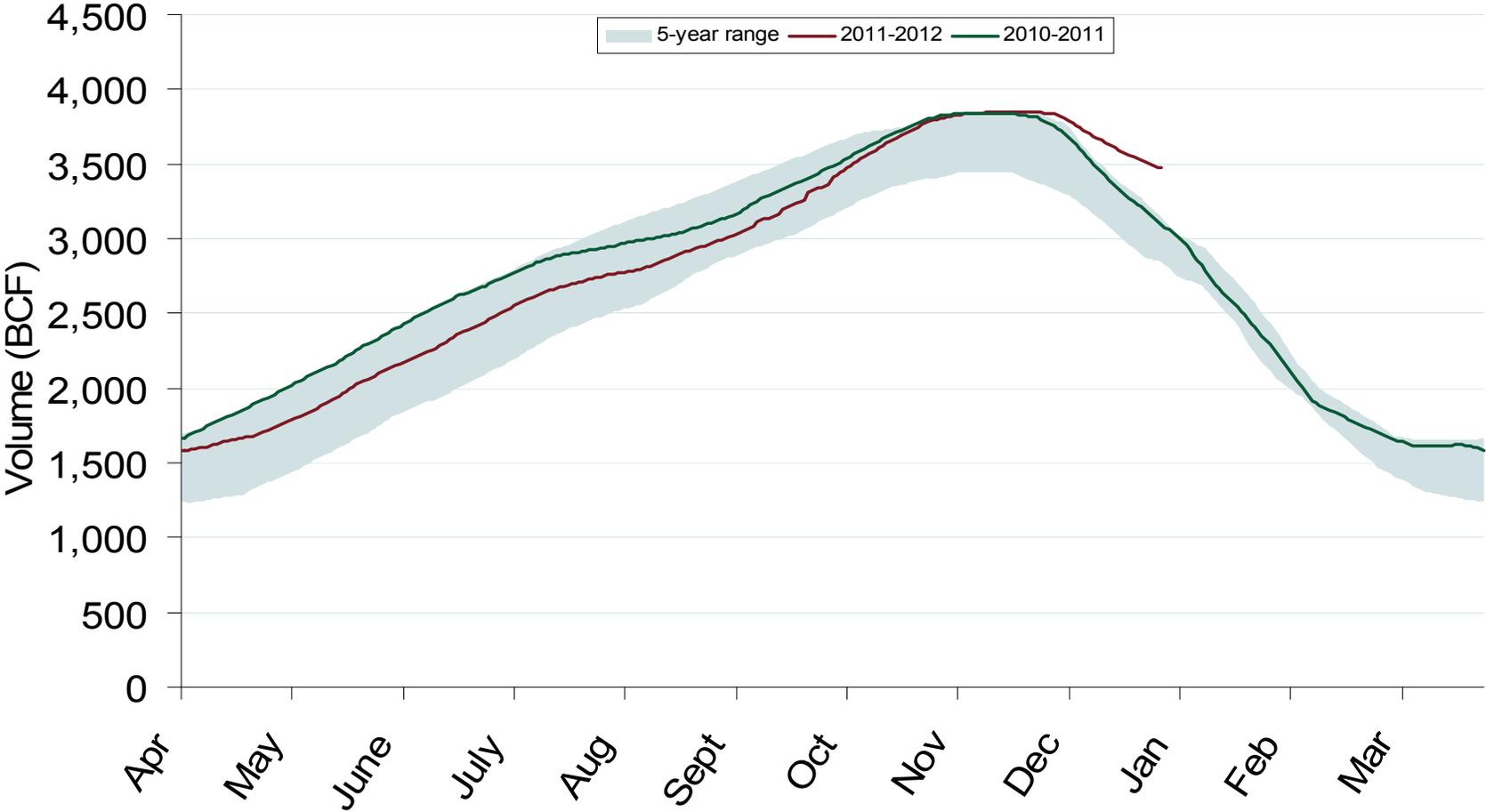
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

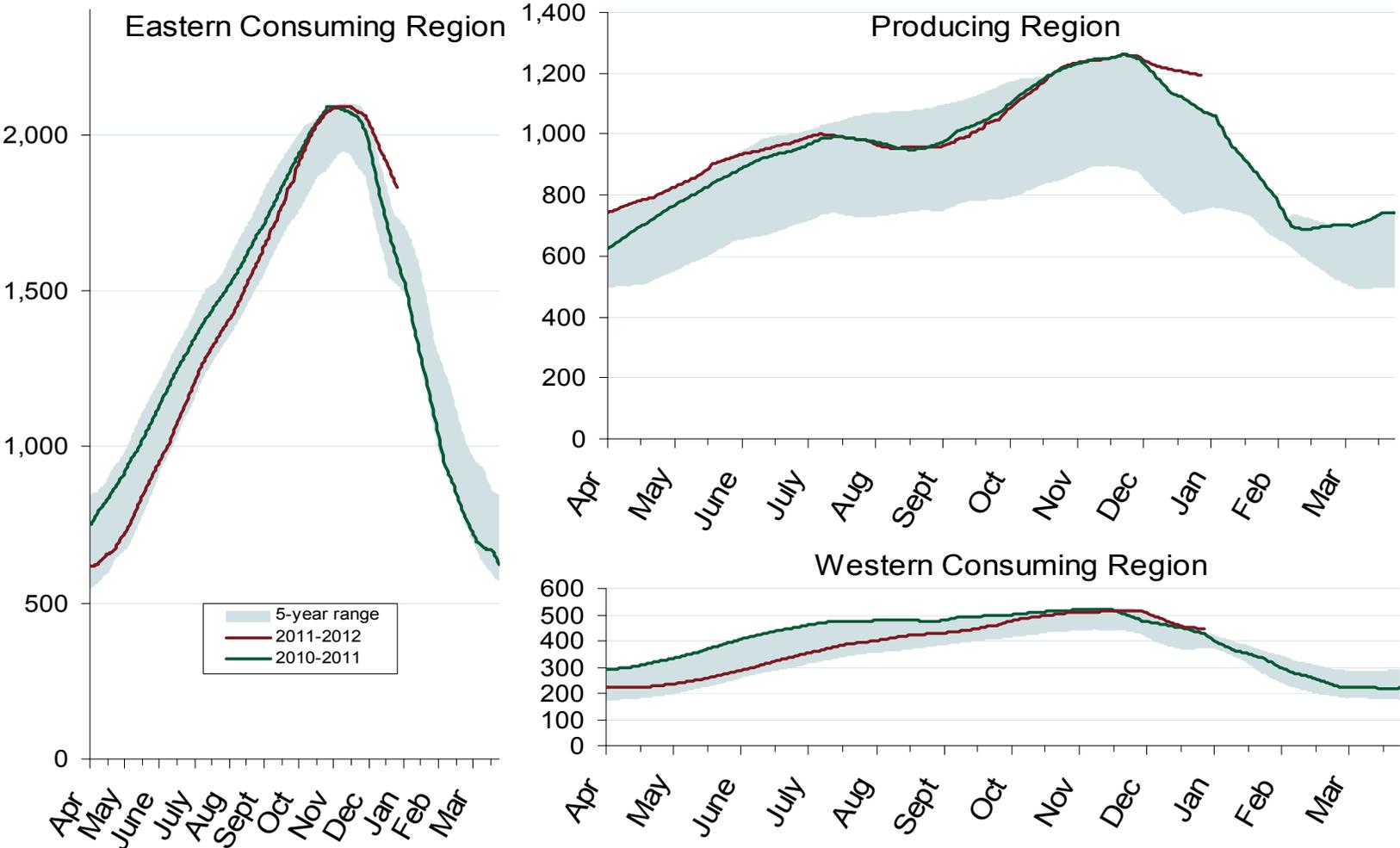
### Total U.S. Working Gas in Storage



Source: Derived from EIA data  
January 2012 MidAtlantic Snapshot

Updated: January 05, 2012

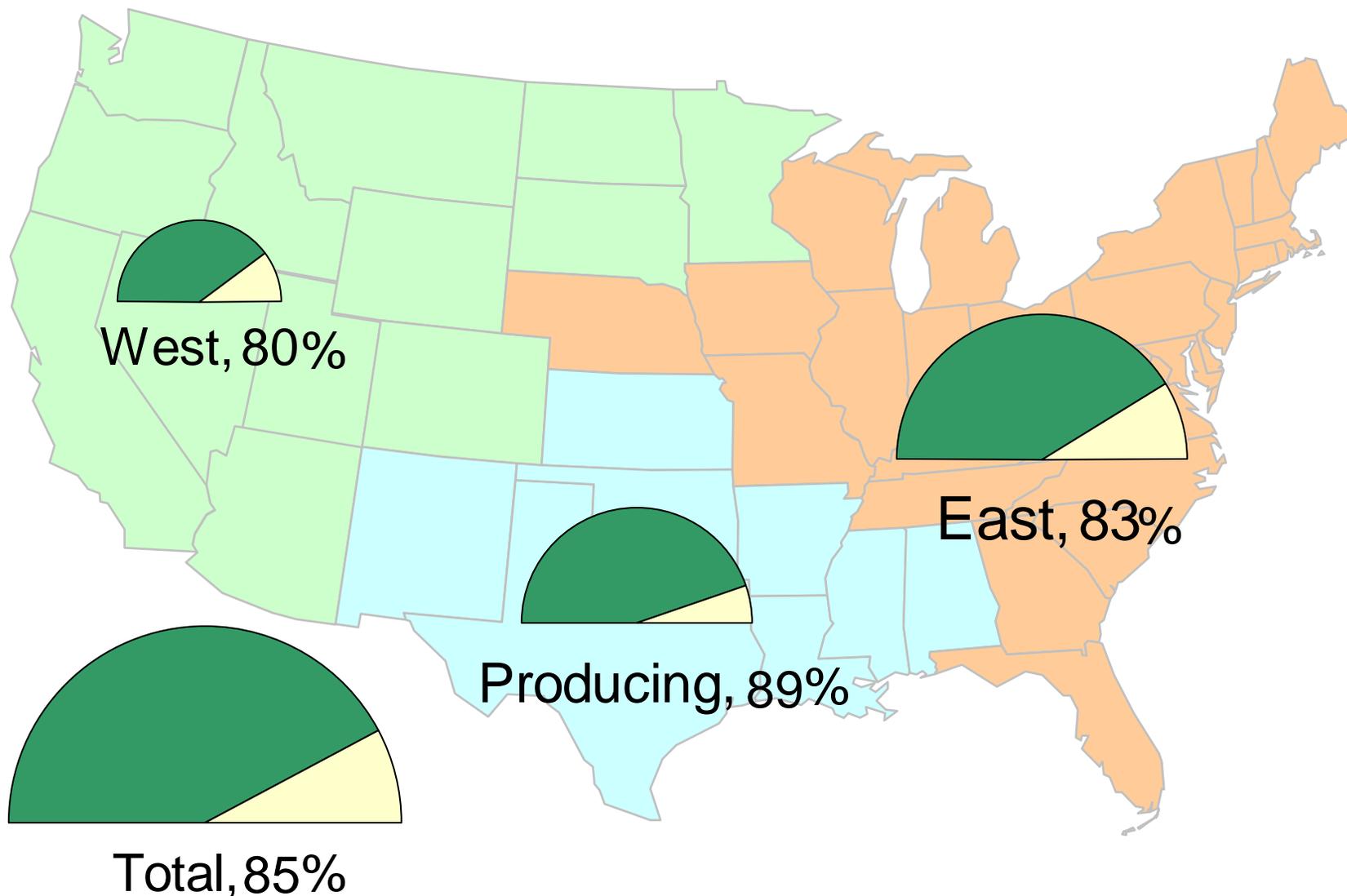
# Regional Totals of Working Gas in Storage



Source: Derived from EIA data  
January 2012 MidAtlantic Snapshot

Updated: January 05, 2012

## Natural Gas Storage Inventories – December 30, 2011



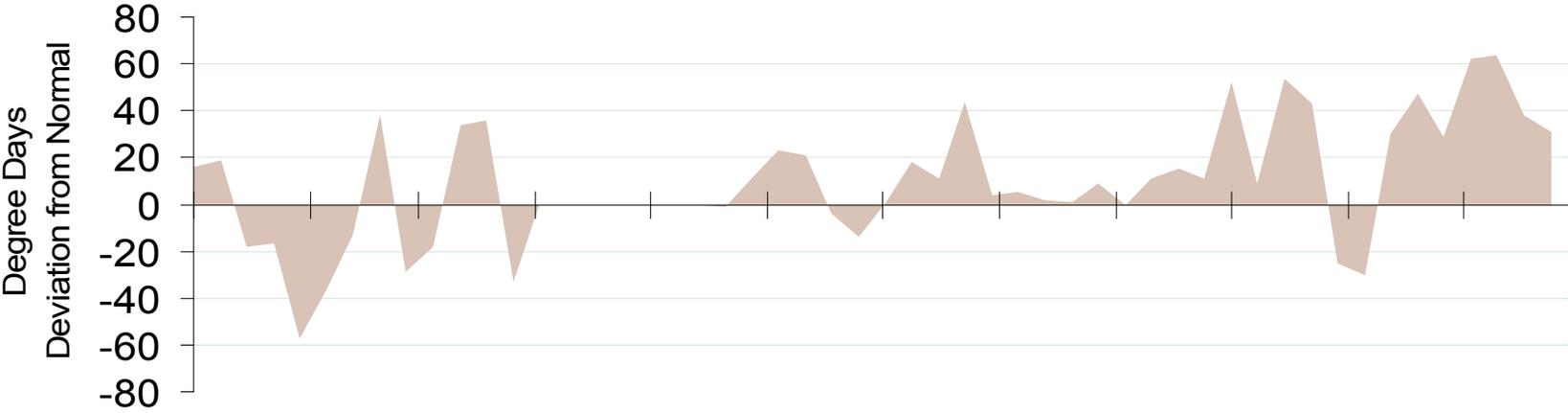
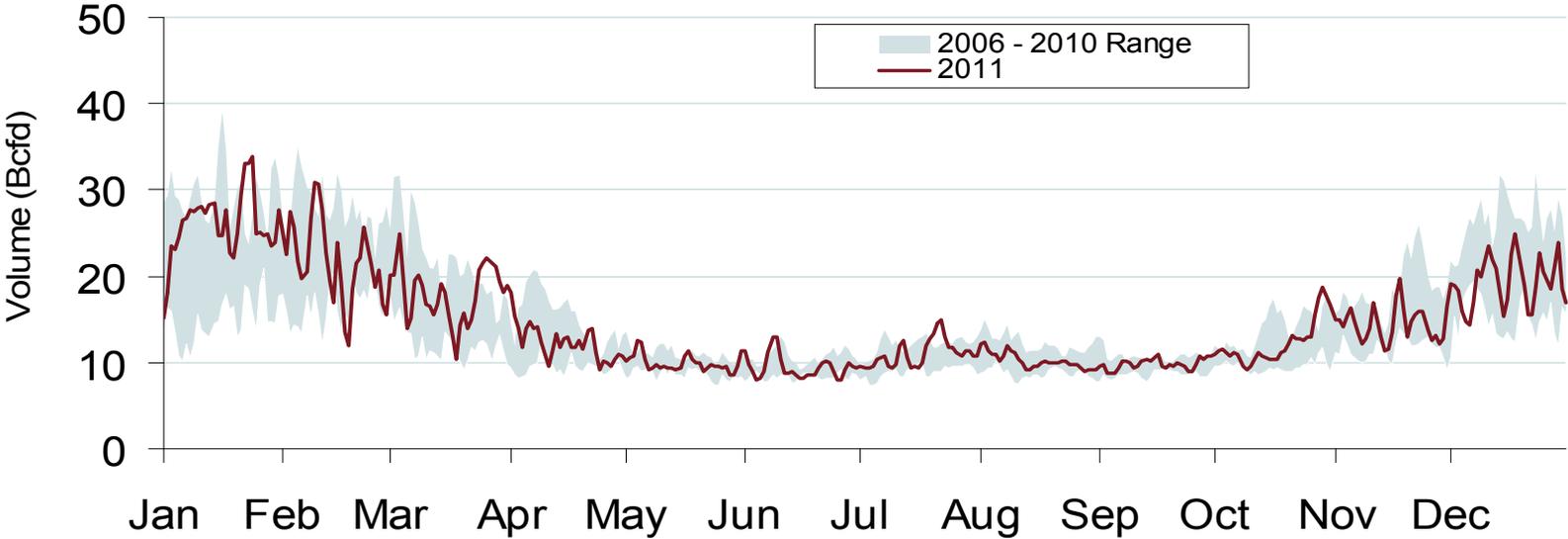
Source: Derived from *EIA Storage* and *Estimated Working Gas Capacity* data

January 2012 MidAtlantic Snapshot

Updated January 3, 2012

20022

### Daily Northeast Natural Gas Demand All Sectors

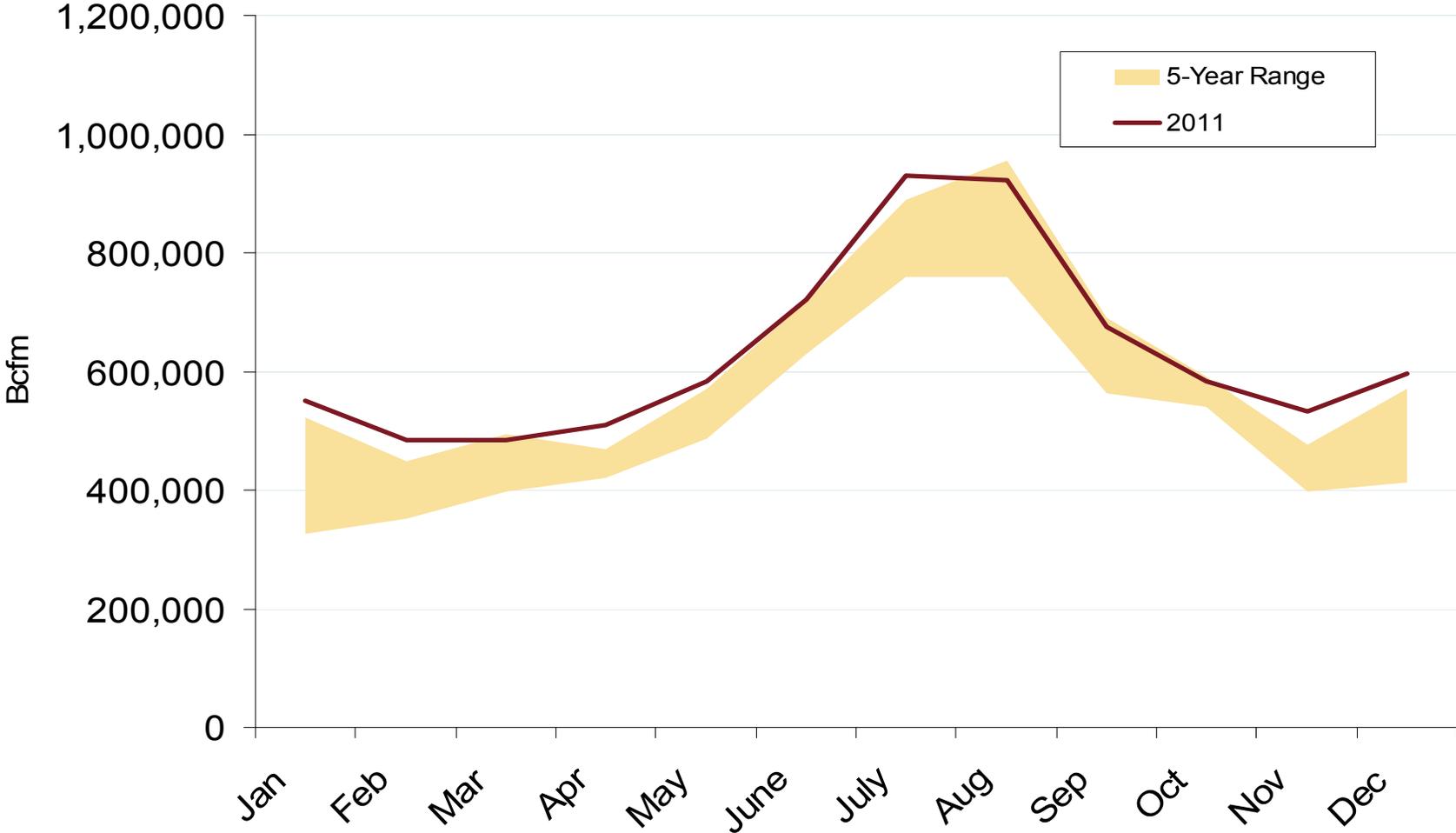


Source: Derived from *Bentek Energy* and Weekly NOAA data  
January 2012 MidAtlantic Snapshot

Updated: January 09, 2012

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

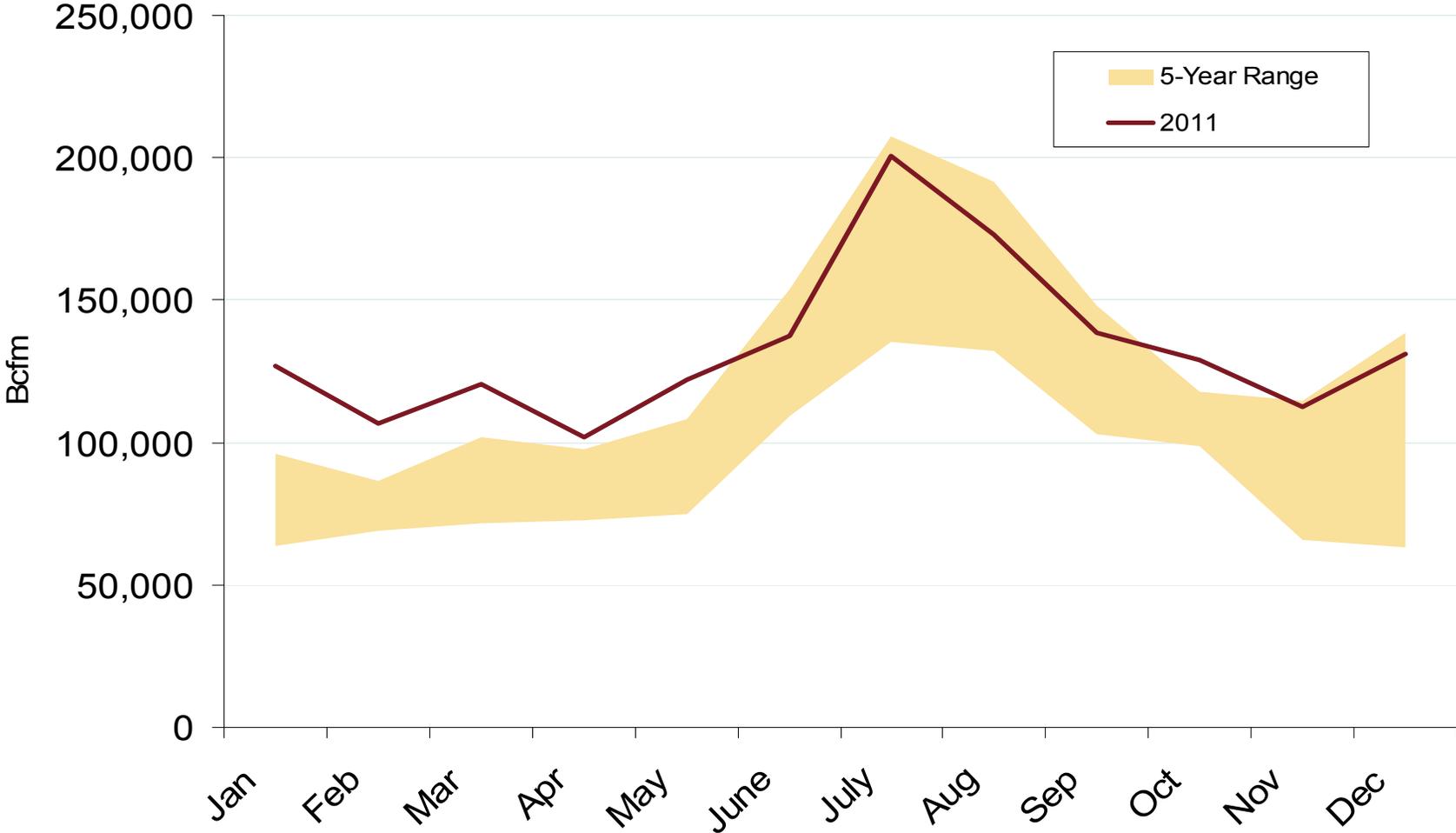
# U.S. Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data  
January 2012 MidAtlantic Snapshot

Updated: January 09, 2012

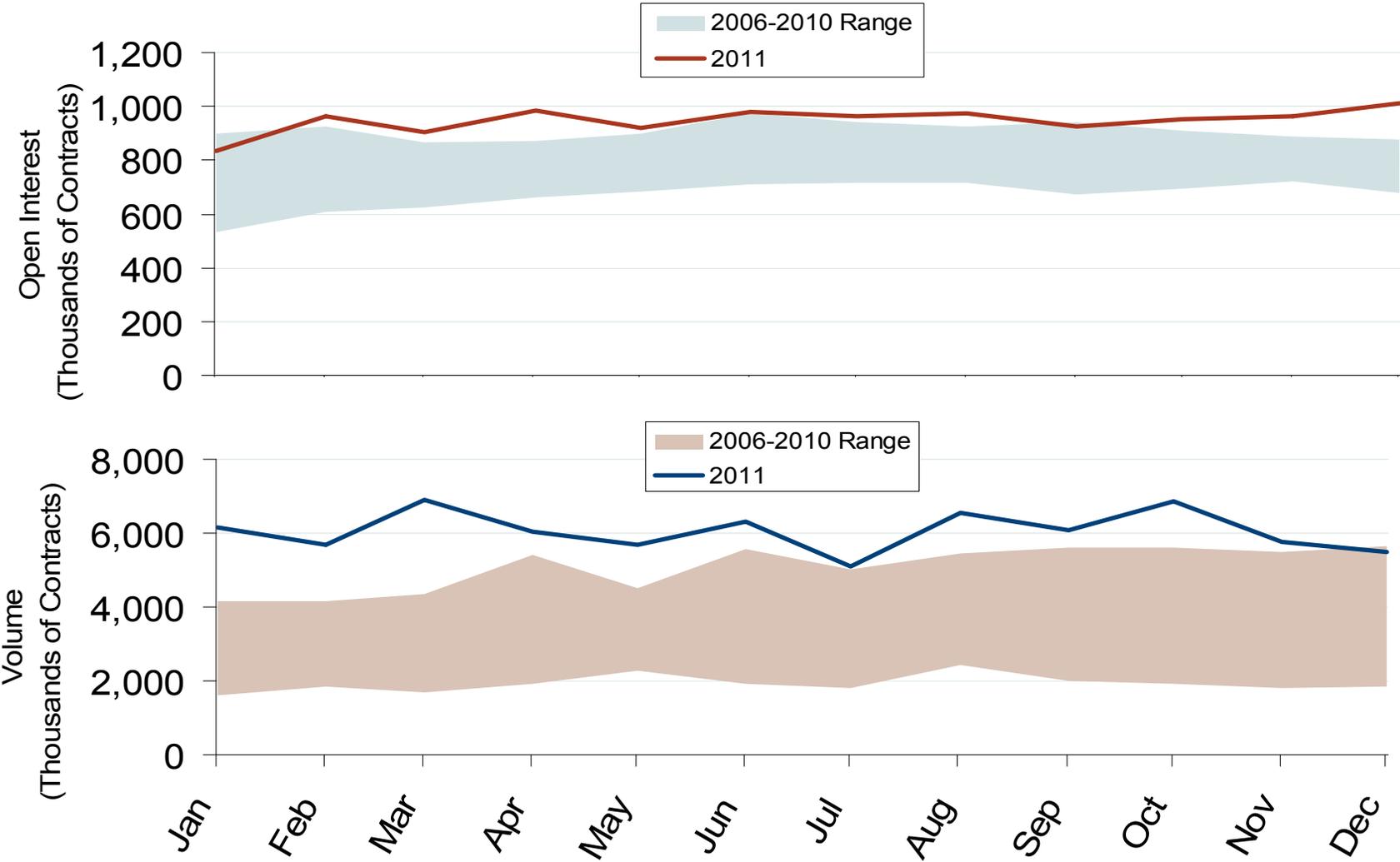
# Northeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data  
January 2012 MidAtlantic Snapshot

Updated: January 09, 2012

# Nymex NG Futures Month-End Open Interest and Monthly Volume



Source: Derived from Nymex data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

## Daily Physical Index Price & Daily Futures Settlement Price

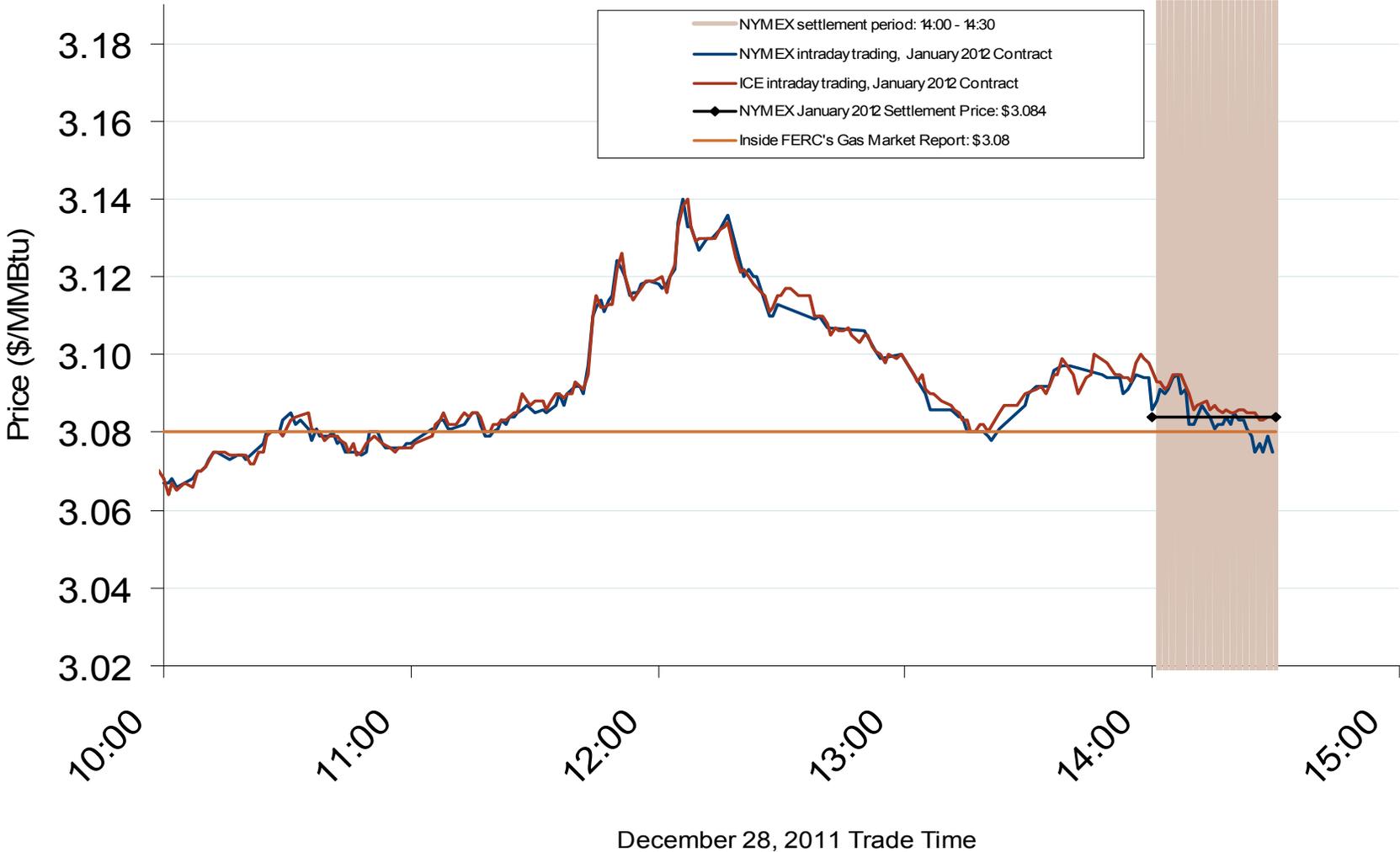


Source: Derived from *Bloomberg* data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

# Nymex and ICE Contract Final Settlement - January 2012



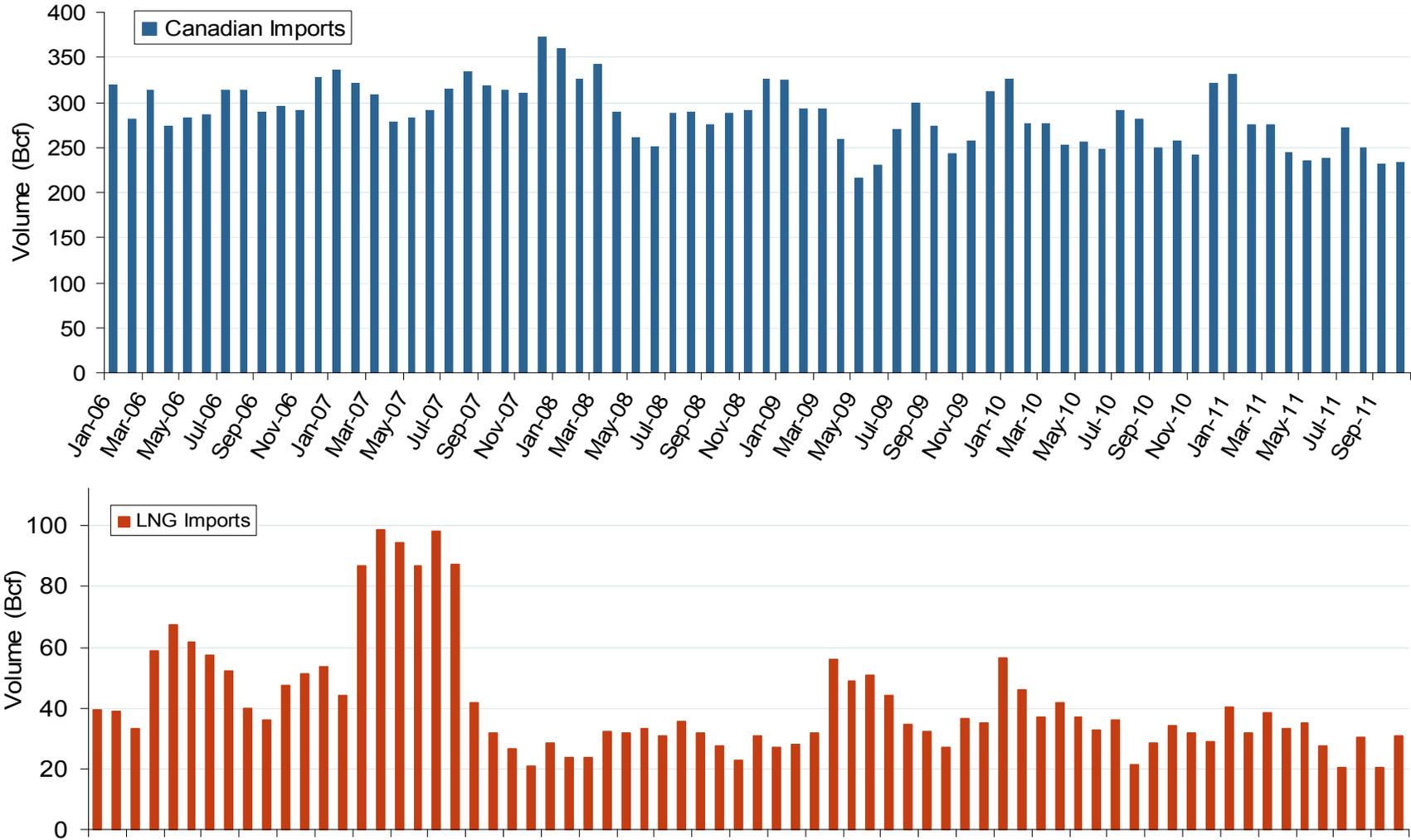
Notes: The final settlement day for this Nymex contract is three business days before the start of the contract term (which is the 1st day of the month)

Source: Derived from *Nymex* and *ICE* data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

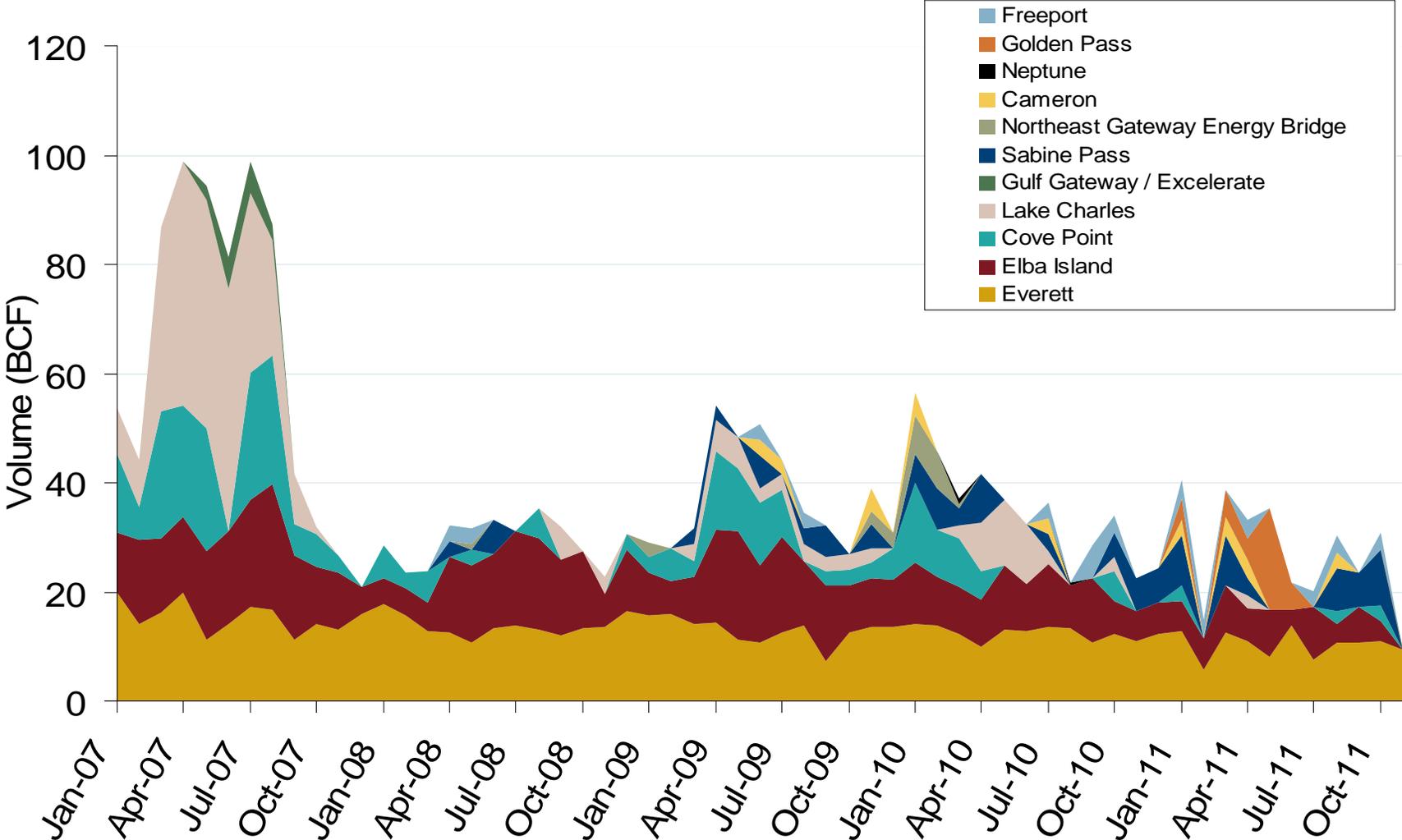
### Canadian and LNG Natural Gas Imports Into the U.S.



Source: EIA Natural Gas Monthly  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

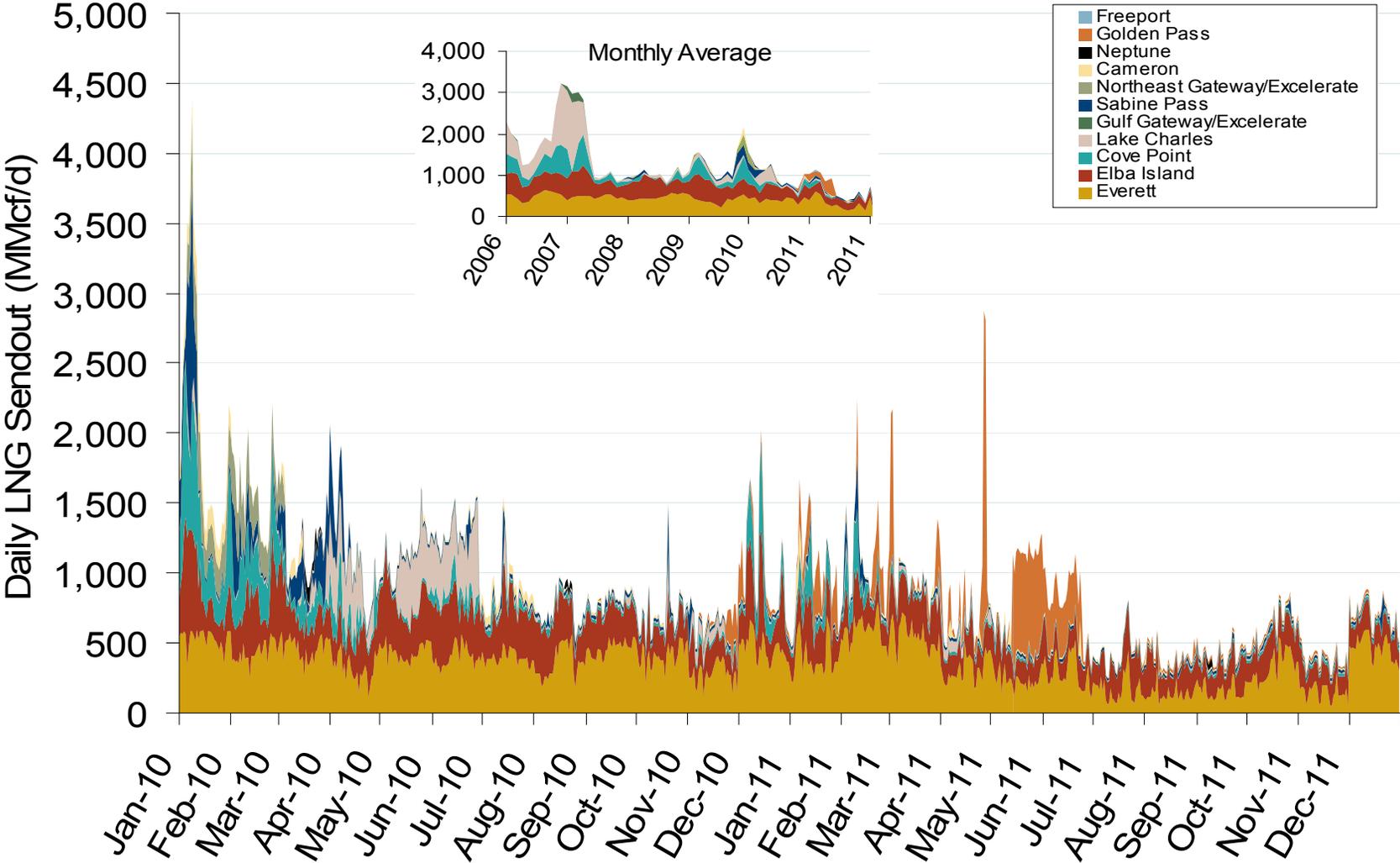
### Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data  
January 2012 MidAtlantic Snapshot

Updated: January 05, 2012

# 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

January 2012 MidAtlantic Snapshot

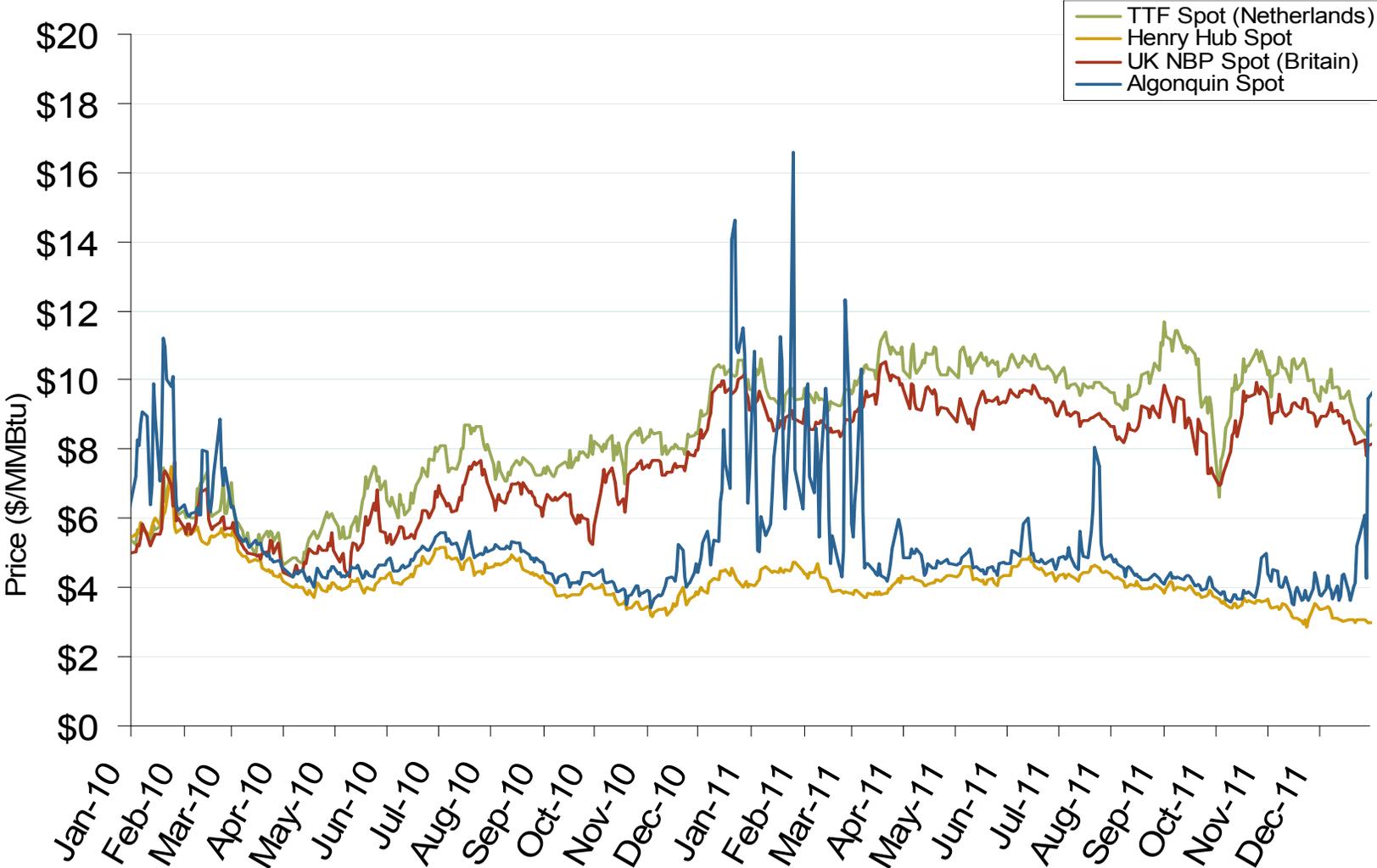
Updated: January 09, 2012

# World LNG Estimated February 2012 Landed Prices



Source: Waterborne Energy, Inc. Data in \$US/MMBtu  
January 2012 MidAtlantic Snapshot

# Atlantic Basin European and US Spot Natural Gas Prices

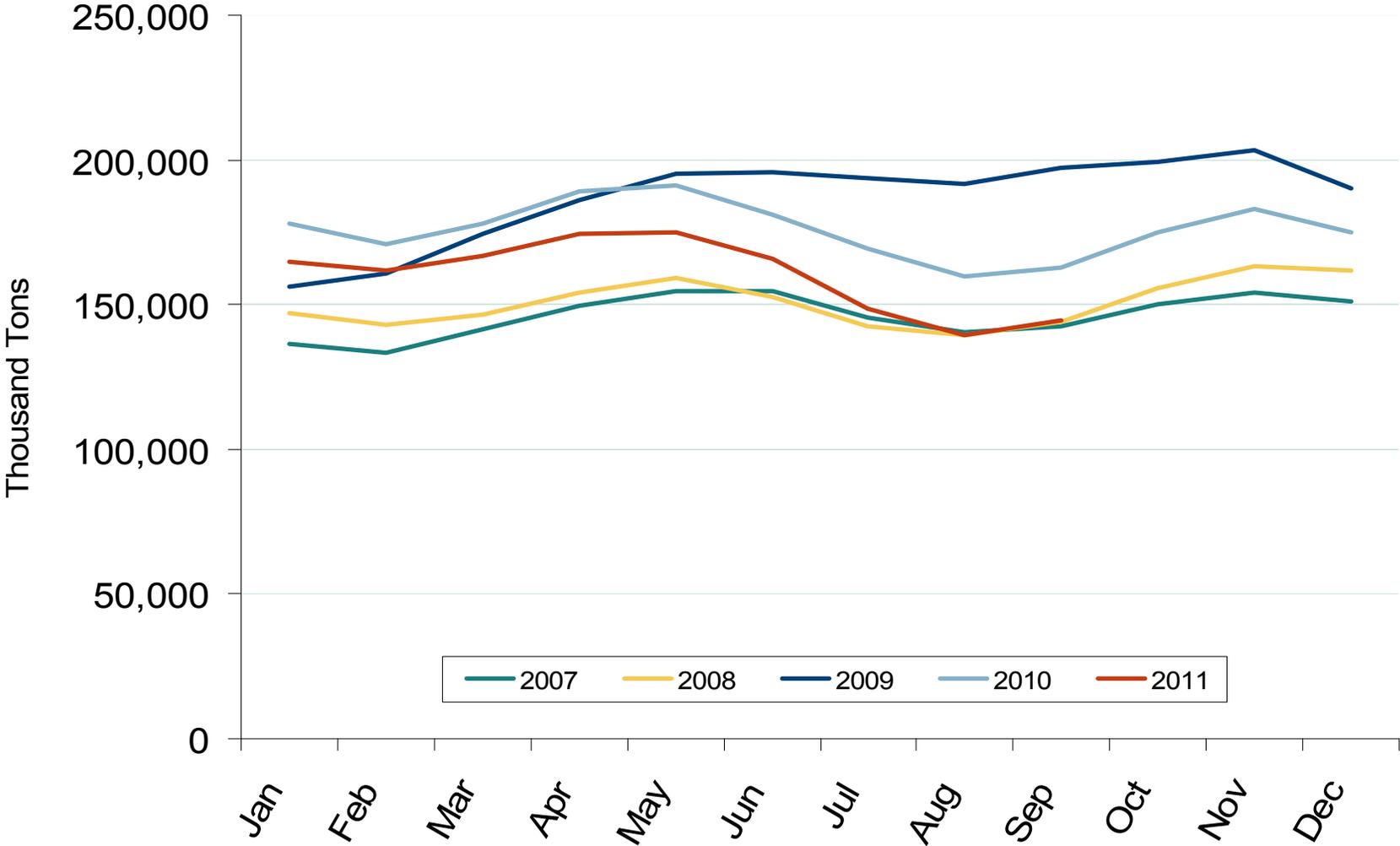


Source: Derived from *Bloomberg* and *ICE* data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

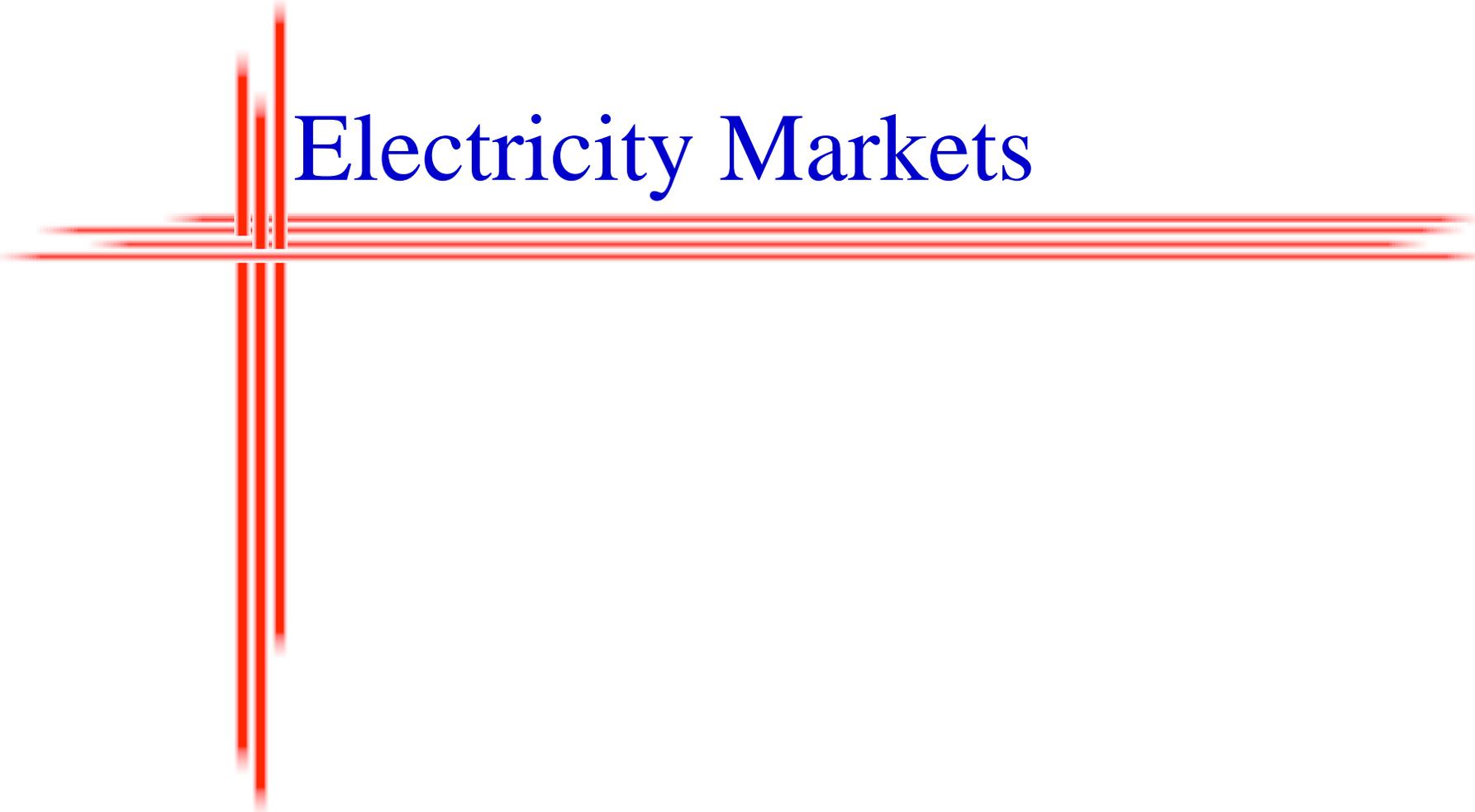
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

# U.S. Coal Stockpiles at Electric Power Generating Facilities



Source: Derived from EIA data. Excludes Industrial and Commercial Plants  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012



# Electricity Markets

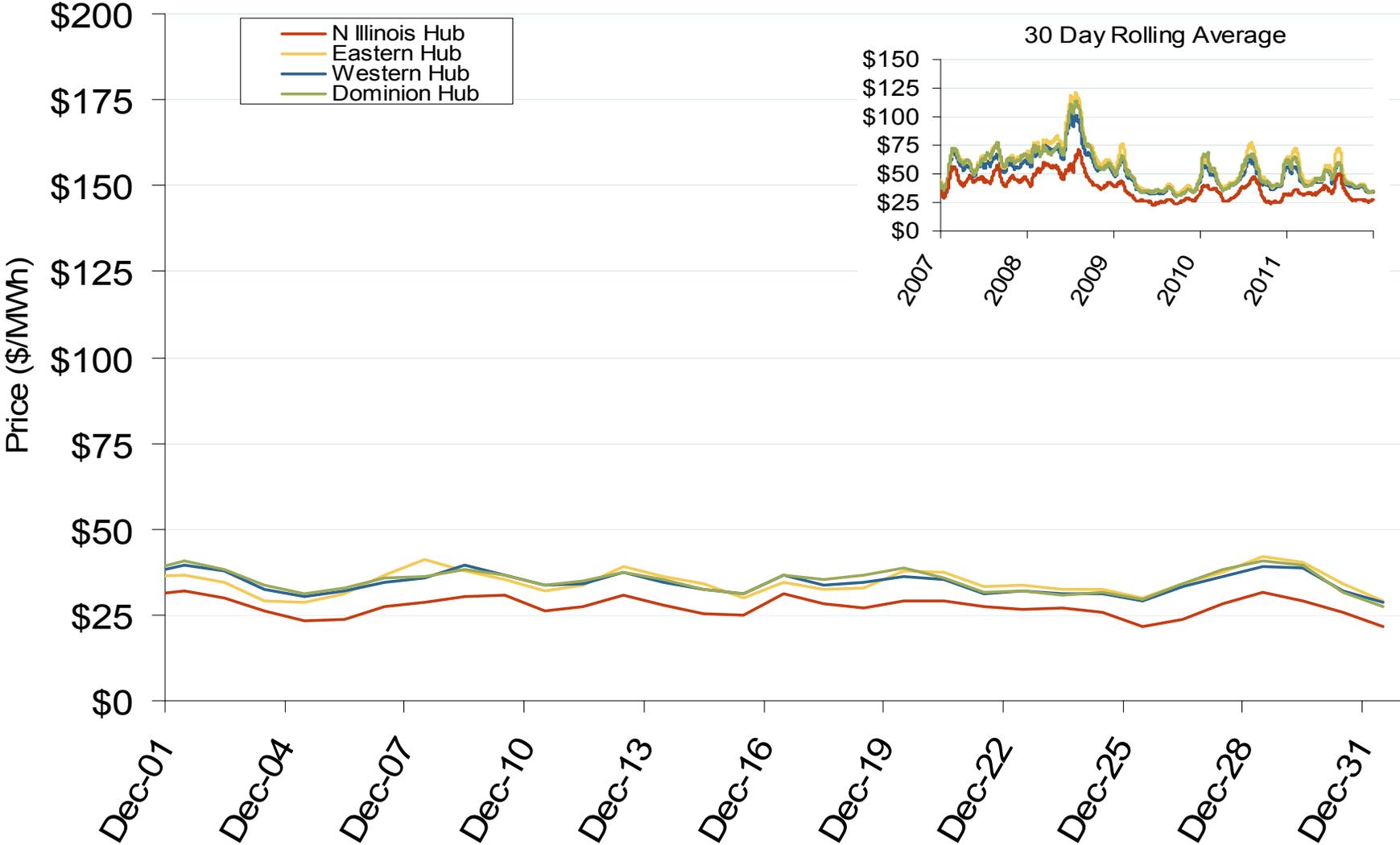
## PJM Annual Average Bilateral Prices

| Annual Average Day Ahead On Peak Prices (\$/MWh) |         |          |         |         |         |            |
|--|---------|----------|---------|---------|---------|------------|
|  | 2007    | 2008     | 2009    | 2010    | 2011    | 5-Year Avg |
| Mass Hub   | \$77.39 | \$91.55  | \$46.24 | \$56.18 | \$52.64 | \$68.23    |
| Ny Zone G  | \$83.51 | \$100.99 | \$49.80 | \$59.48 | \$56.41 | \$73.94    |
| NY Zone J  | \$94.15 | \$112.63 | \$55.77 | \$65.76 | \$62.71 | \$82.84    |
| NY Zone A  | \$64.02 | \$68.34  | \$35.54 | \$43.89 | \$41.52 | \$54.09    |
| PJM West   | \$71.15 | \$83.70  | \$44.60 | \$53.68 | \$51.99 | \$63.00    |

# PJM Electric Market: Last Month's RTO Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

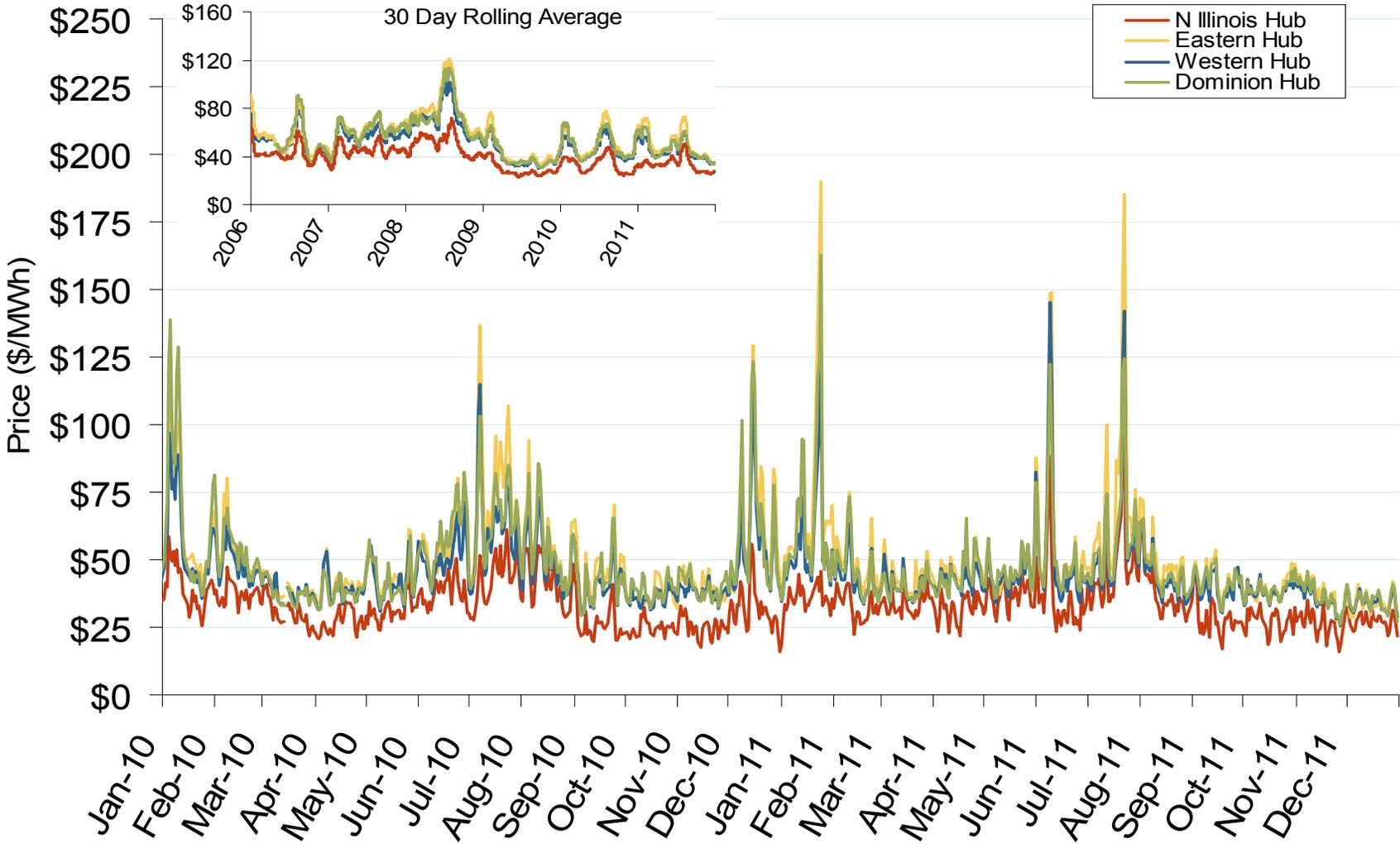
## Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

### Daily Average of PJM Day-Ahead Prices - All Hours

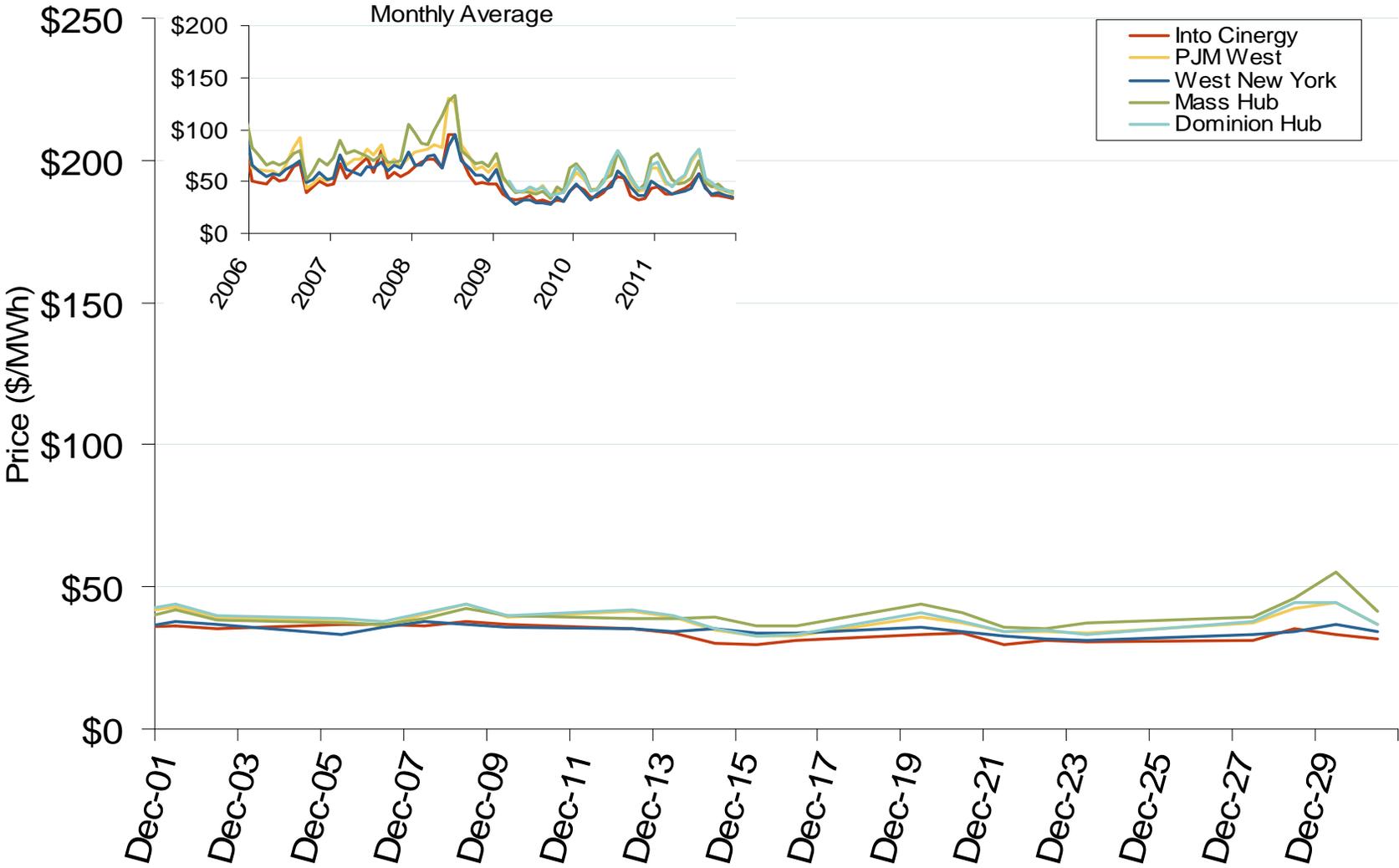


Source: Derived from *Bloomberg* data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

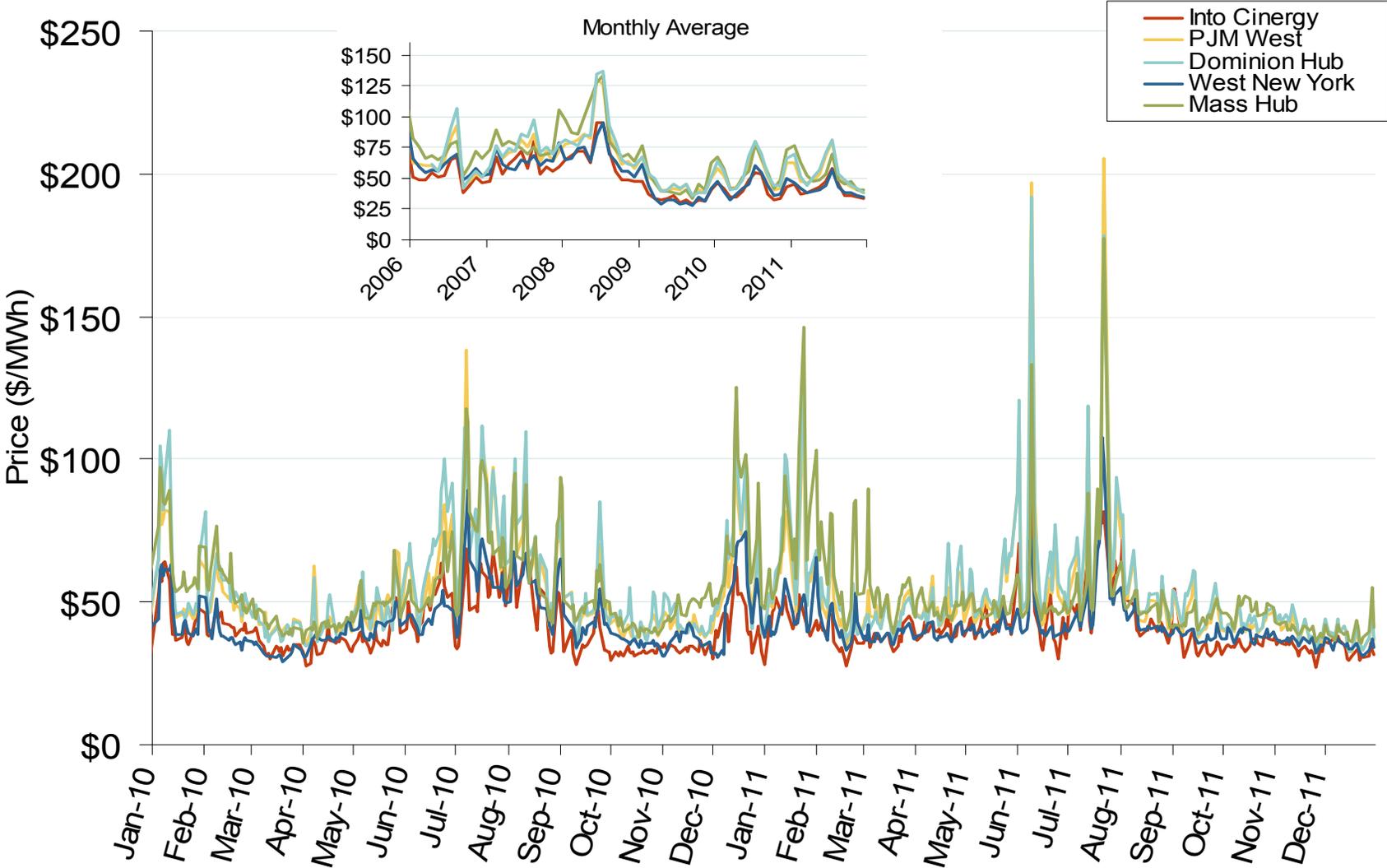
### Eastern Daily Bilateral Day-Ahead On-Peak Prices



Source: Derived from Platts data  
January 2012 MidAtlantic Snapshot

Updated: January 03, 2012

# Eastern Daily Bilateral Day-Ahead On-Peak Prices

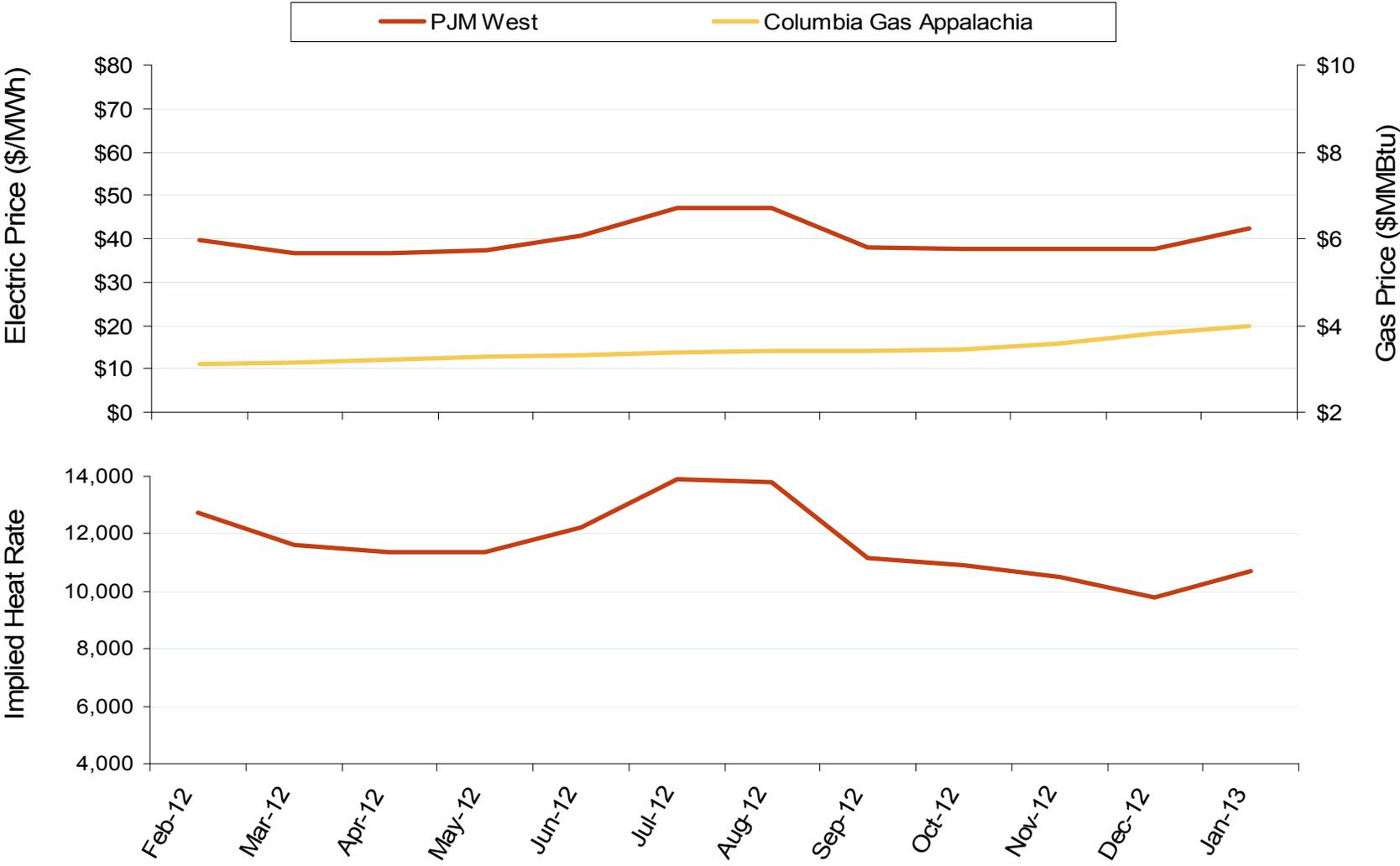


Source: Derived from *Platts* data  
January 2012 MidAtlantic Snapshot

Updated: January 03, 2012

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

# PJM West Electric Forward Price Curves and Implied Heat Rates

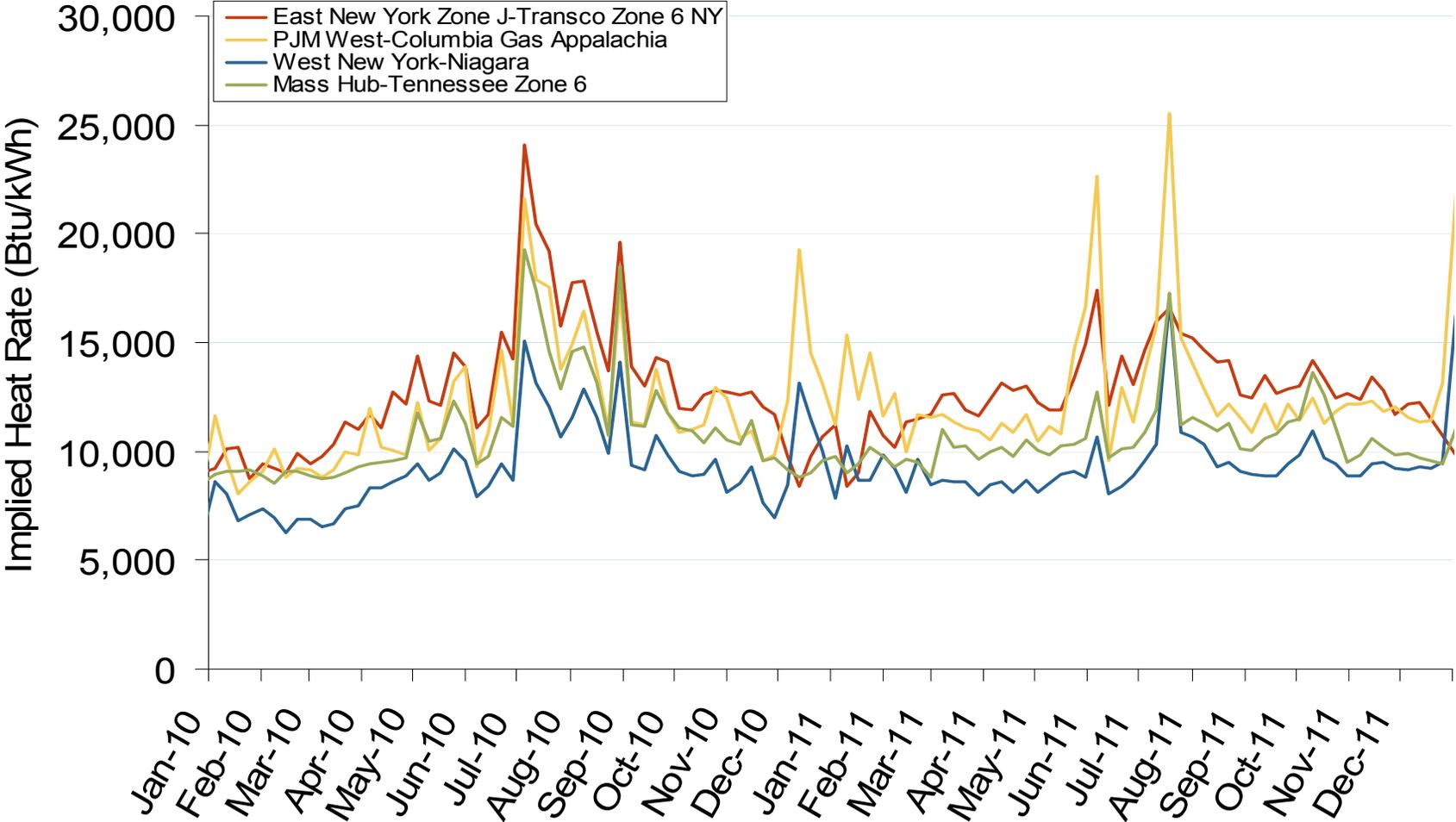


Source: Derived from Nymex data  
January 2012 MidAtlantic Snapshot

Updated: January 04, 2012

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

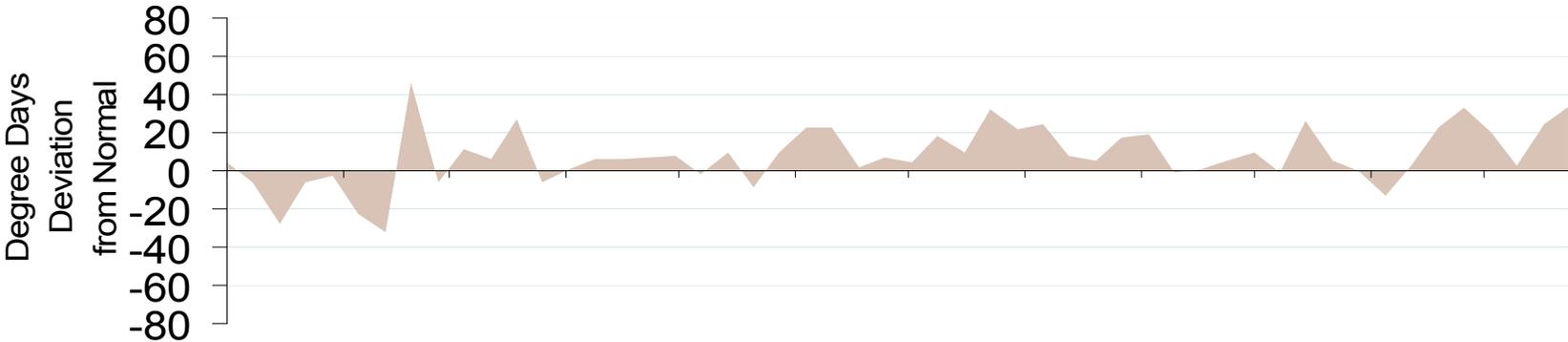
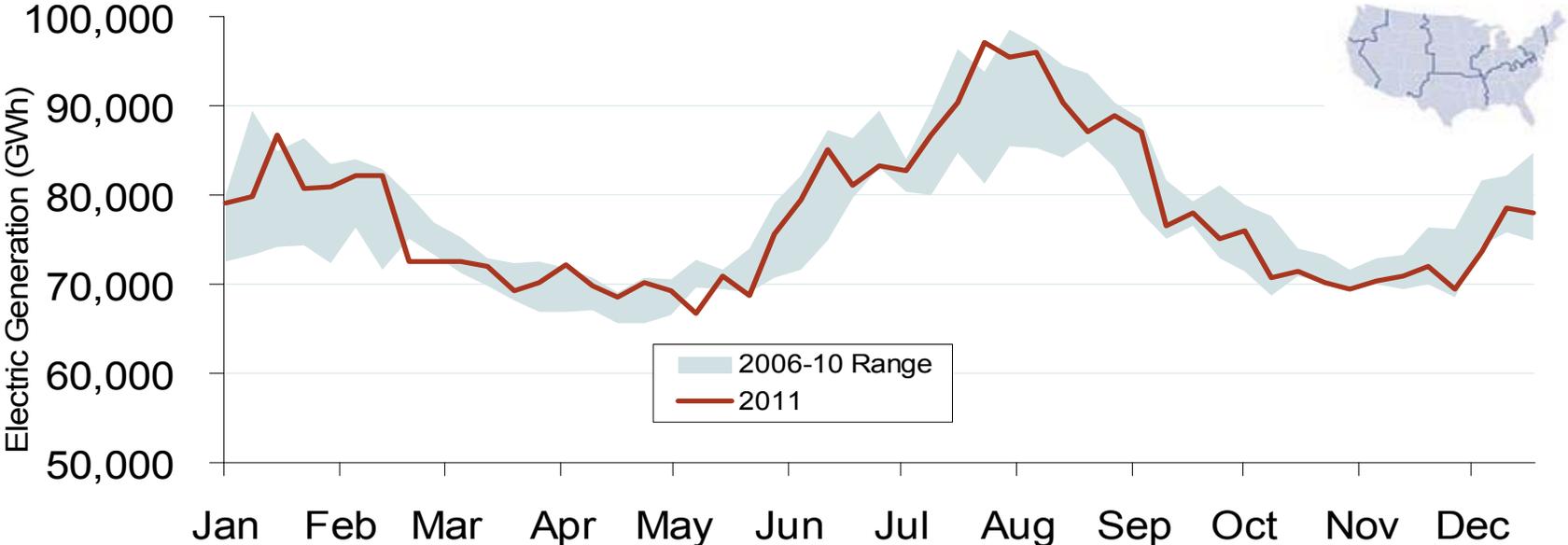
### Implied Heat Rates at Eastern Trading Points - Weekly Avgs.



Source: Derived from Platts on-peak electric and natural gas price data  
January 2012 MidAtlantic Snapshot

Updated: January 03, 2012

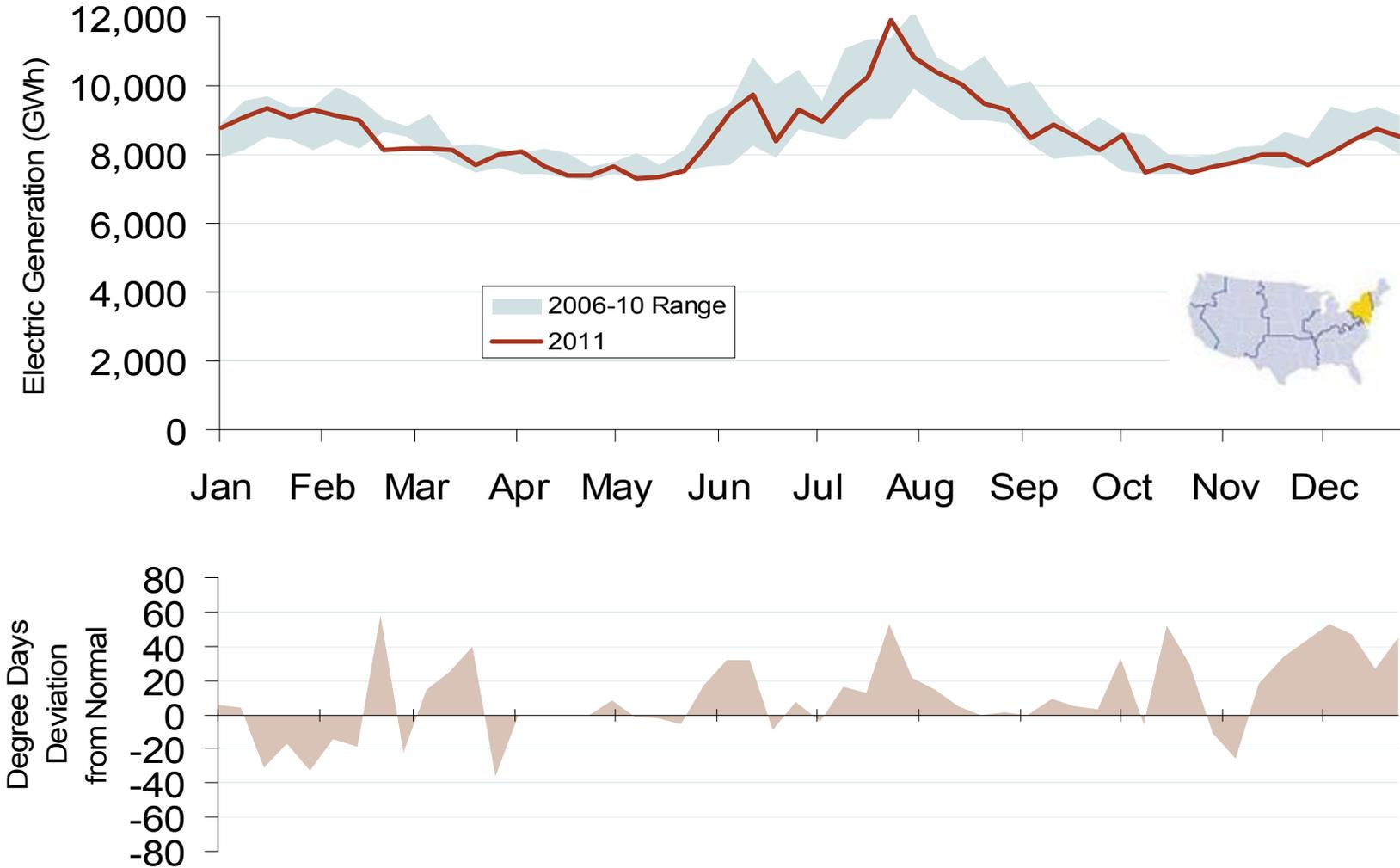
# Weekly U.S. Electric Generation Output and Temperatures



Source: Derived from EEI and NOAA data  
January 2012 MidAtlantic Snapshot

Updated: January 05, 2012

### Weekly Power Generation & Temps. - Mid Atlantic



Source: Derived from EEI and NOAA data  
January 2012 MidAtlantic Snapshot

Updated: January 05, 2012

# Weekly Power Generation & Temps. - Central Industrial Region

