

# **OE ENERGY MARKET SNAPSHOT**

## **Mid-Atlantic States Version – June 2012 Data**

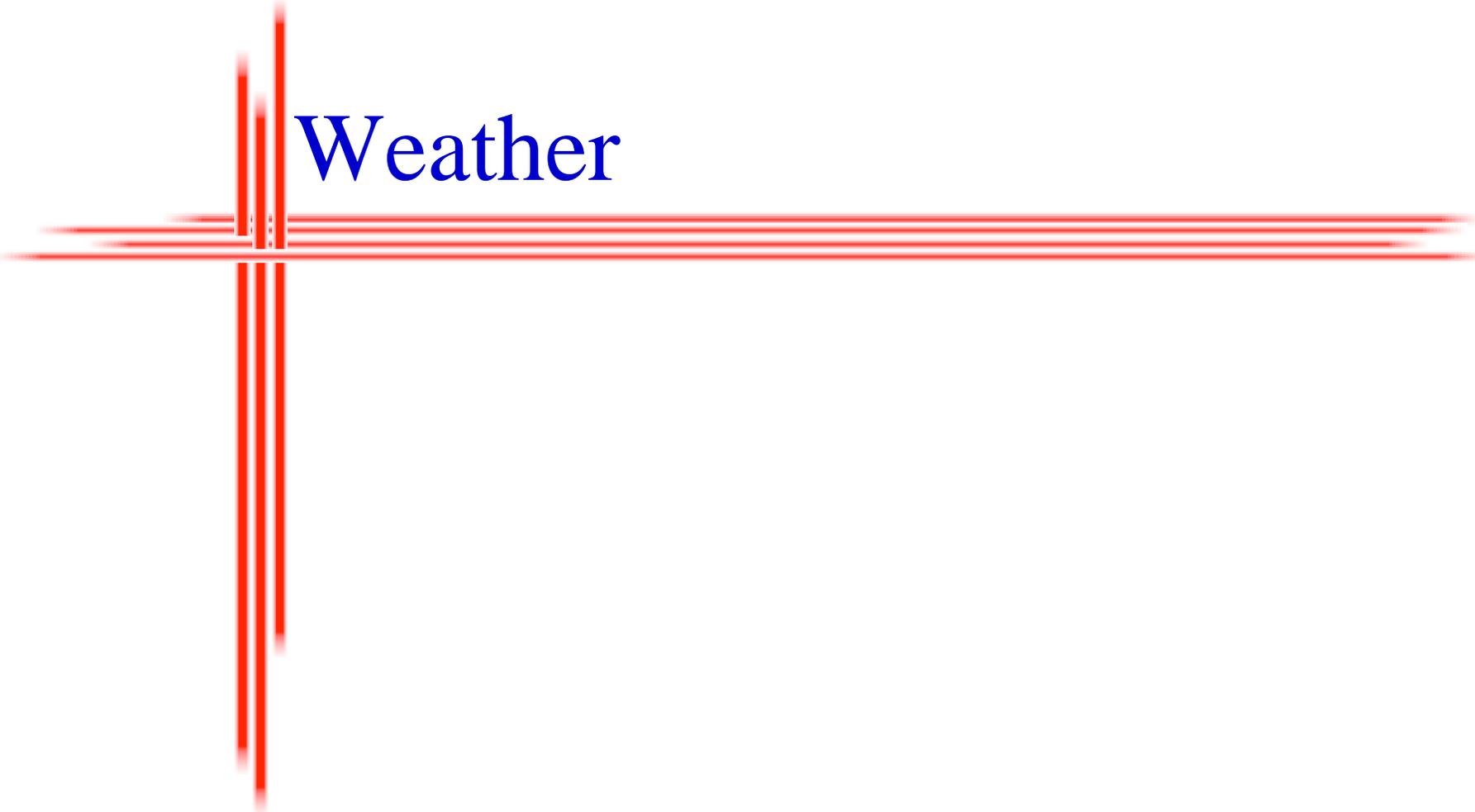
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Office of Enforcement  
Federal Energy Regulatory Commission  
July 2012



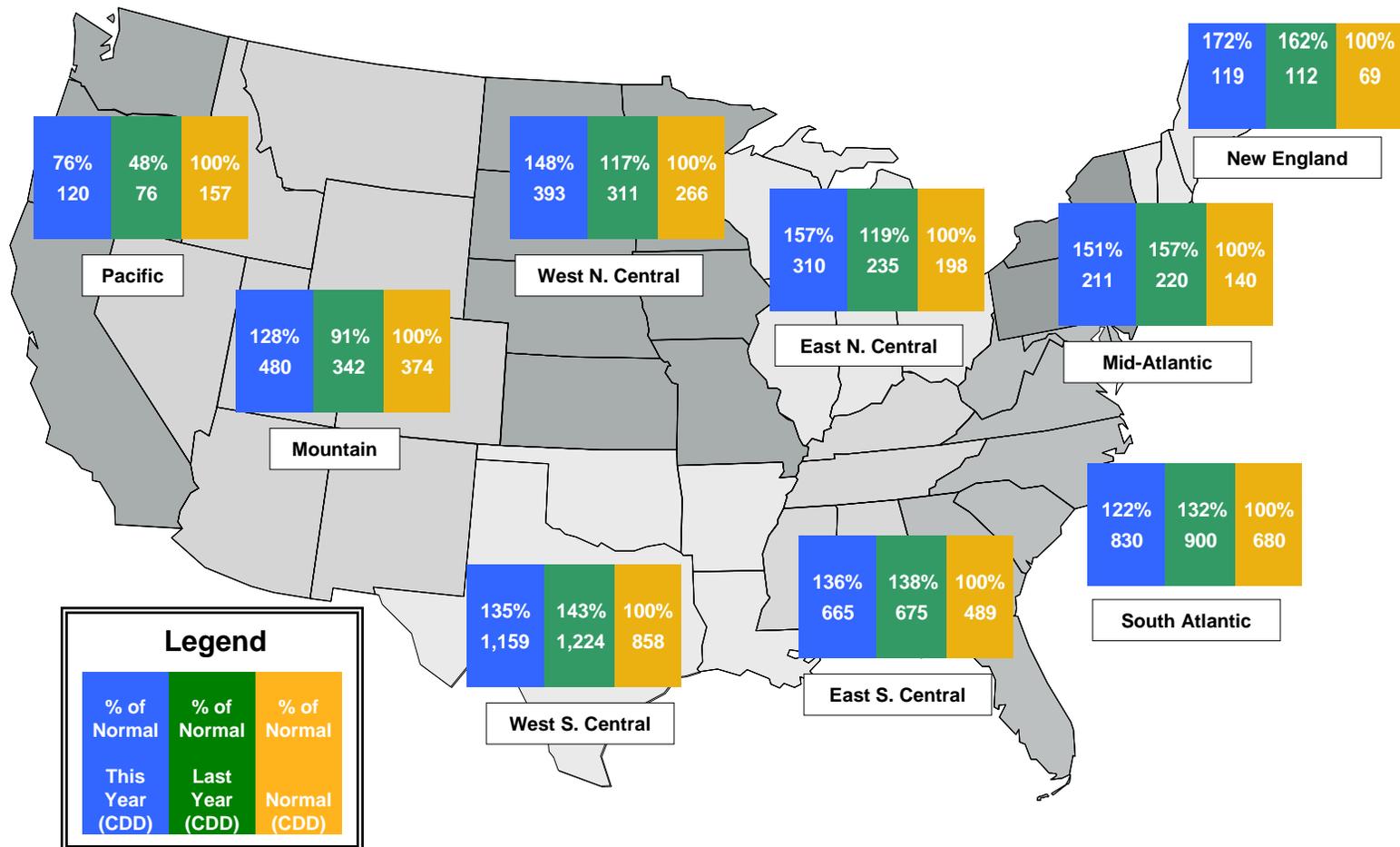
# Infrastructure Report

## May Infrastructure Report



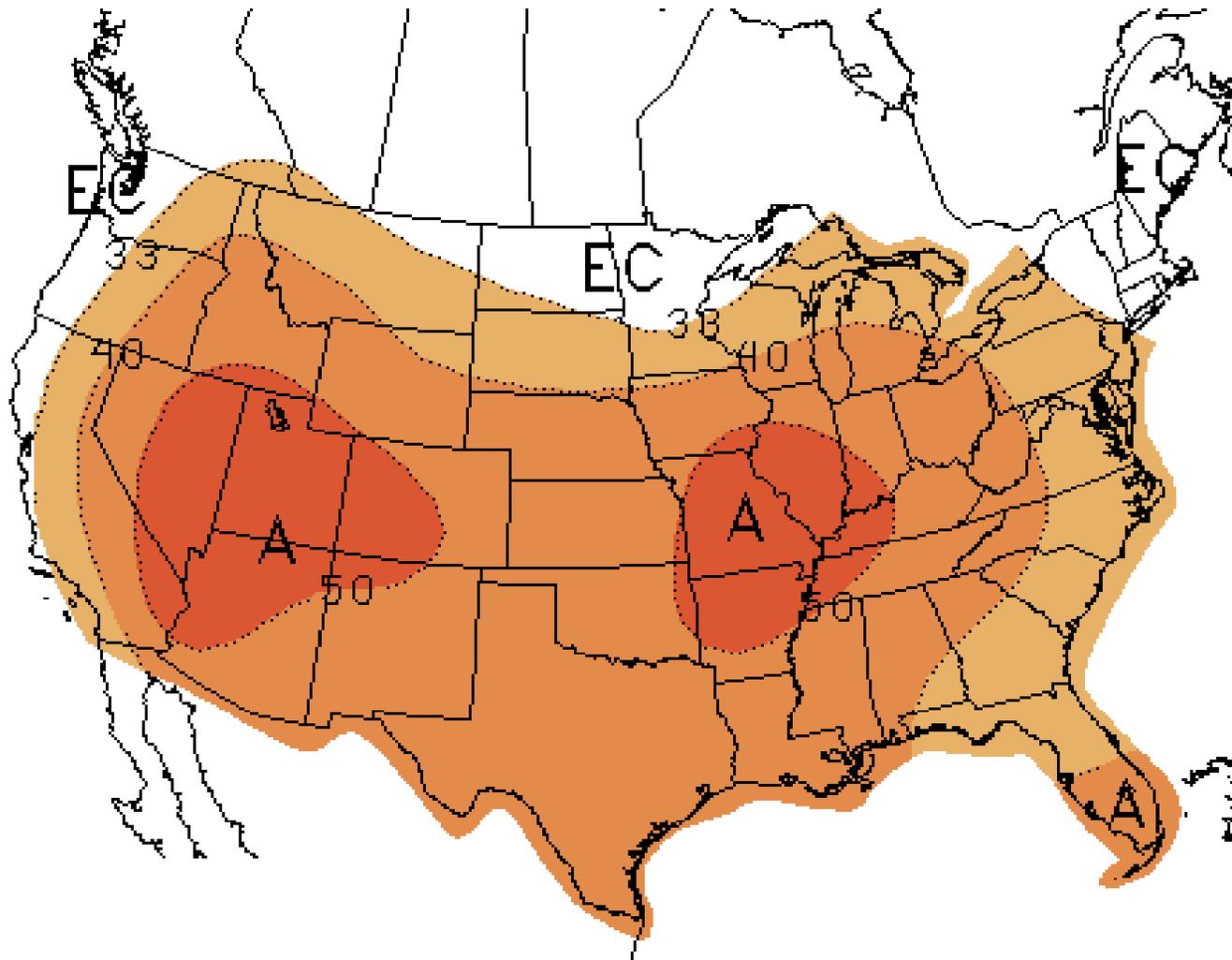
# Weather

## Regional Cooling Degree Days – January to June 2012



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

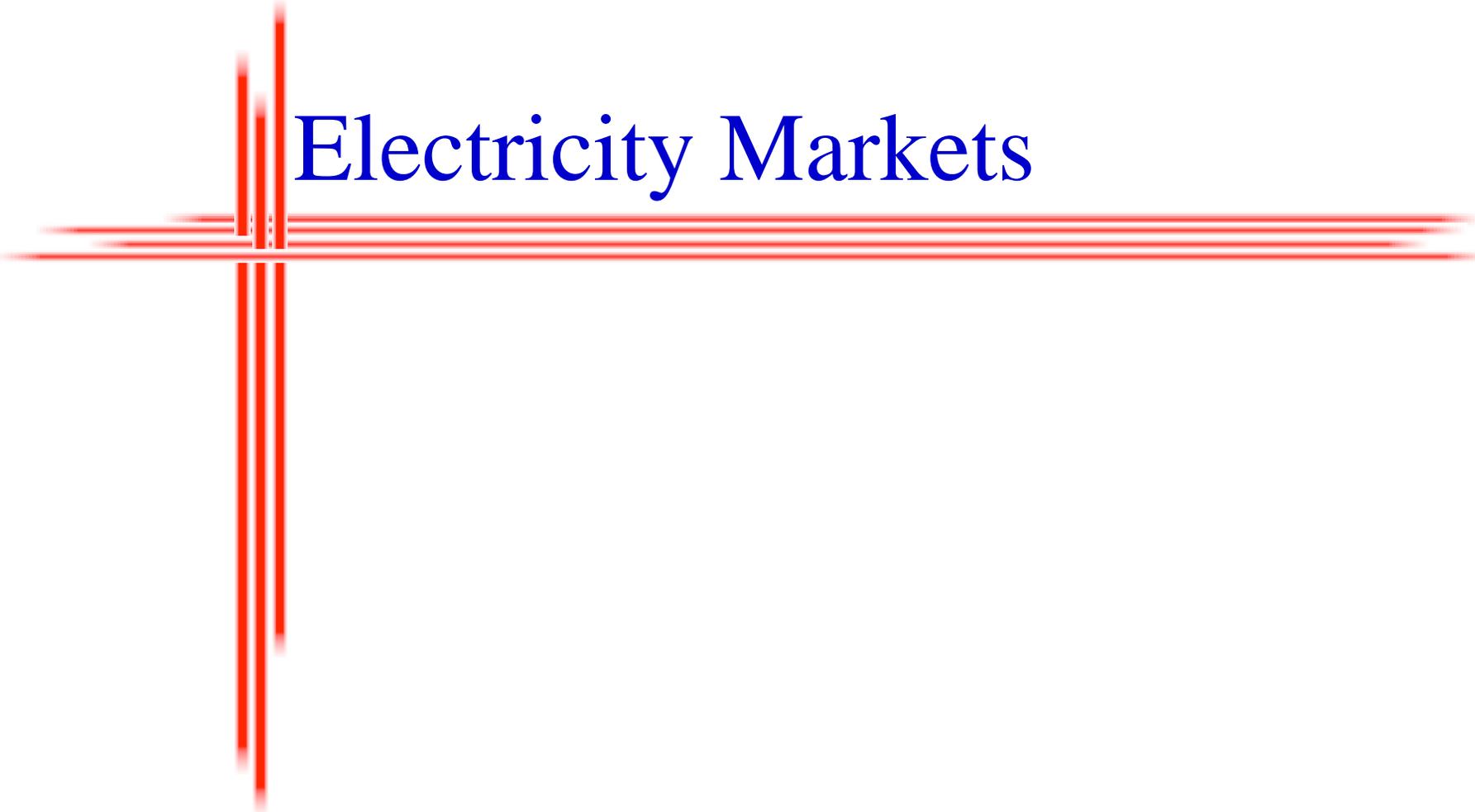
## NOAA's 3 Month Temperature Forecast Made June 19, 2012, Valid for July 2012 – August 2012



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: June 23, 2012

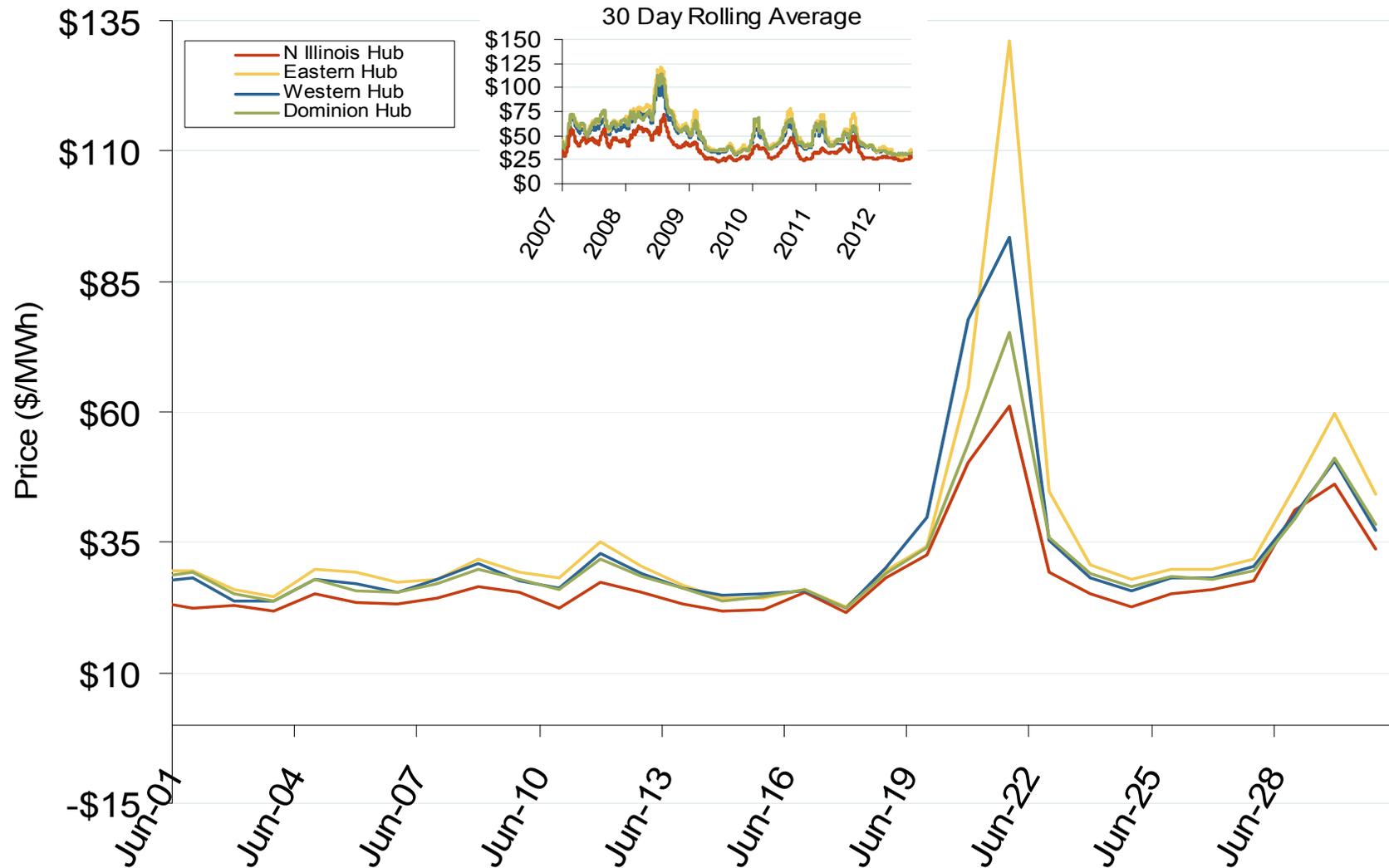


# Electricity Markets

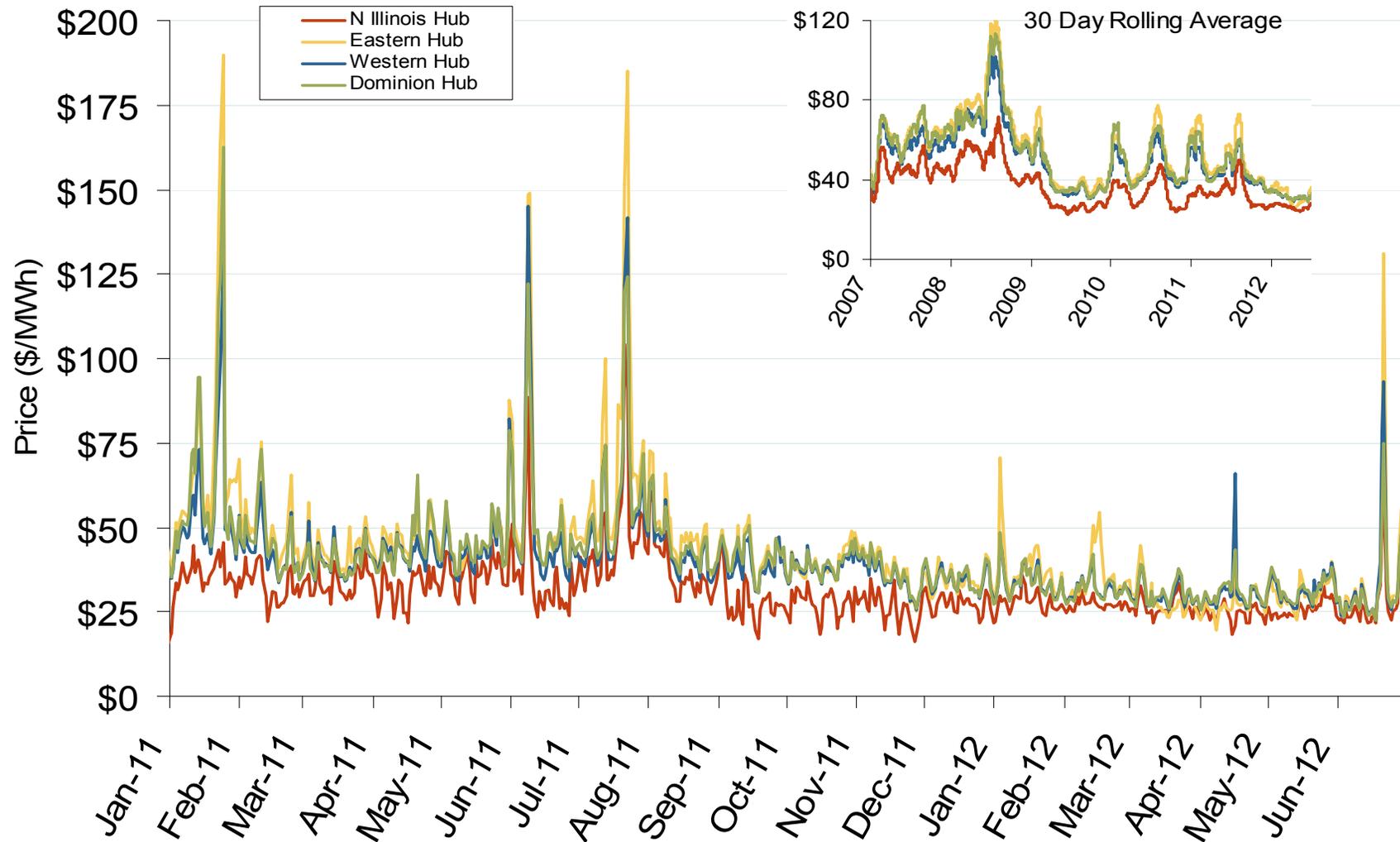
PJM Electric Market: Last Month's RTO Prices

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

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



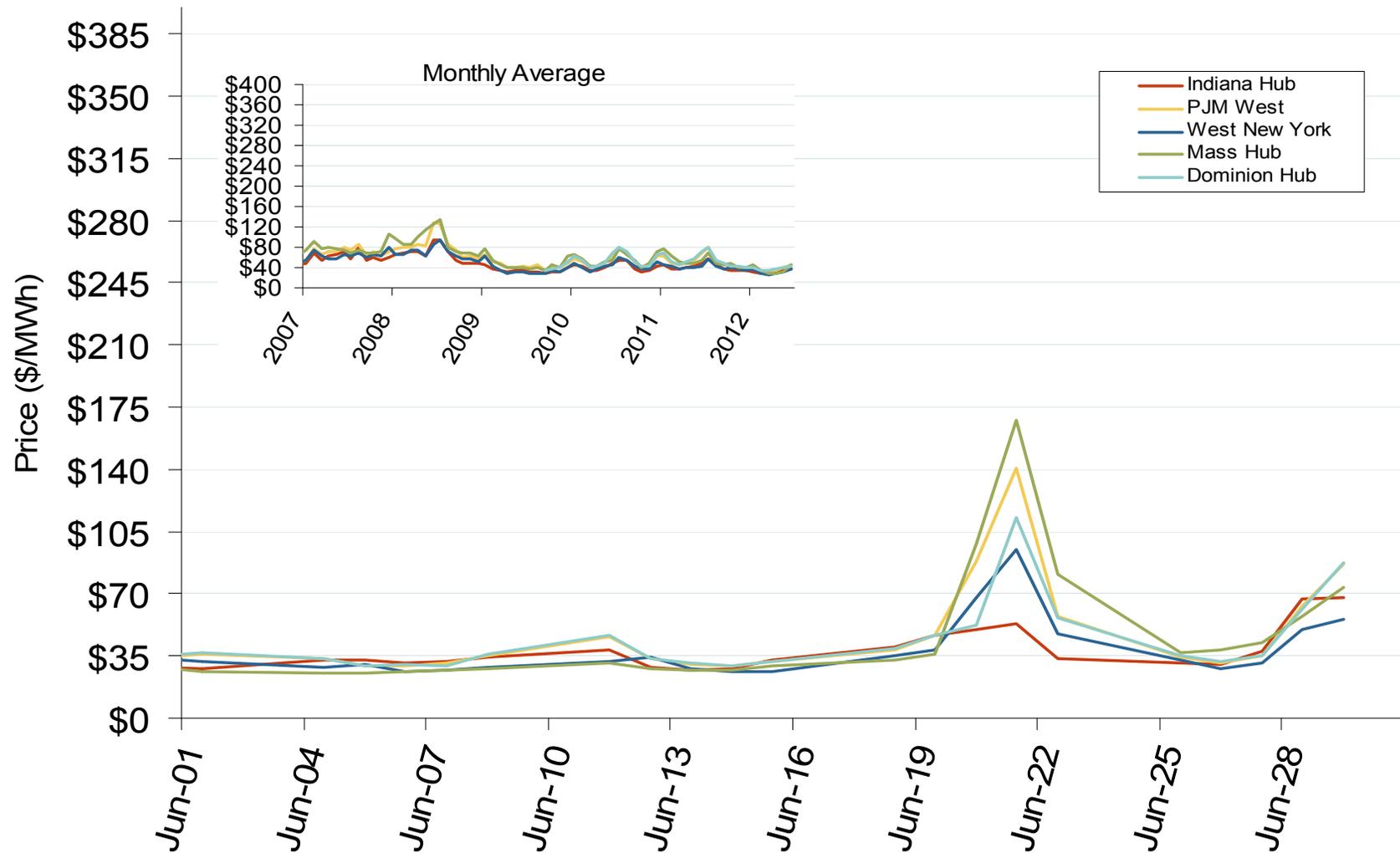
## Daily Average of PJM Day-Ahead Prices - All Hours



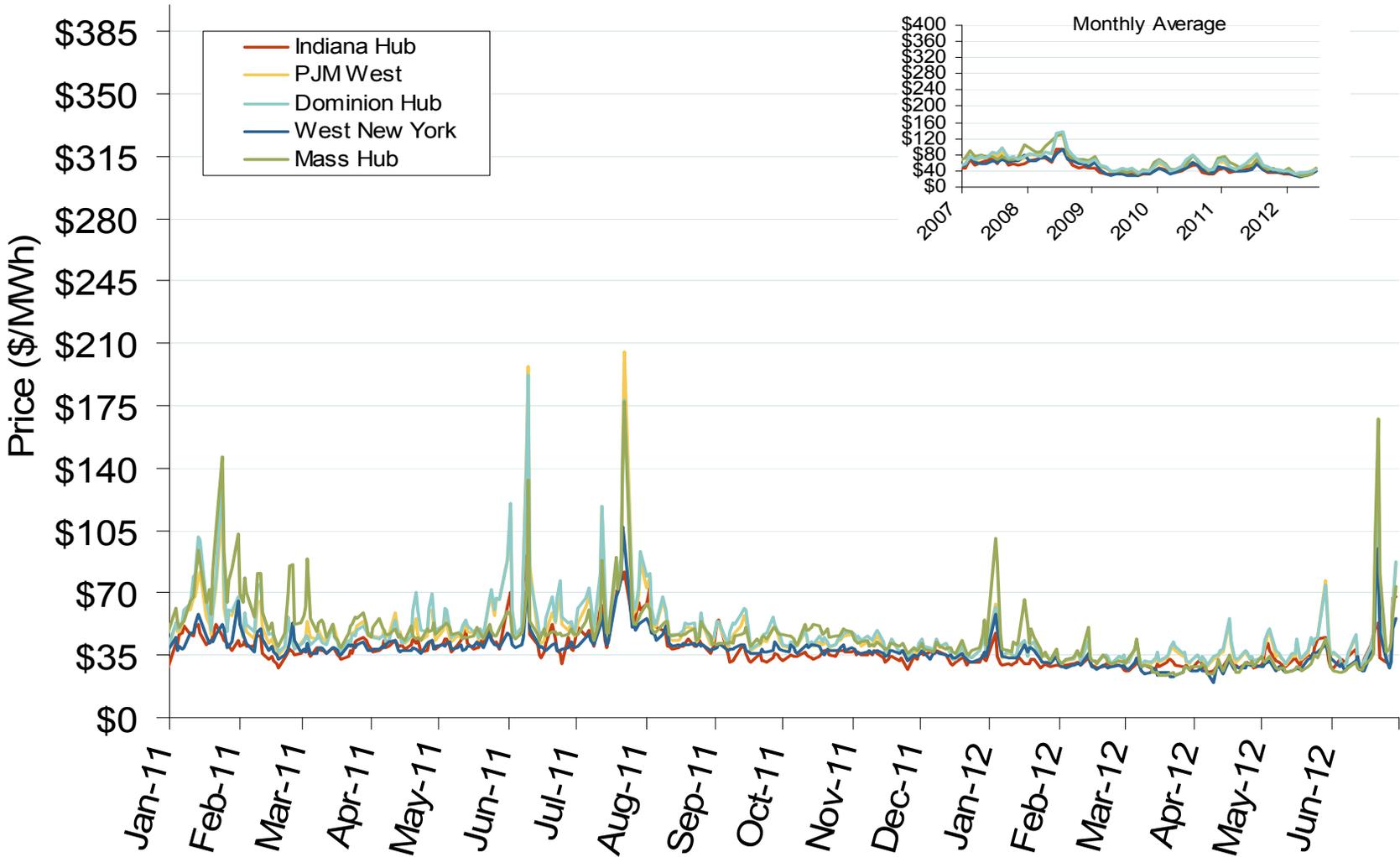
PJM Electric Market: Last Month's Eastern Index Prices

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

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



# Eastern Daily Index Day-Ahead On-Peak Prices



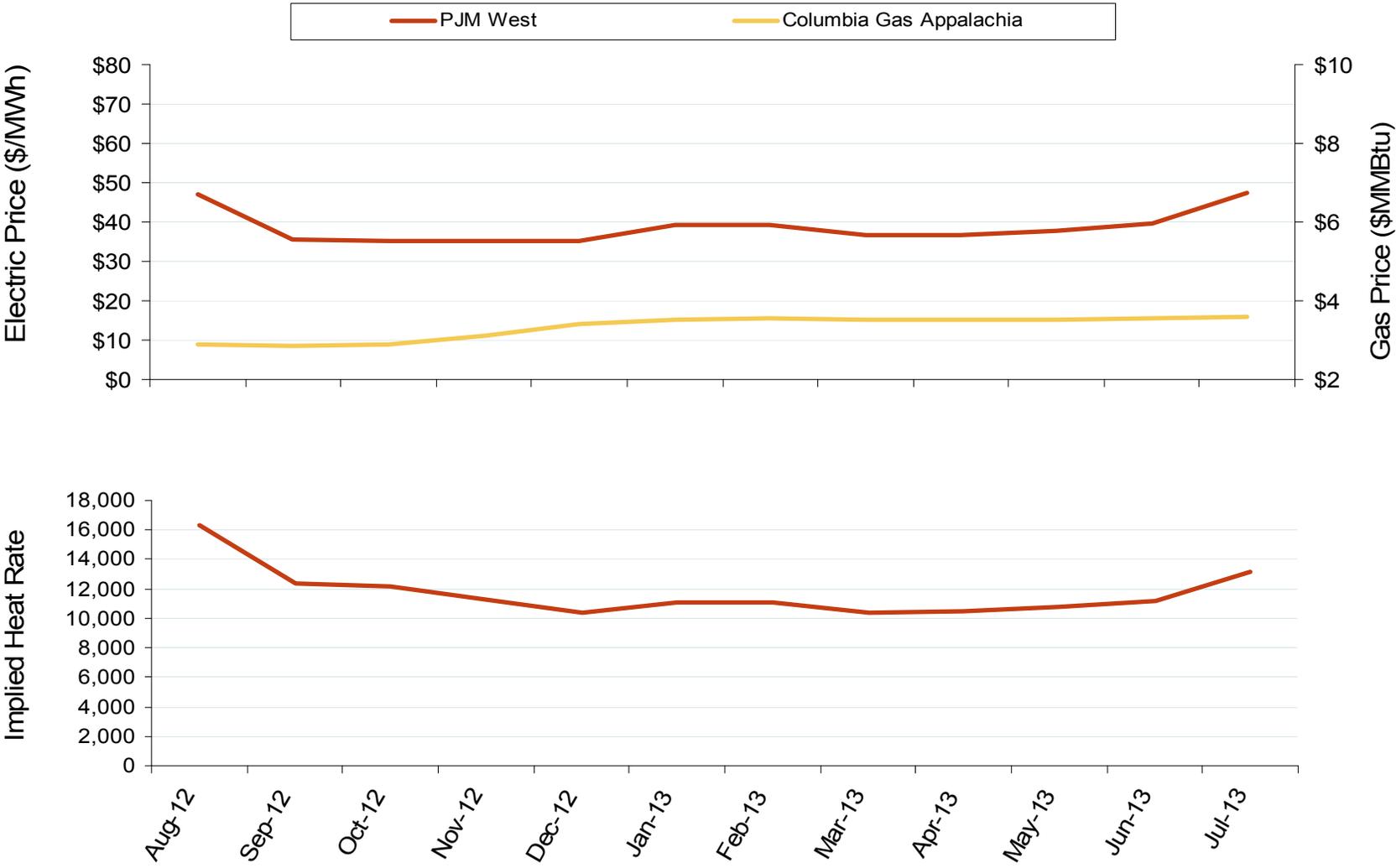
Source: Derived from Platts data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 23, 2012

PJM Electric Market: Forward Price Curve

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

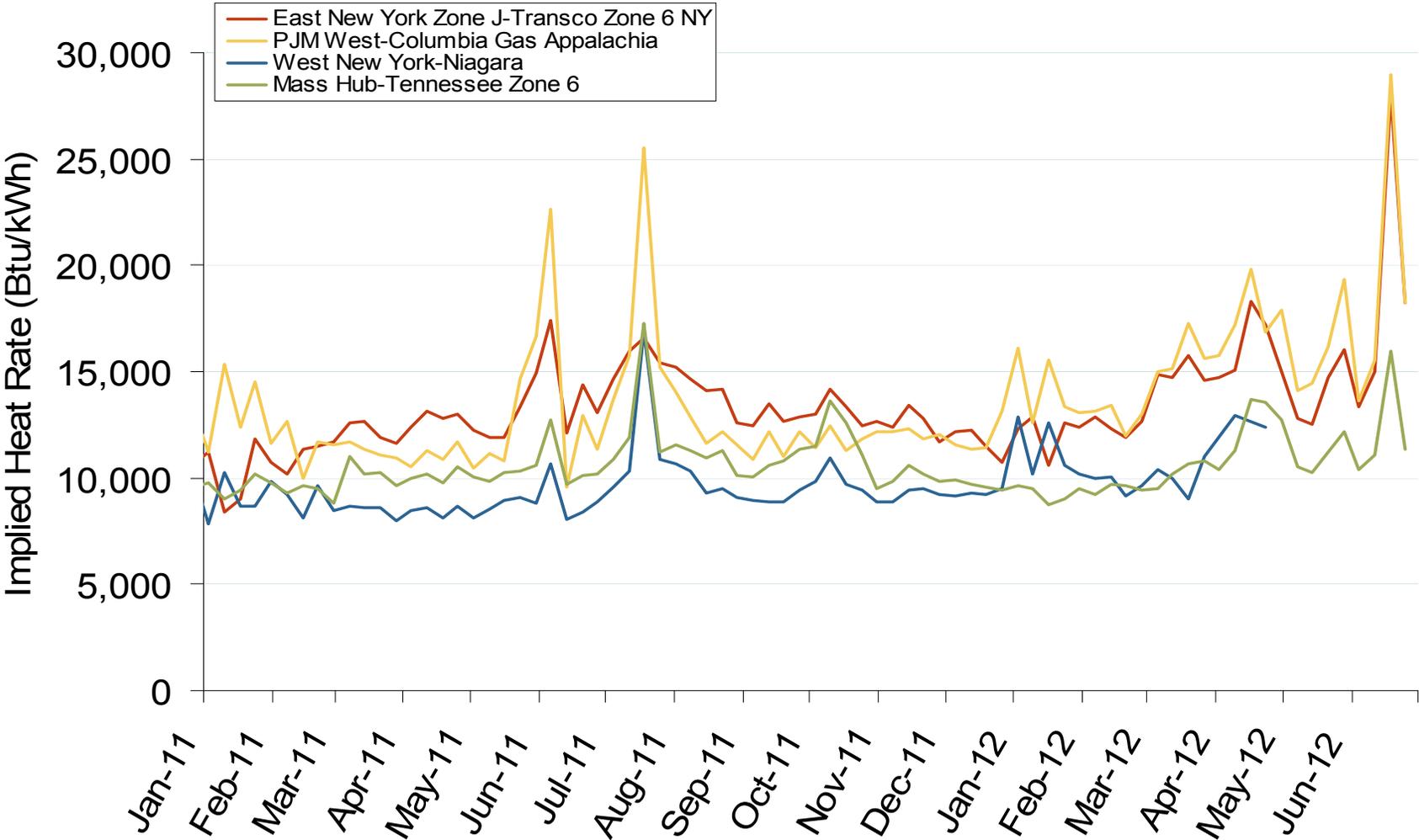
# PJM West Electric Forward Price Curves and Implied Heat Rates



Source: Derived from Nymex data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 13, 2012

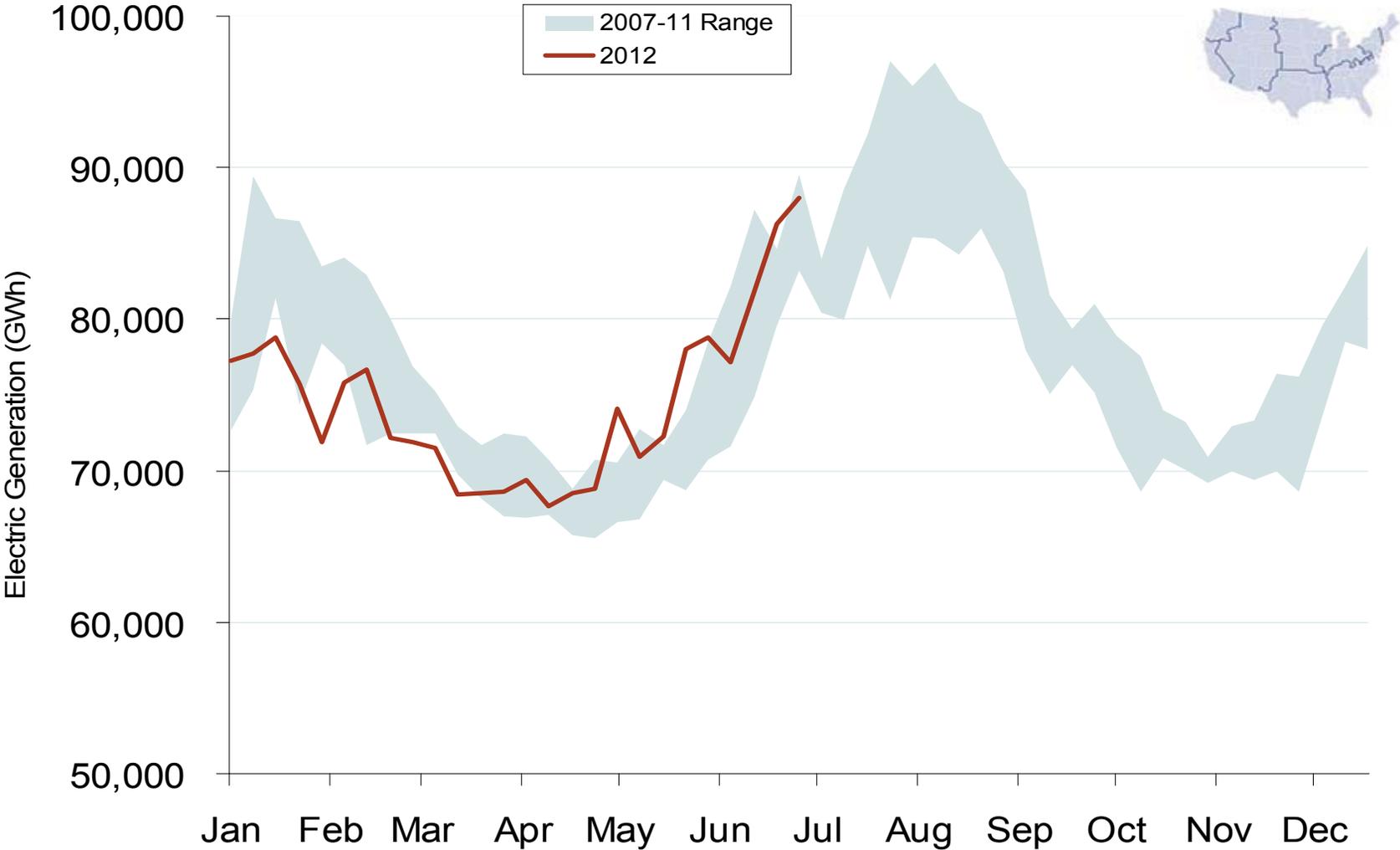
### Implied Heat Rates at Eastern Trading Points - Weekly Avgs.



Source: Derived from Platts on-peak electric and natural gas price data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 10, 2012

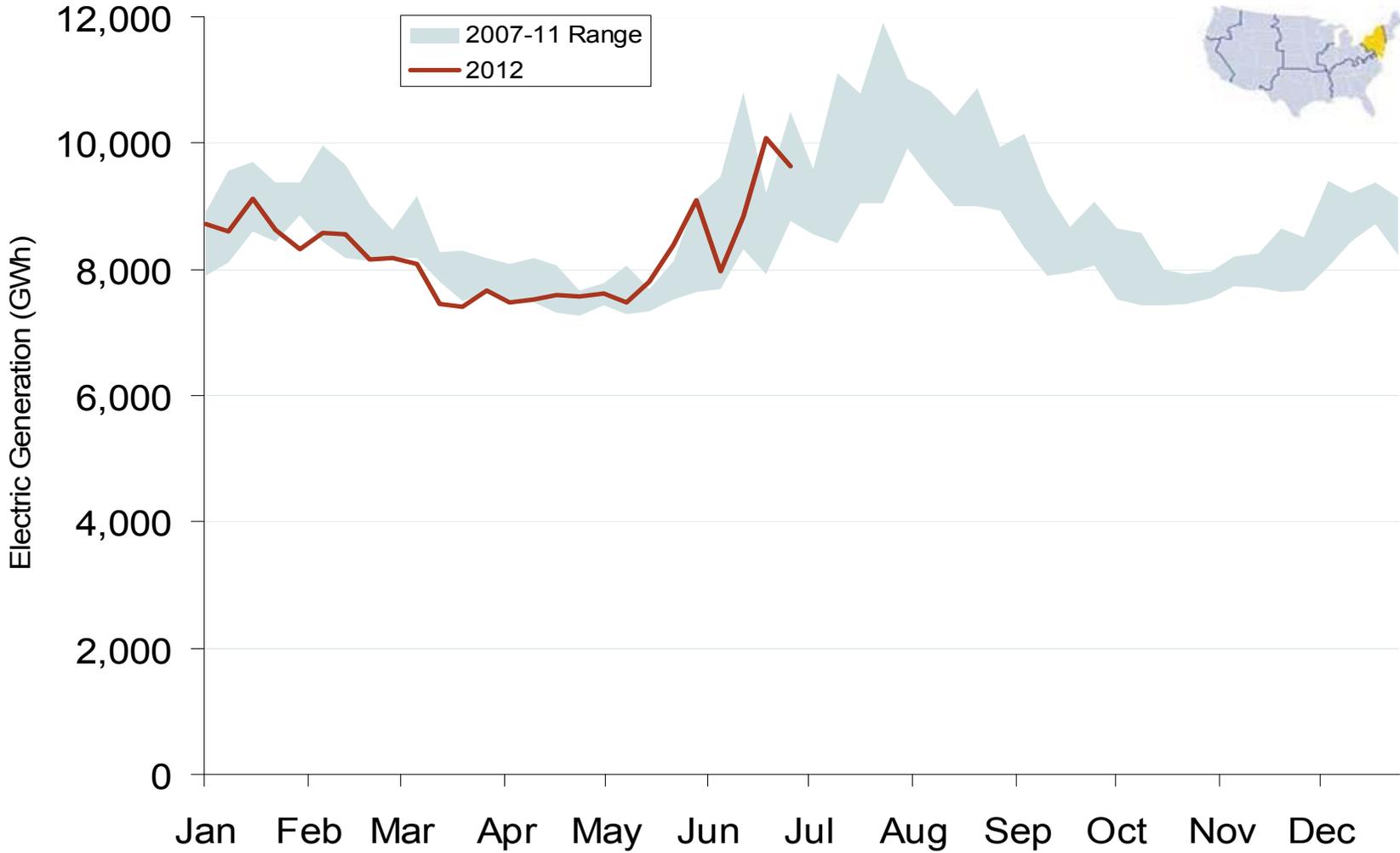
# Weekly U.S. Electric Generation Output



Source: Derived from *EEI* data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 11, 2012

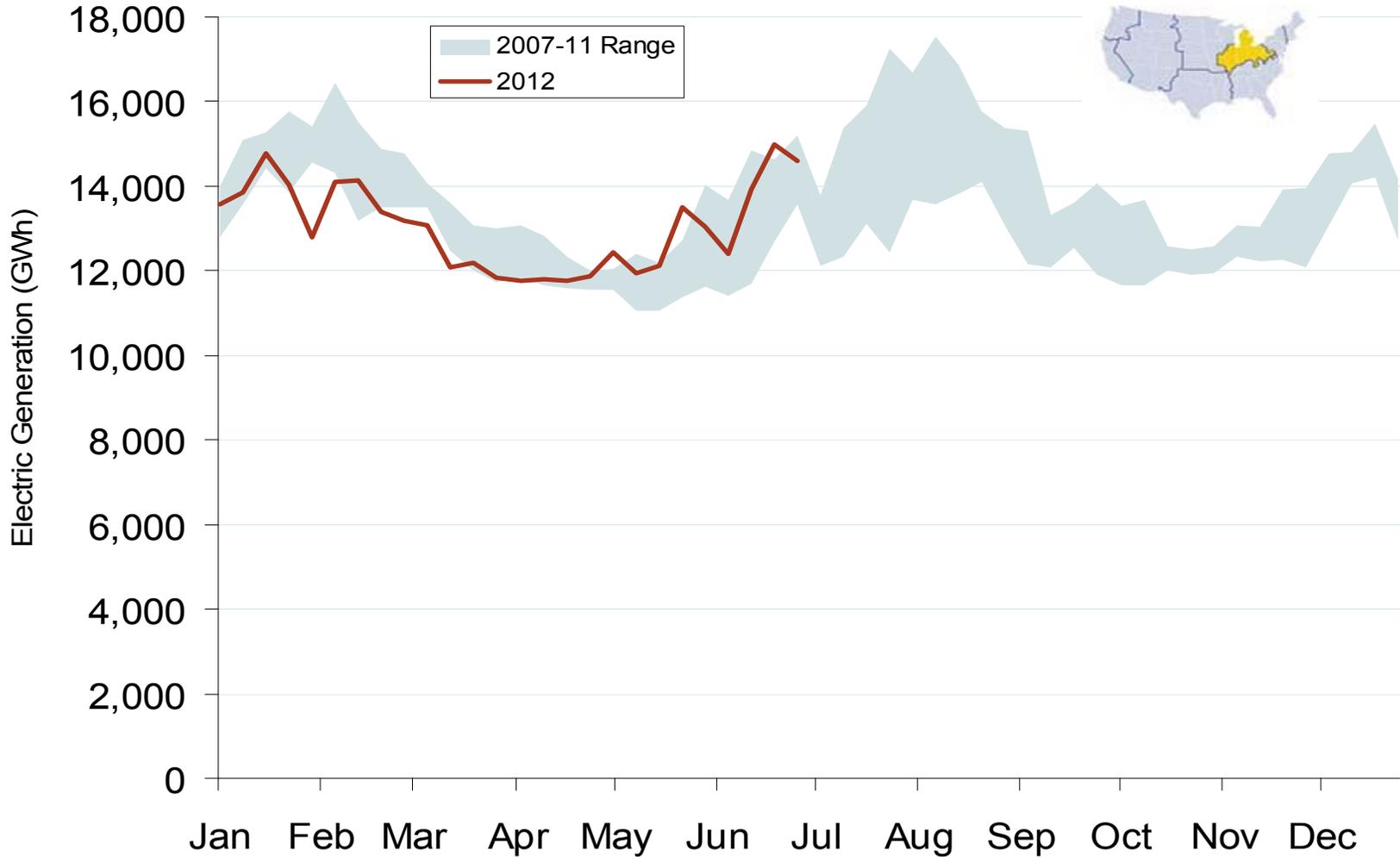
# Weekly Generation Output - Mid Atlantic



Source: Derived from *EEI* data  
July 2012 Mid-Atlantic Snapshot Report

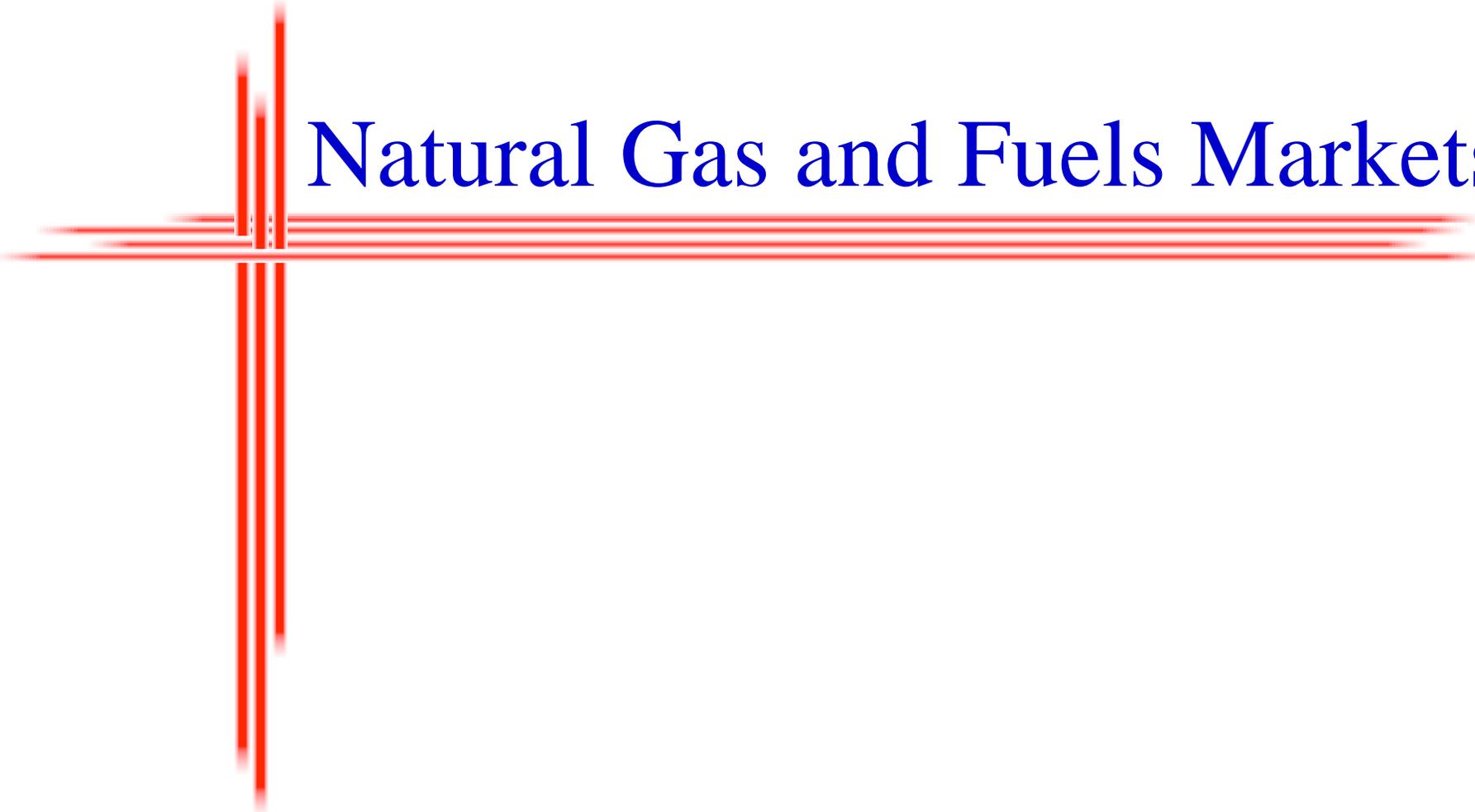
Updated: July 11, 2012

# Weekly Generation Output - Central Industrial Region



Source: Derived from *EEI* data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 11, 2012

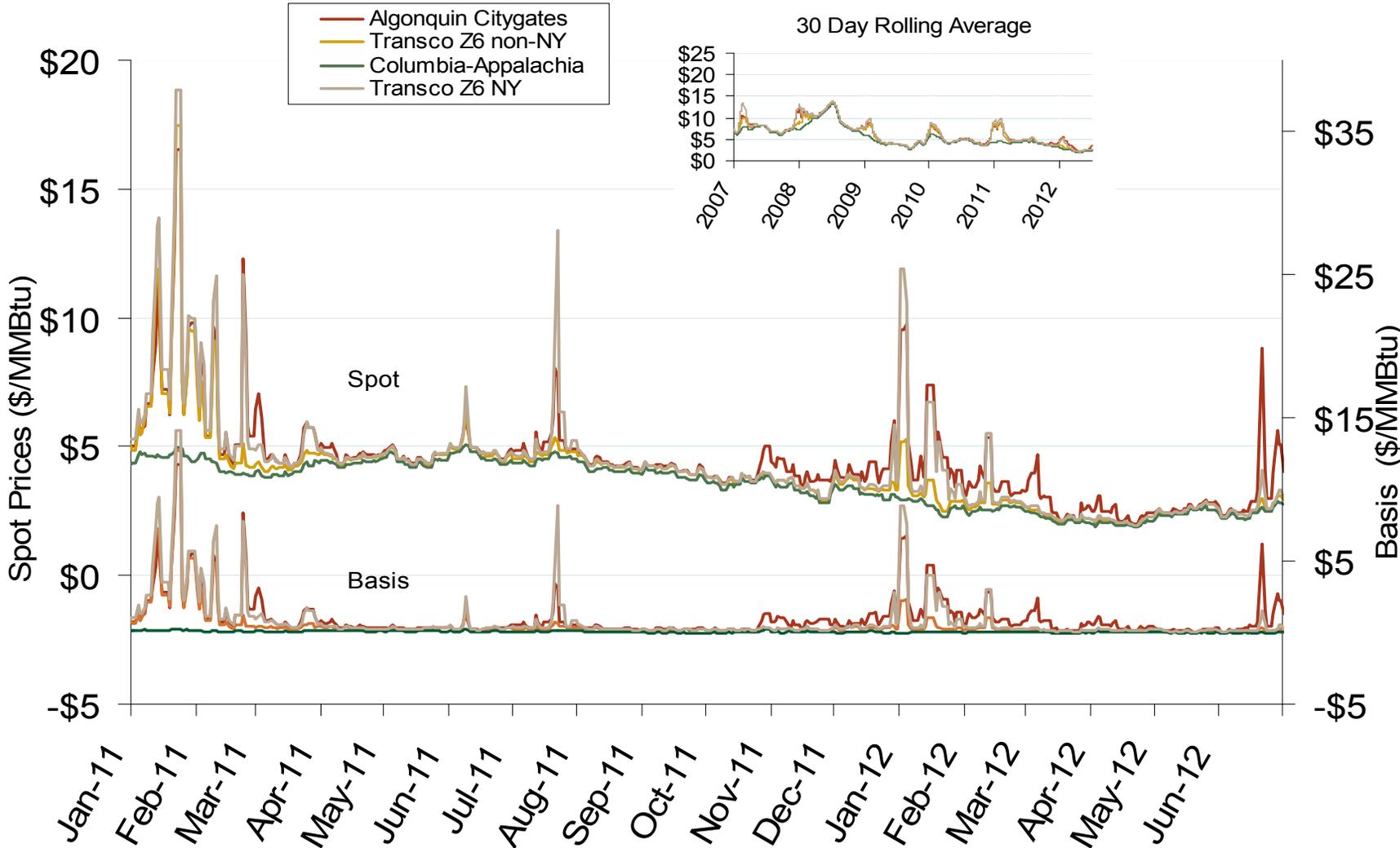


# Natural Gas and Fuels Markets

Northeast Natural Gas Market: Spot Prices and Basis

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

### Northeastern Spot Prices and Basis



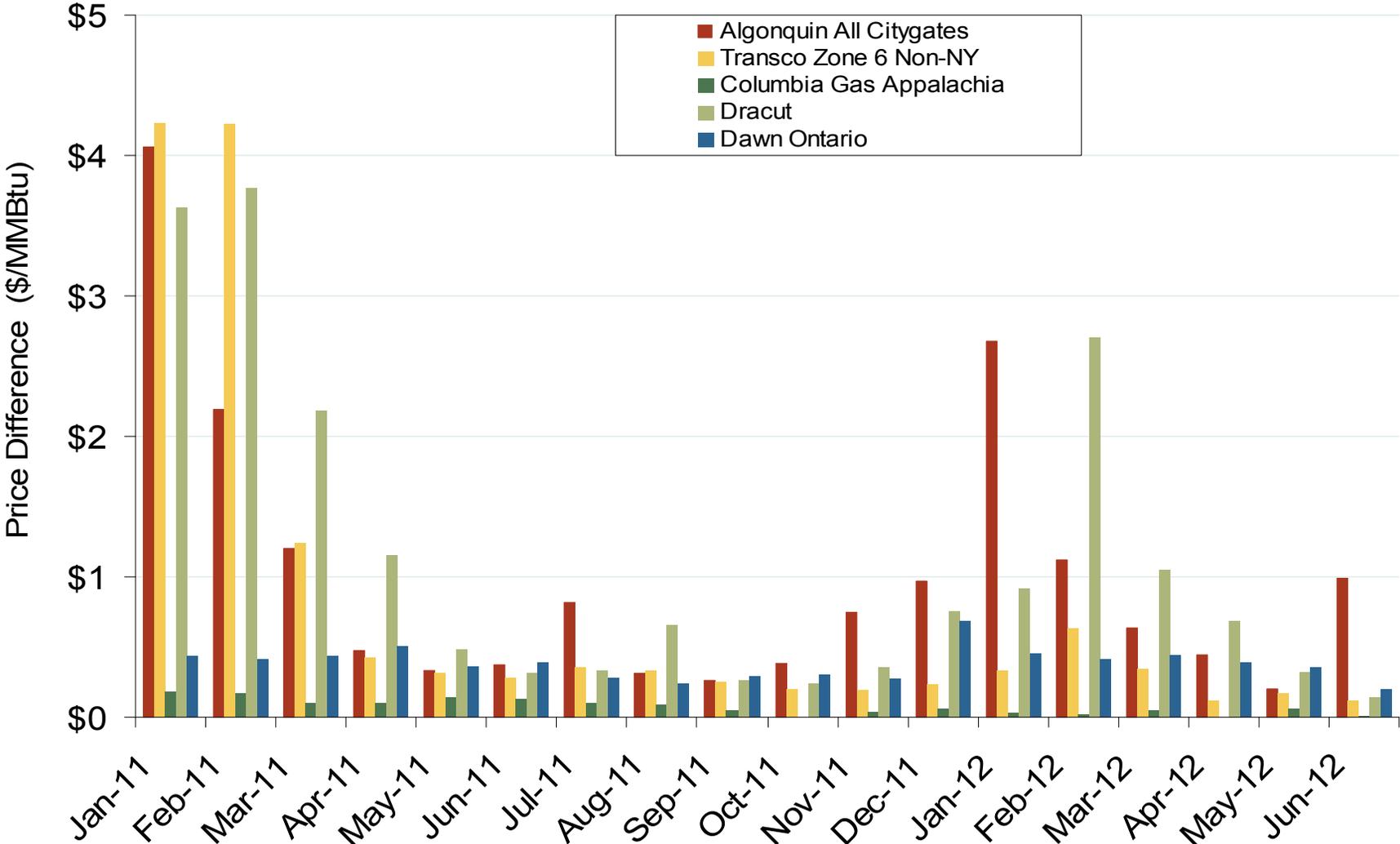
Source: Derived from *Platts* data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 06, 2012

Northeast Natural Gas Market: Average Basis to Henry Hub

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

# Northeastern Monthly Average Basis Value to Henry Hub



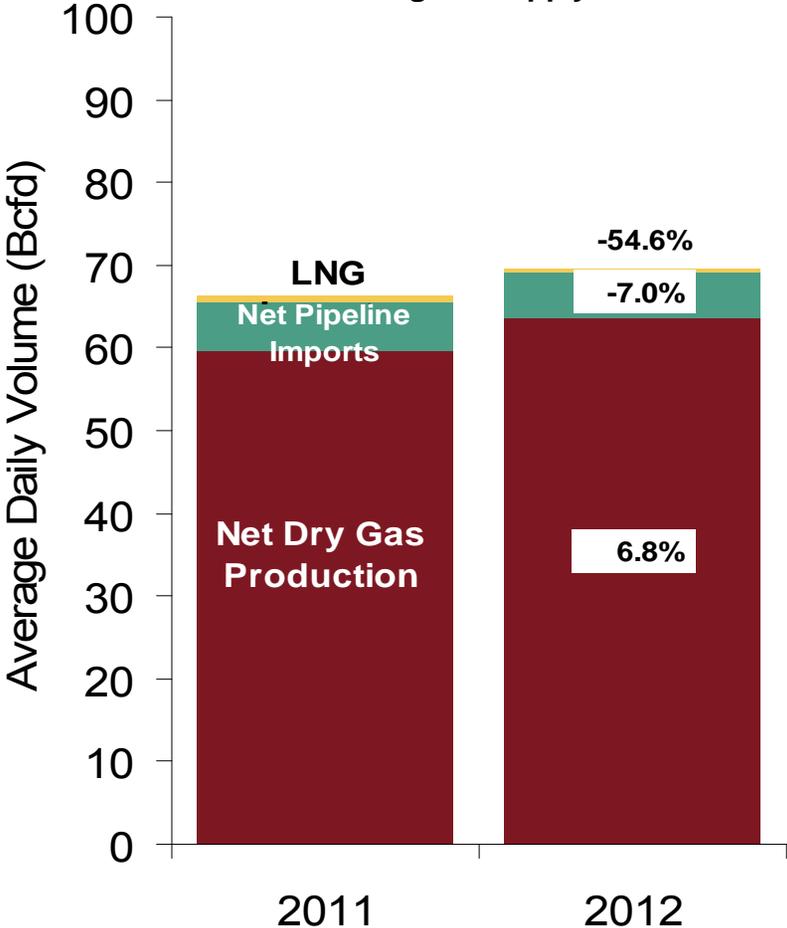
Source: Derived from Platts data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 06, 2012

# U.S. NG Supply and Demand 2011 vs. 2012: January - June

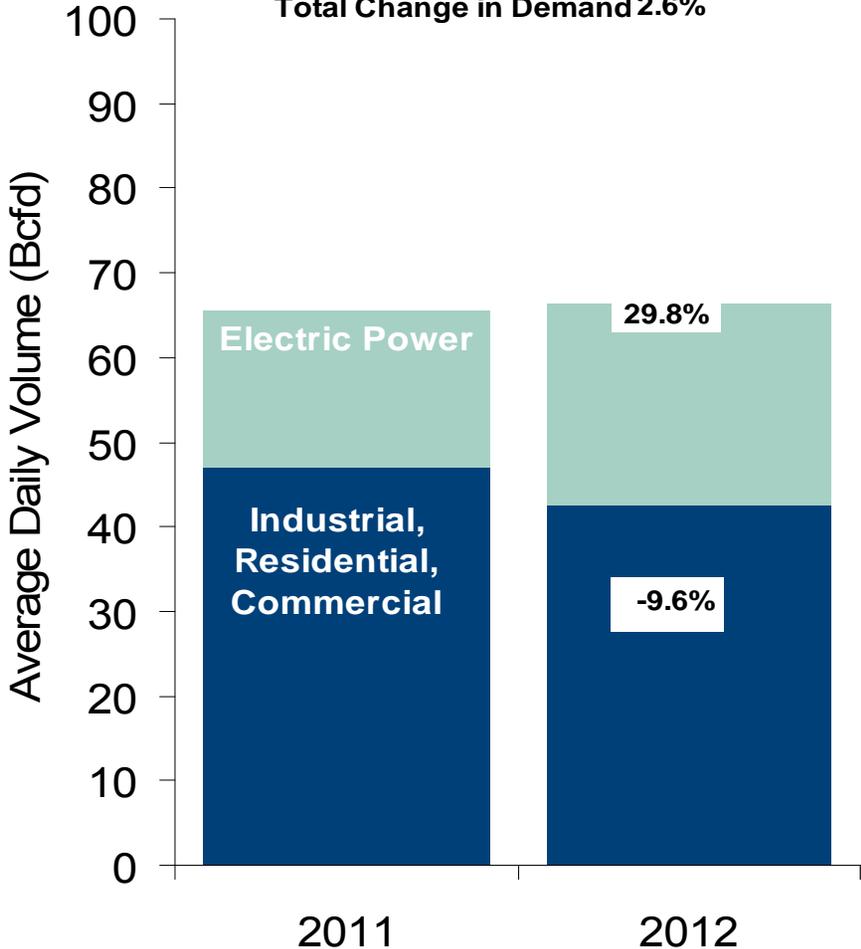
## US Natural Gas Supply

Total Change in Supply 4.7%



## US Natural Gas Demand

Total Change in Demand 2.6%



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

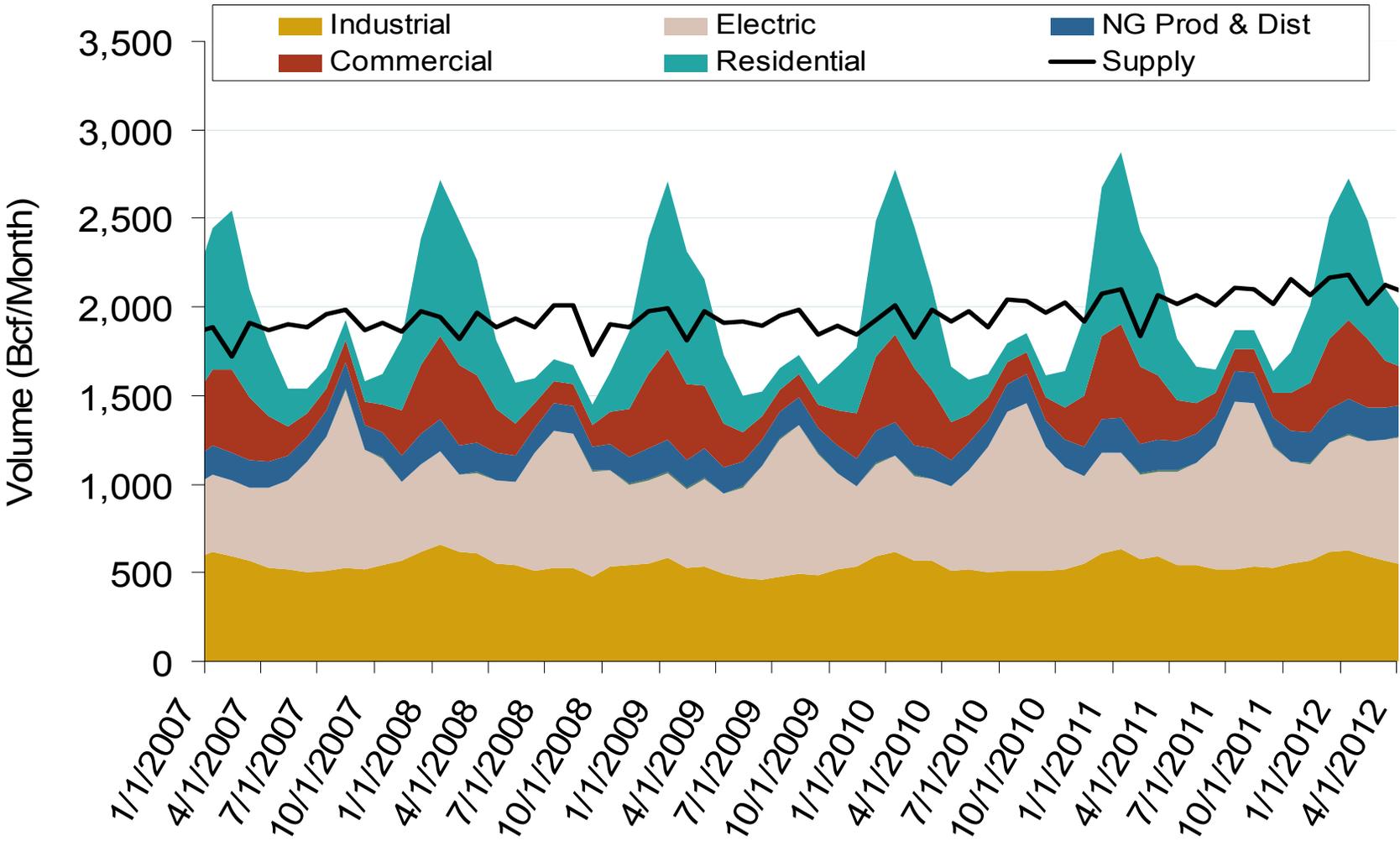
Source: Derived from *Bentek Energy* data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 11, 2012

Natural Gas market Overview: Consumption by Sector

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

Annual U.S. Natural Gas Consumption by Sector



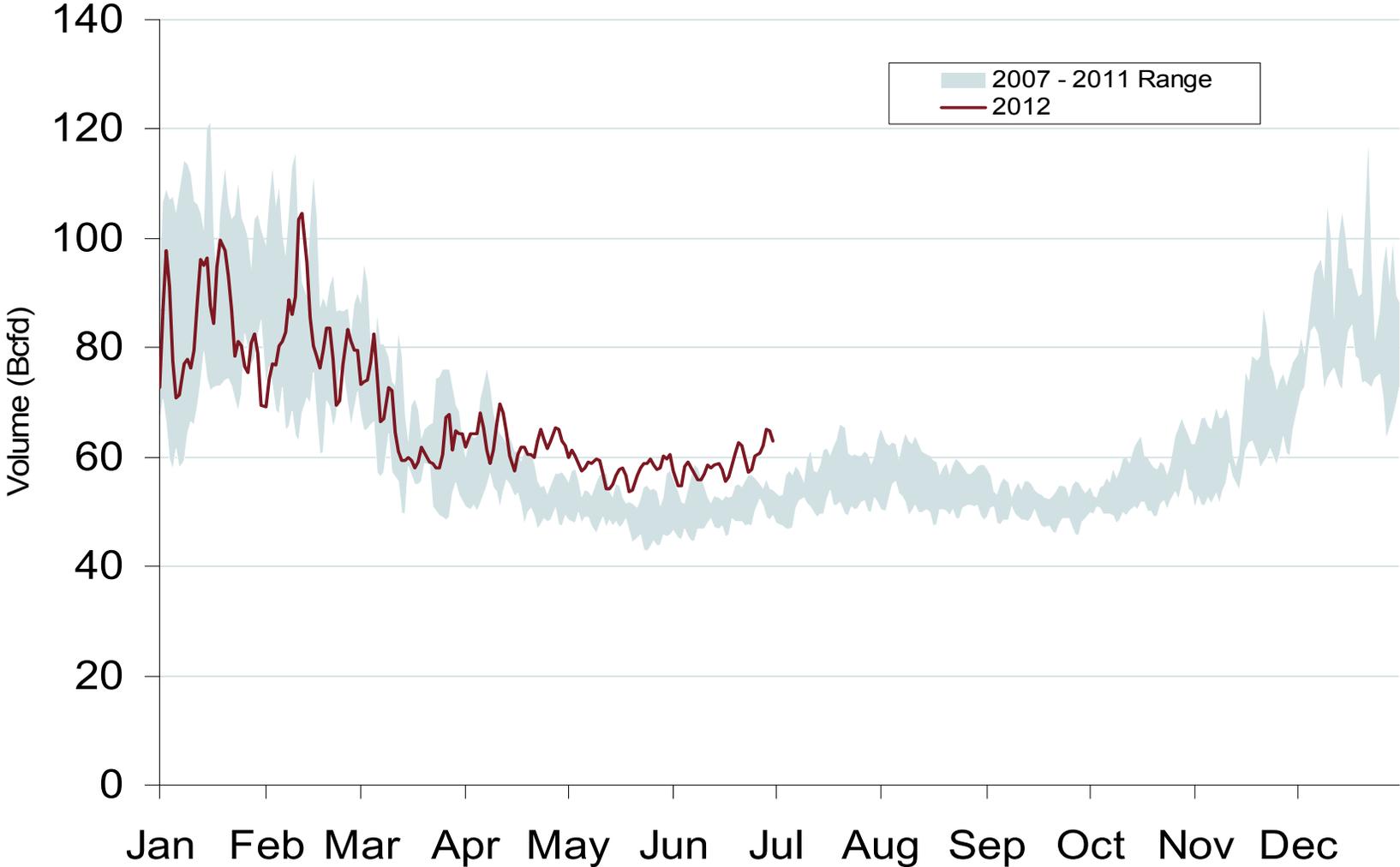
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

Natural Gas Market Overview: Total US Gas Demand

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

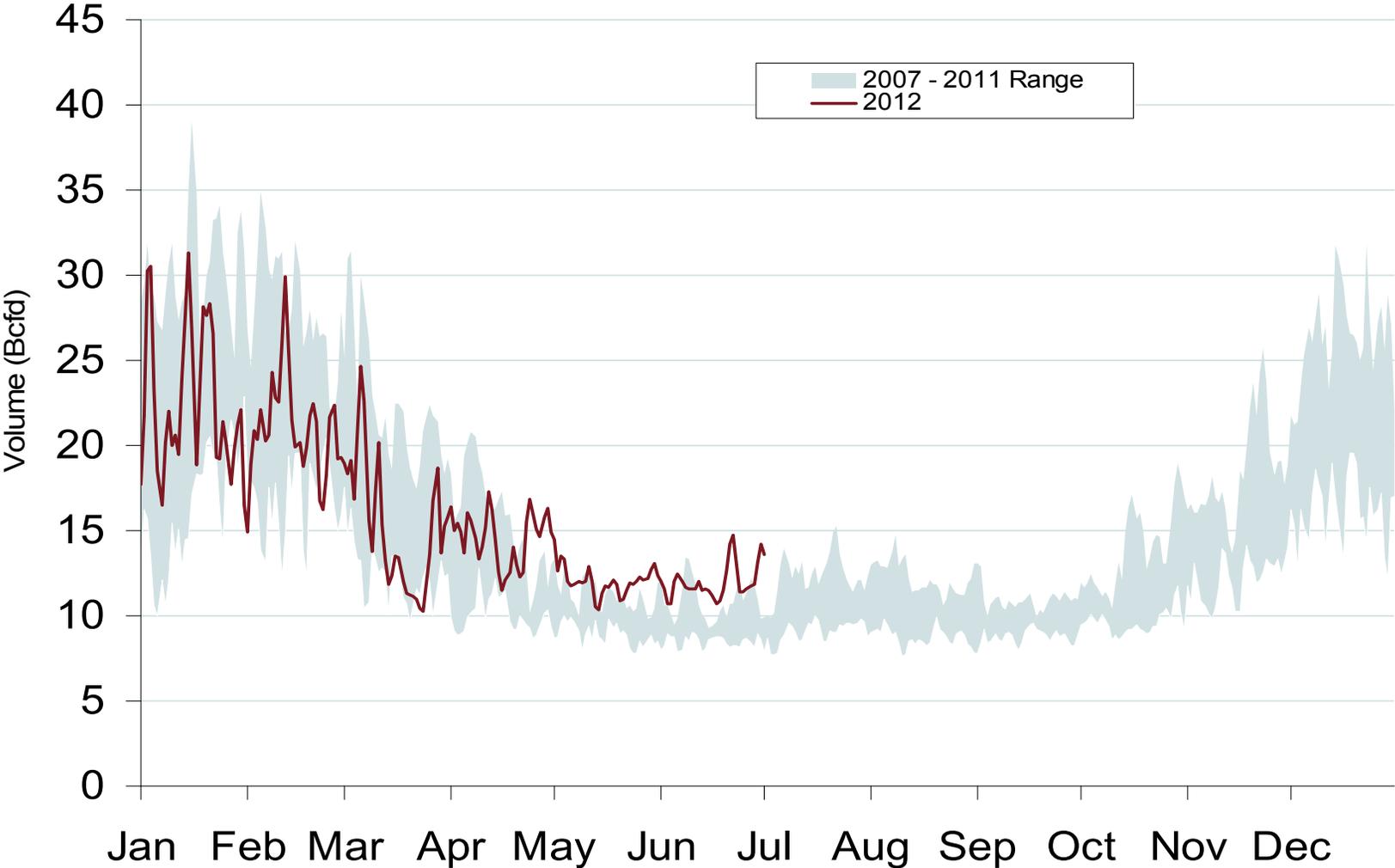
### Total U.S. Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 17, 2012

### Daily Northeast Natural Gas Demand All Sectors



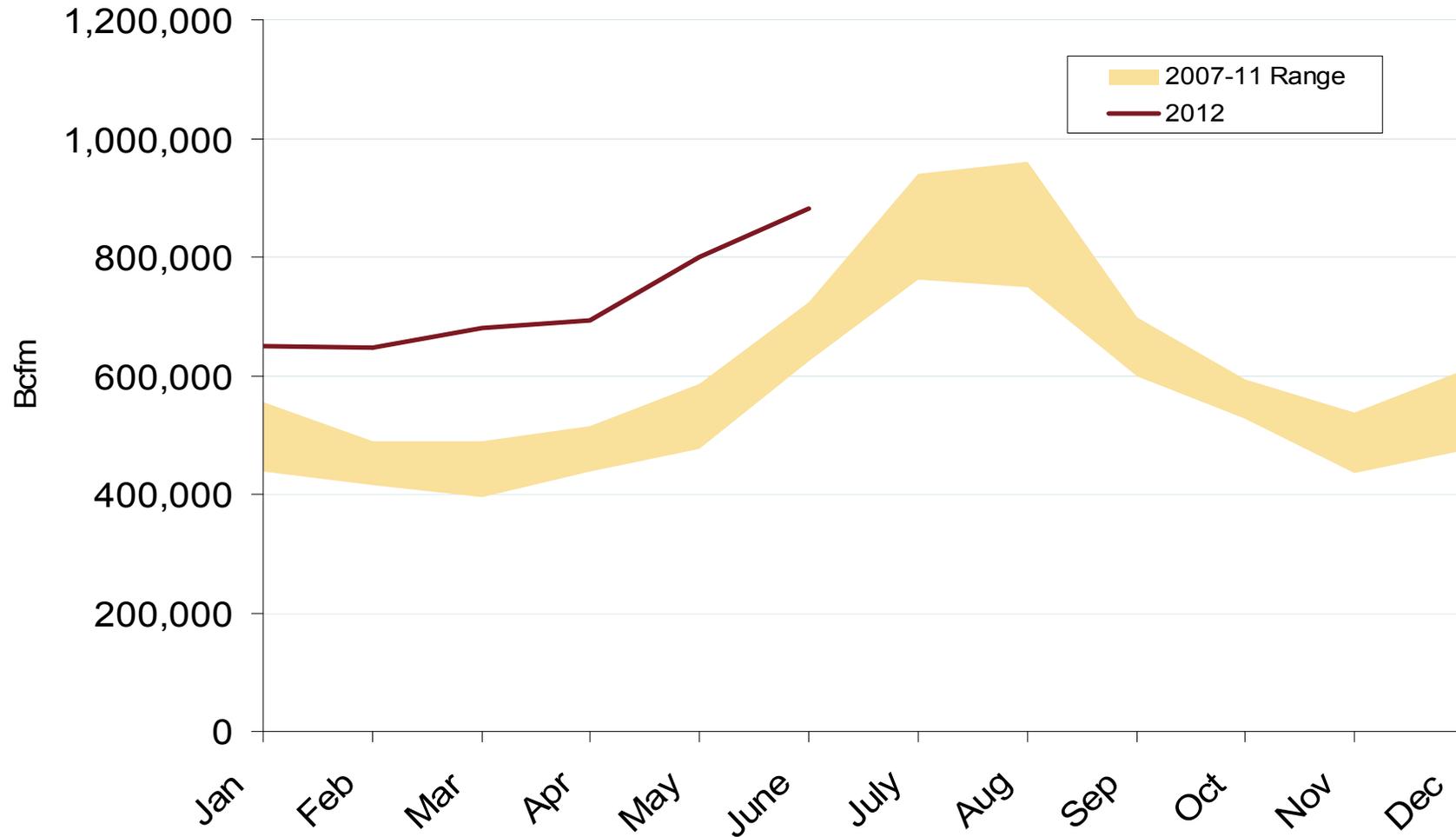
Source: Derived from *Bentek Energy* and Weekly NOAA data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 17, 2012

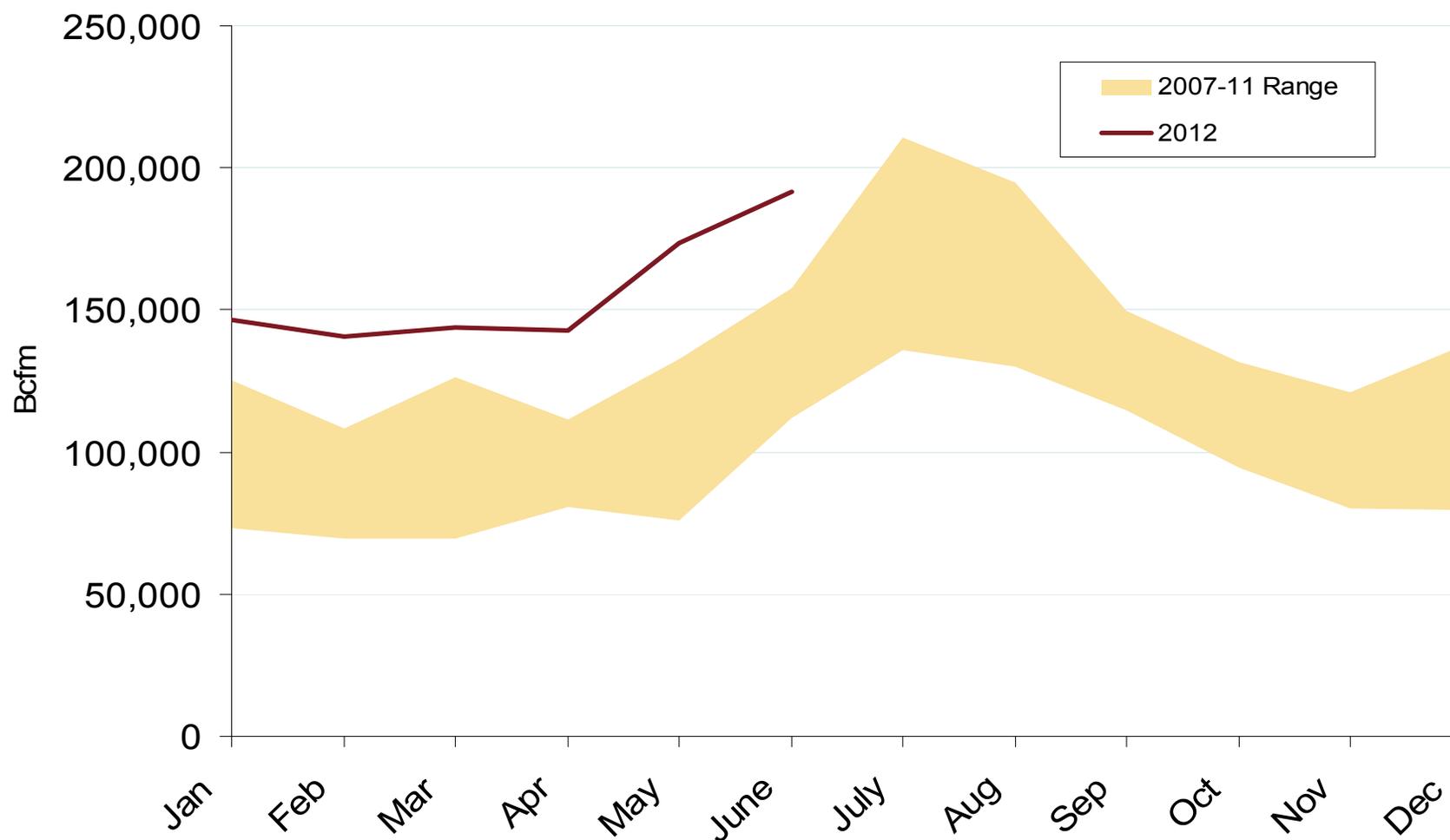
## Natural Gas Market Overview: NG Consumption for Power Generation

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

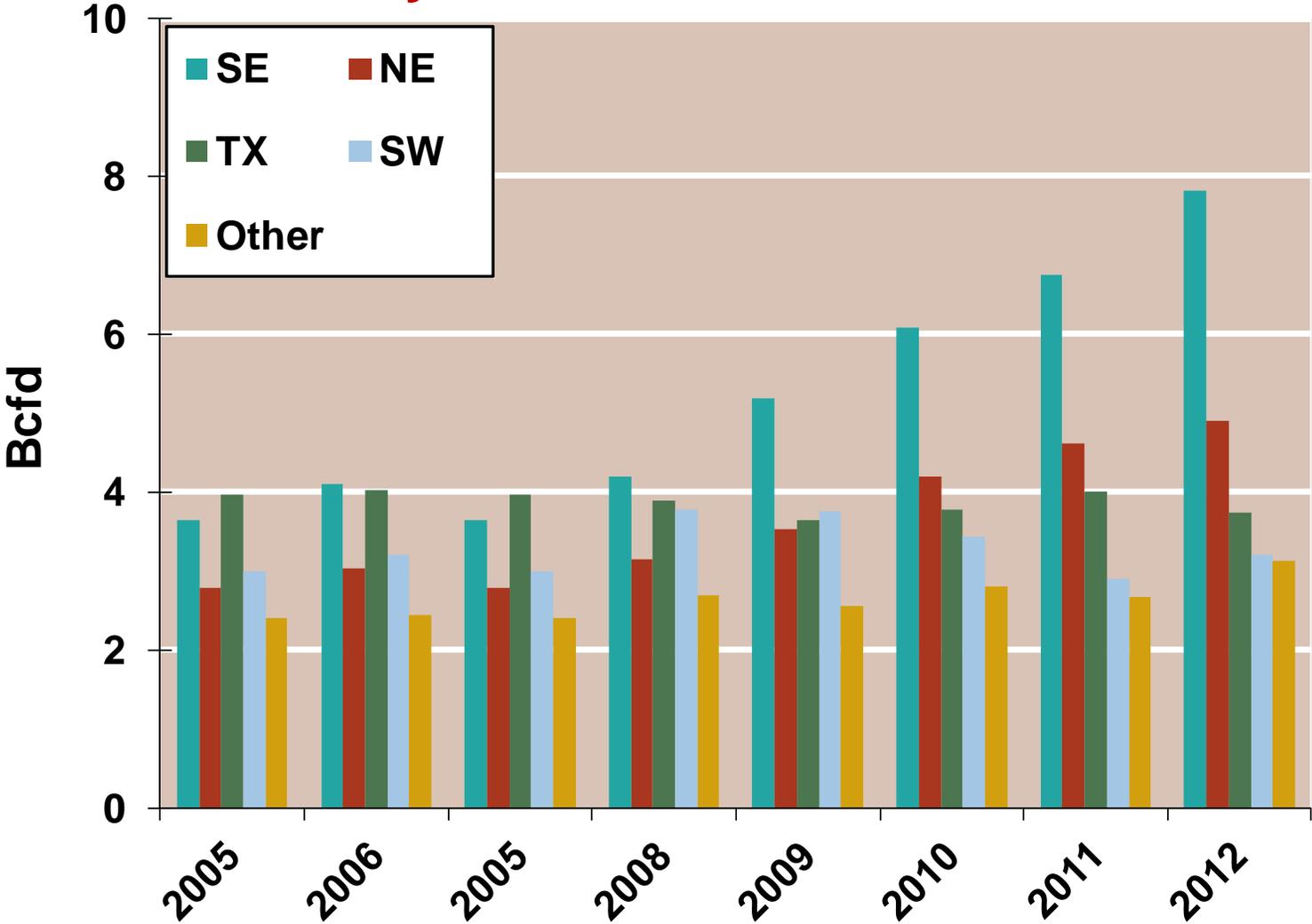
### U.S. Natural Gas Consumption for Power Generation



## Northeast Natural Gas Market: NG Consumption for Power Generation

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Northeast Natural Gas Consumption for Power Generation**

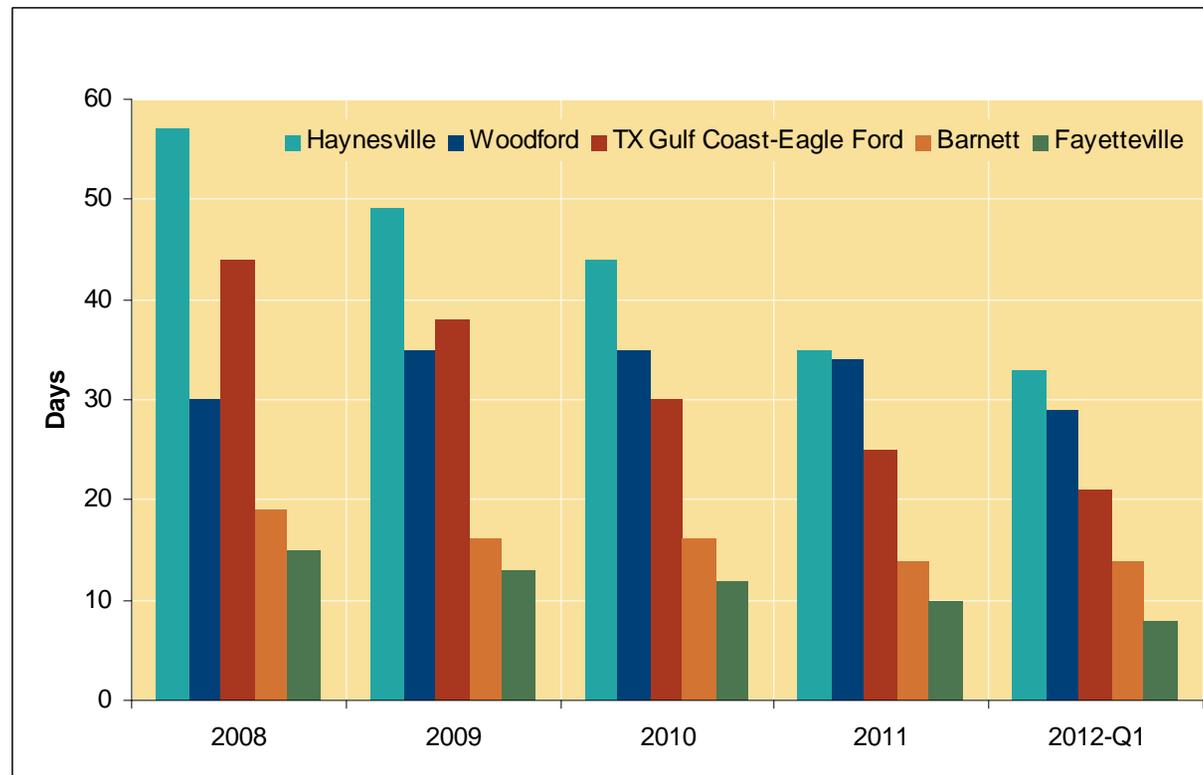
# The Southeast Drives Gas Power Burn by U.S. Power Generators



Source: Derived from Bentek Energy data.

Updated June 2012

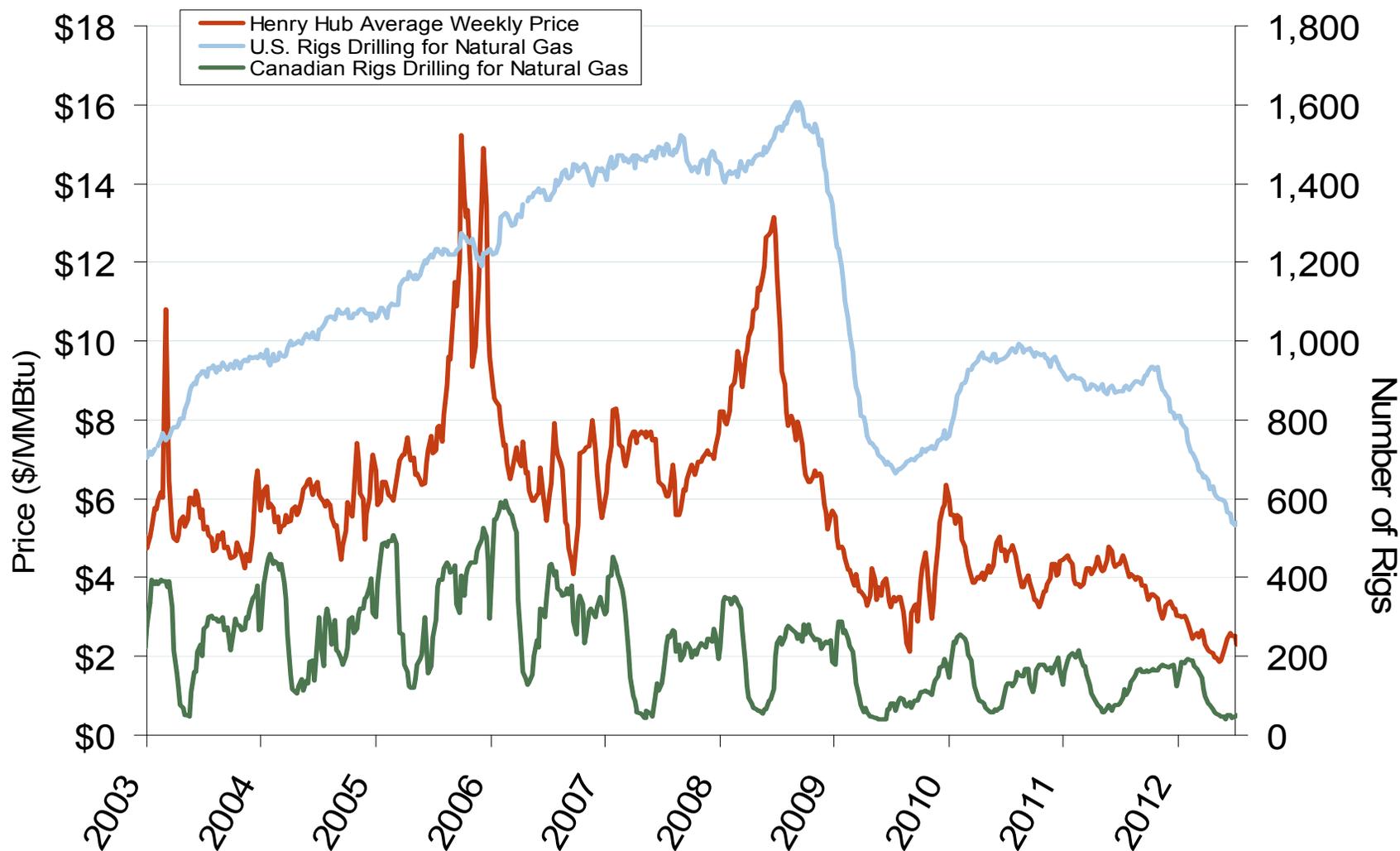
## Well Drill Times Continue to Decline



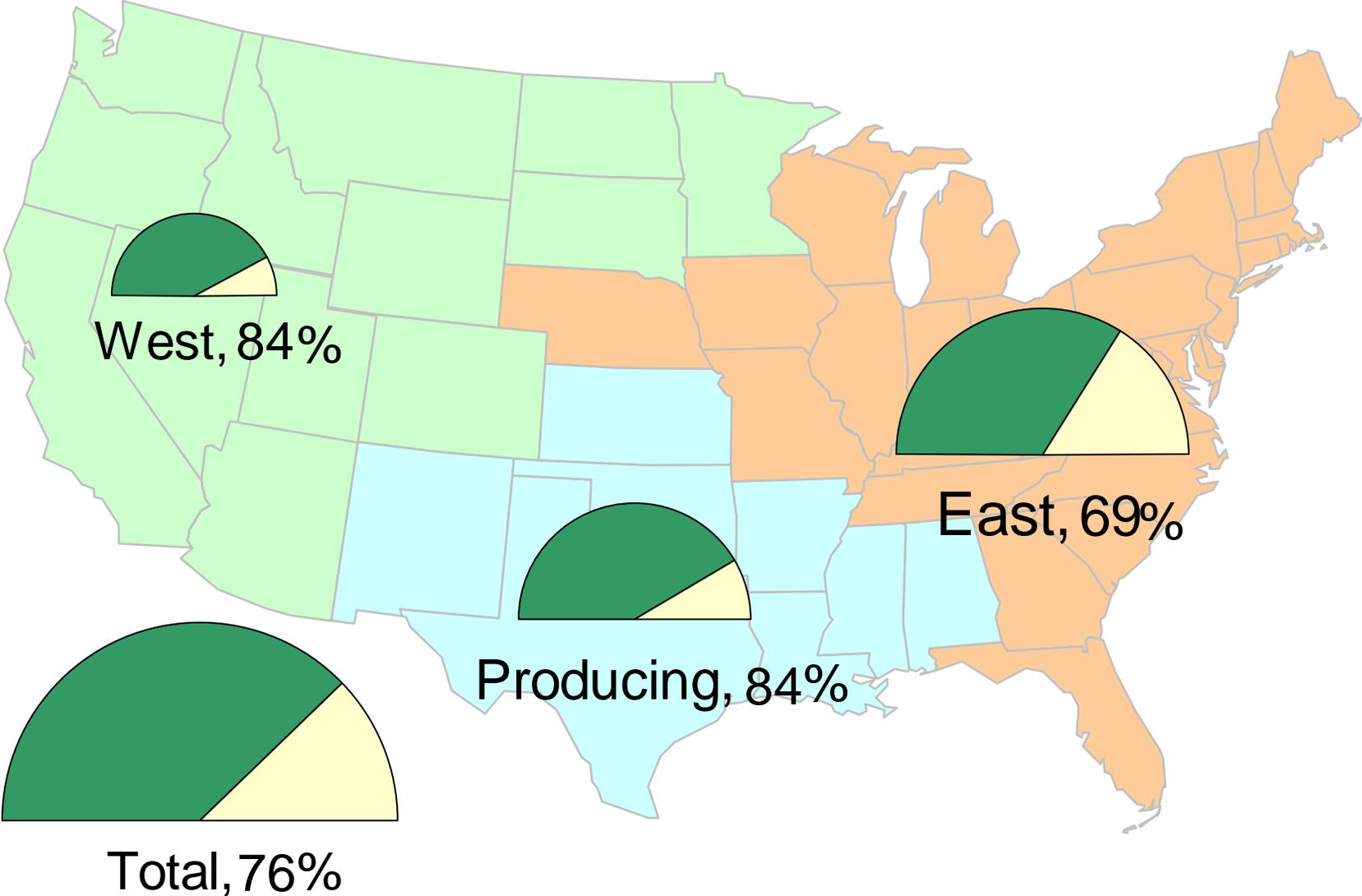
Source: Derived from Bentek Southeast/Gulf Production Monitor

Updated March 5, 2010

## Natural Gas Market Overview: Drilling Rig Count

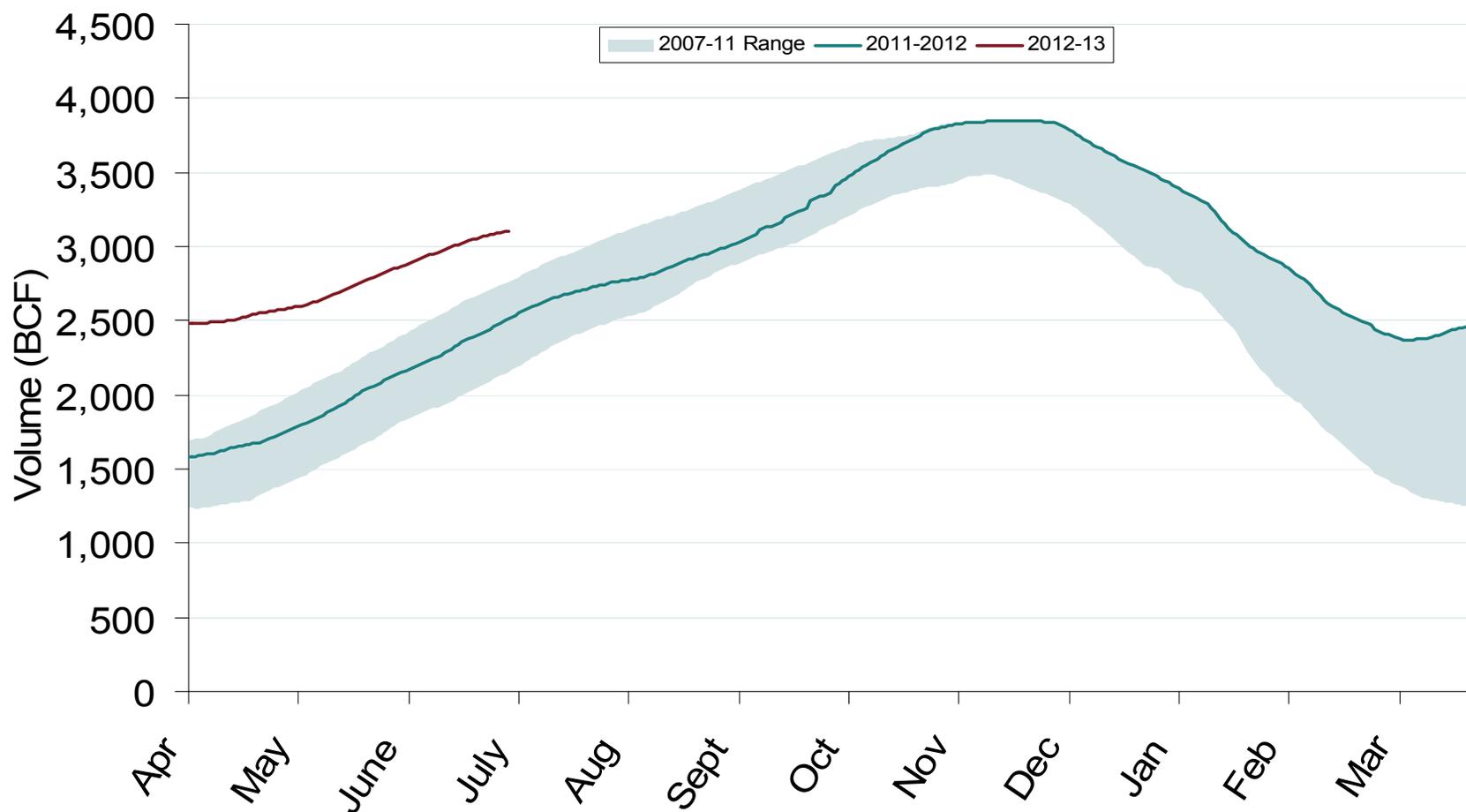
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices**

# Natural Gas Storage Inventories – July 6, 2012



Source: Derived from EIA Storage and Estimated Working Gas Capacity data  
July 2012 Mid-Atlantic Snapshot Report

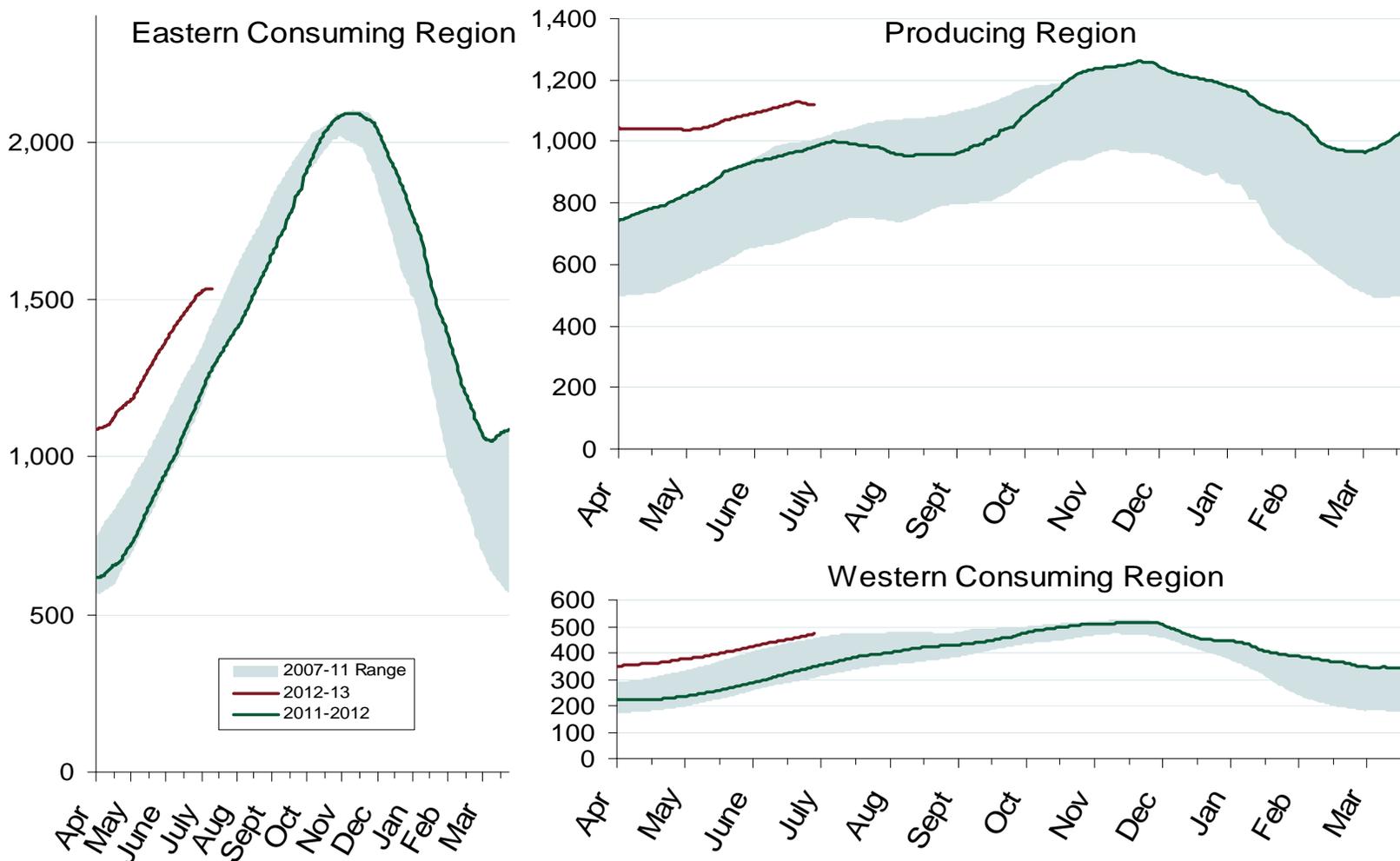
## Natural Gas Market Overview: National Storage

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Total U.S. Working Gas in Storage**

Natural Gas Market Overview: Regional Storage

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

## Regional Totals of Working Gas in Storage



## Natural Gas Overview: World LNG Prices

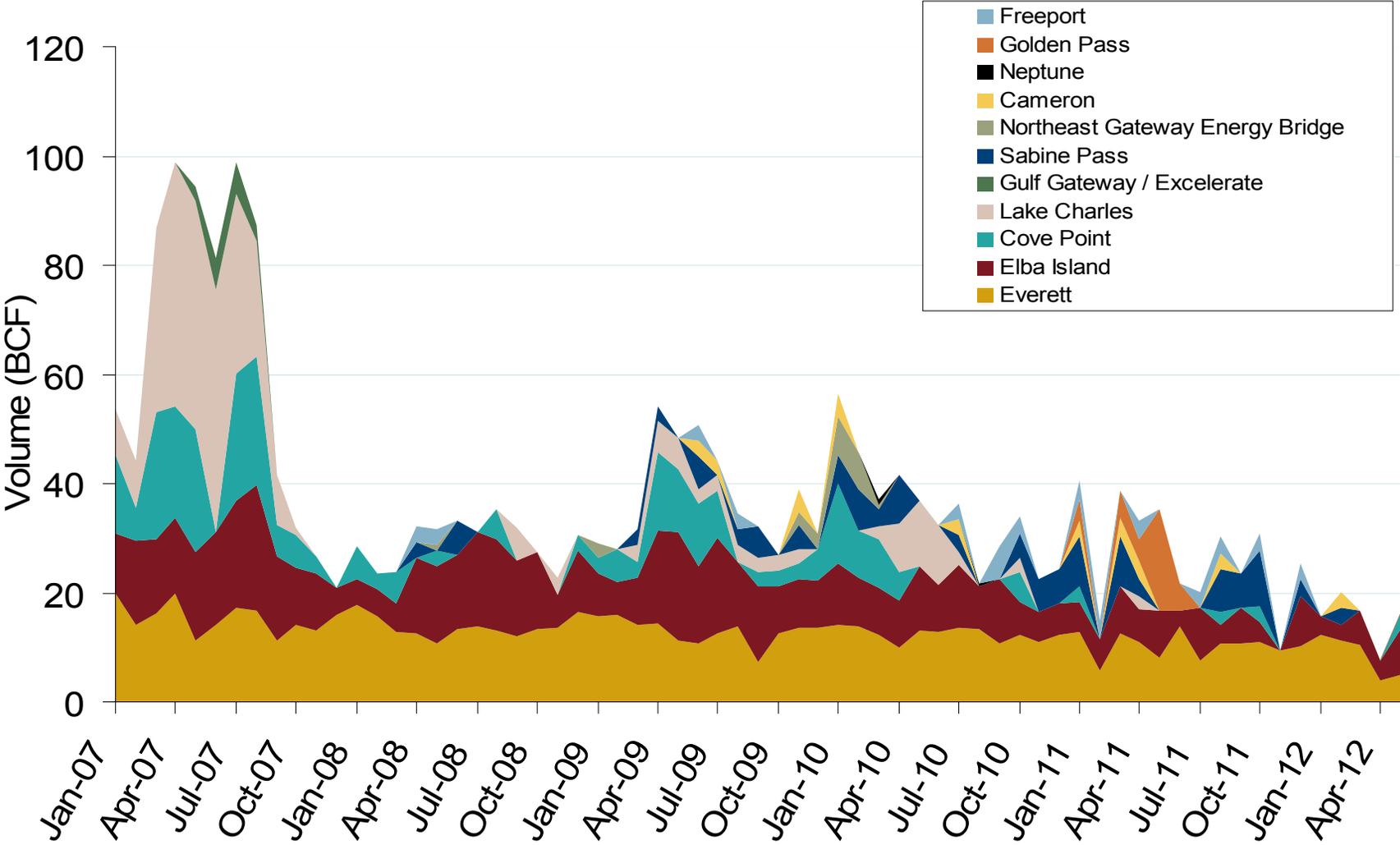
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**World LNG Estimated August 2012 Landed Prices**

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

July 2012 Mid-Atlantic Snapshot Report

Updated: July 11, 2012

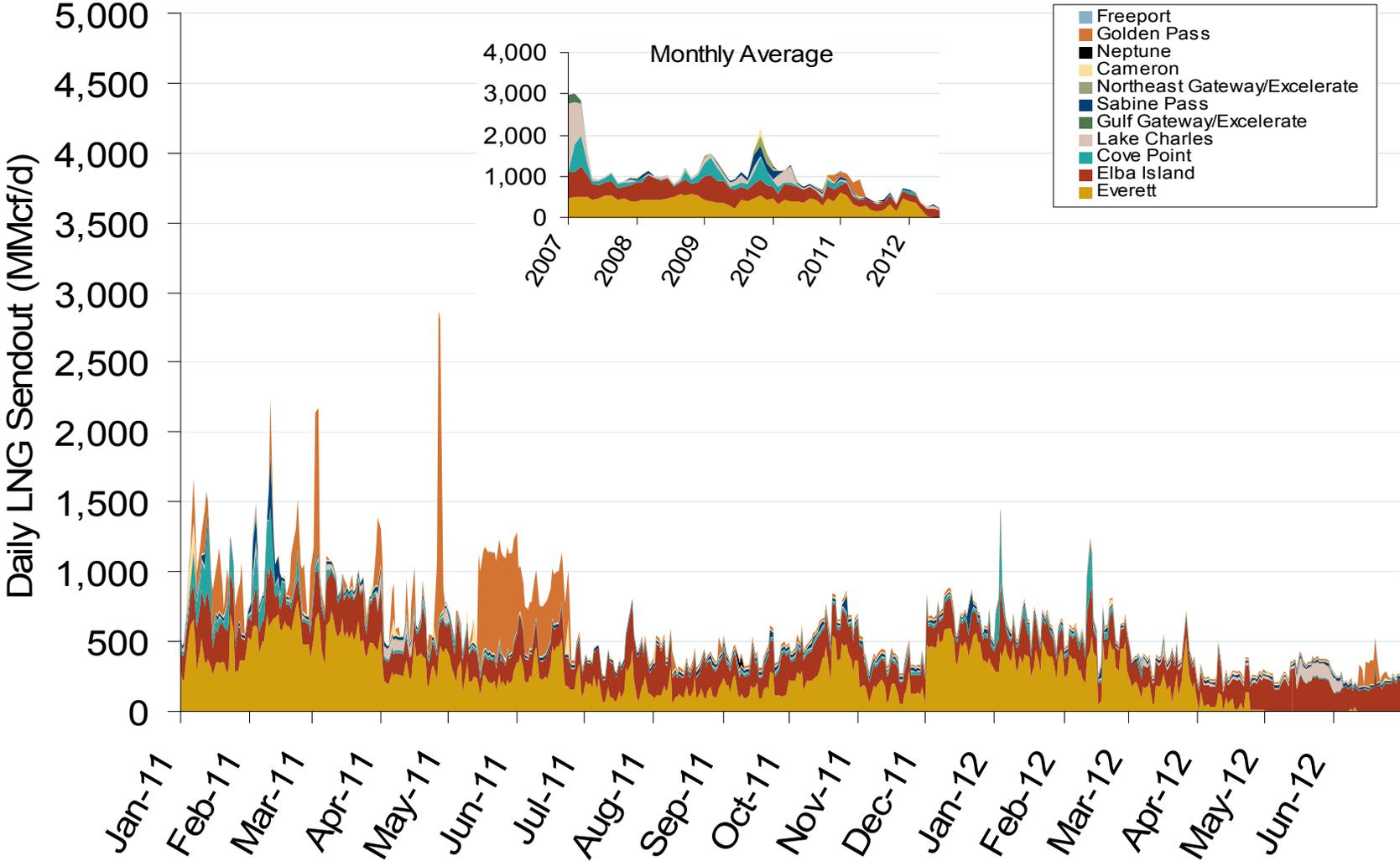
### Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 12, 2012

# Daily Gas Sendout from Existing U.S. LNG Facilities



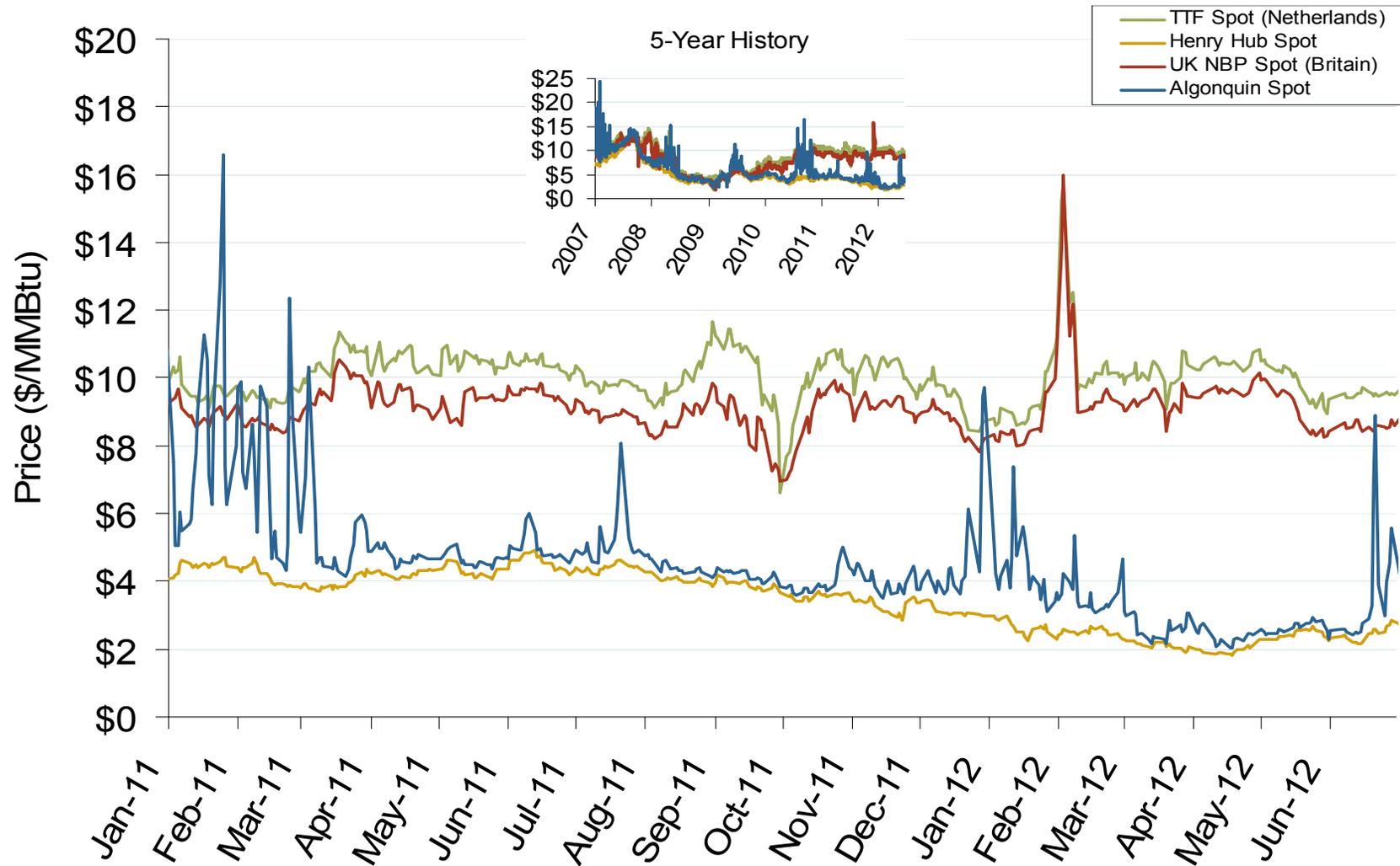
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from Bentek Energy data

July 2012 Mid-Atlantic Snapshot Report

Updated: July 11, 2012

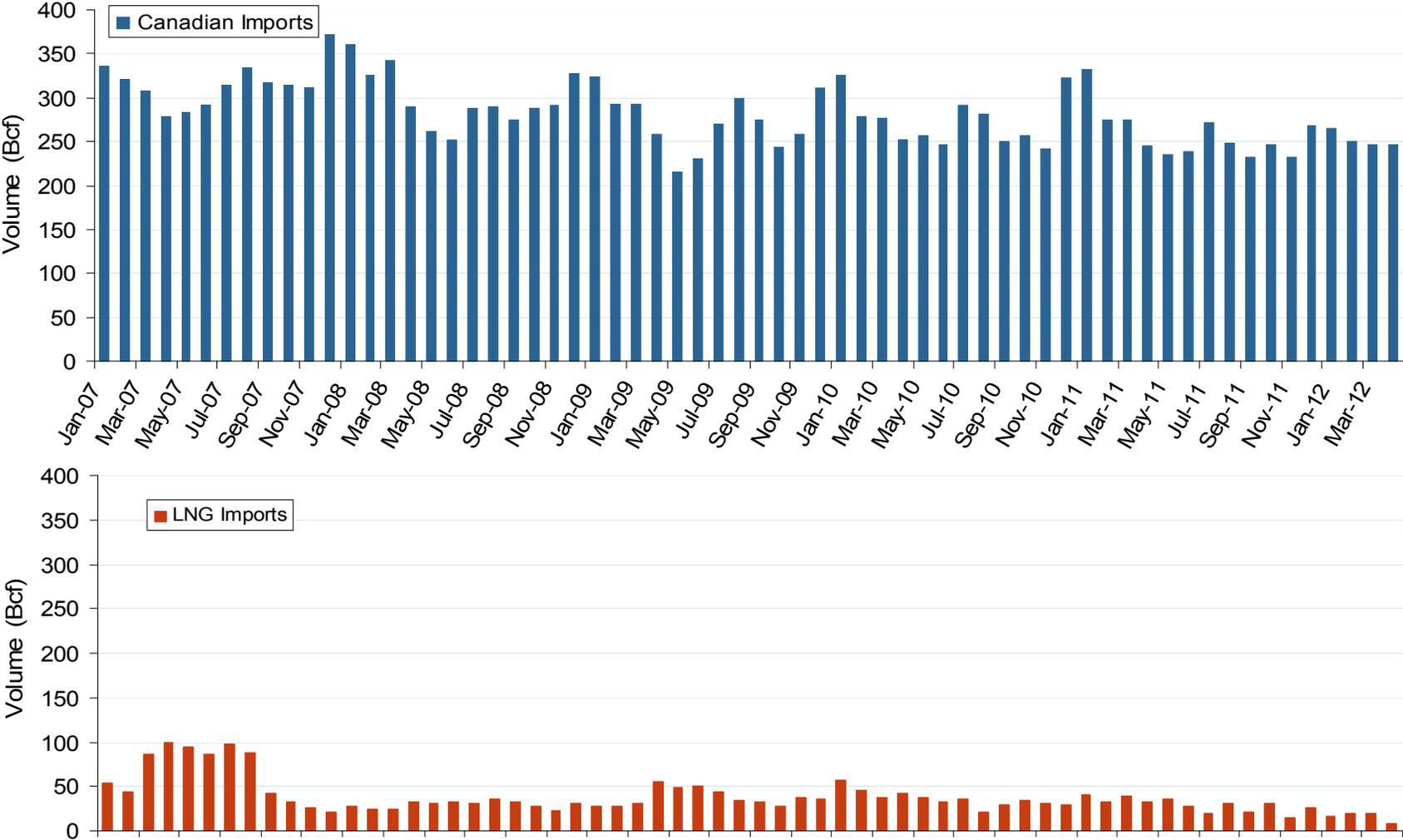
## Atlantic Basin European and US Spot Natural Gas Prices



Natural Gas Overview: Natural Gas Imports

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.



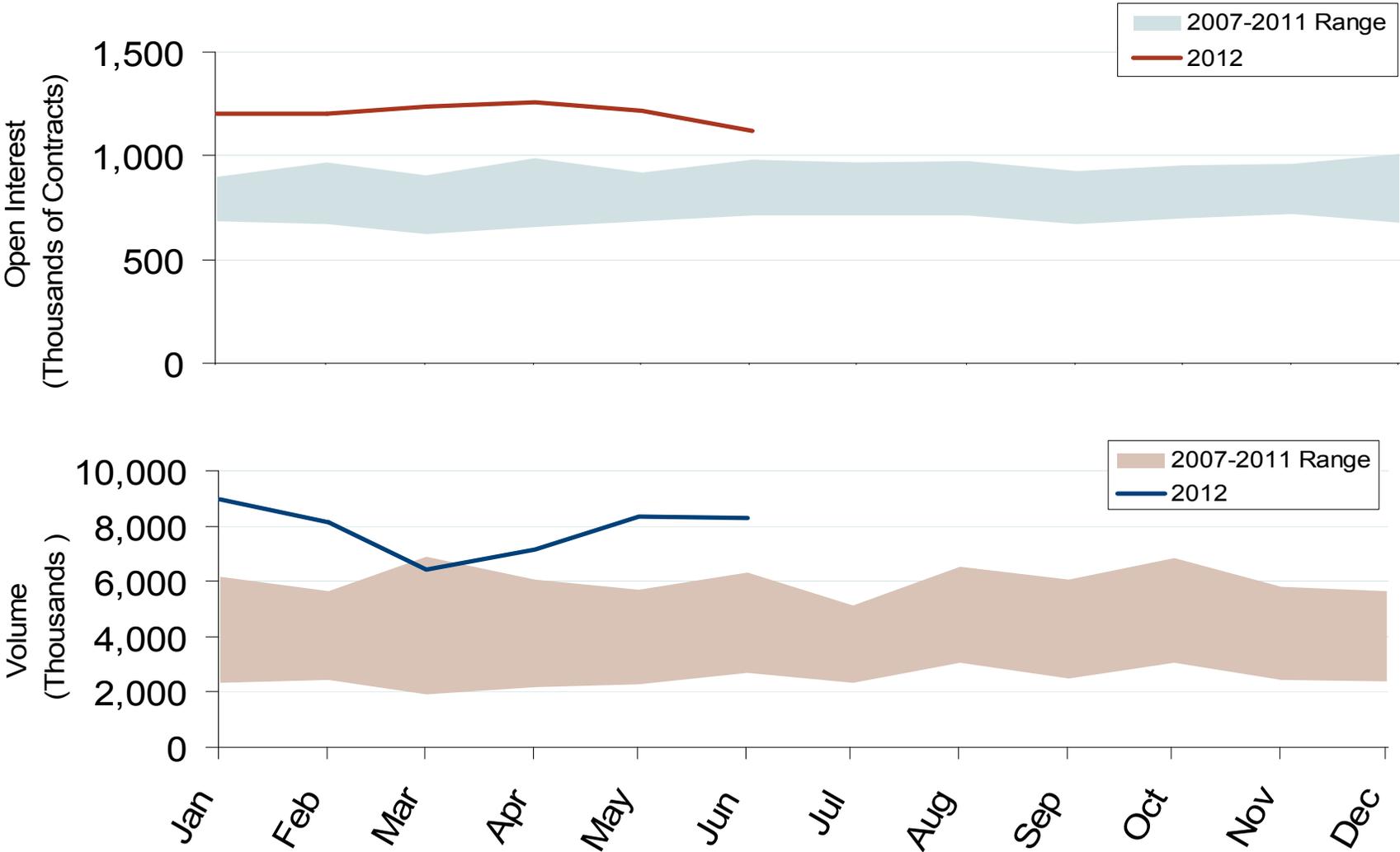
Source: EIA Natural Gas Monthly  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 12, 2012

Natural Gas Trading: Futures Open Interest and Volume

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

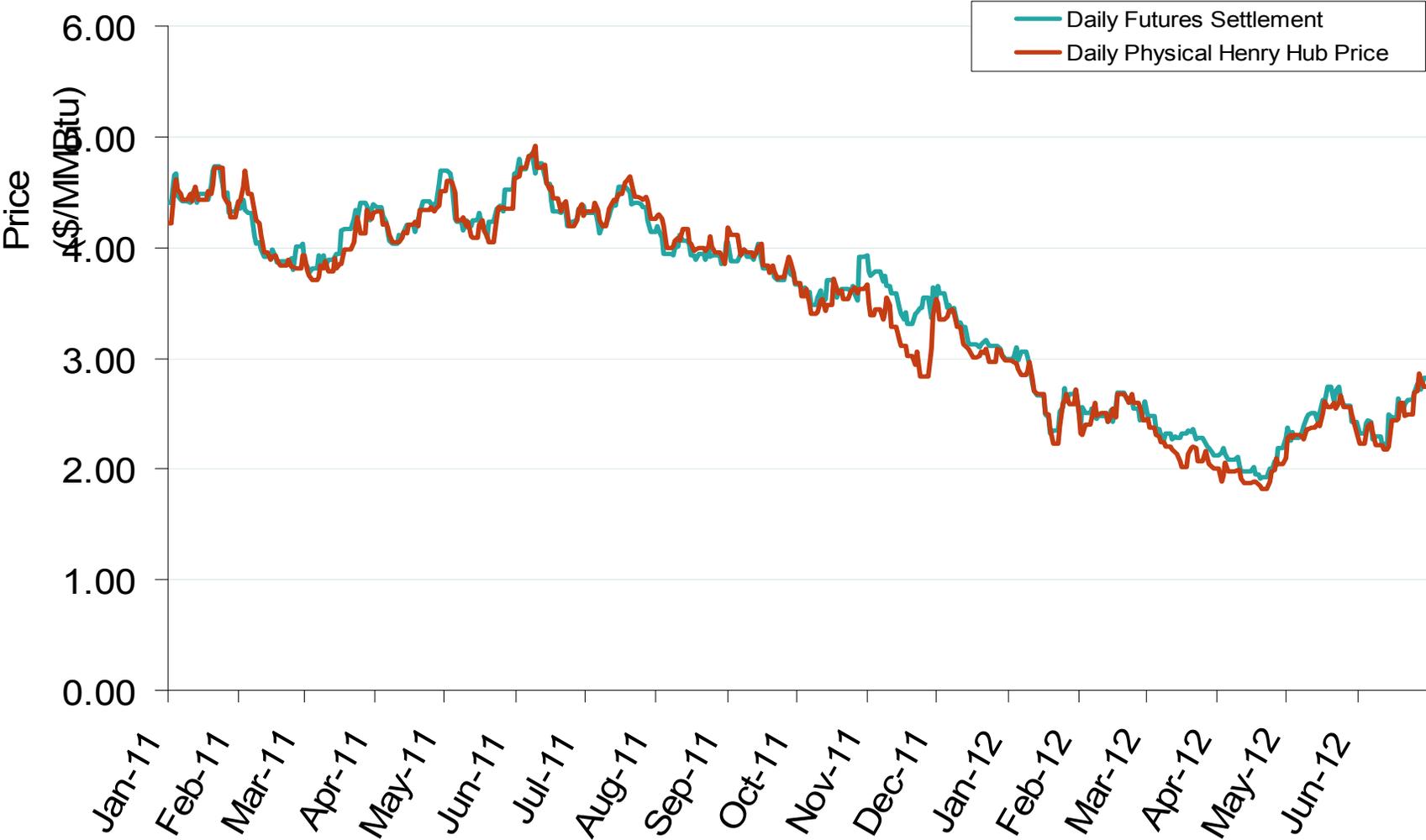
# Nymex NG Futures Month-End Open Interest and Monthly Volume



Source: Derived from Nymex data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 16, 2012

### Daily Physical Index Price & Daily Futures Settlement Price



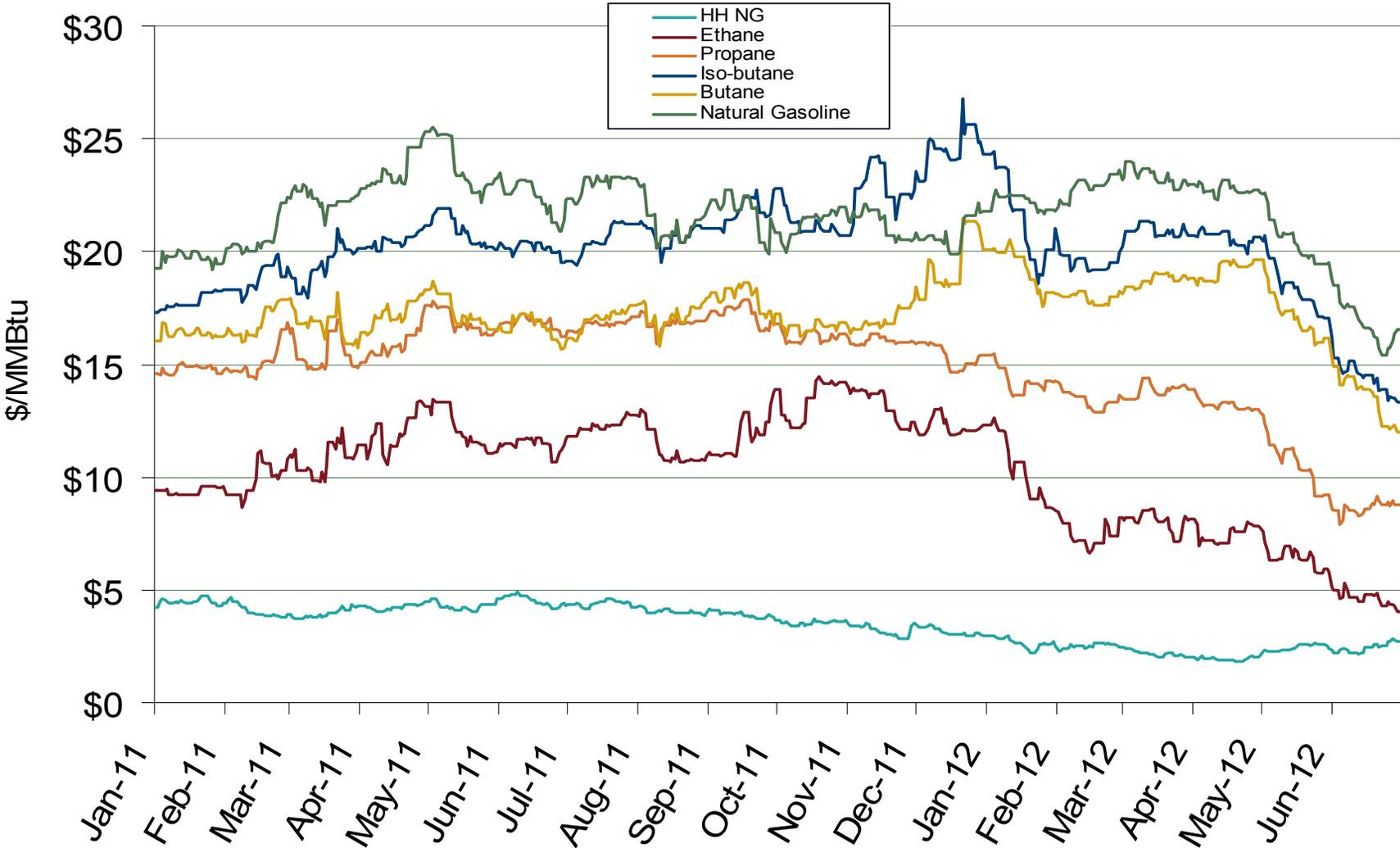
Source: Derived from *Bloomberg* data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 13, 2012

Natural Gas Market Overview: NGL Prices

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

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



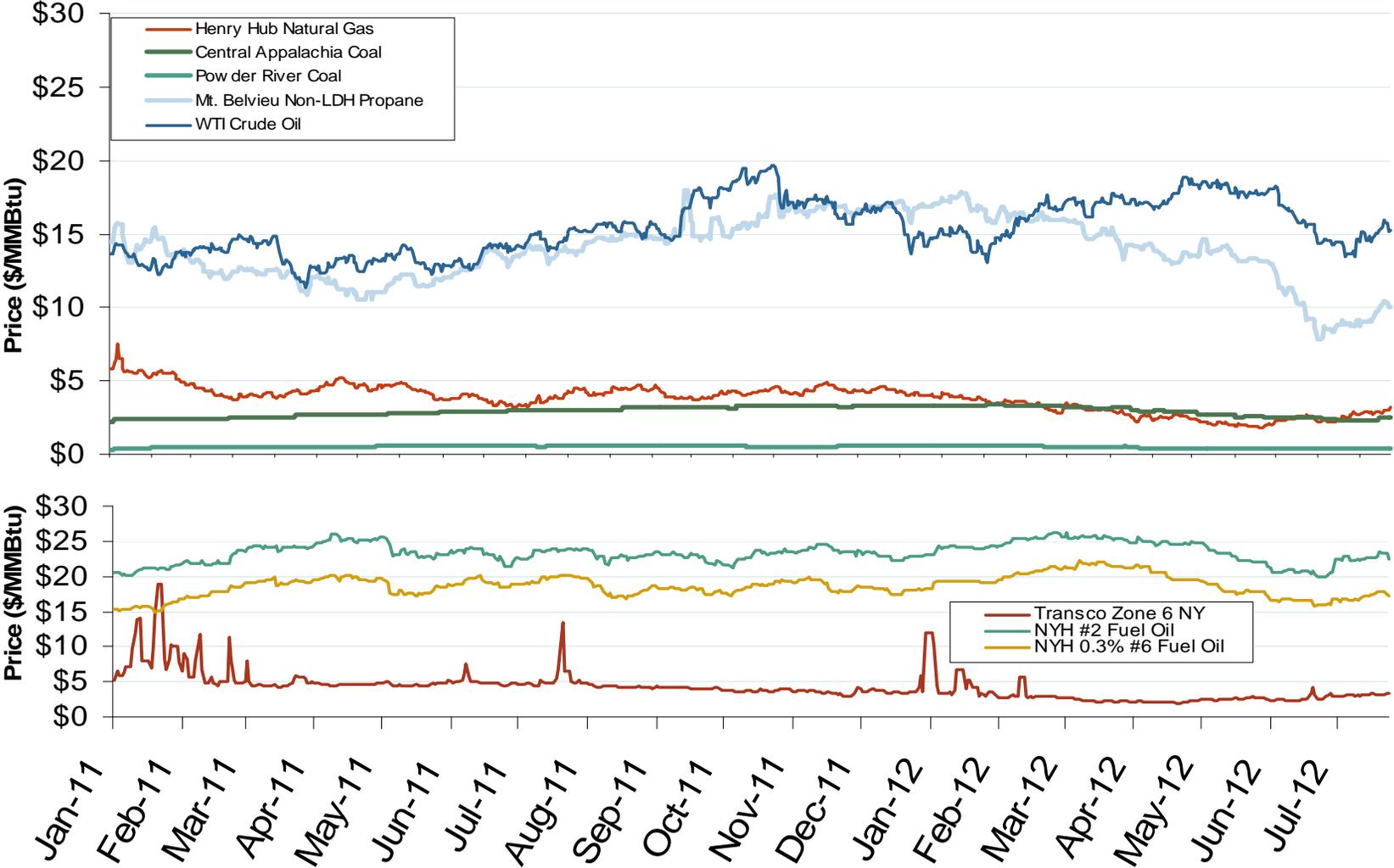
Source: Derived from Bloomberg Data  
July 2012 Mid-Atlantic Snapshot Report

Updated: July 13, 2012

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

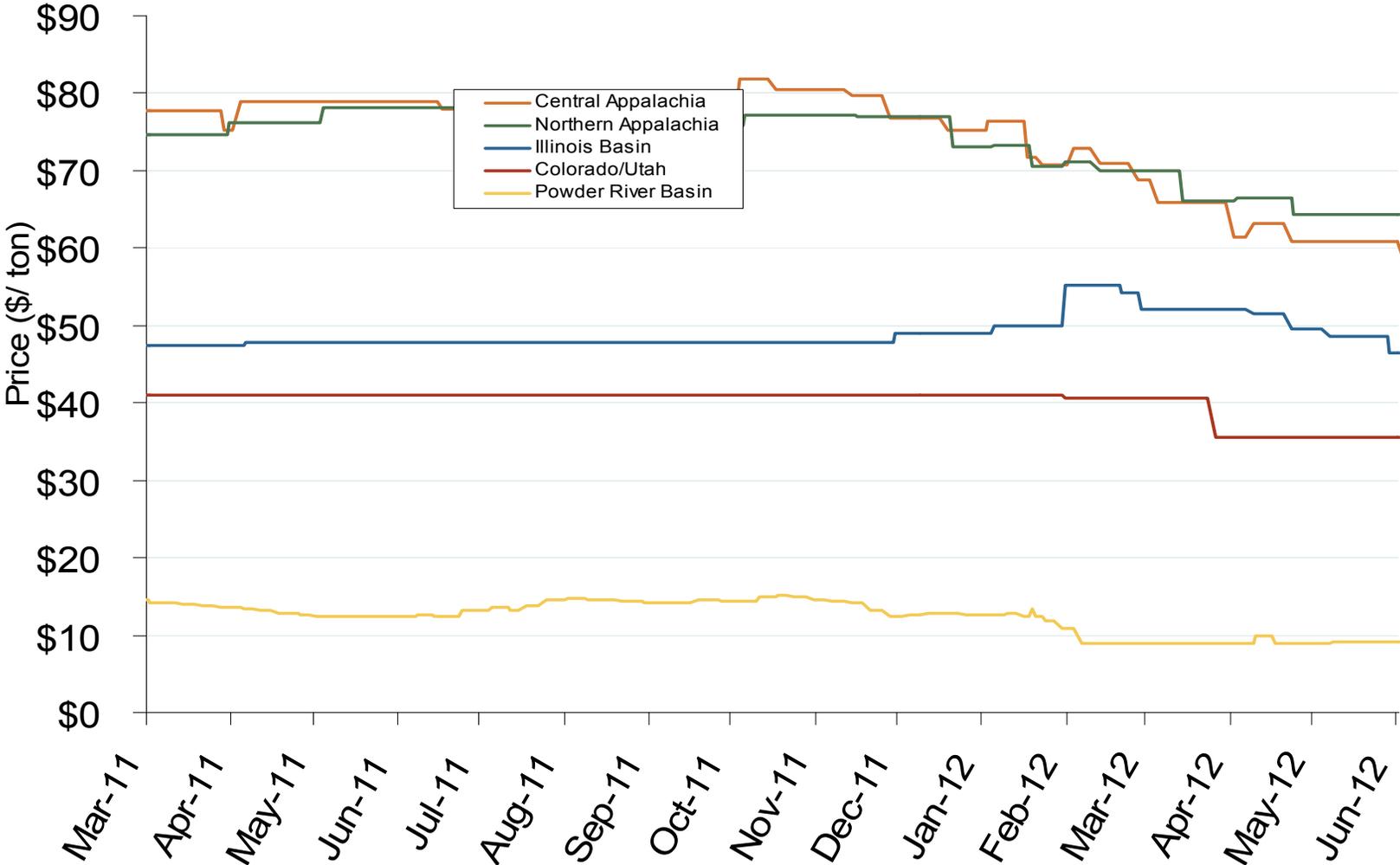
Source: Derived from ICE and Bloomberg data

Updated: July 13, 2012

National Electric Market Overview: Coal Prices

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

# Central Appalachian and Powder River Basin Coal Prices



Notes: The Central Appalachian (CAPP) coal is priced at Big Sandy. All others are mine mouth prices. Prices do not include transportation costs to a plant, as those can vary widely by contract specifications. Prices exclude incremental cost of emissions allowances

Source: Derived from Bloomberg data

July 2012 Mid-Atlantic Snapshot Report

Updated: July 13, 2012

## Other Fuels Market: U.S. Coal Stockpiles

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**U.S. Coal Stockpiles at Electric Power Generating Facilities**