

# **OE ENERGY MARKET SNAPSHOT**

## **National Version – March 2012 Data**

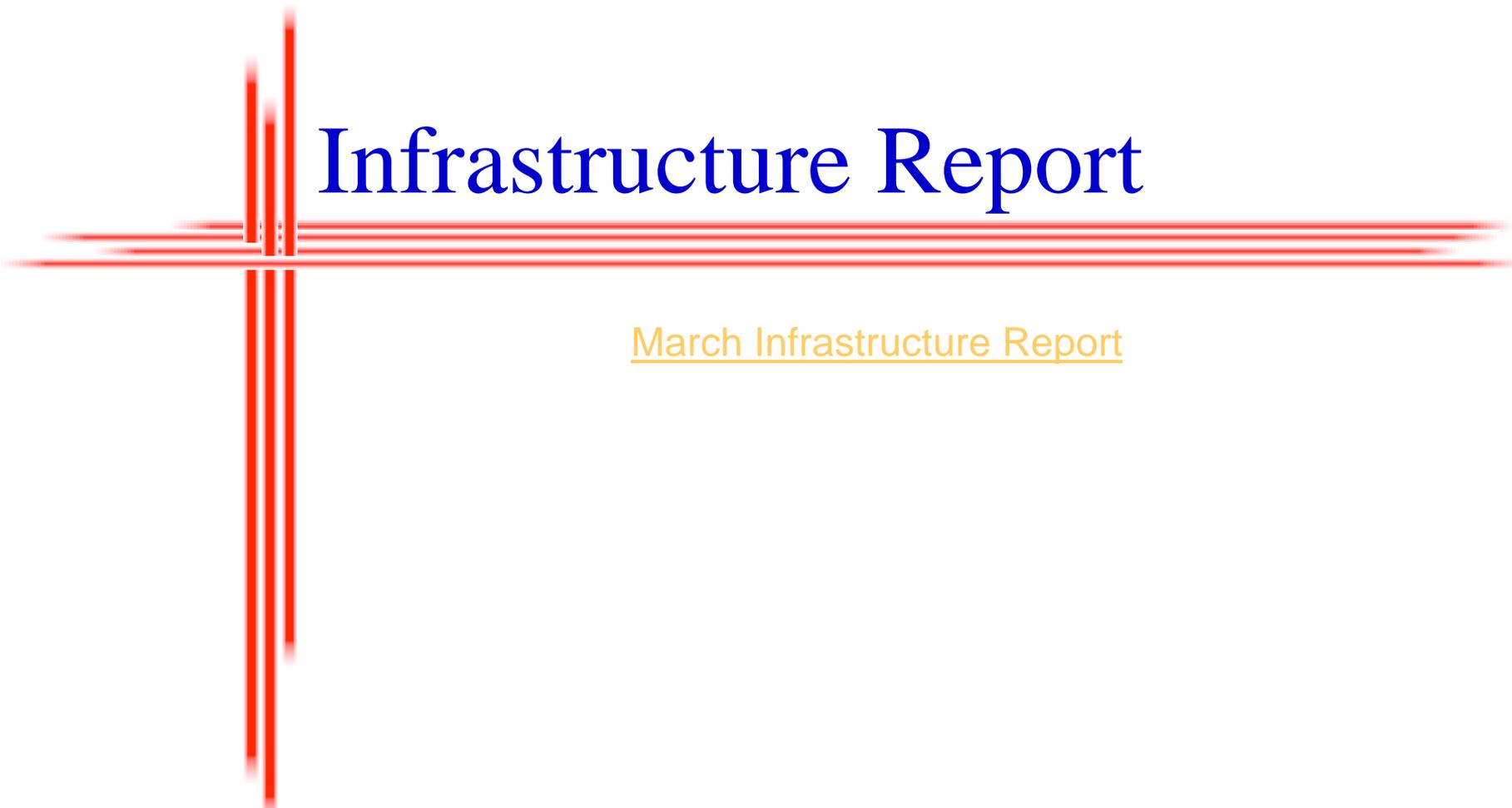
Office of Enforcement  
Federal Energy Regulatory Commission  
April 2012



# 2011 State of the Markets

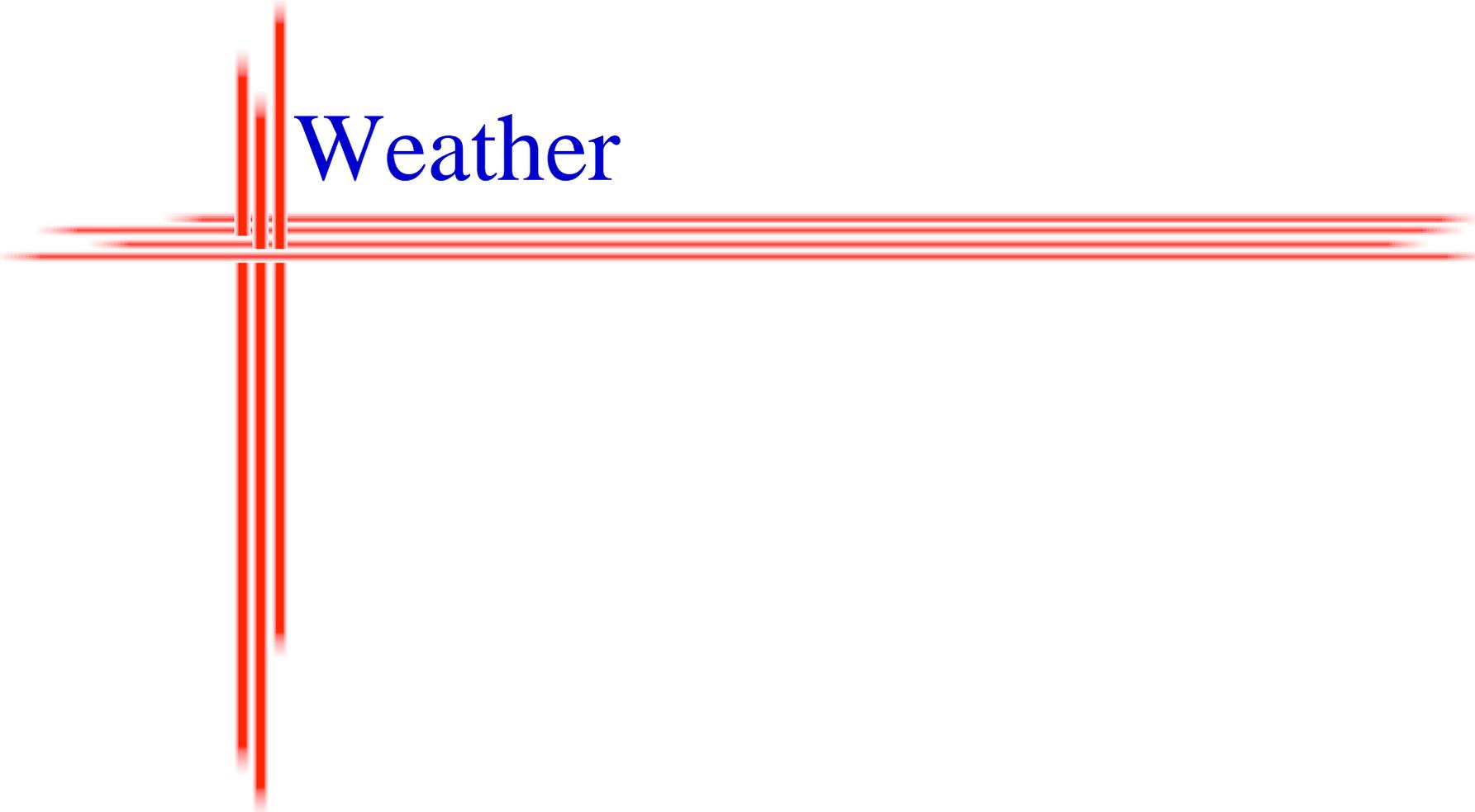
**Item No: A-3**  
**April 19, 2012**

<http://www.ferc.gov/market-oversight/reports-analyses/st-mkt-ovr/som-rpt-2011.pdf>



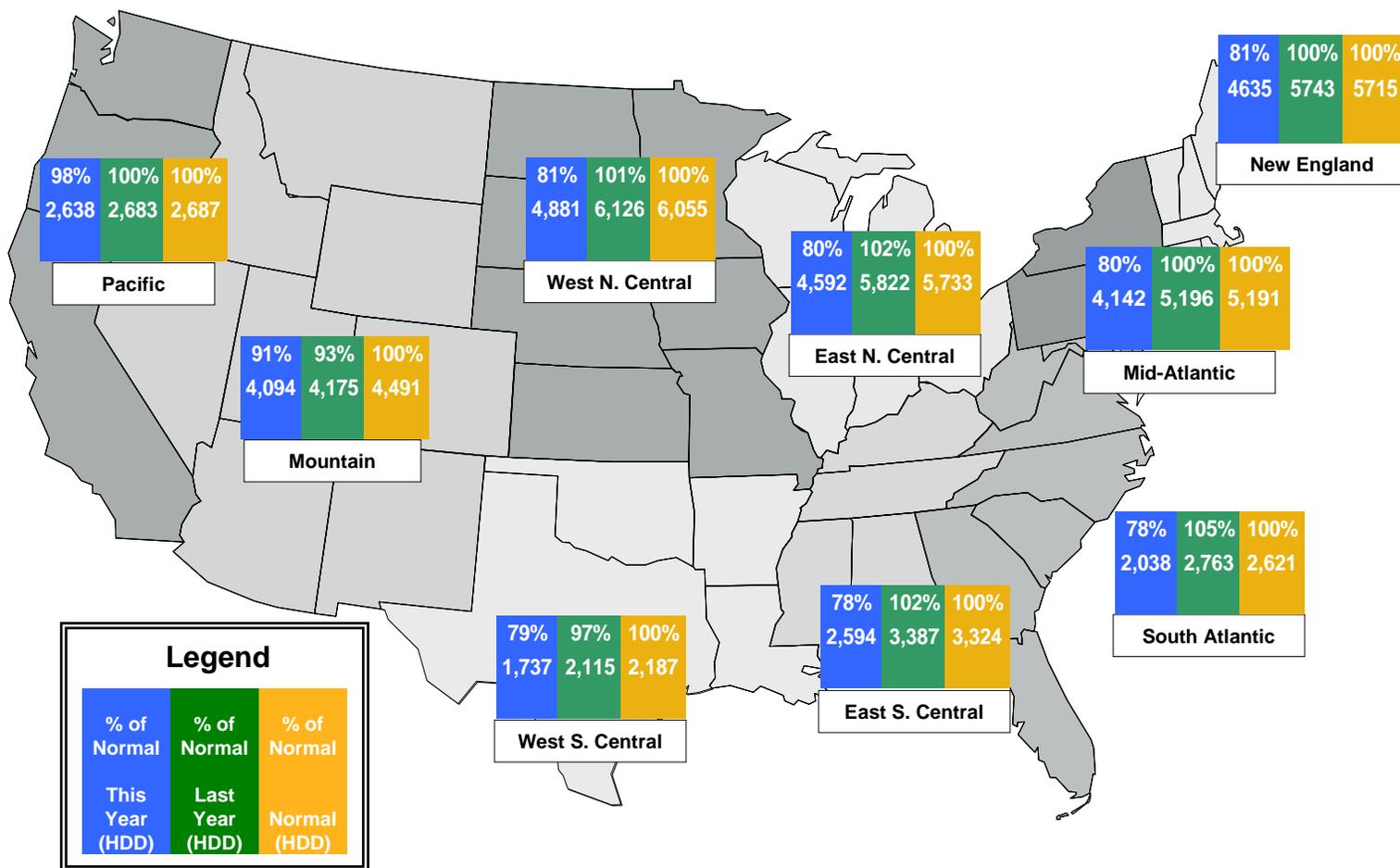
# Infrastructure Report

March Infrastructure Report



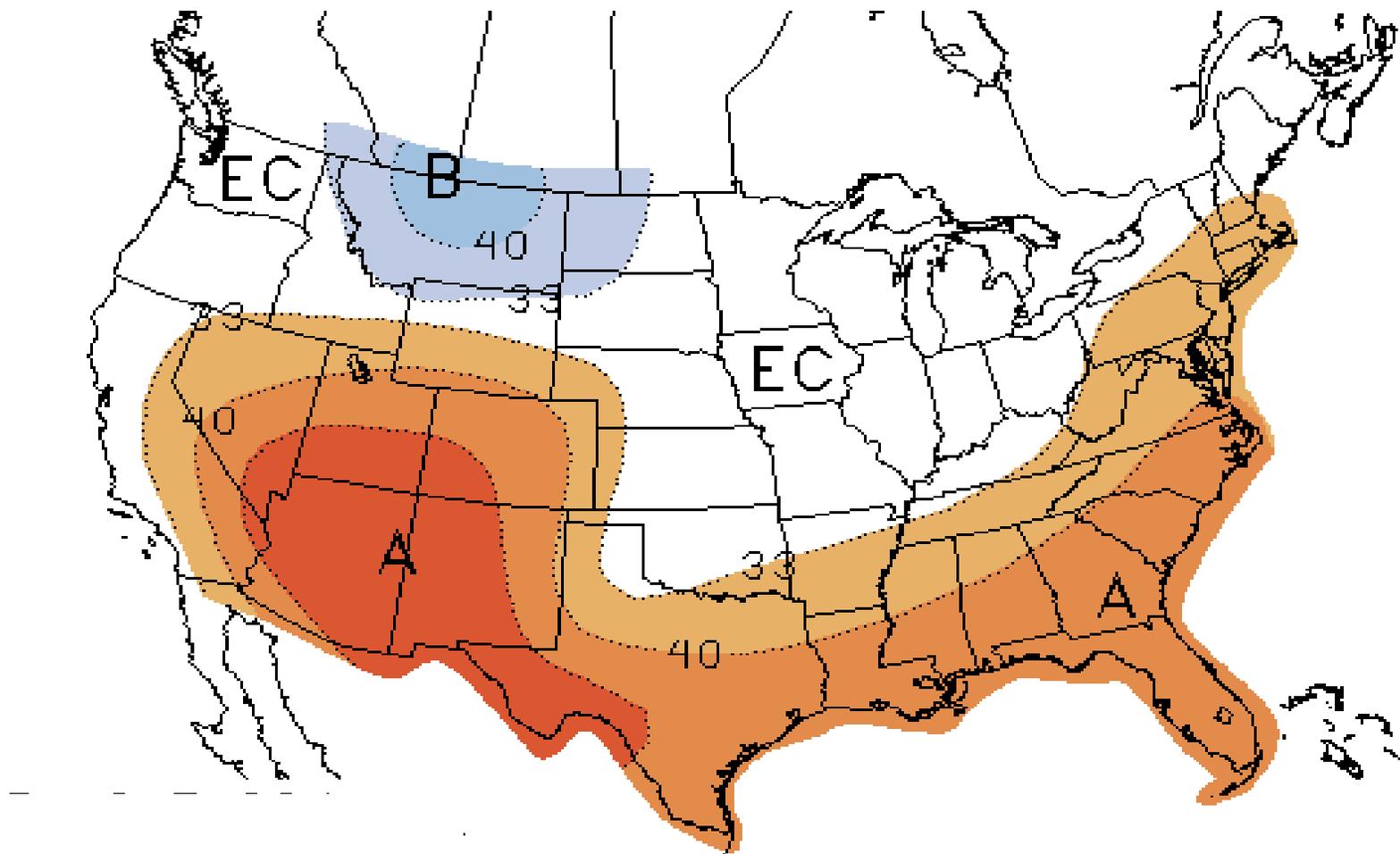
# Weather

## Regional Heating Degree Days – July 2011 to March 2012



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

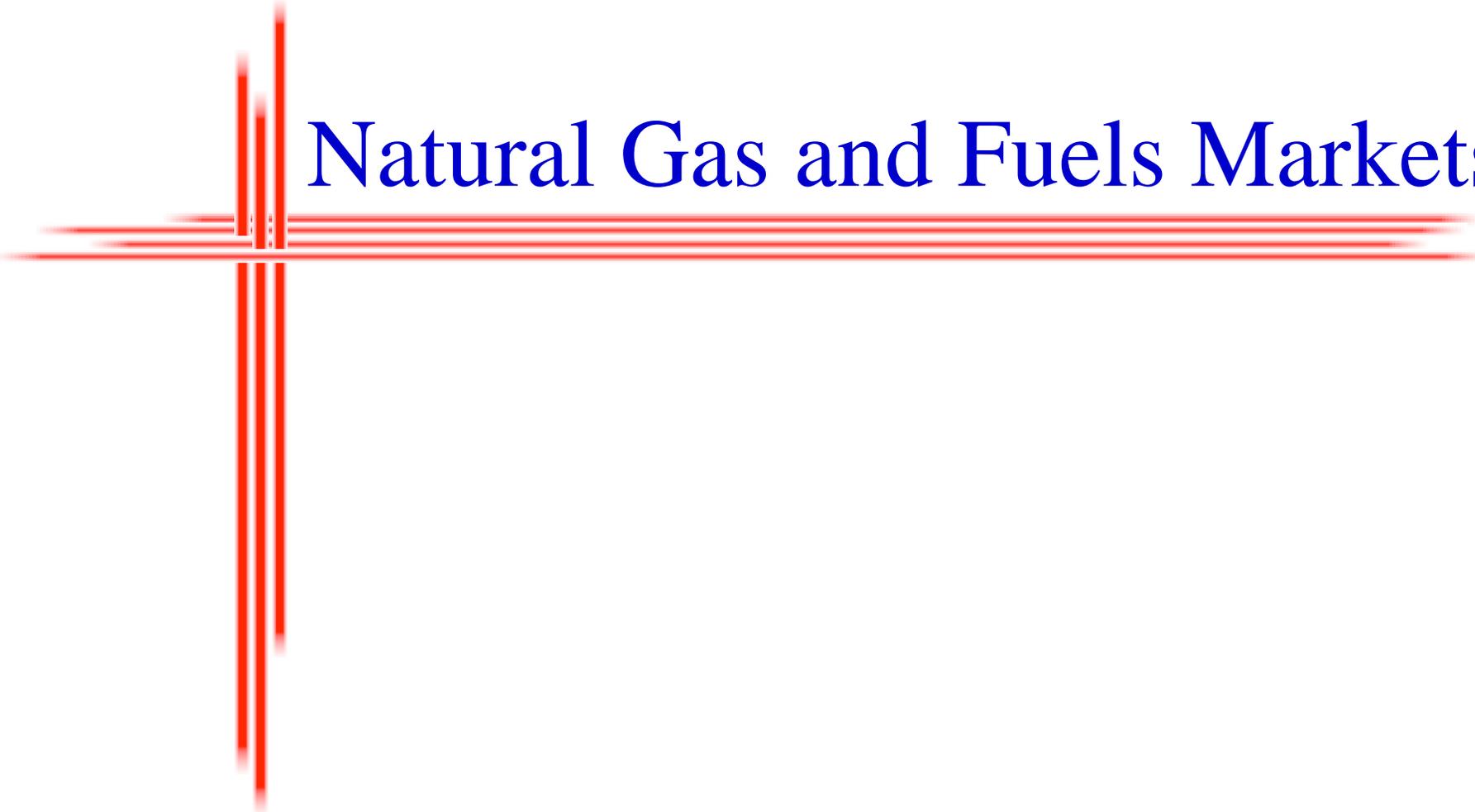
## NOAA's 3 Month Temperature Forecast Made April 19, 2012, Valid for May 2012 – July 2012



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.

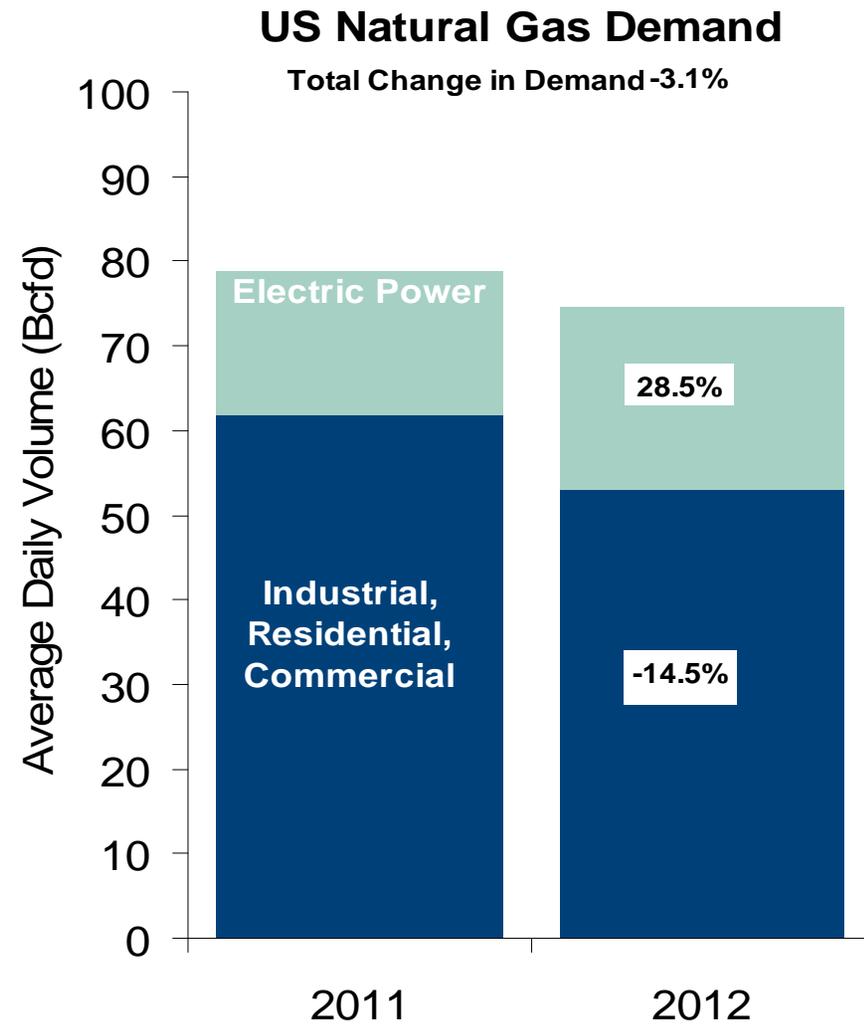
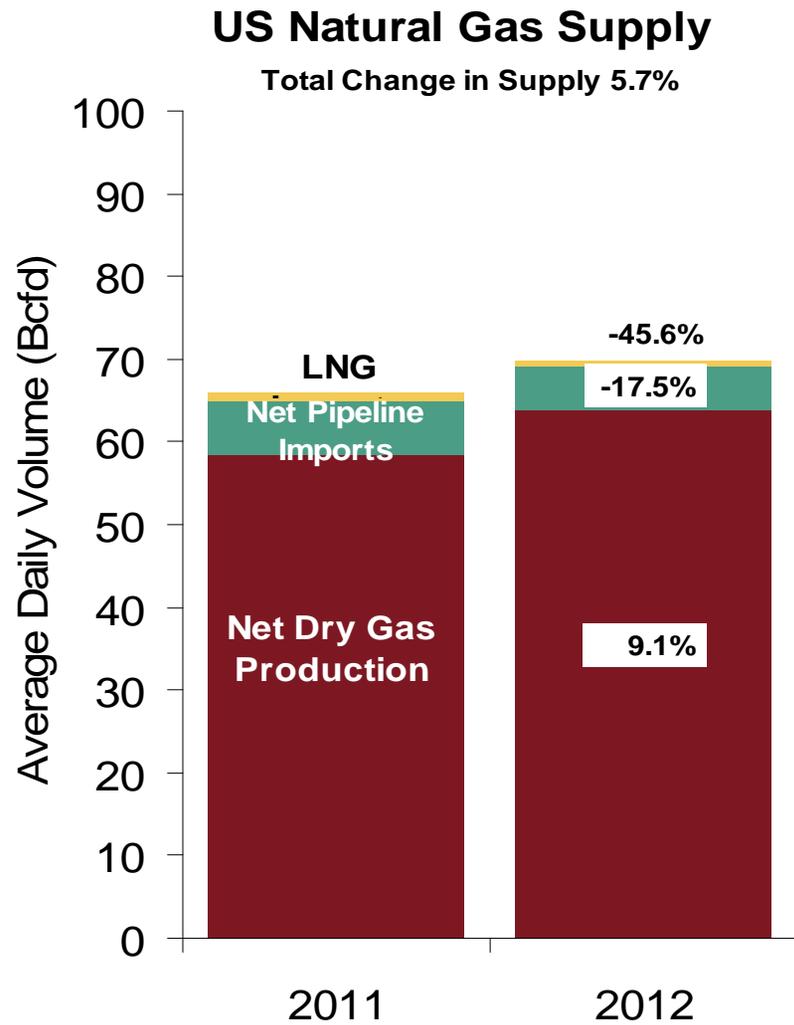
Source: Derived from NOAA data.

Updated: April 19, 2012



# Natural Gas and Fuels Markets

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



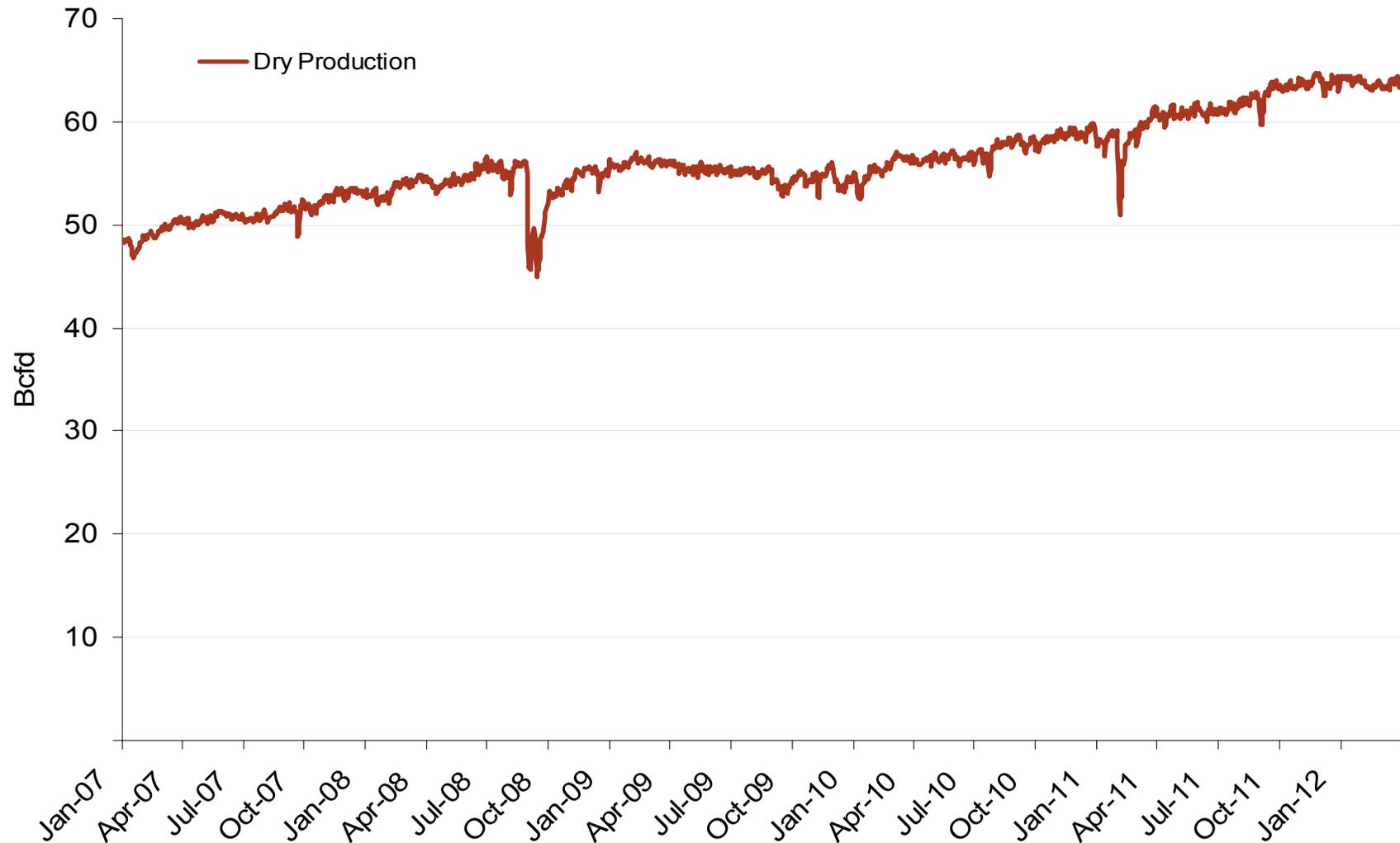
Note: Balance includes all amounts not attributable to other categories.

Source: Derived from *Bentek Energy* data

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



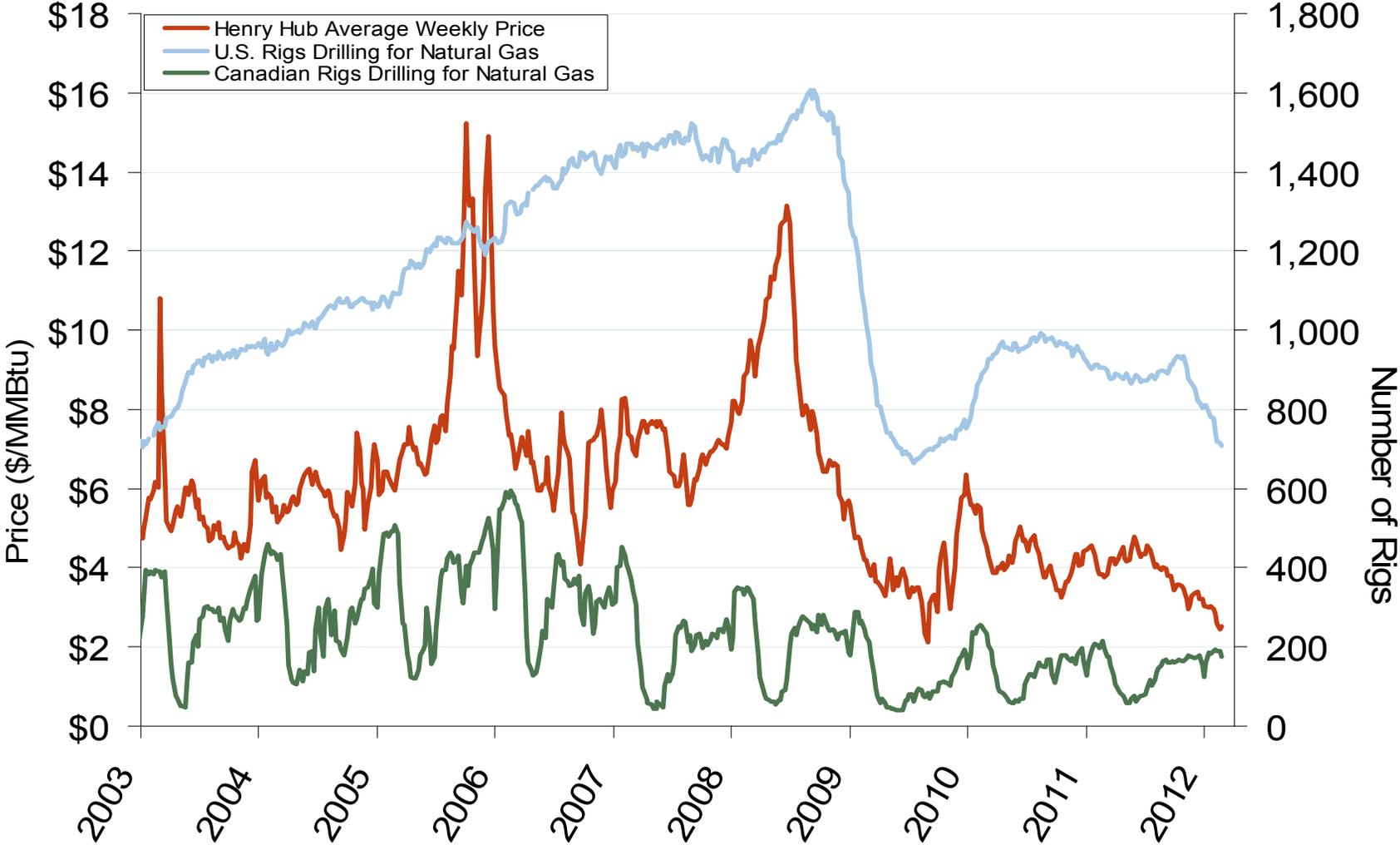
Note: Prior to July 2010, chart was derived from a combination of EIA and Bentek Energy data

Source: Derived from Bentek Energy data

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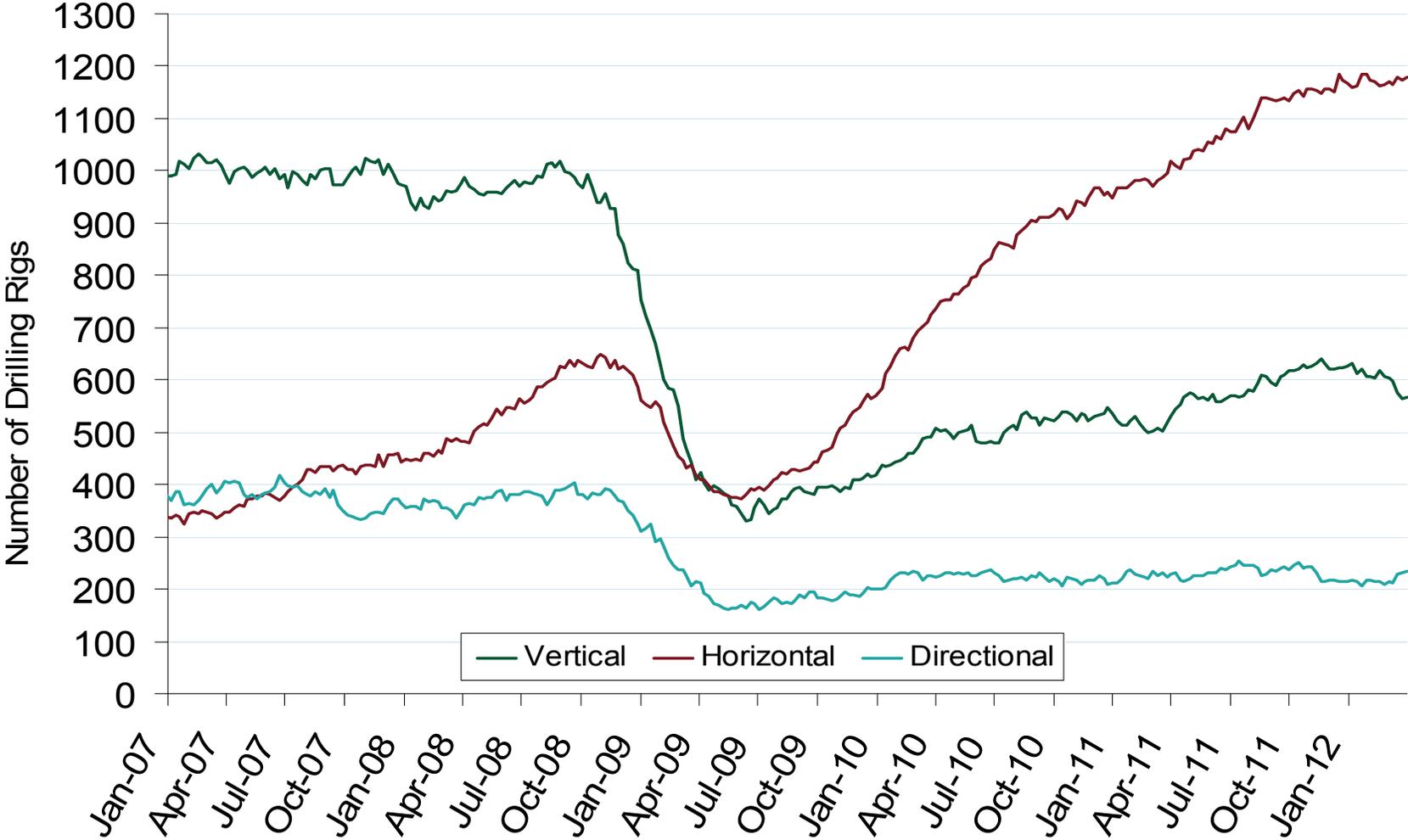
# U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data  
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Updated: April 06, 2012

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



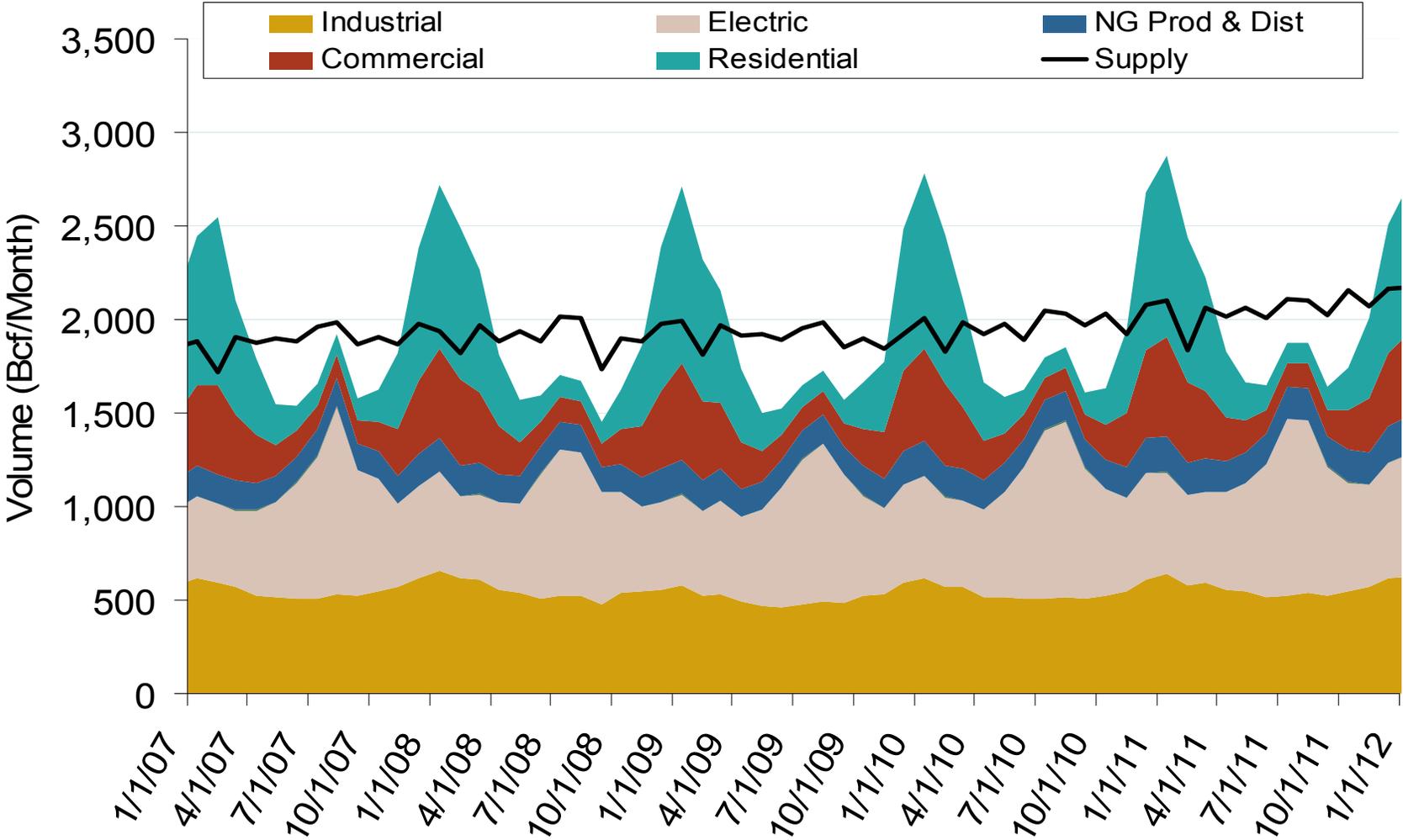
Source: Derived from *Platts* and *Baker Hughes* data  
April 2012 National Snapshot Report

Updated: April 18, 2012

# Examples of Drill Bits Used in Shale Gas Production



### Annual U.S. Natural Gas Consumption by Sector



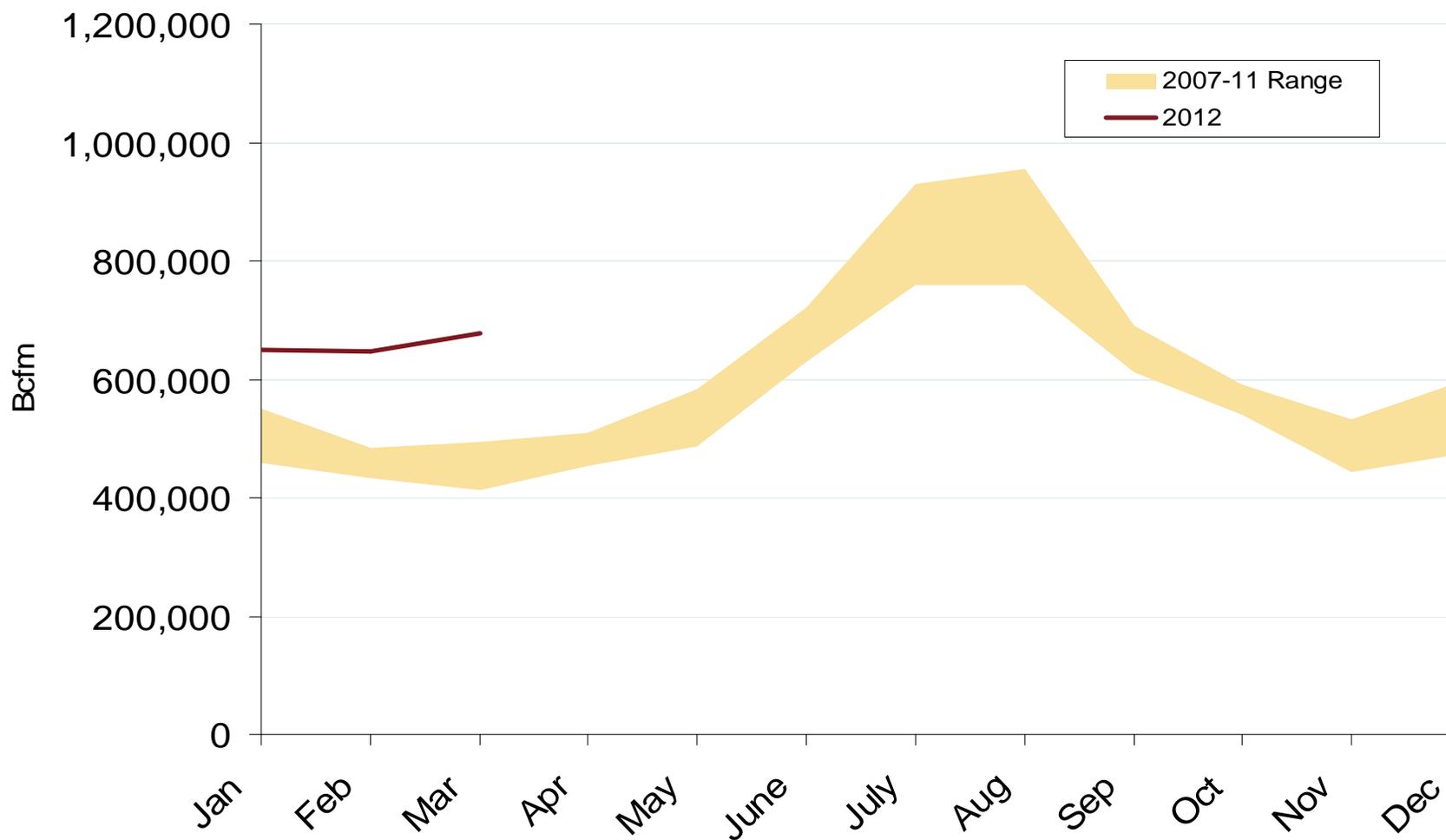
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

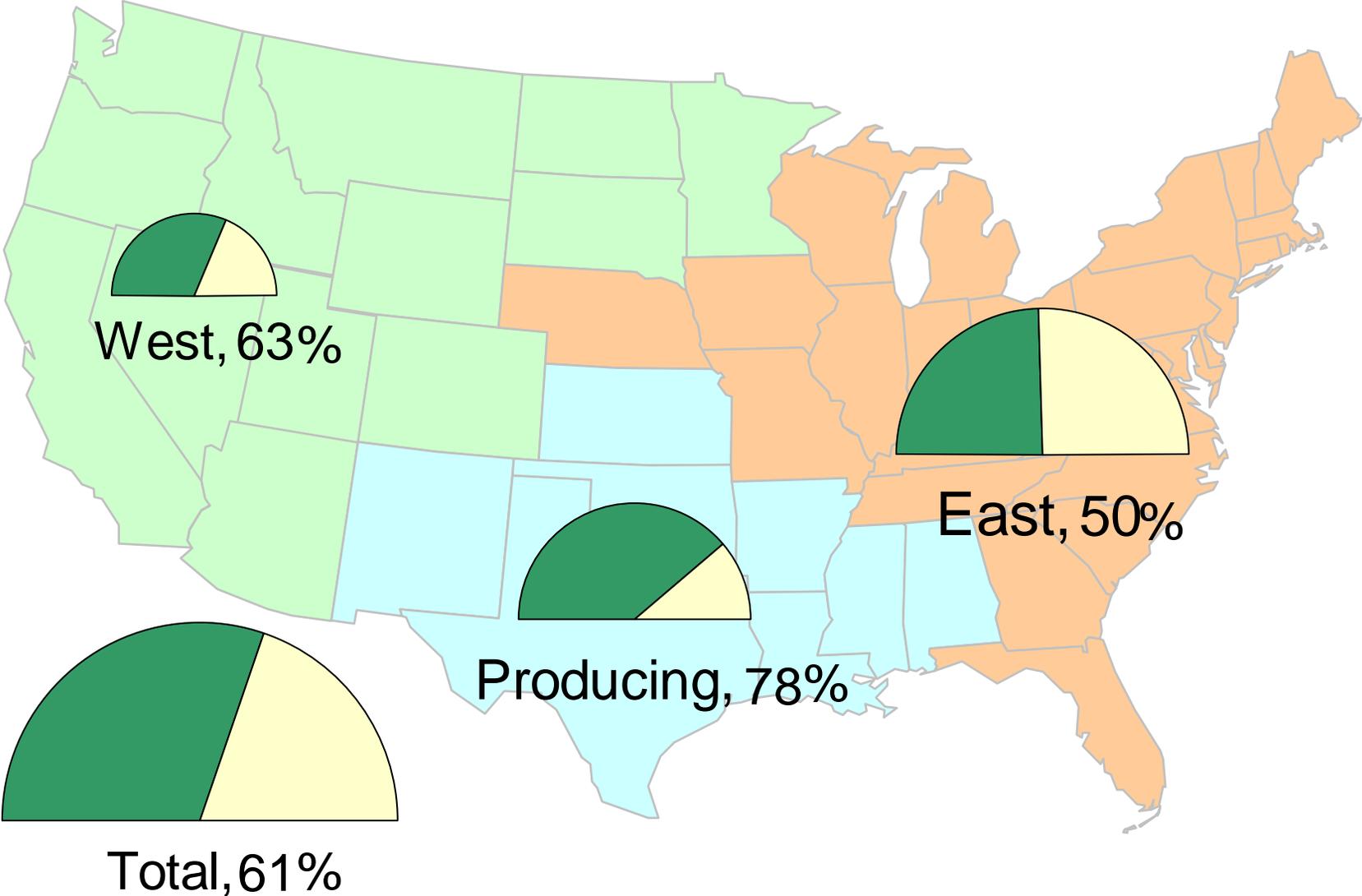
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Updated: April 17, 2012

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

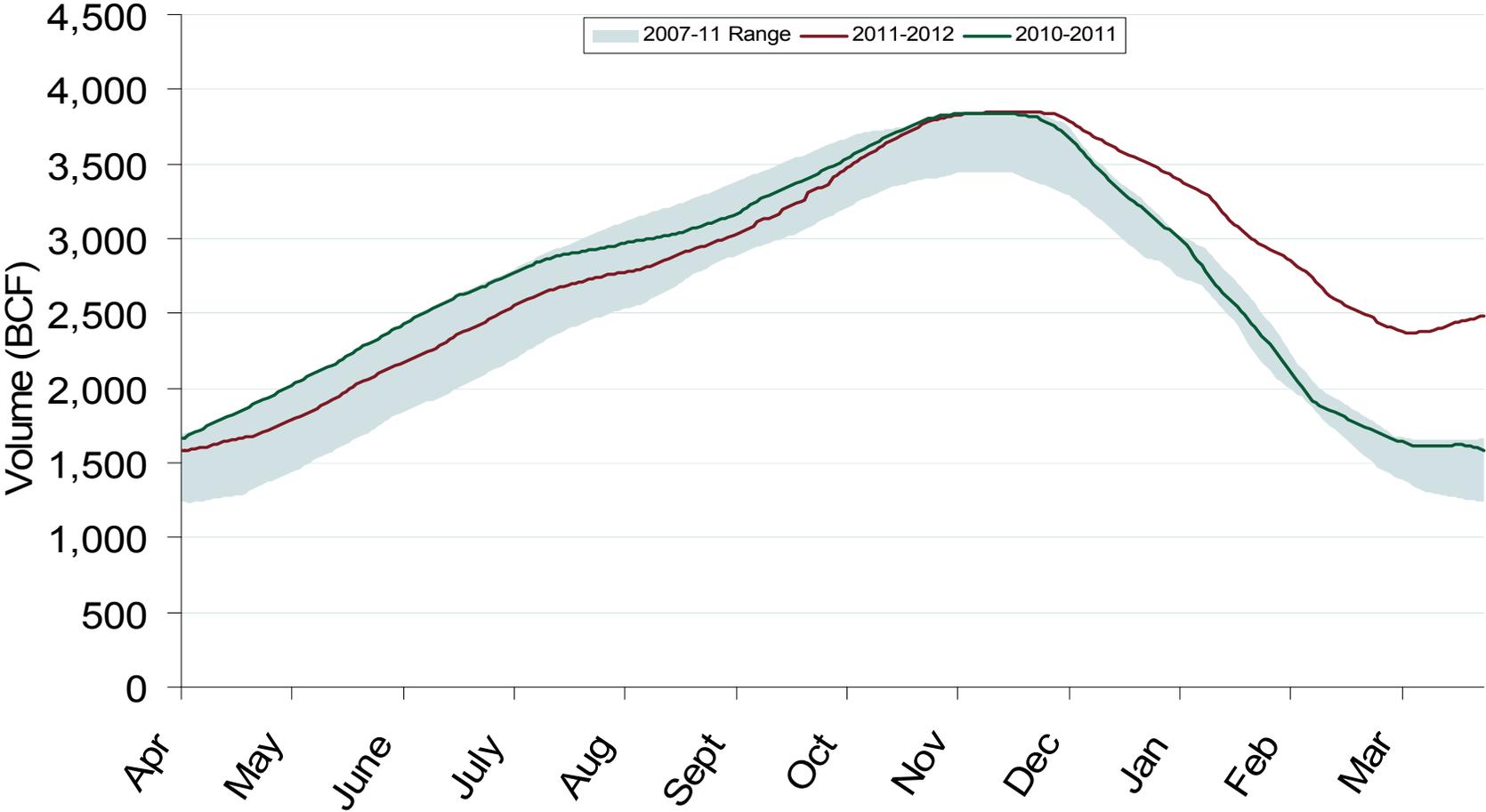


# Natural Gas Storage Inventories – April 6, 2012



Source: Derived from EIA Storage and Estimated Working Gas Capacity data  
April 2012 National Snapshot Report

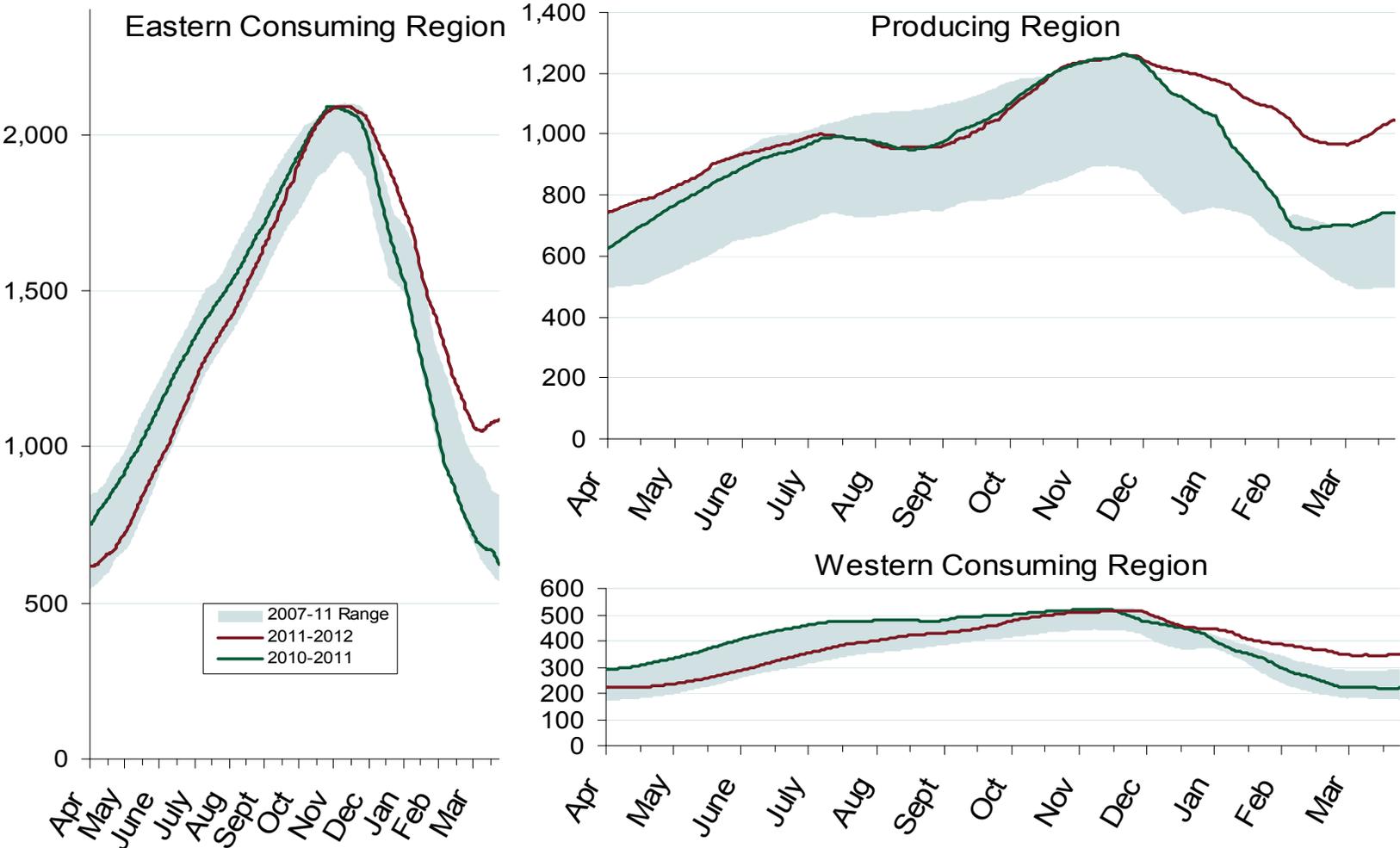
### Total U.S. Working Gas in Storage



Source: Derived from EIA data  
April 2012 National Snapshot Report

Updated: April 17, 2012

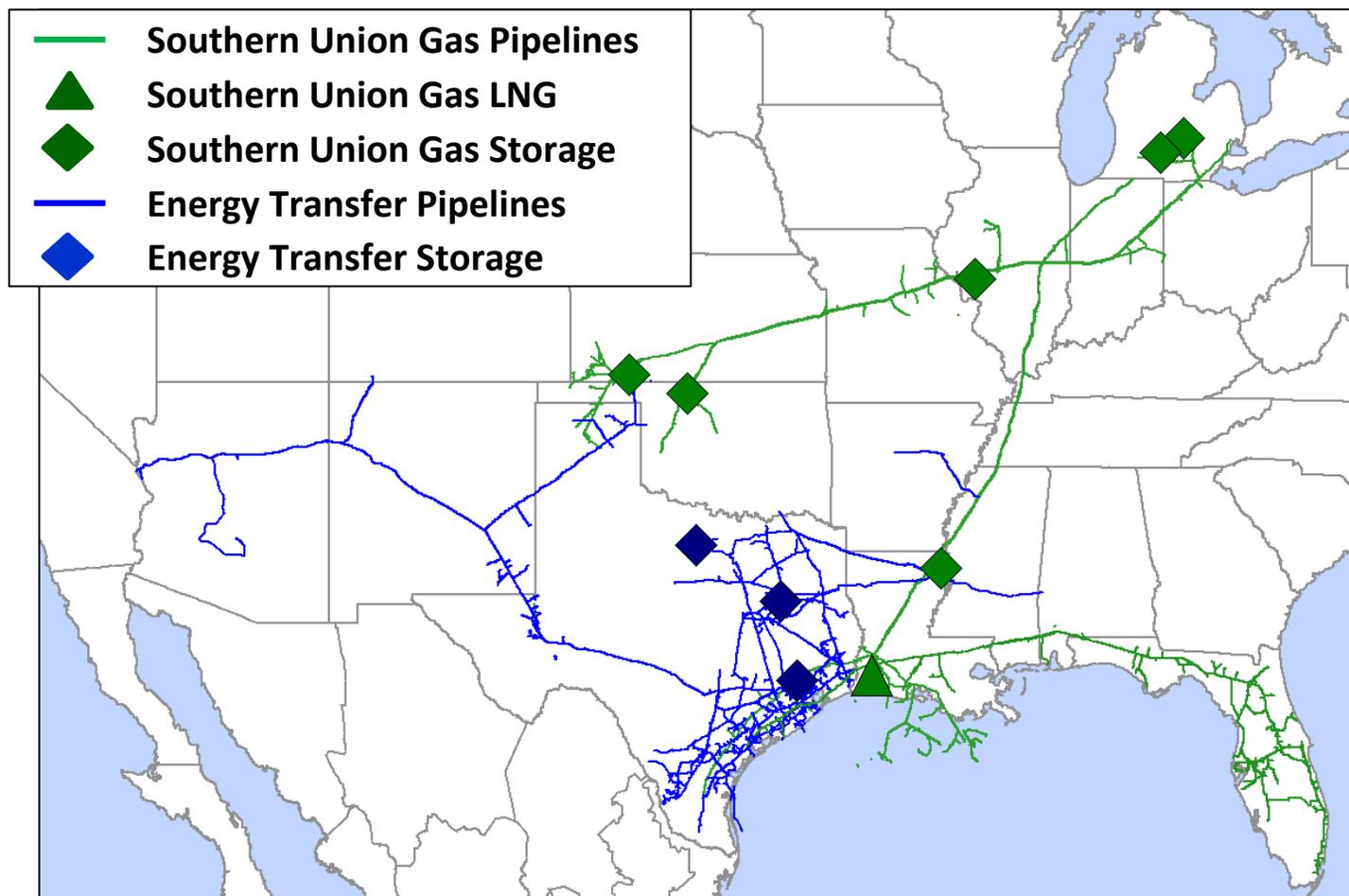
# Regional Totals of Working Gas in Storage



Source: Derived from EIA data  
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Updated: April 17, 2012

## Energy Transfer and Southern Union Merger Creates One of the Largest Midstream Companies



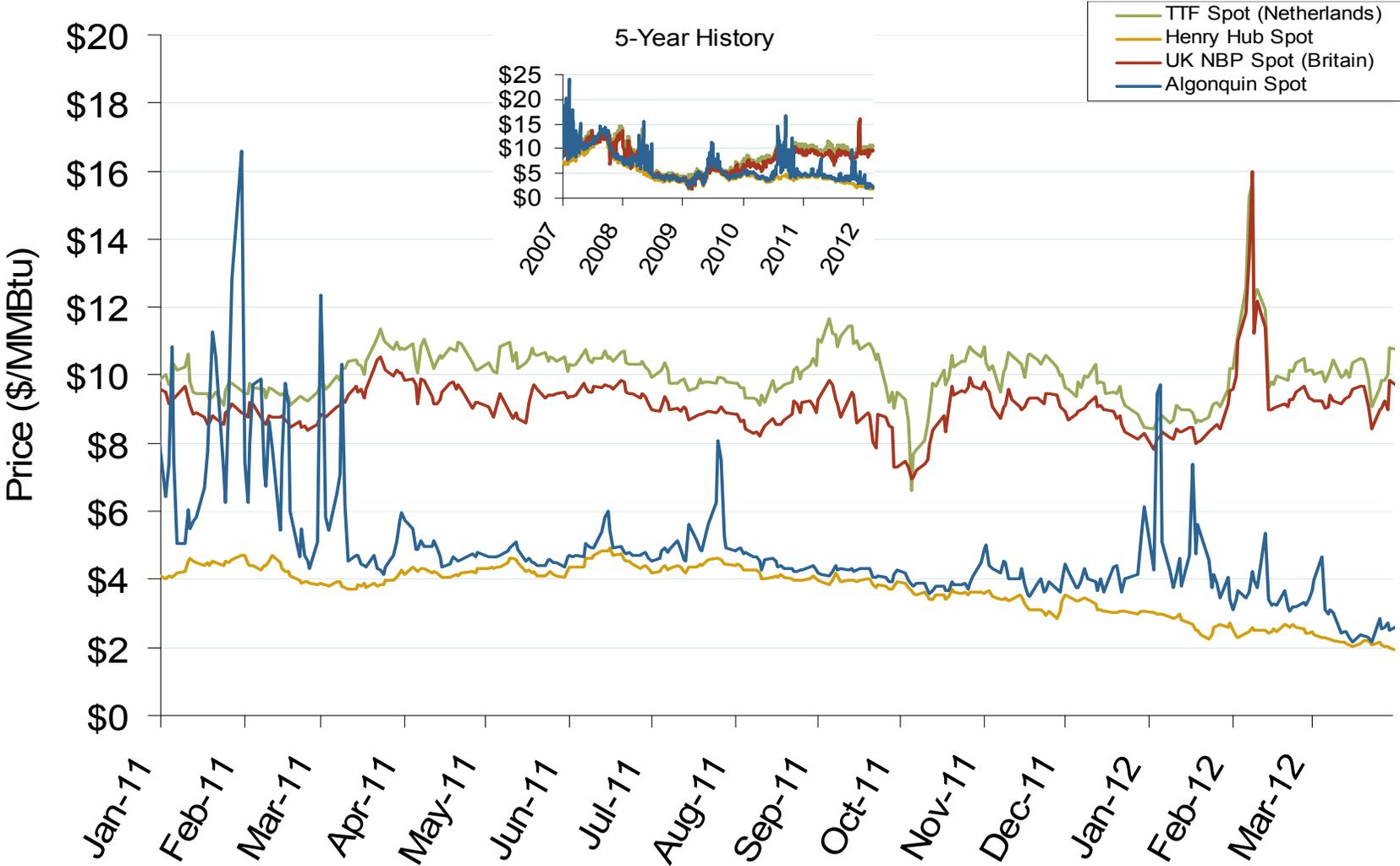
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# World LNG Estimated May 2012 Landed Prices



Source: Waterborne Energy, Inc. Data in \$US/MMBtu  
April 2012 National Snapshot Report

# Atlantic Basin European and US Spot Natural Gas Prices

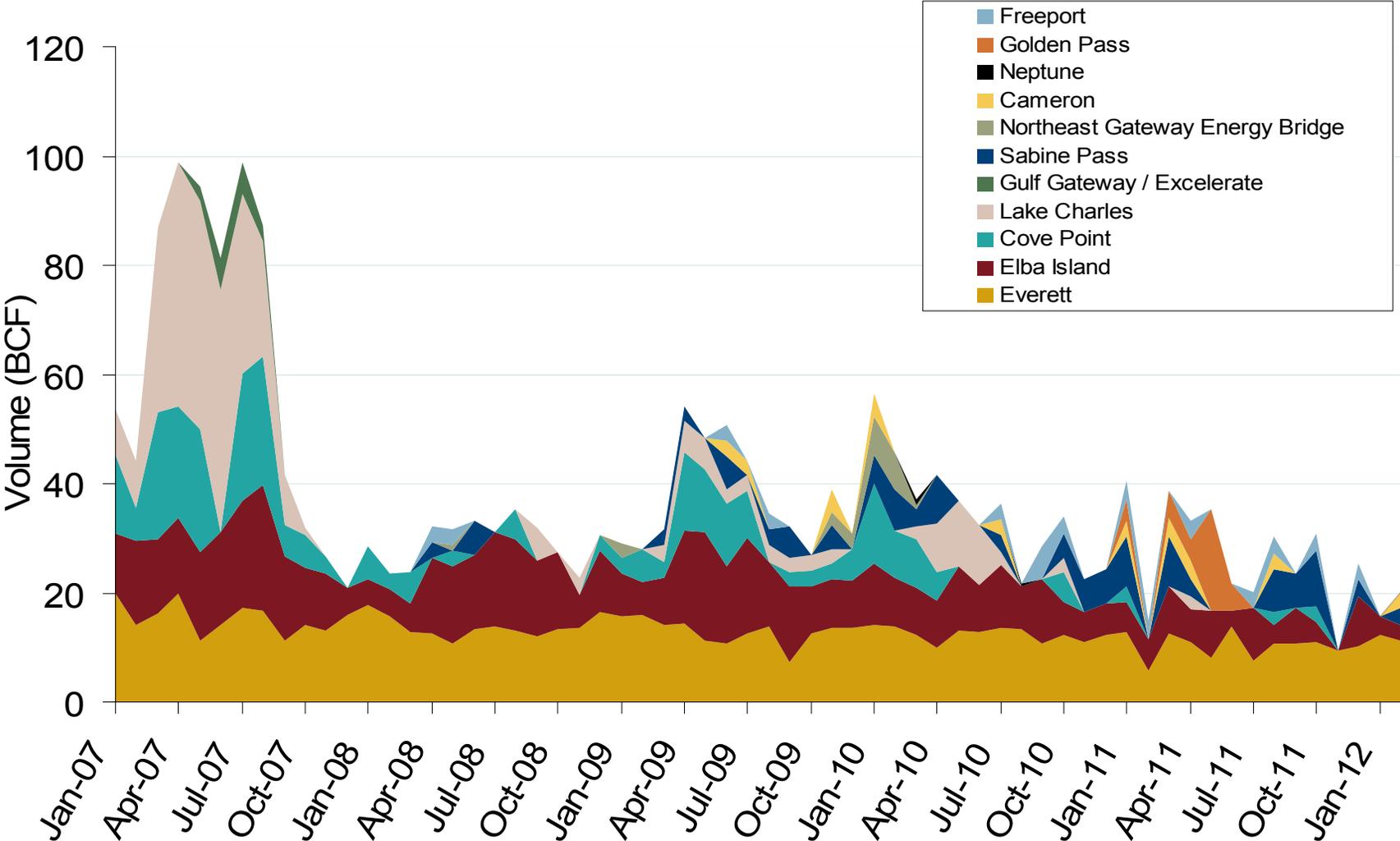


Source: Derived from *Bloomberg* and *ICE* data  
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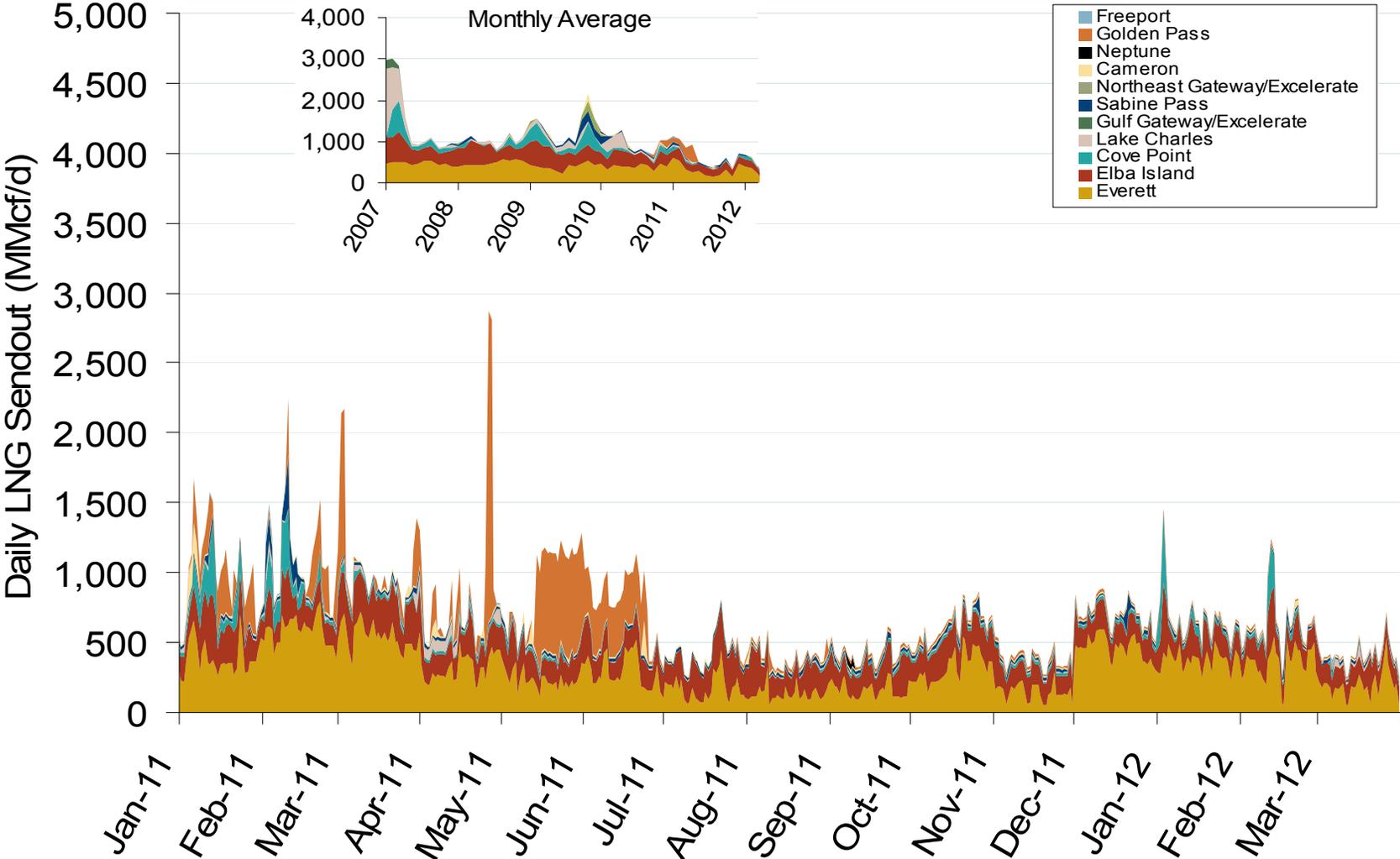
### Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data  
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Updated: April 17, 2012

### Daily Gas Sendout from Existing LNG Facilities



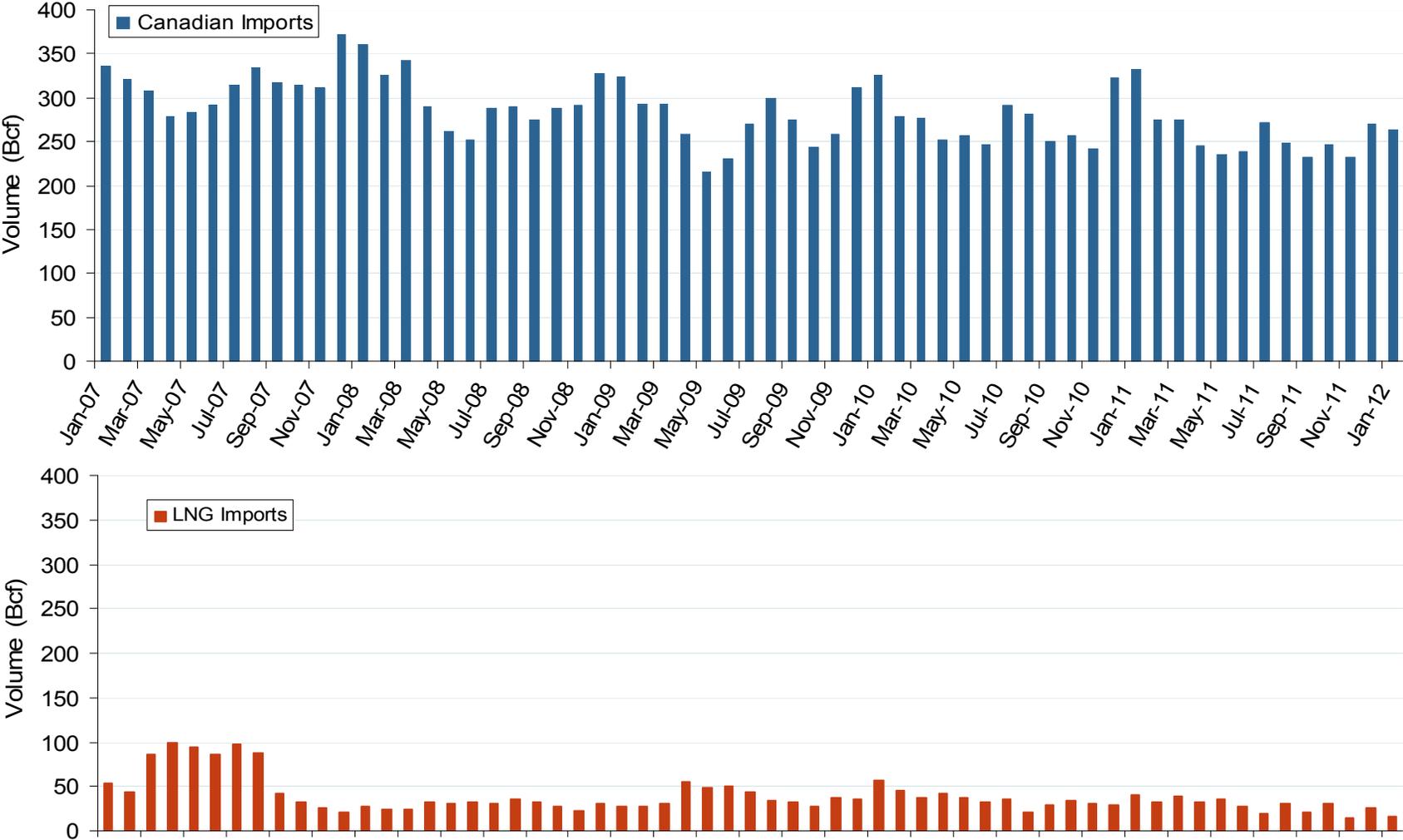
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from Bentek data

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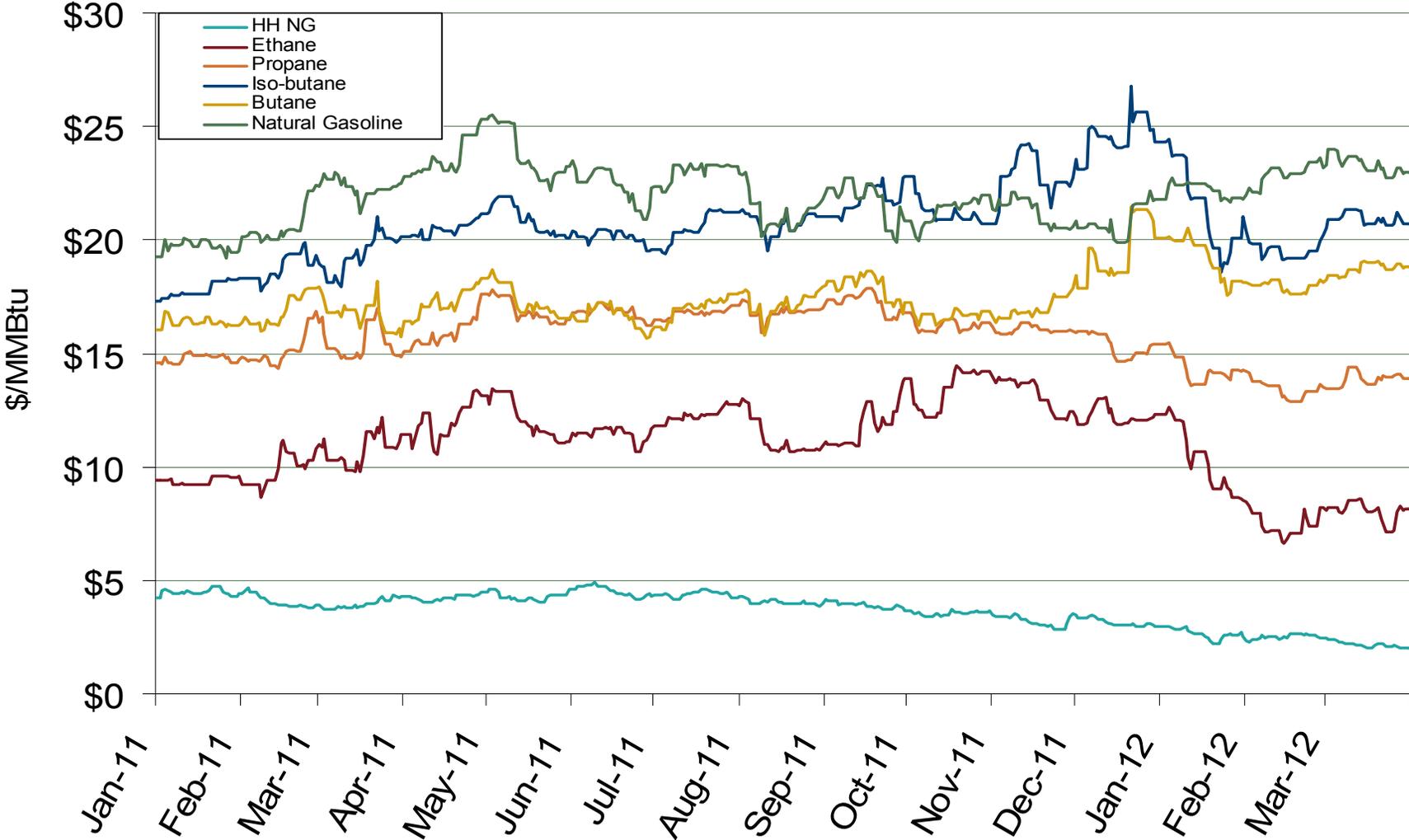
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# Canadian and LNG Natural Gas Imports Into the U.S.



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



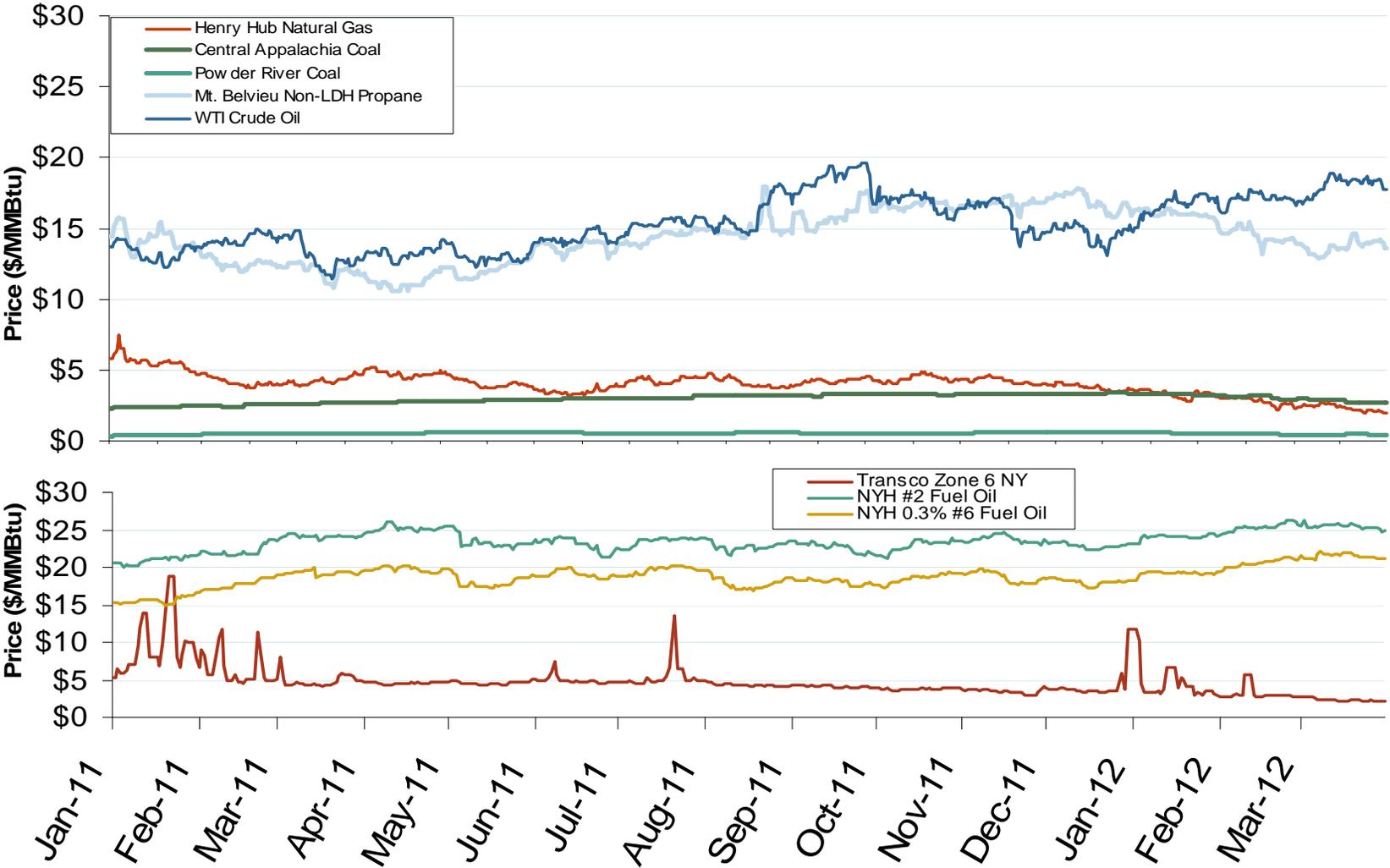
Source: Derived from *Bloomberg* Data  
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Other Fuels Market: Fossil Fuel Prices

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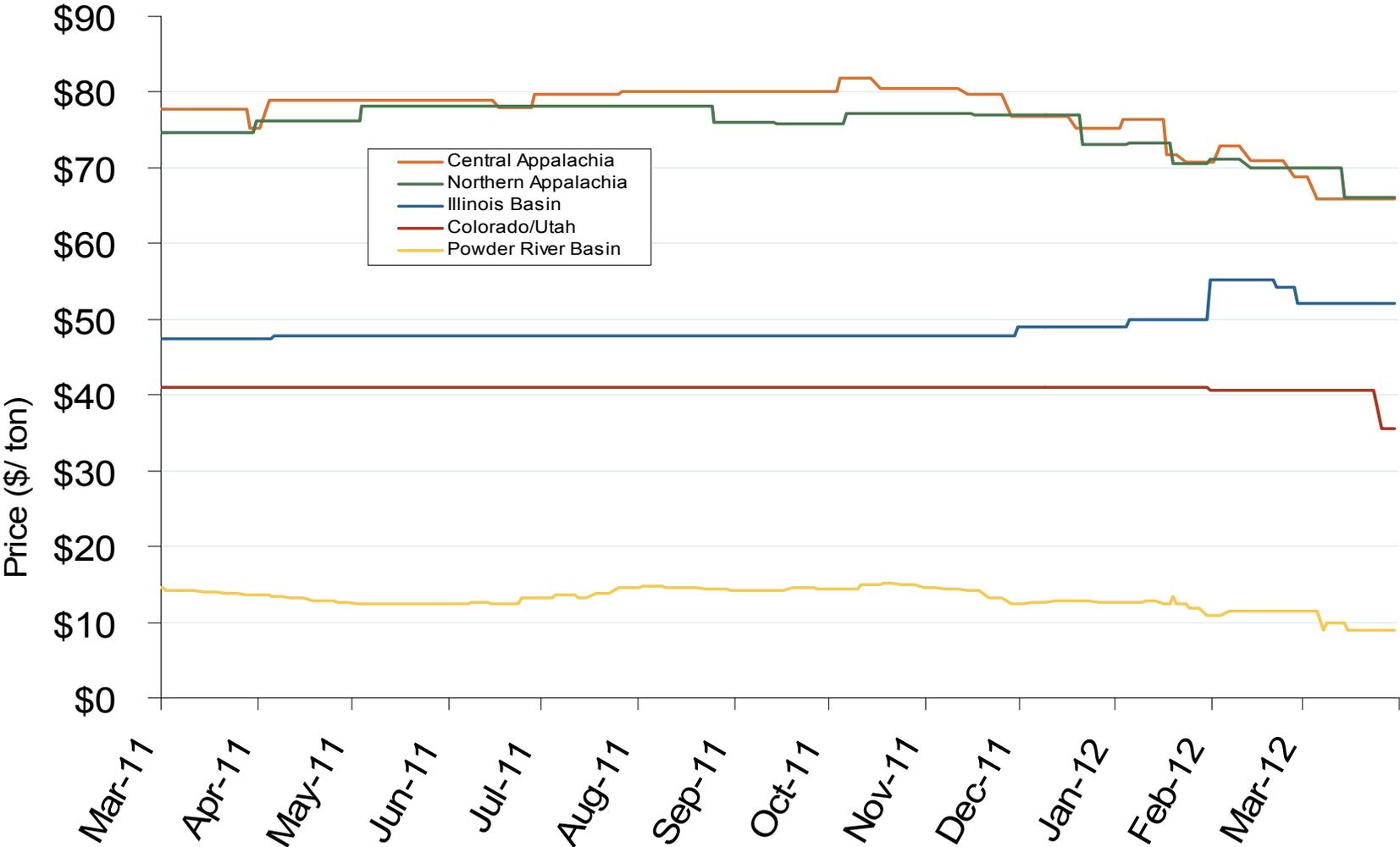
# Oil, Coal, Natural Gas and Propane Daily Spot Prices



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

### 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

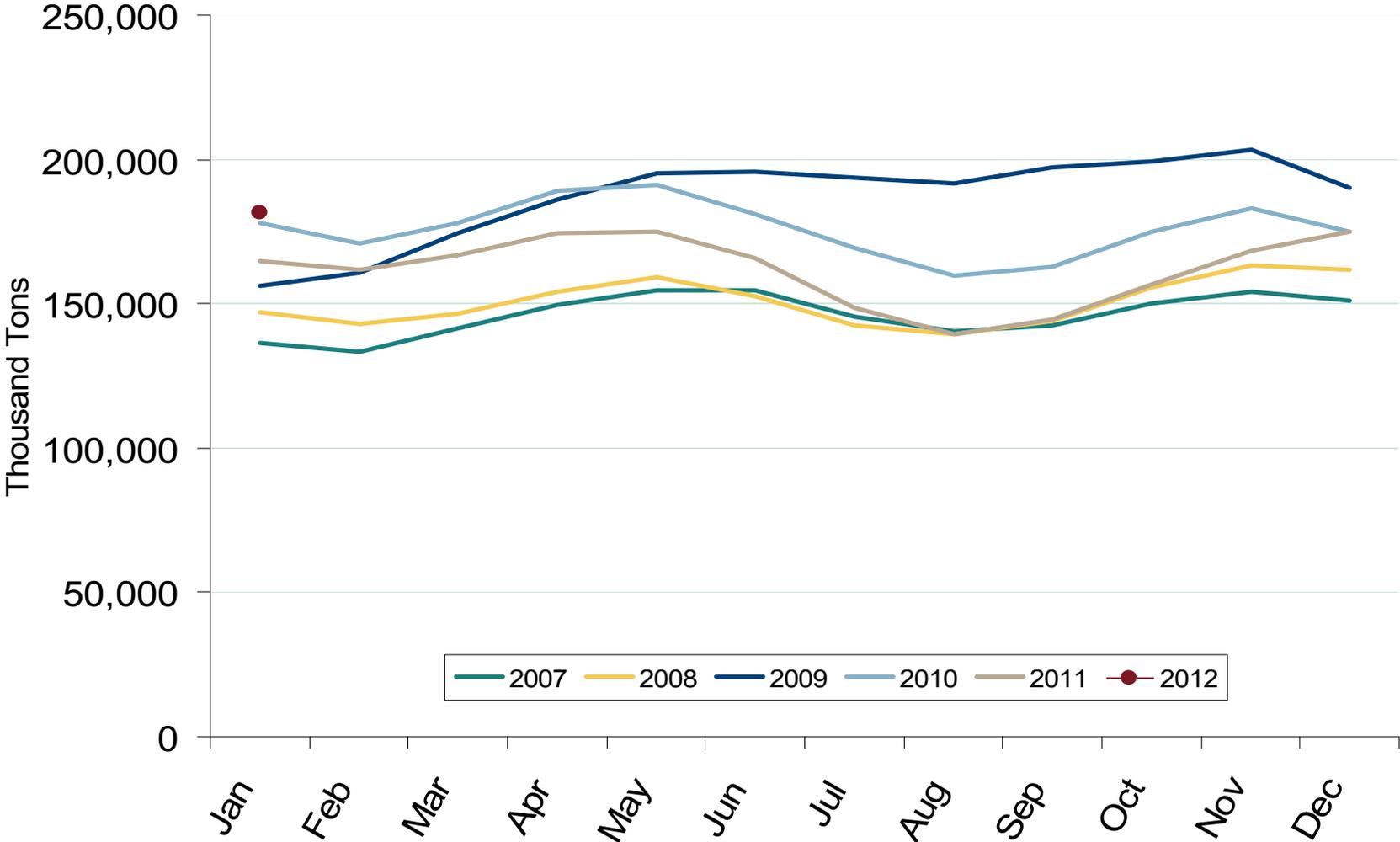
Source: Derived from Bloomberg data

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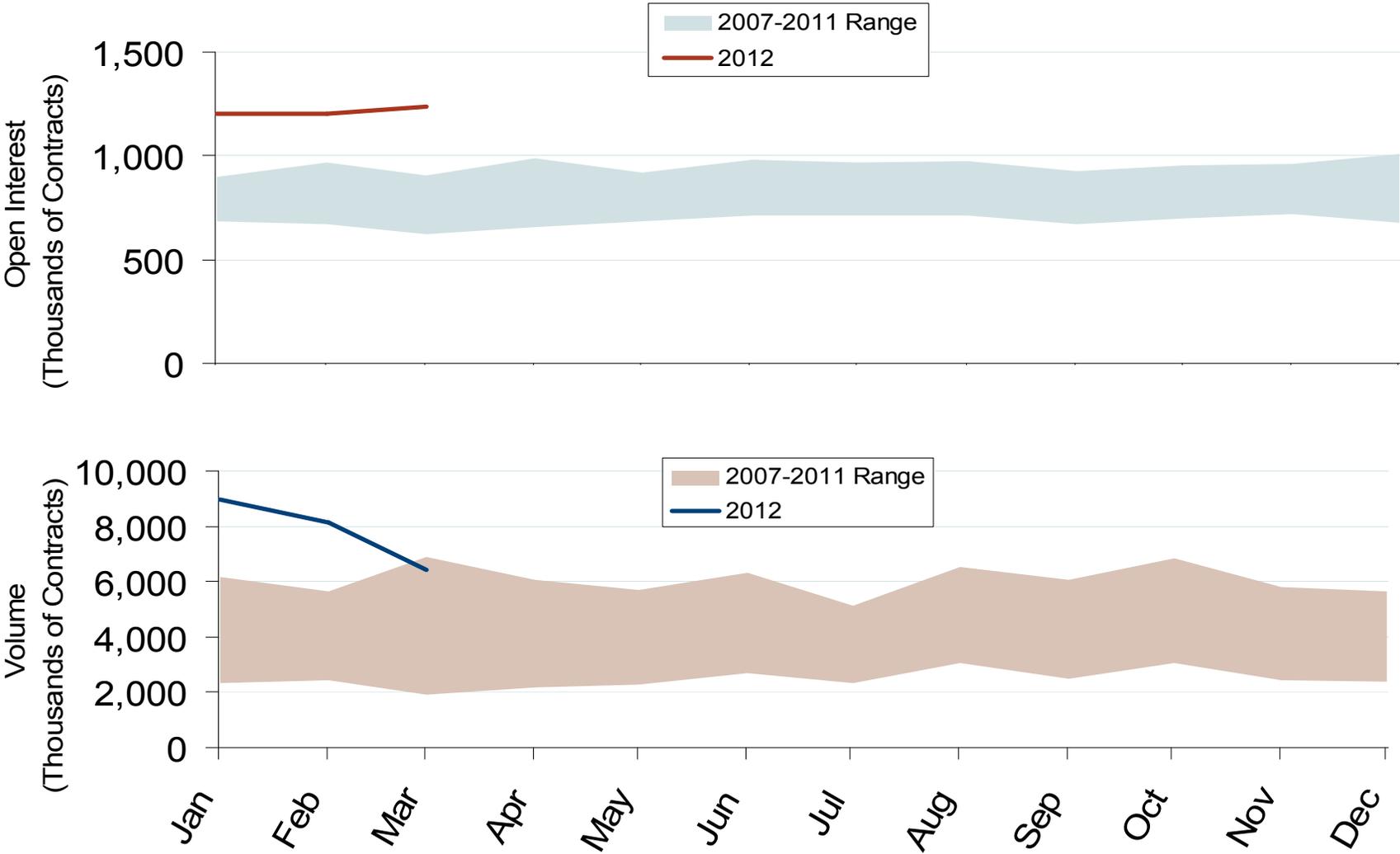
# U.S. Coal Stockpiles at Electric Power Generating Facilities



Source: Derived from EIA data. Excludes Industrial and Commercial Plants  
April 2012 National Snapshot Report

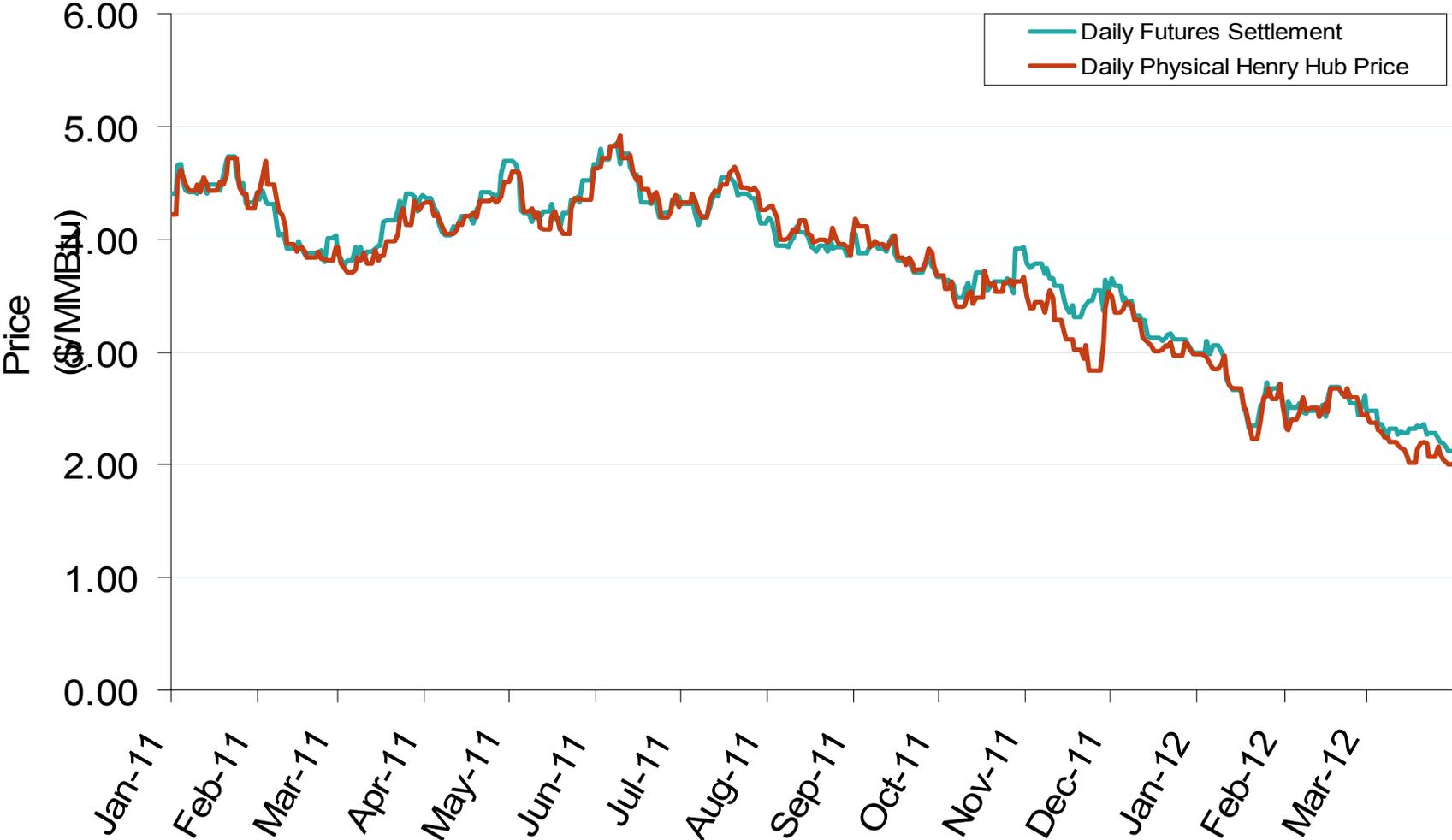
Updated: April 17, 2012

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



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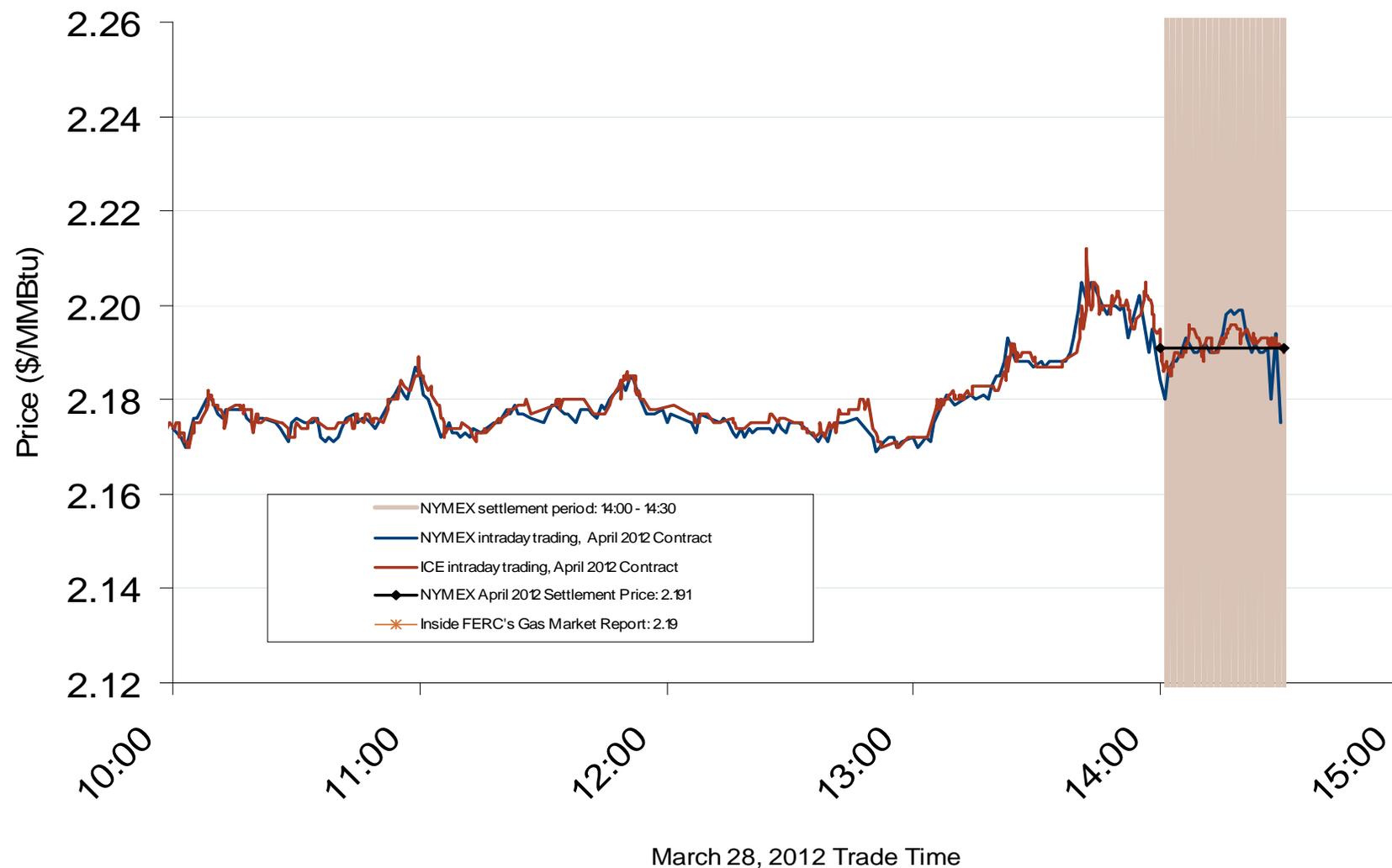
### Daily Physical Index Price & Daily Futures Settlement Price



Source: Derived from *Bloomberg* data  
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Updated: April 18, 2012

## Nymex and ICE Contract Final Settlement - April 2012

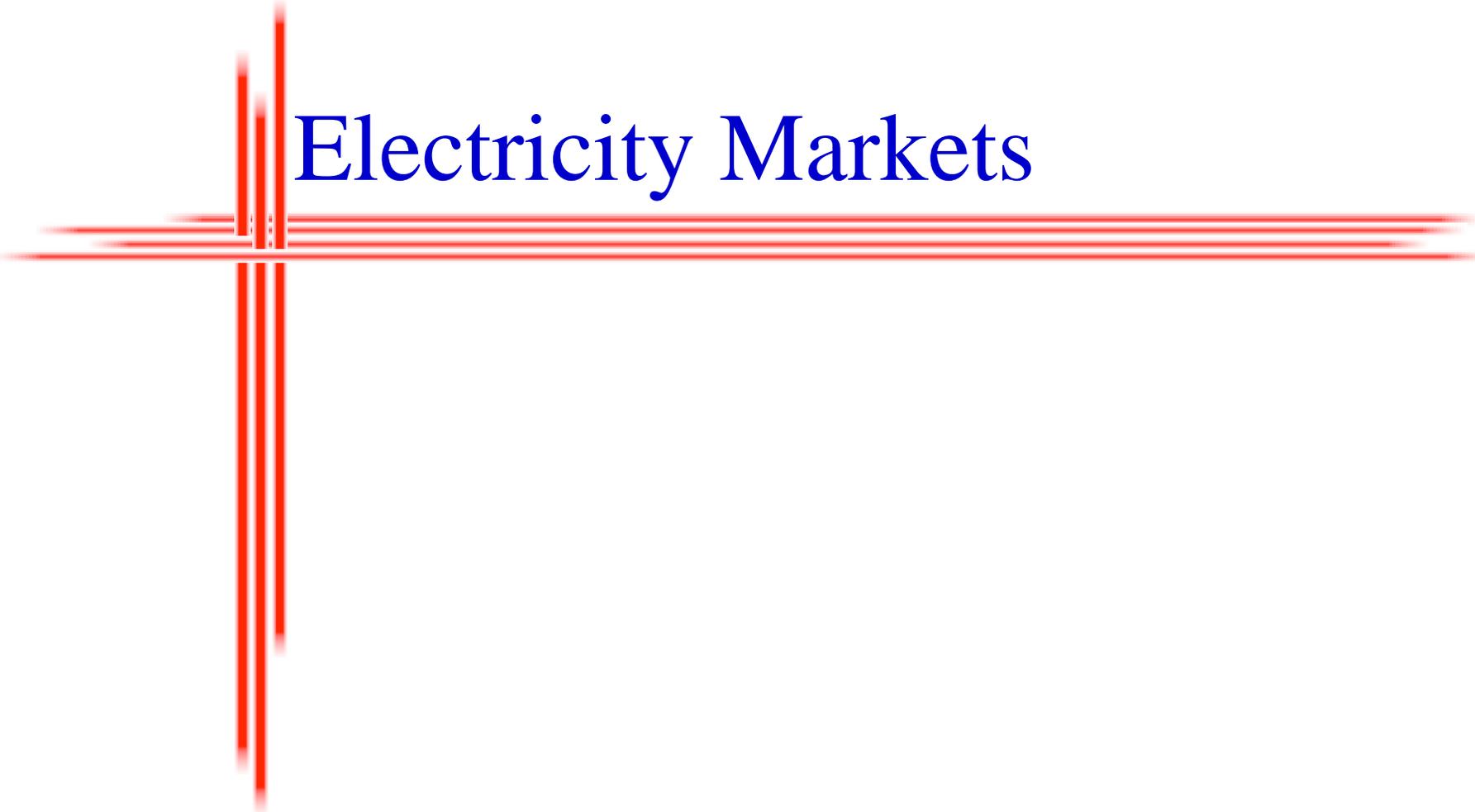


Notes: The final settlement day for this Nymex contract is three business days before the start of the contract term (which is the 1st day of the month)

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

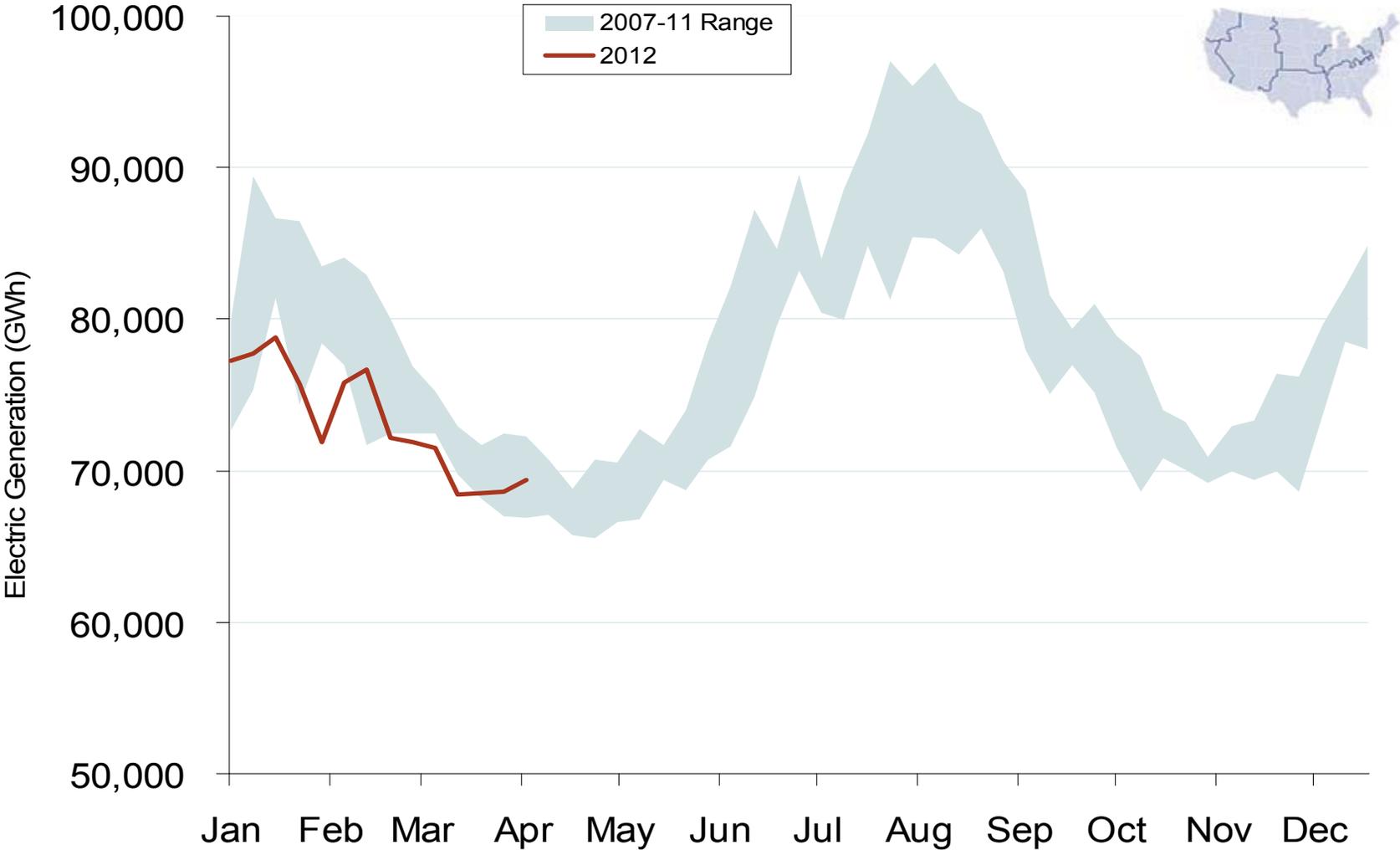
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# Electricity Markets

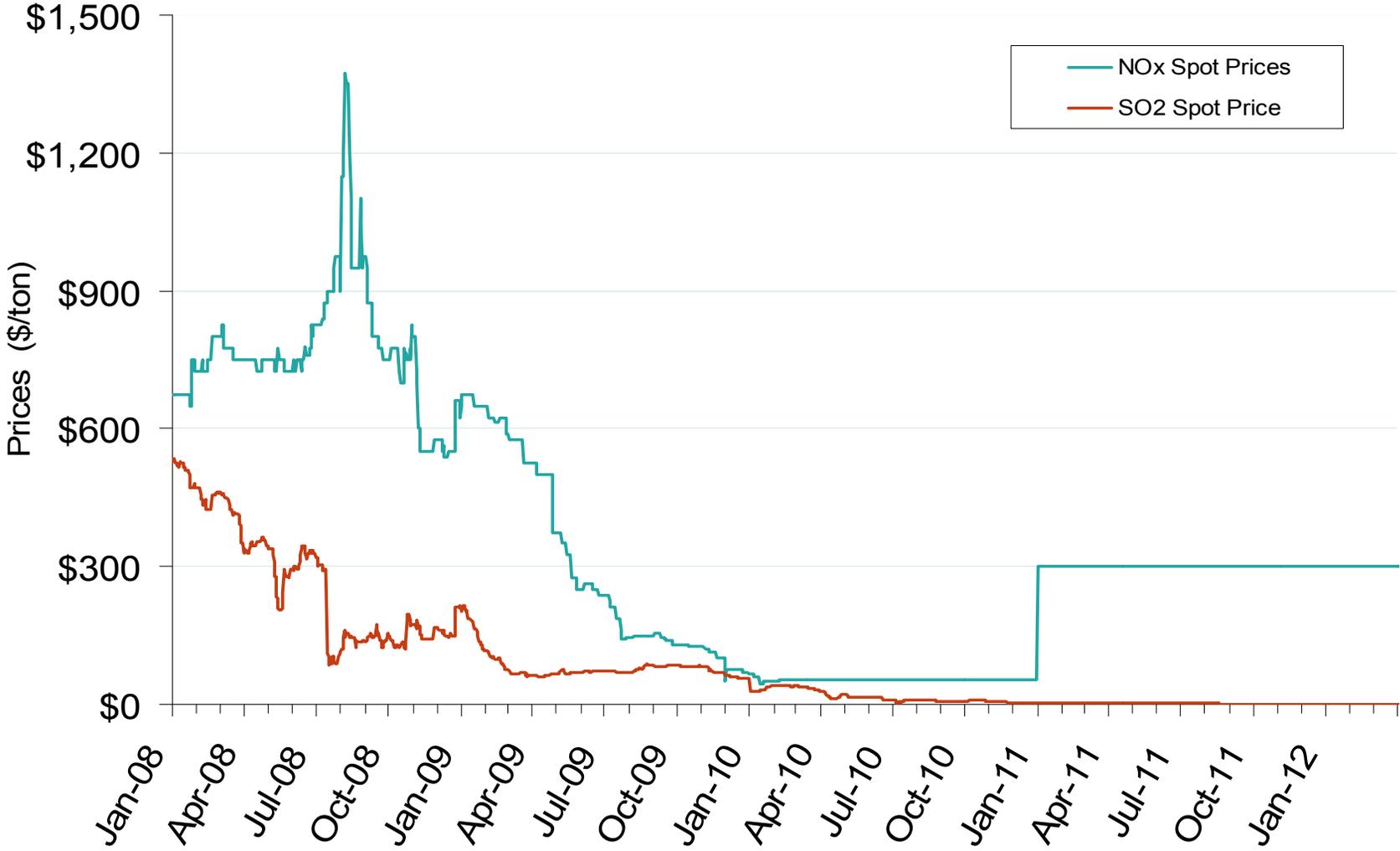
# Weekly U.S. Electric Generation Output



Source: Derived from *EEI* data  
April 2012 National Snapshot Report

Updated: April 19, 2012

# SO2 Allowance Spot Prices and NOx Allowance Spot Prices



Source: Derived from *Bloomberg* data  
April 2012 National Snapshot Report

Updated: April 18, 2012

## New Grid-connected PV Capacity Doubles Again in 2011

