

OE ENERGY MARKET SNAPSHOT

Mid-Atlantic States Version – March 2012 Data

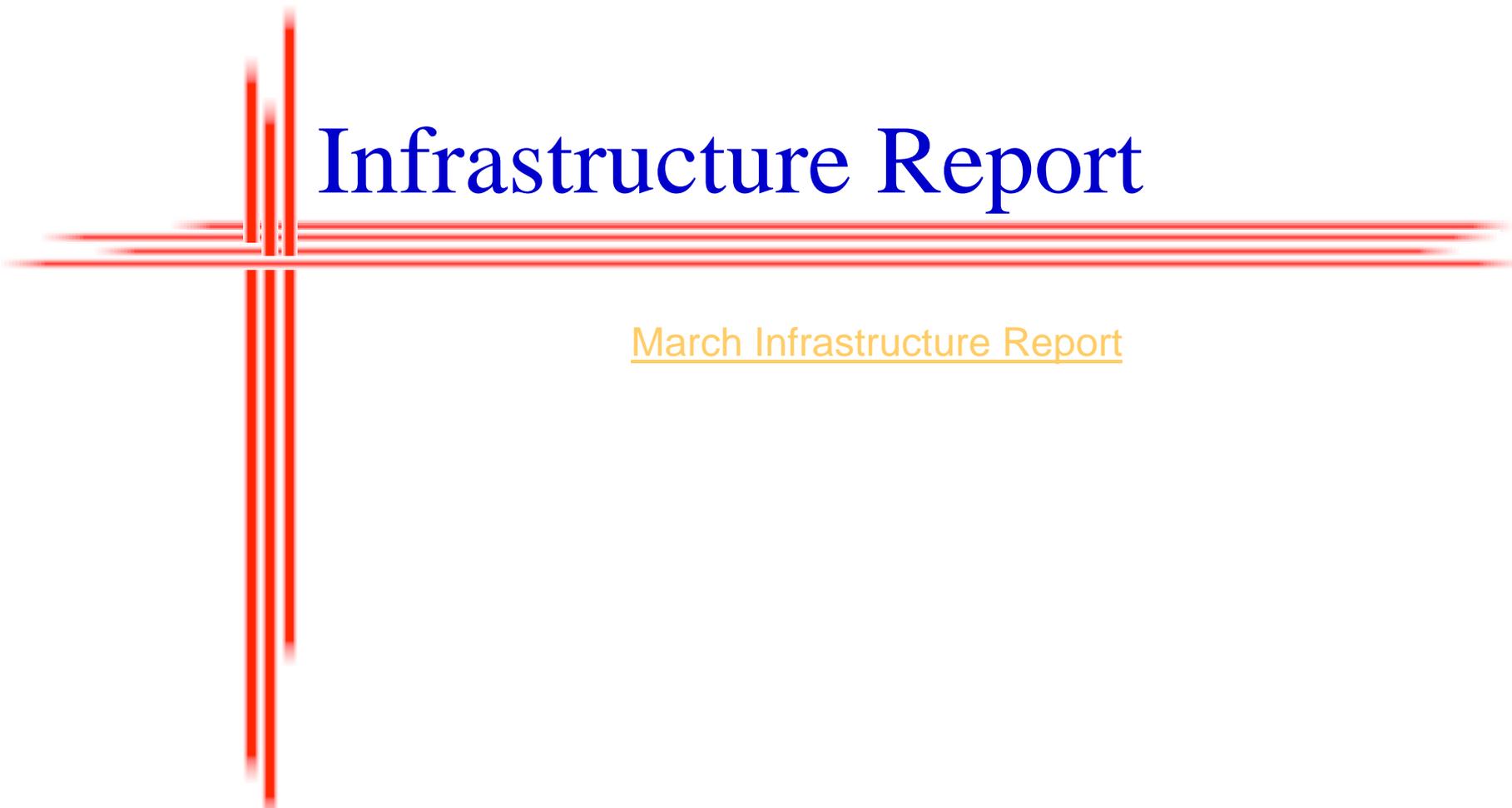
Office of Enforcement
Federal Energy Regulatory Commission
April 2012



2011 State of the Markets

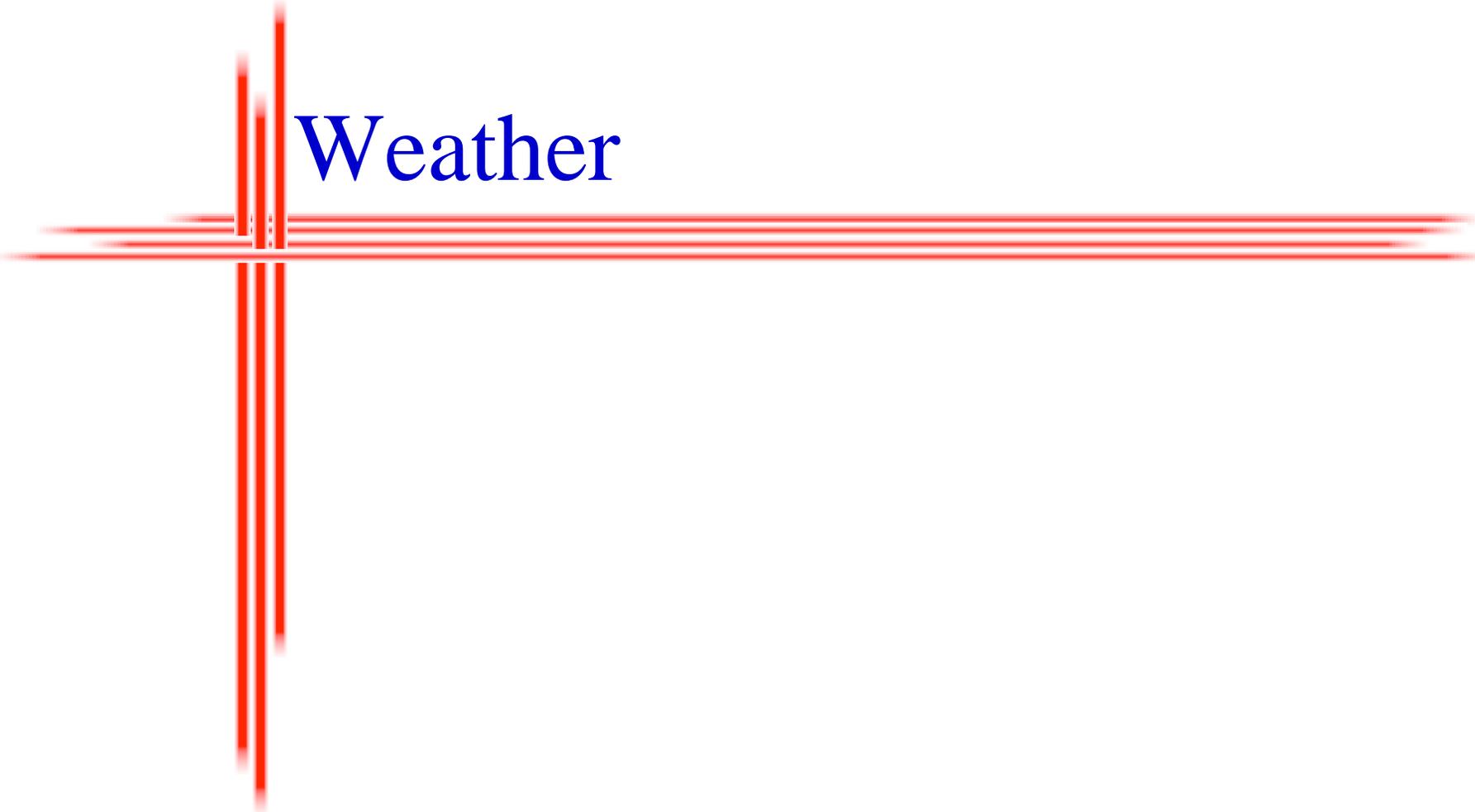
Item No: A-3
April 19, 2012

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



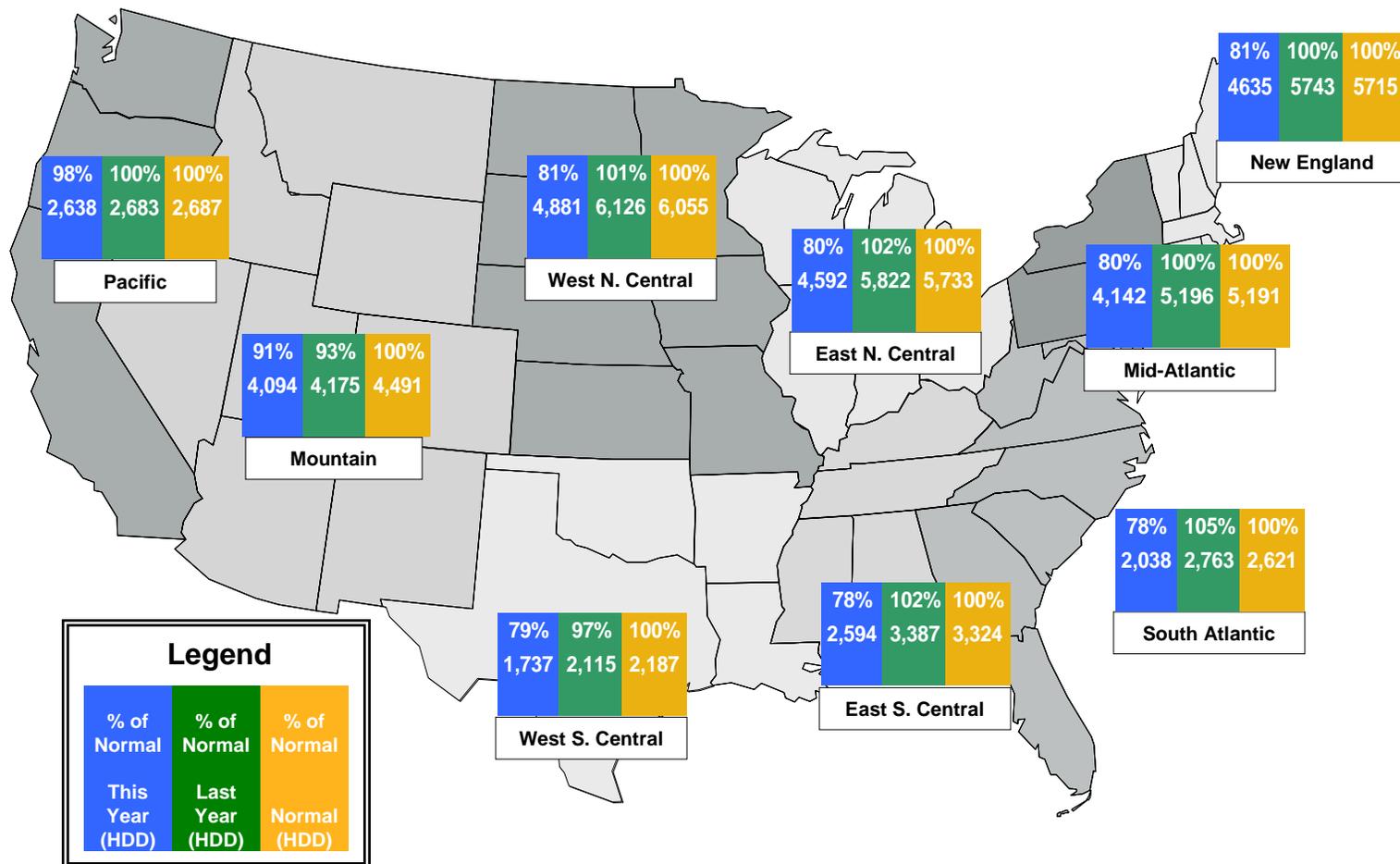
Infrastructure Report

March Infrastructure Report



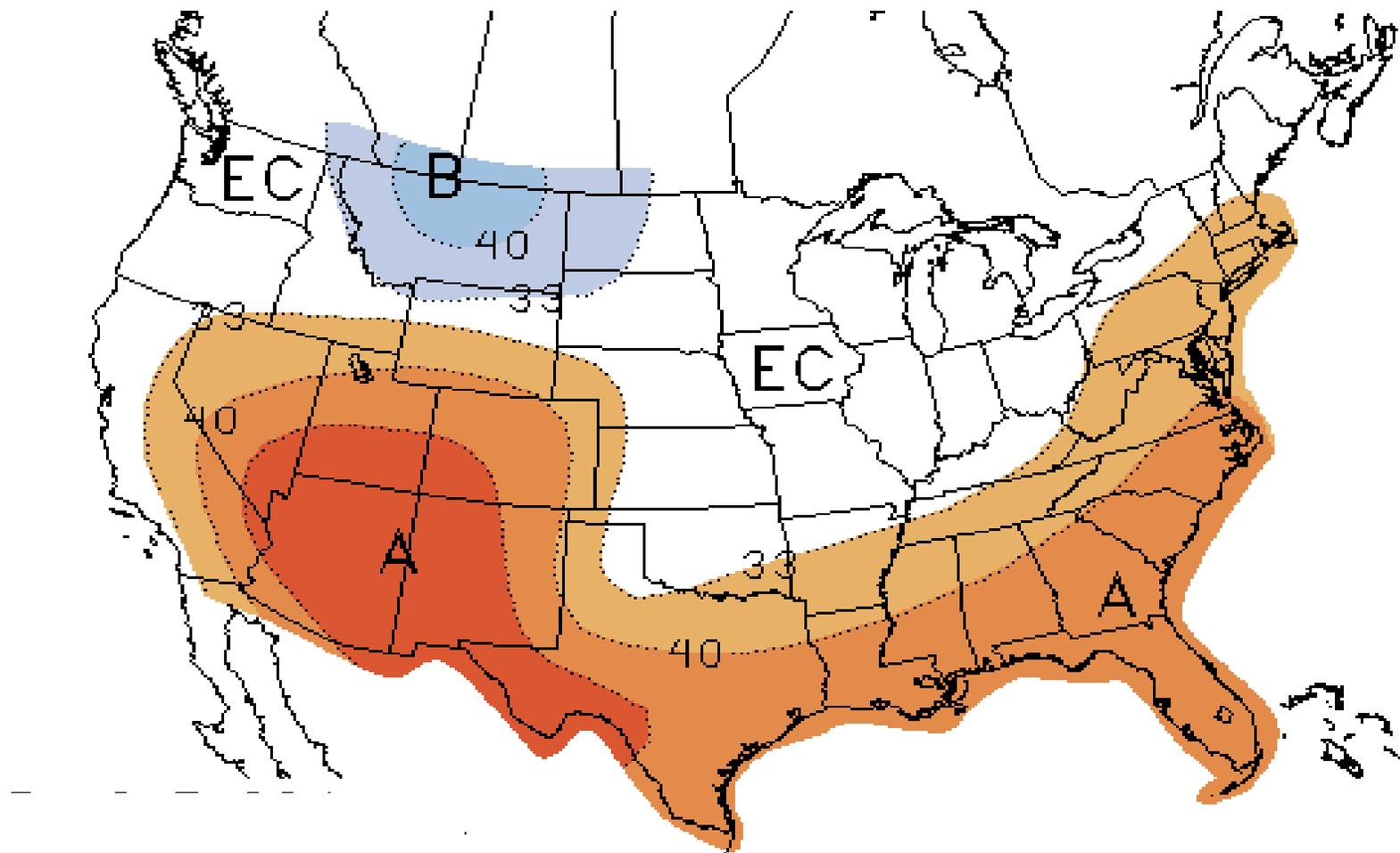
Weather

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.

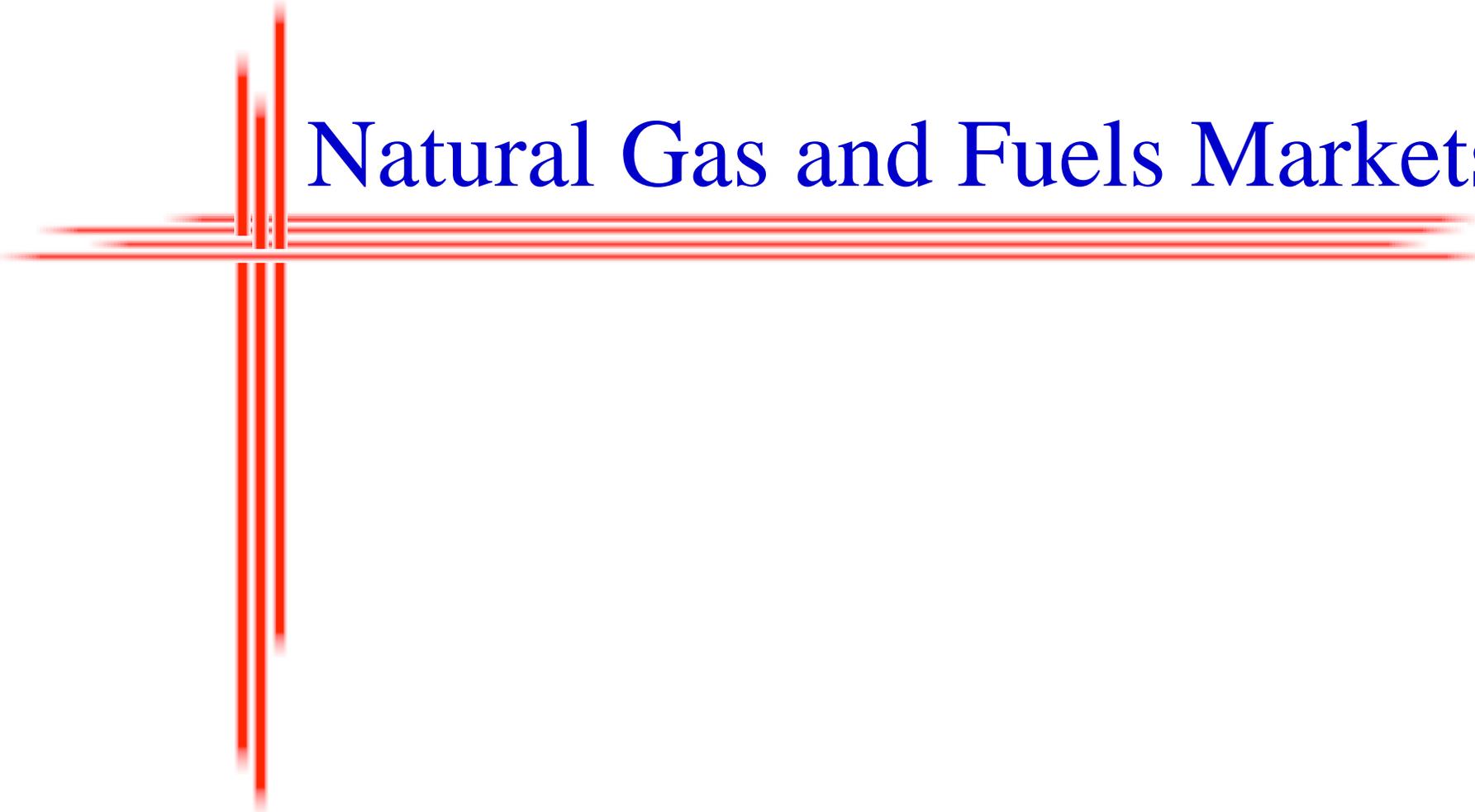
NOAA's 3 Month Temperature Forecast Made April 19, 2012, Valid for May 2012 – July 2012



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.

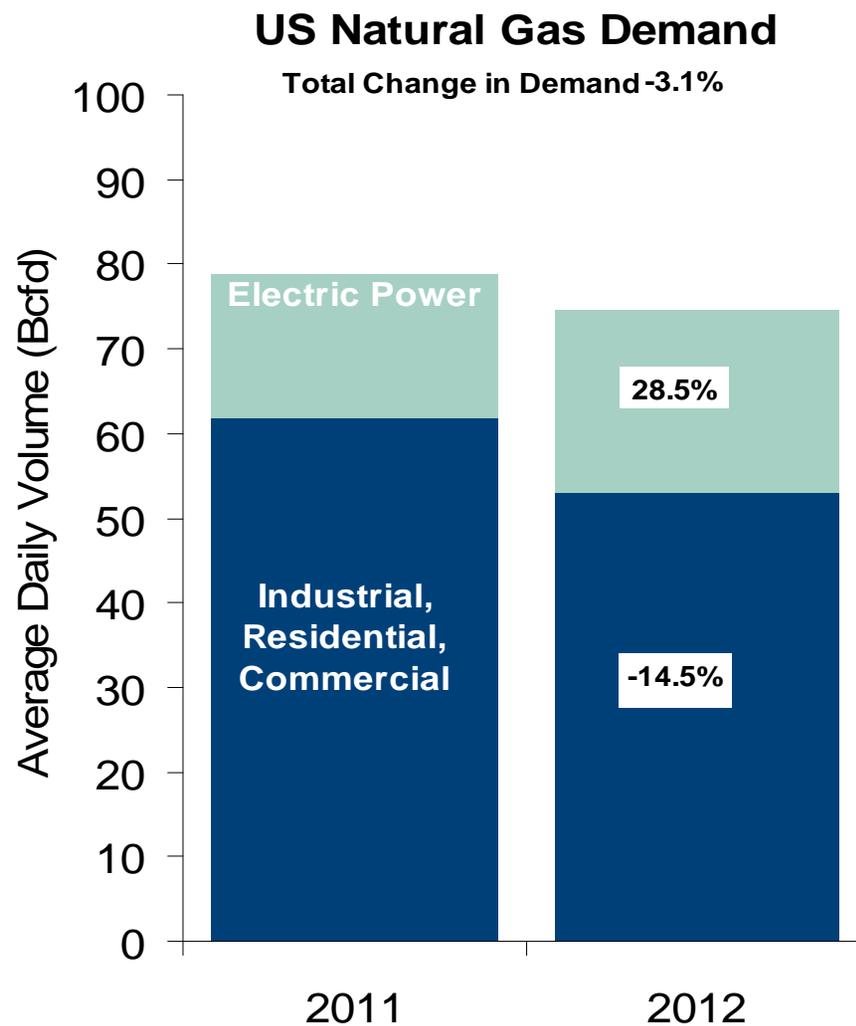
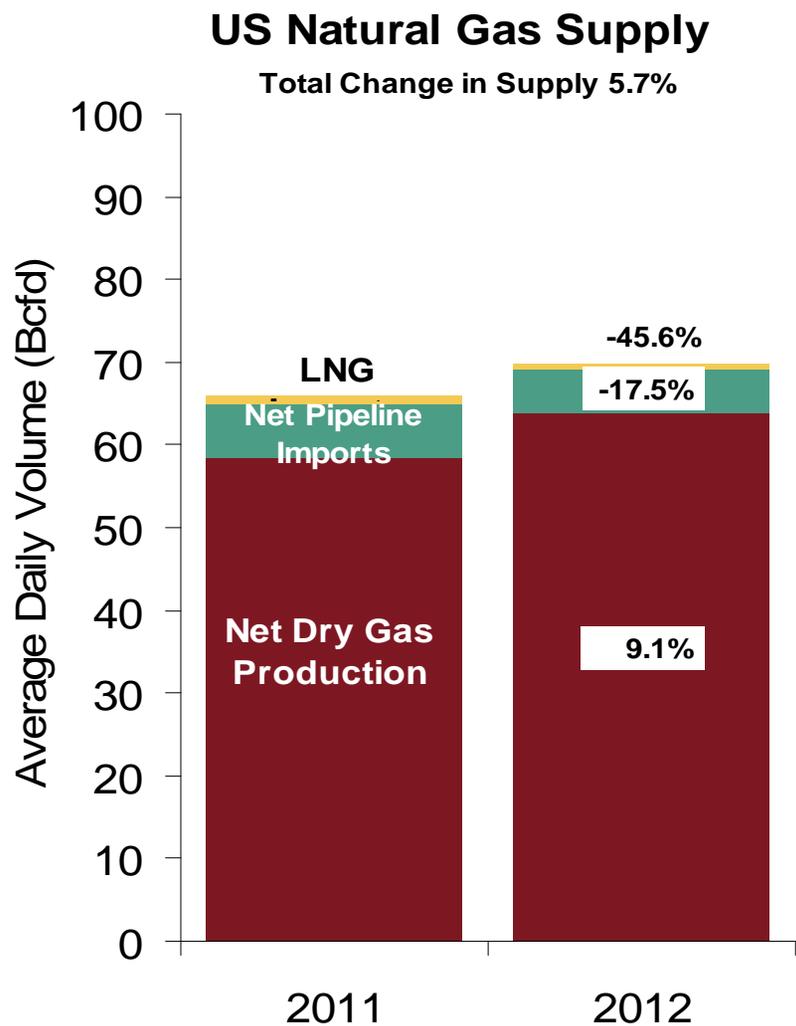
Source: Derived from NOAA data.

Updated: April 19, 2012



Natural Gas and Fuels Markets

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



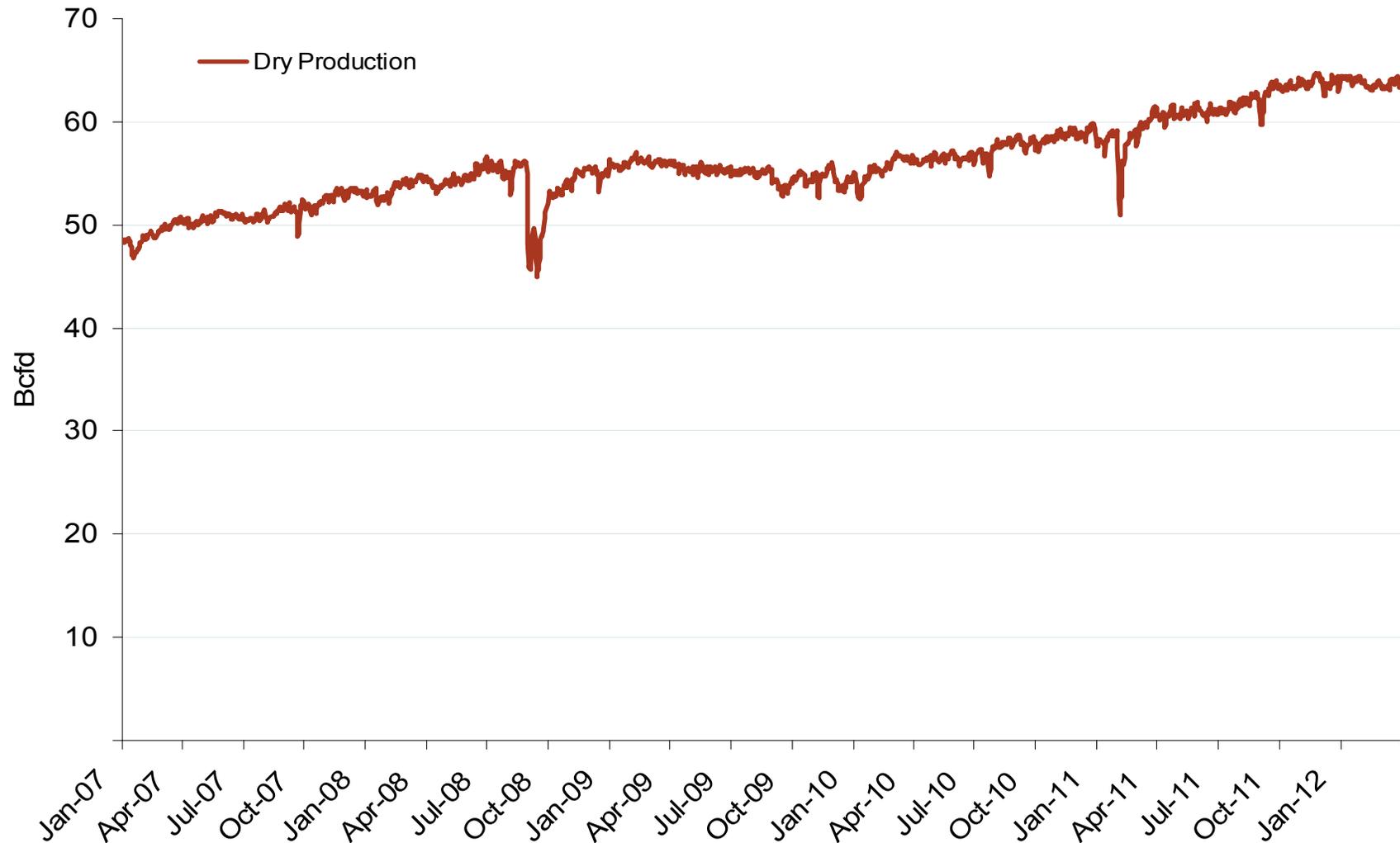
Note: Balance includes all amounts not attributable to other categories.

Source: Derived from *Bentek Energy* data

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Updated: April 17, 2012

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



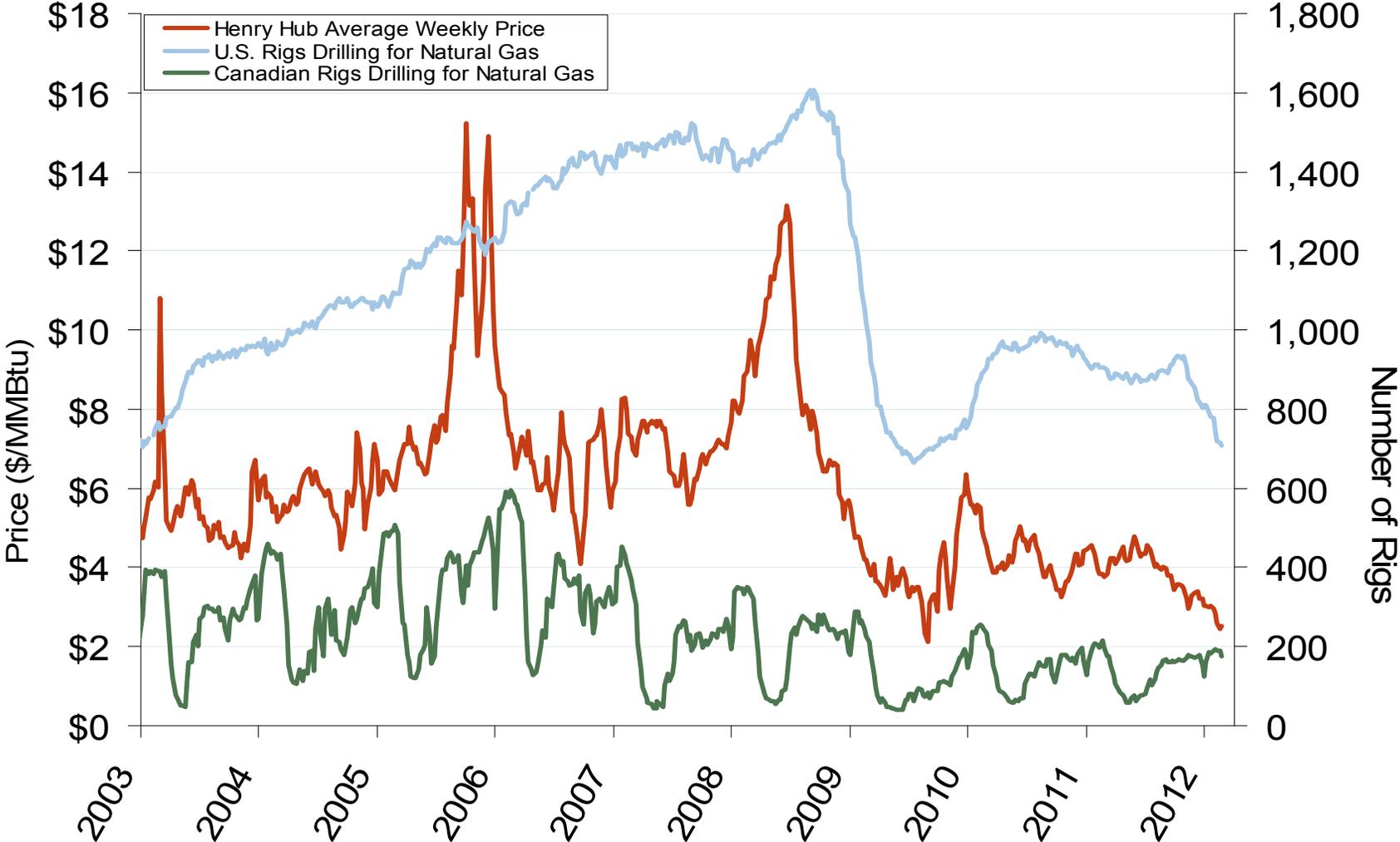
Note: Prior to July 2010, chart was derived from a combination of *EIA* and *Bentek Energy* data

Source: Derived from *Bentek Energy* data

April 2012 Mid-Atlantic Snapshot Report

Updated: April 17, 2012

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



Source: Derived from *Platts* and *Baker Hughes* data
April 2012 Mid-Atlantic Snapshot Report

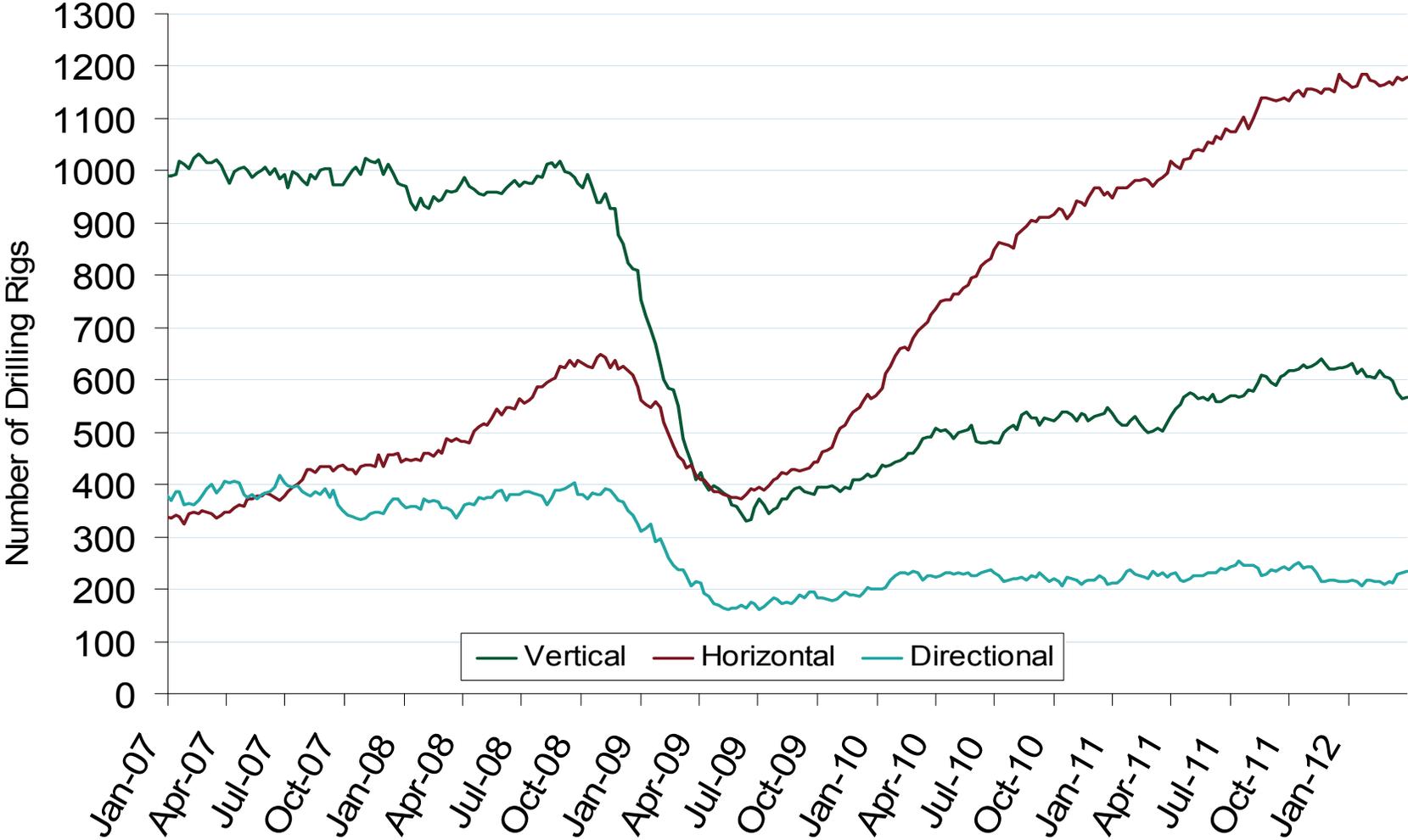
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Examples of Drill Bits Used in Shale Gas Production



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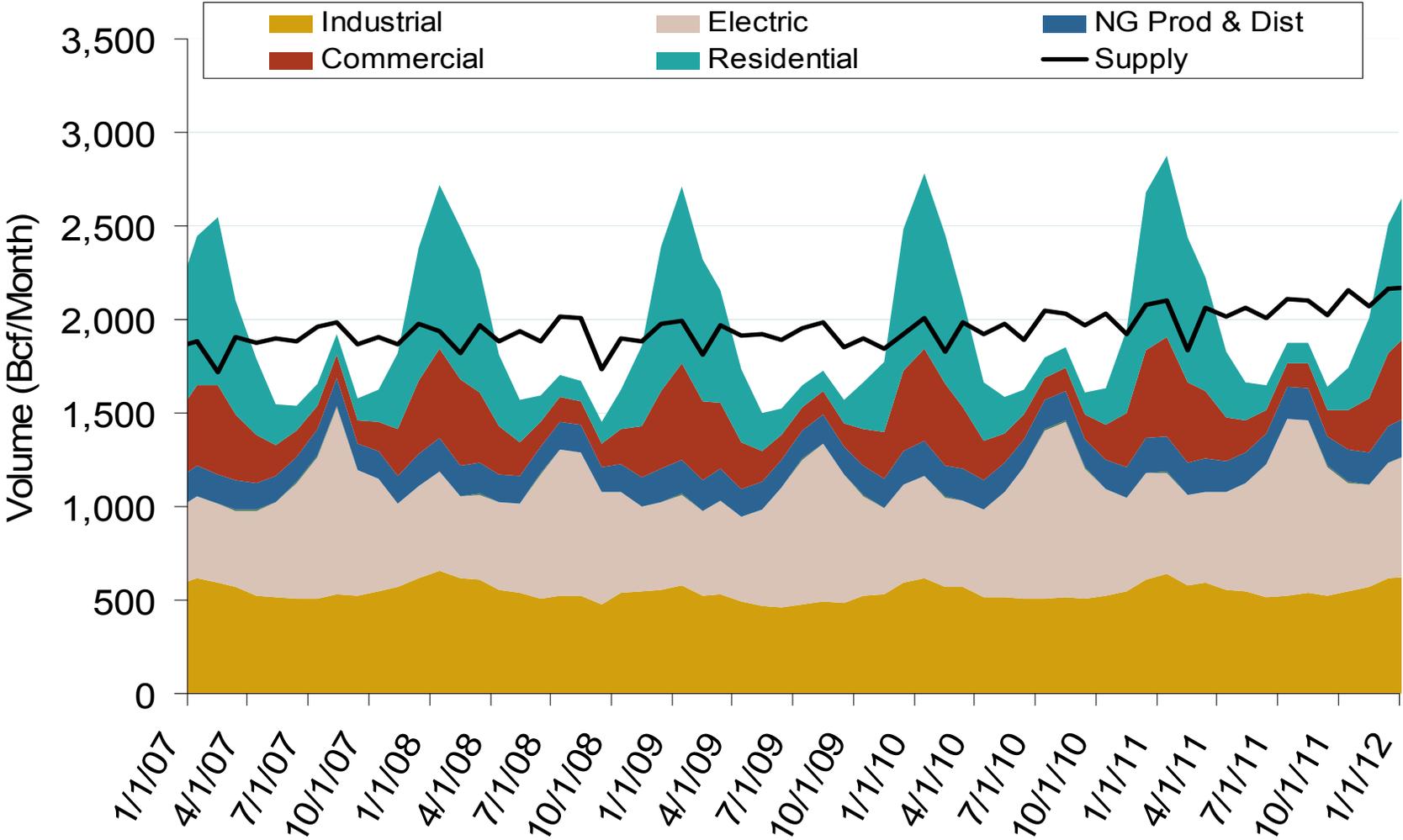
U.S. Oil and Natural Gas Drilling Rig Count by Type



Source: Derived from *Platts* and *Baker Hughes* data
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Updated: April 18, 2012

Annual U.S. Natural Gas Consumption by Sector



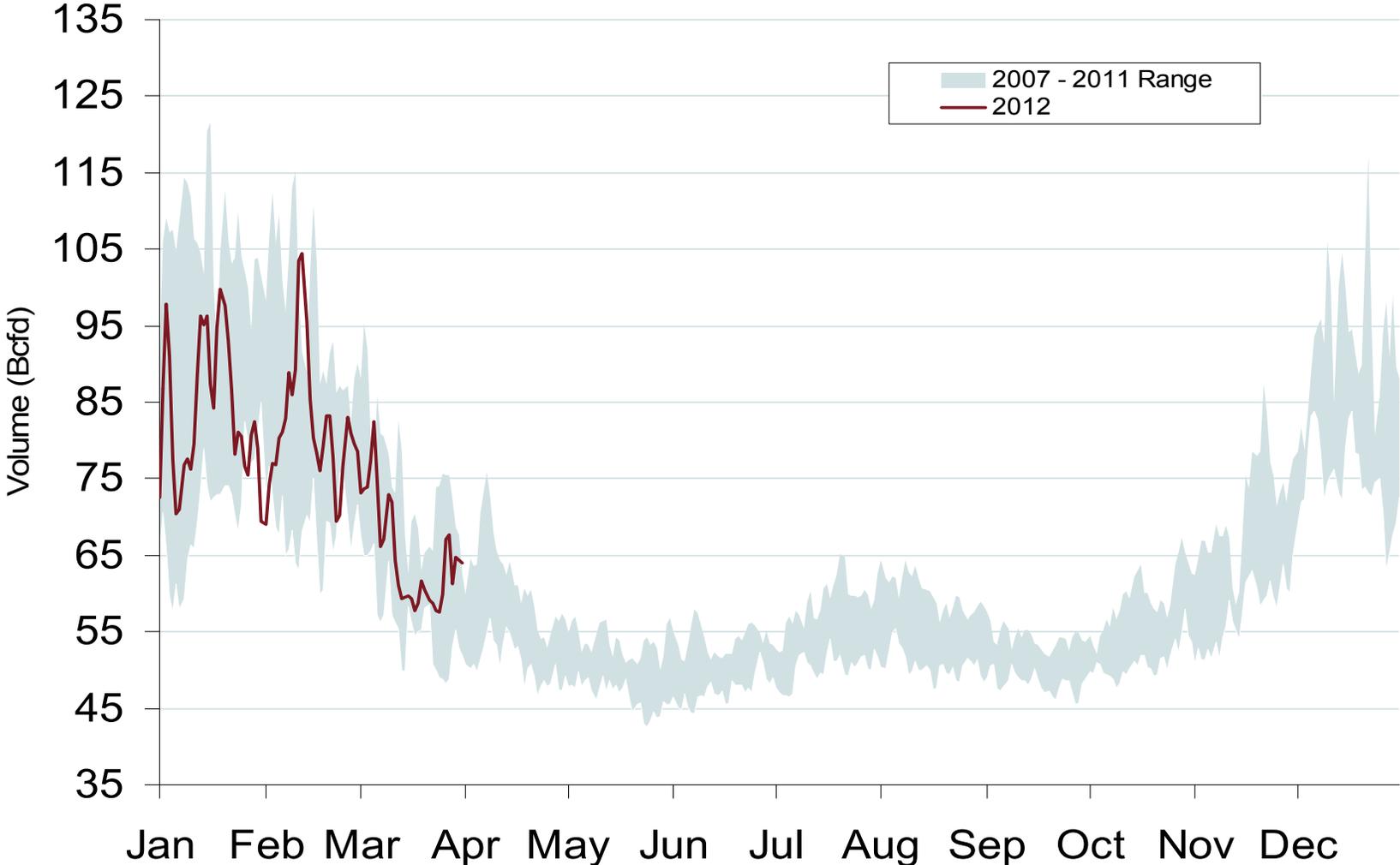
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

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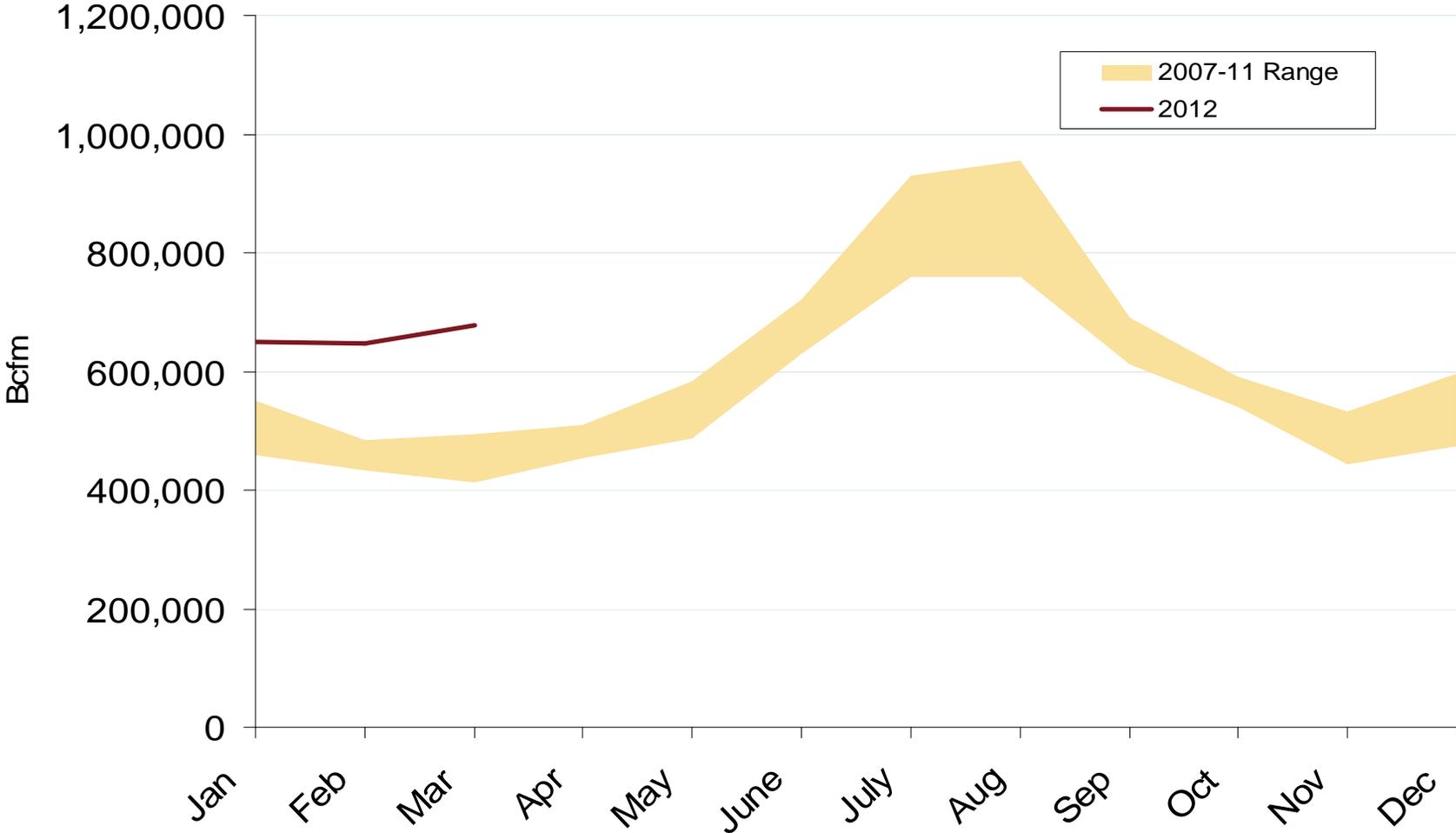
Updated: April 17, 2012

Total U.S. Natural Gas Demand All Sectors



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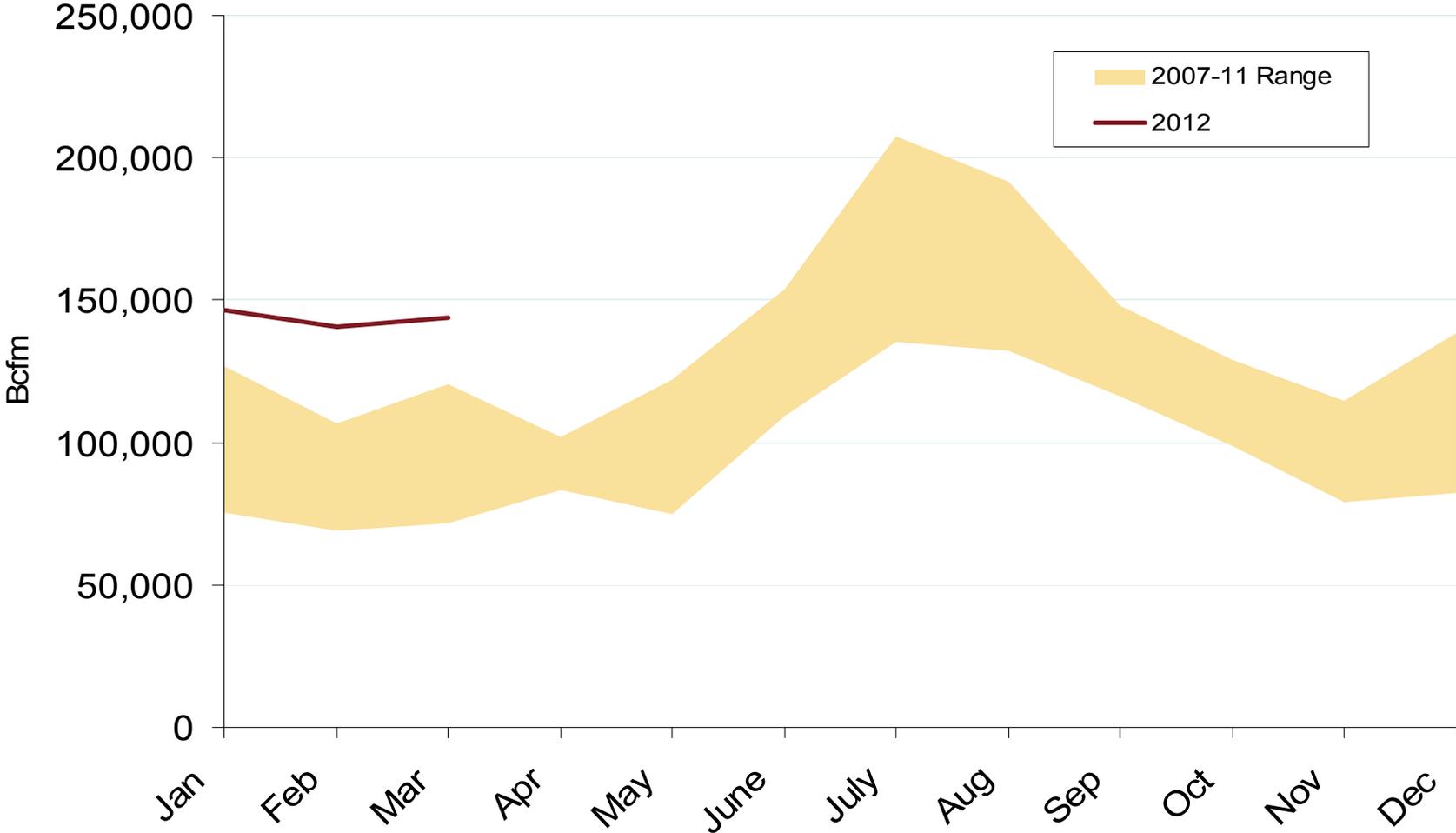
U.S. Natural Gas Consumption for Power Generation



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

Updated: April 30, 2012

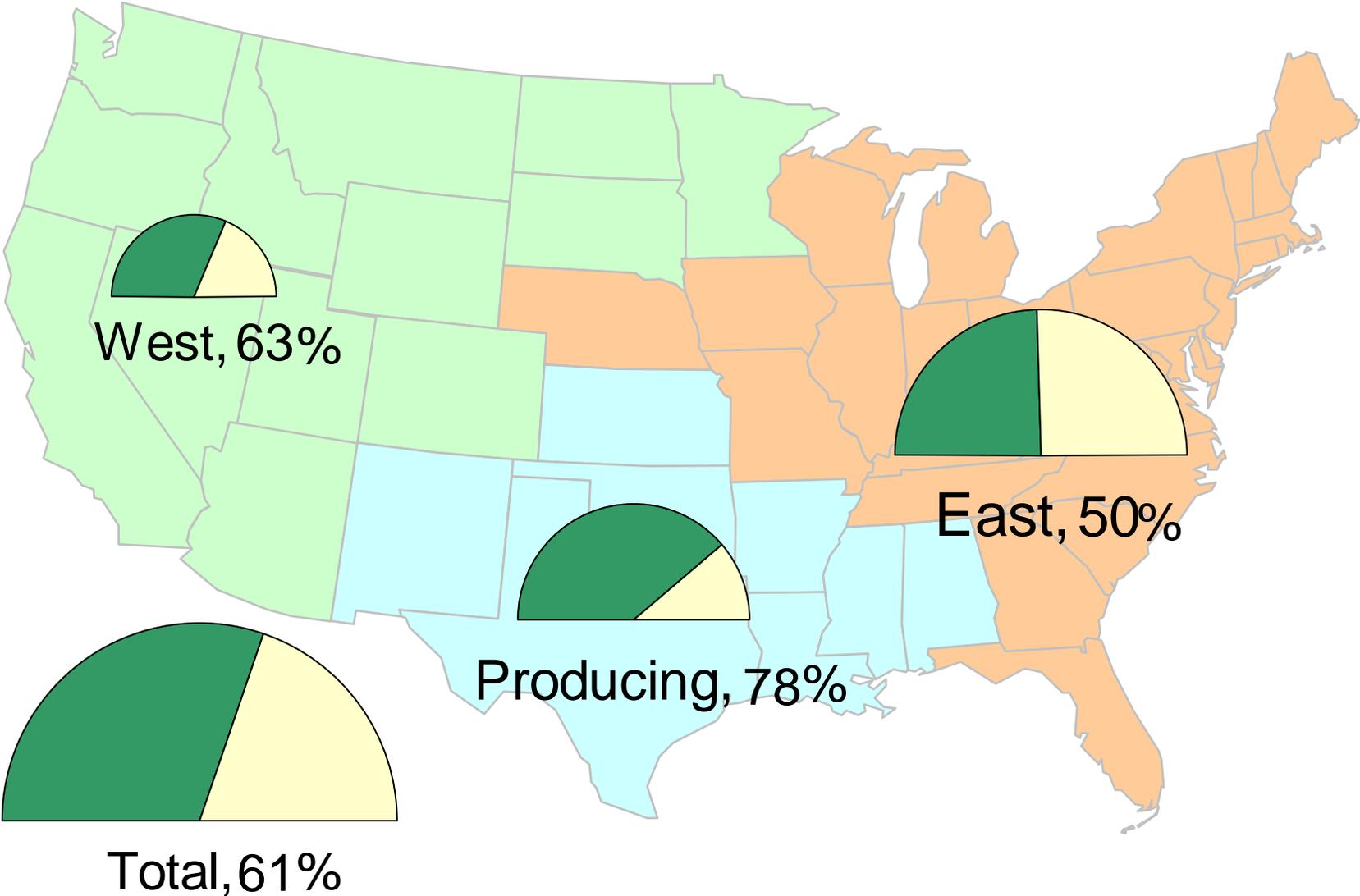
Northeast Natural Gas Consumption for Power Generation



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

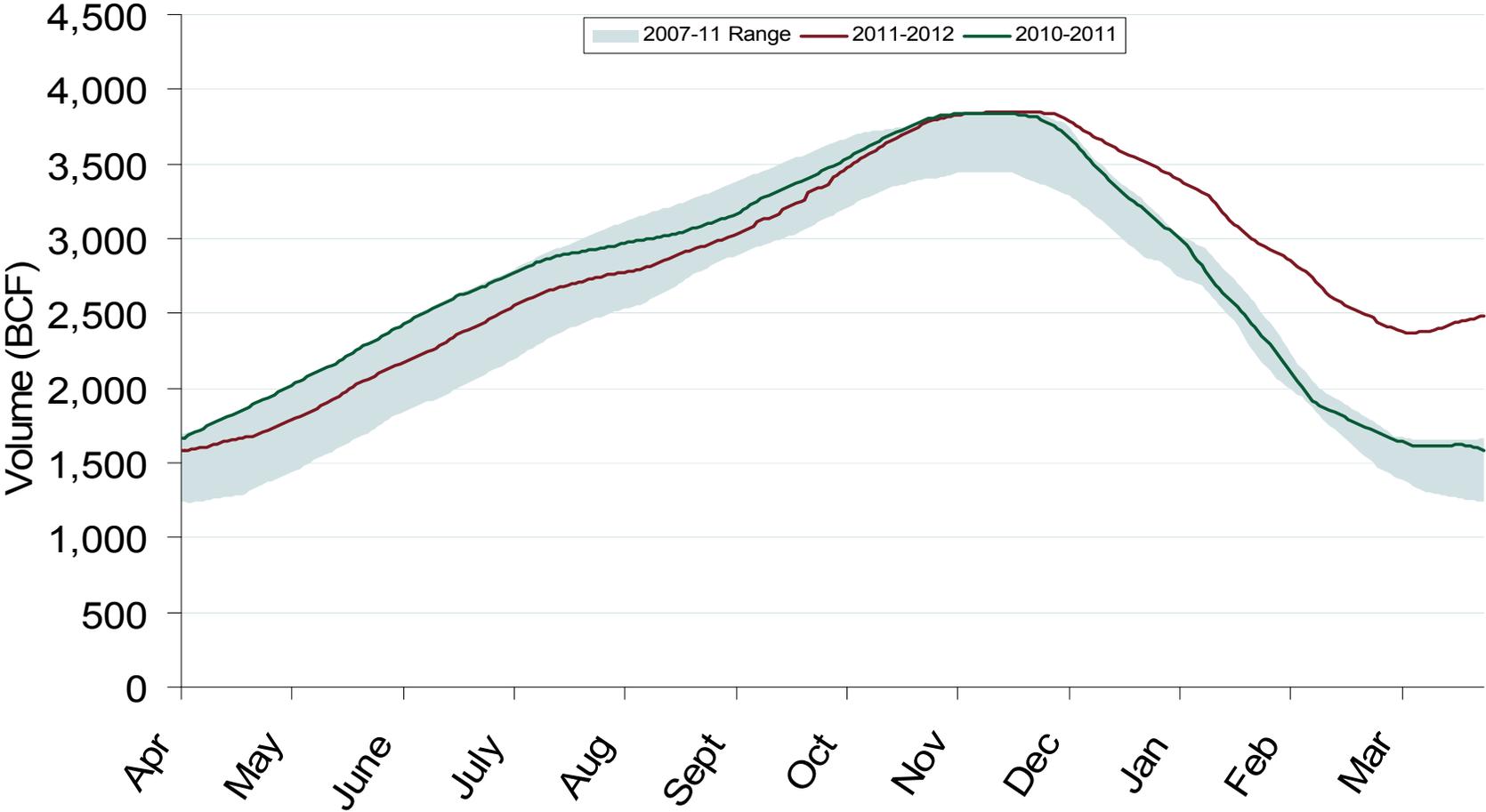
Updated: April 17, 2012

Natural Gas Storage Inventories – April 6, 2012



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

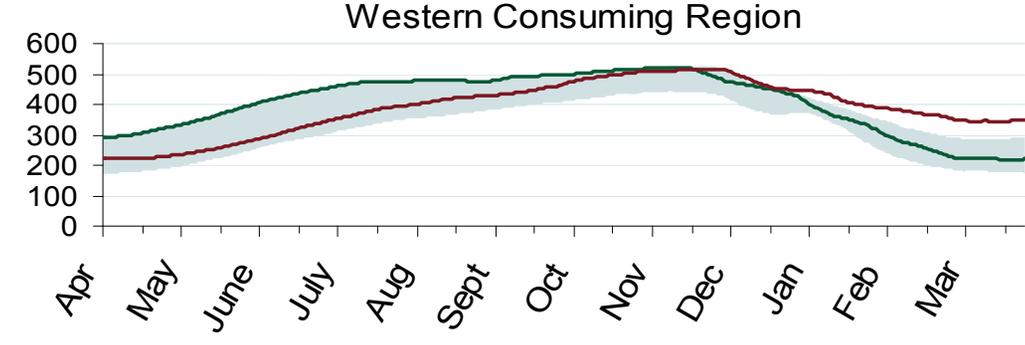
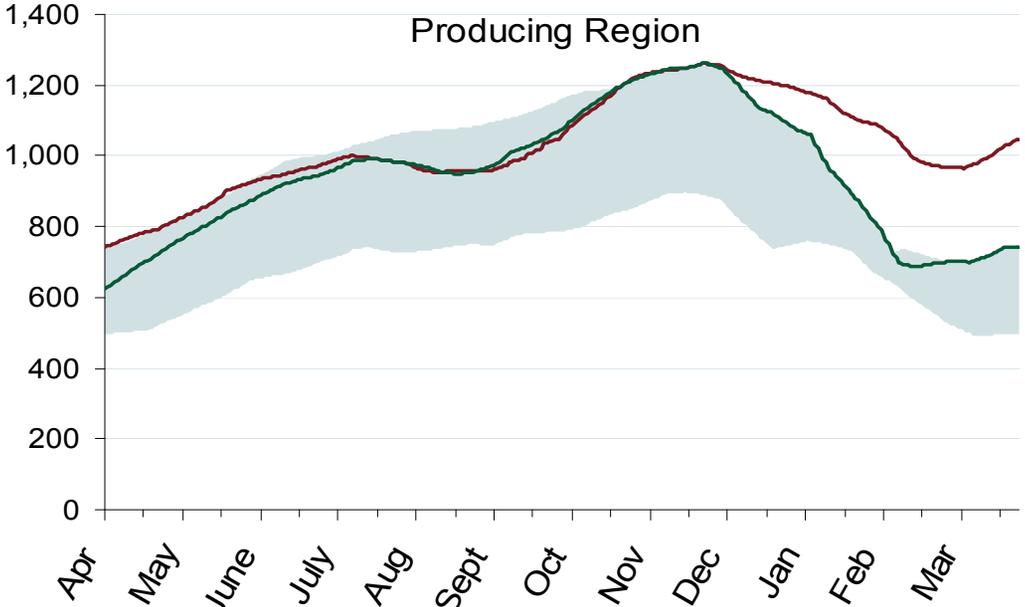
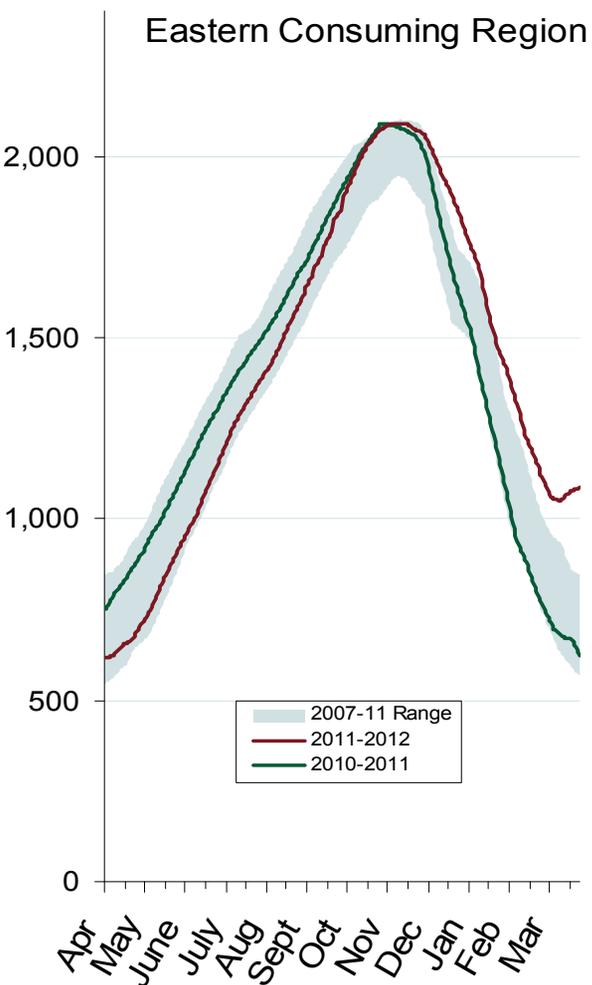
Total U.S. Working Gas in Storage



Source: Derived from EIA data
April 2012 Mid-Atlantic Snapshot Report

Updated: April 17, 2012

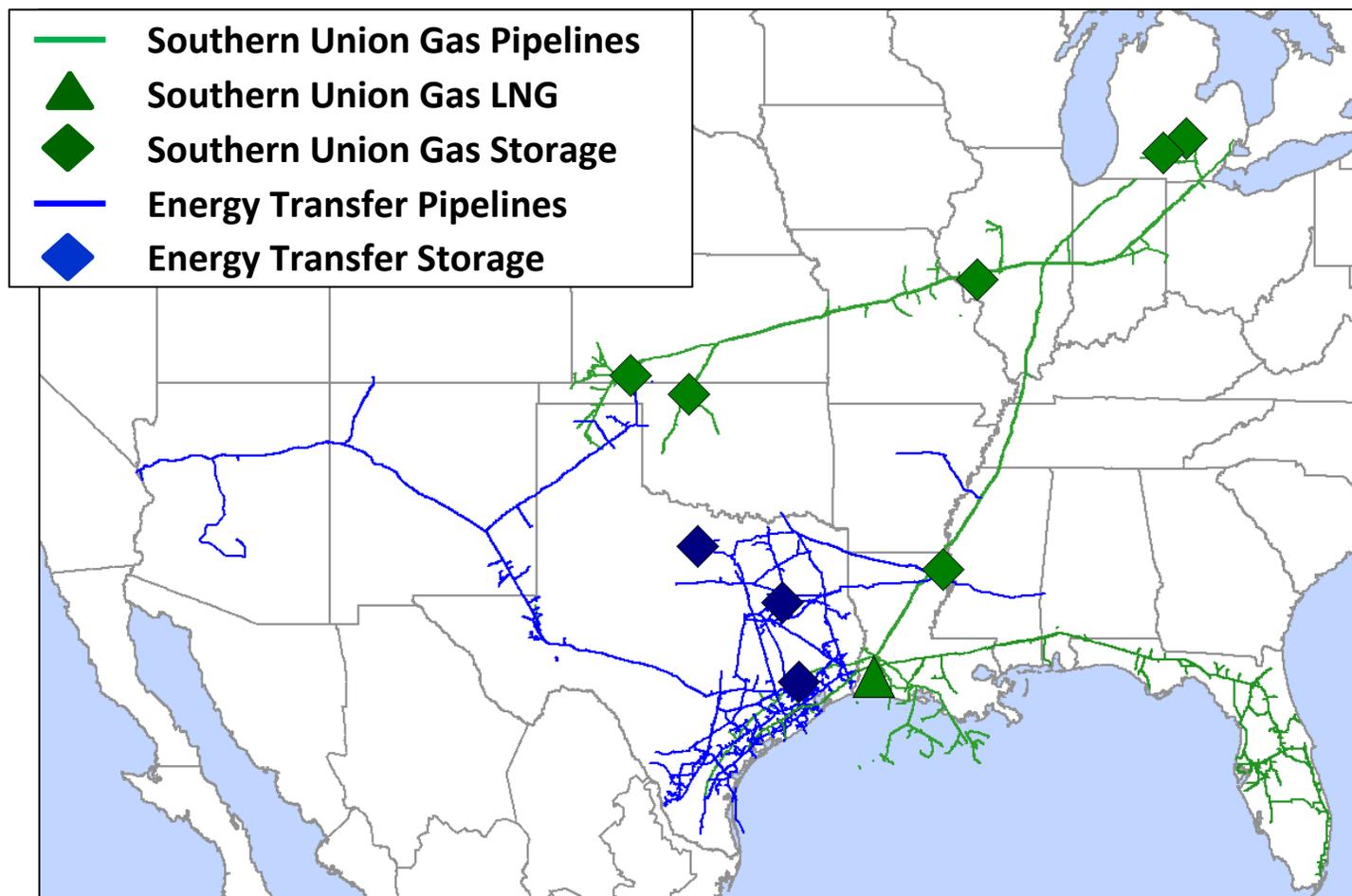
Regional Totals of Working Gas in Storage



Source: Derived from EIA data
April 2012 Mid-Atlantic Snapshot Report

Updated: April 17, 2012

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



Sources: Based on company press release and Ventyx Velocity Suite

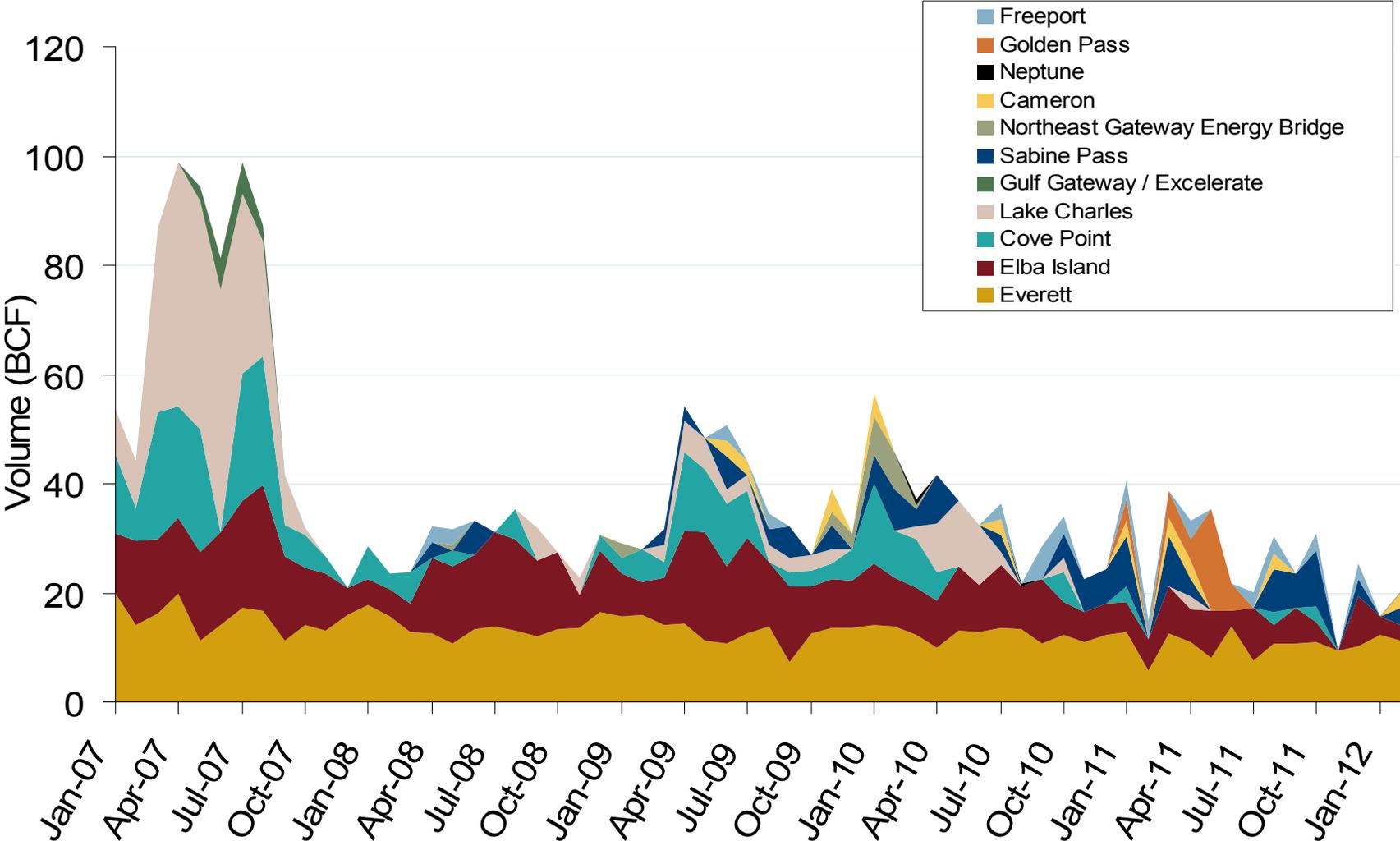
Updated March 2012

World LNG Estimated May 2012 Landed Prices



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

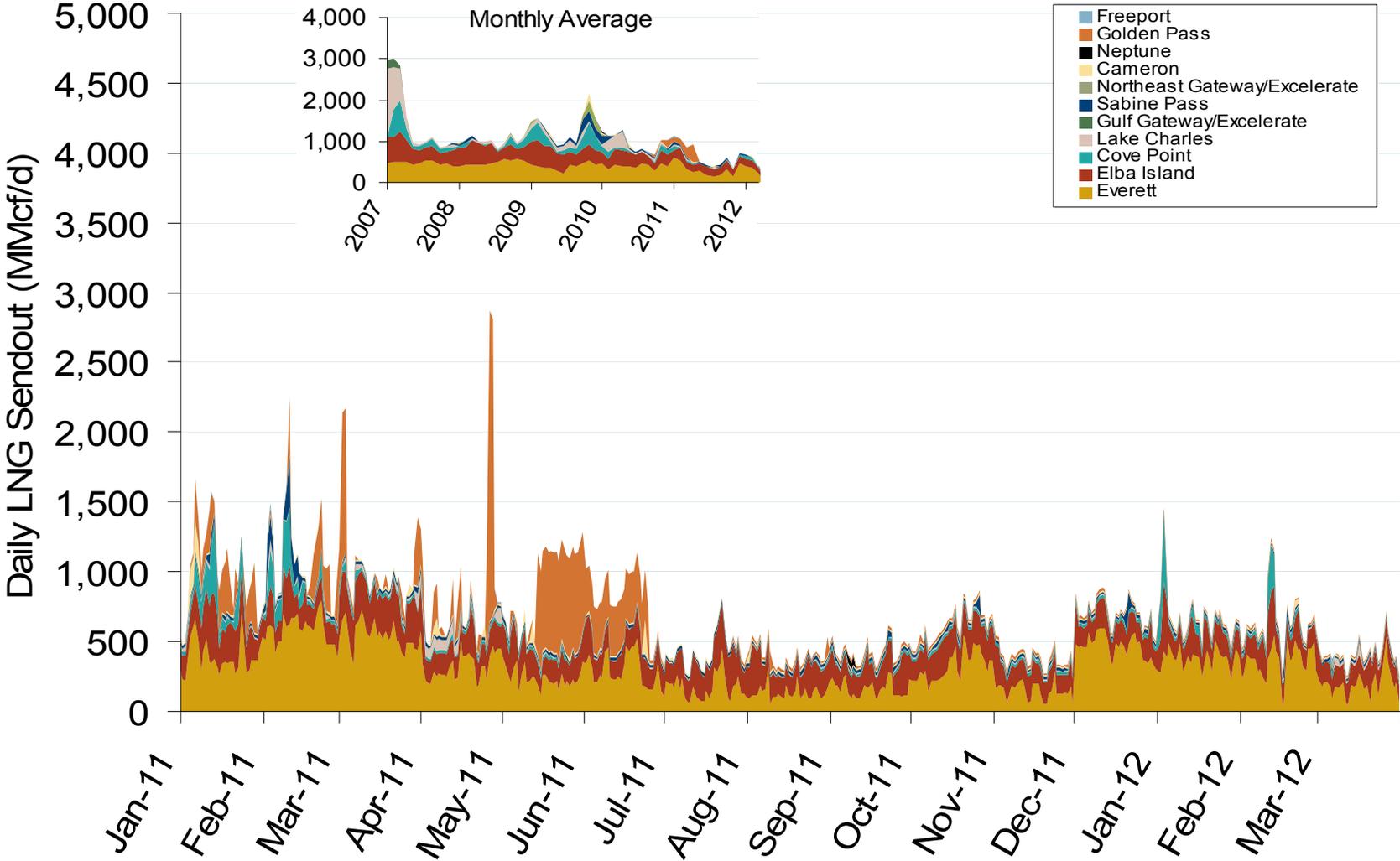
Monthly Gas Imports at Existing U.S. LNG Facilities



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

Updated: April 17, 2012

Daily Gas Sendout from Existing U.S. LNG Facilities



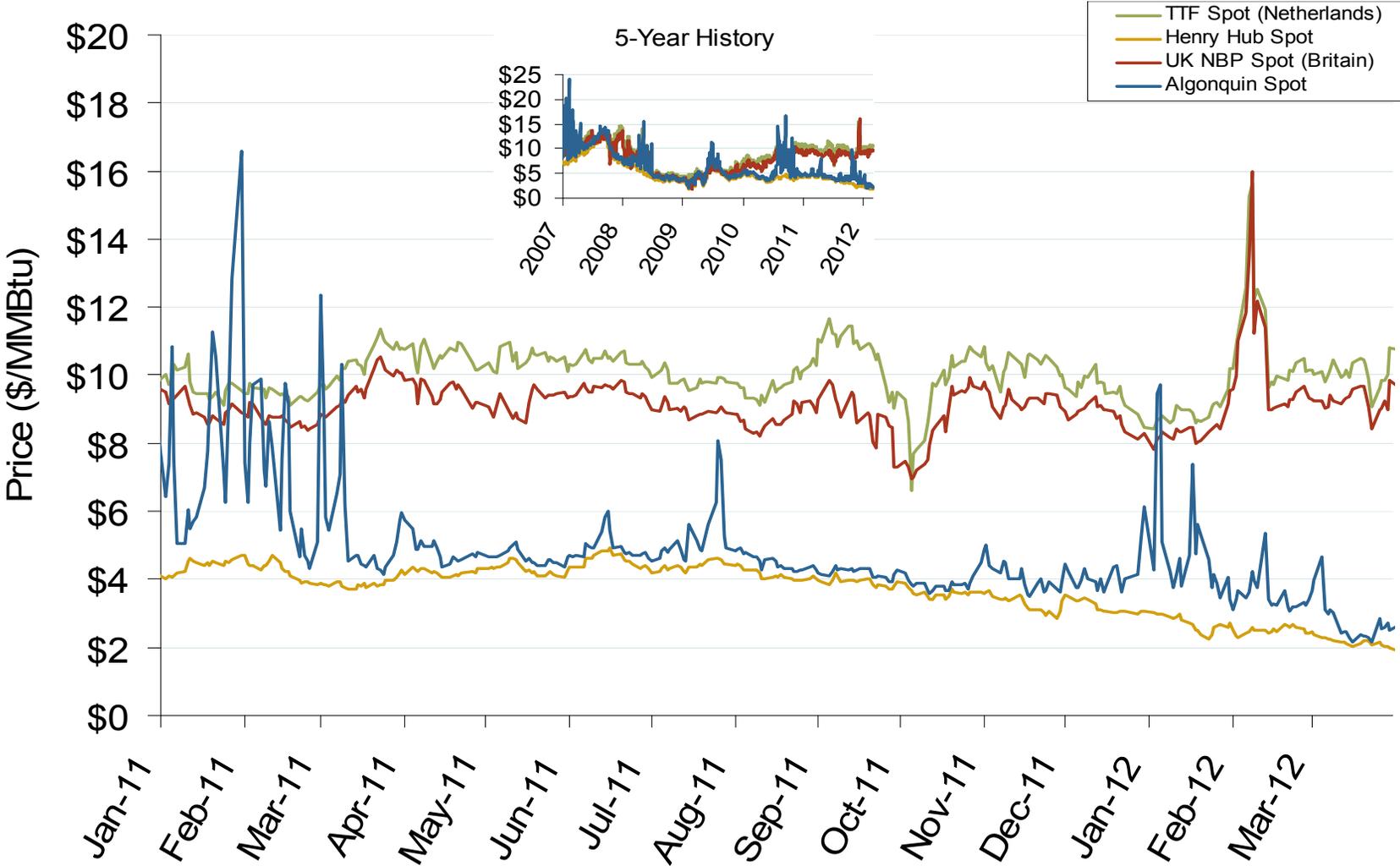
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from Bentek Energy data

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Updated: April 17, 2012

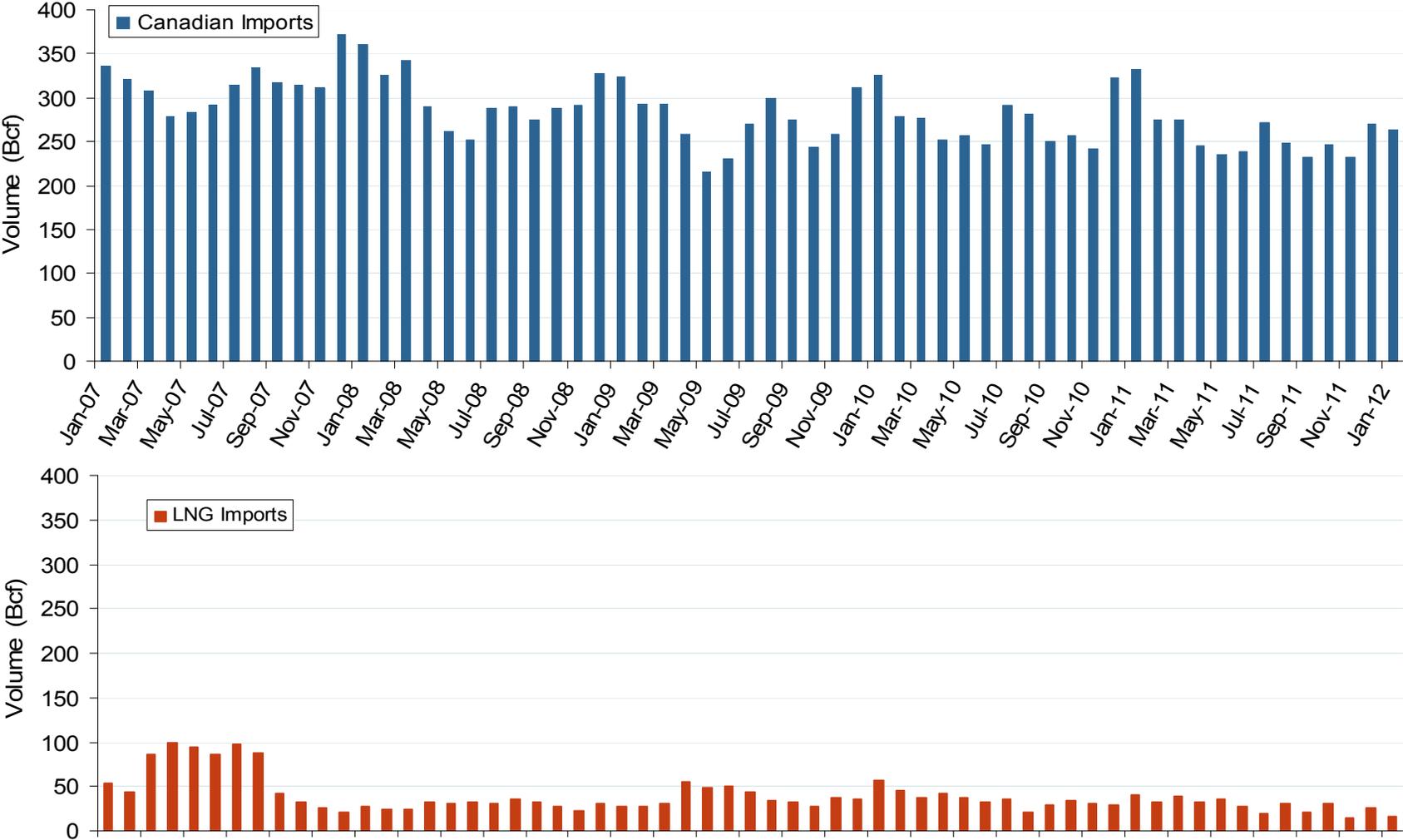
Atlantic Basin European and US Spot Natural Gas Prices



Source: Derived from *Bloomberg* and *ICE* data
April 2012 Mid-Atlantic Snapshot Report

Updated: April 18, 2012

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

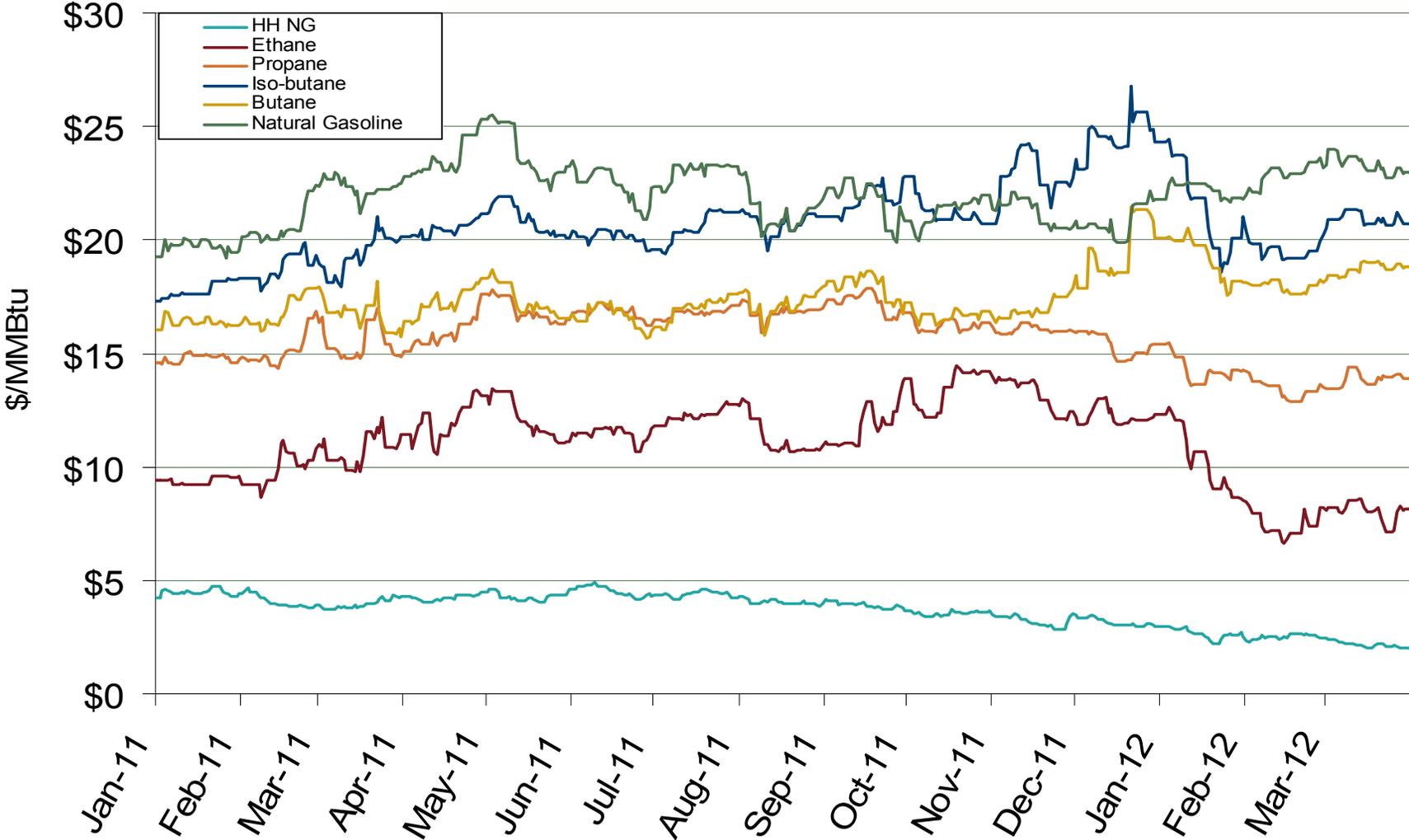


Source: EIA Natural Gas Monthly
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U.S. Natural Gas vs. Natural Gas Liquids (NGL) Prices



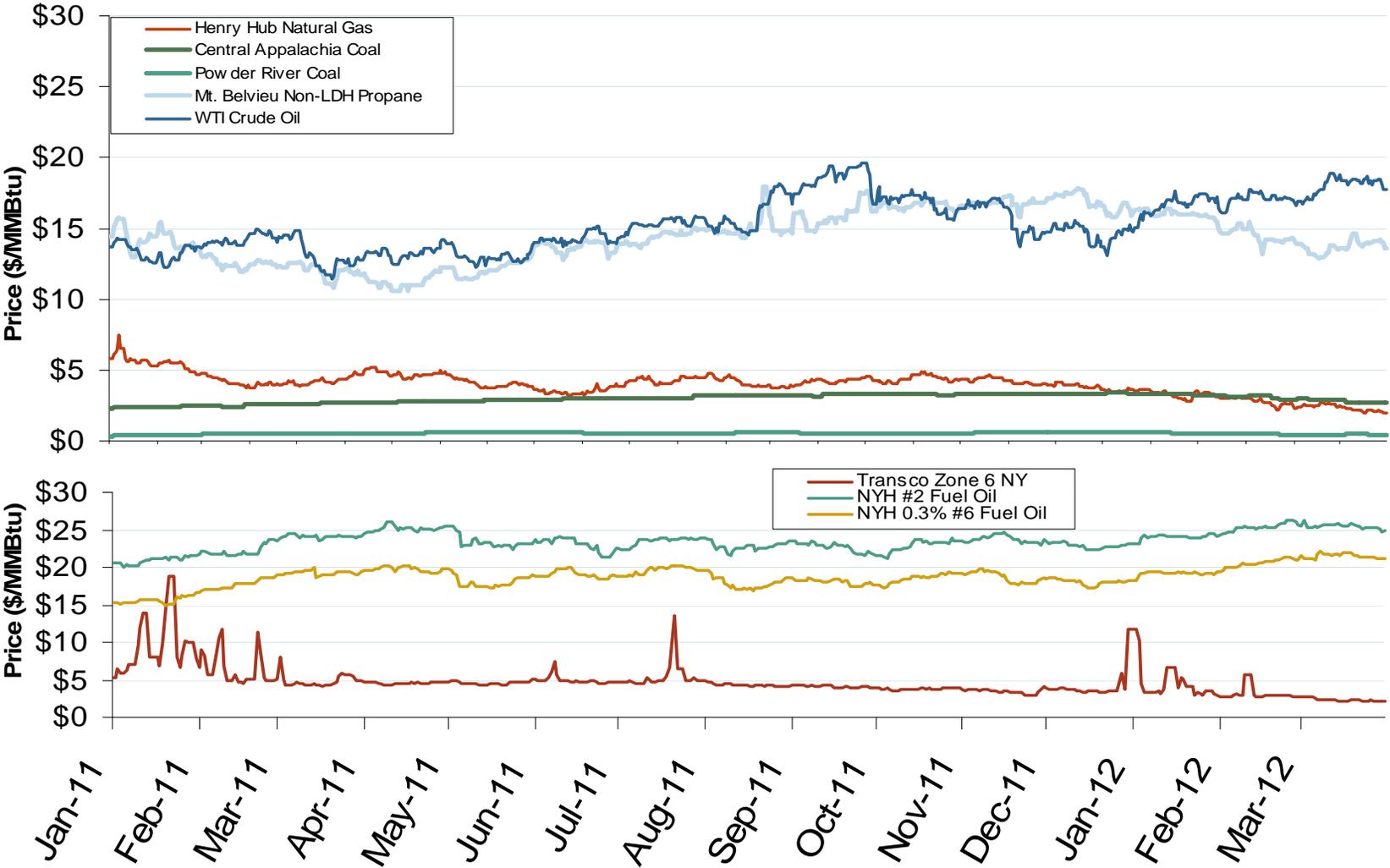
Source: Derived from *Bloomberg* Data
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Other Fuels Market: Fossil Fuel Prices

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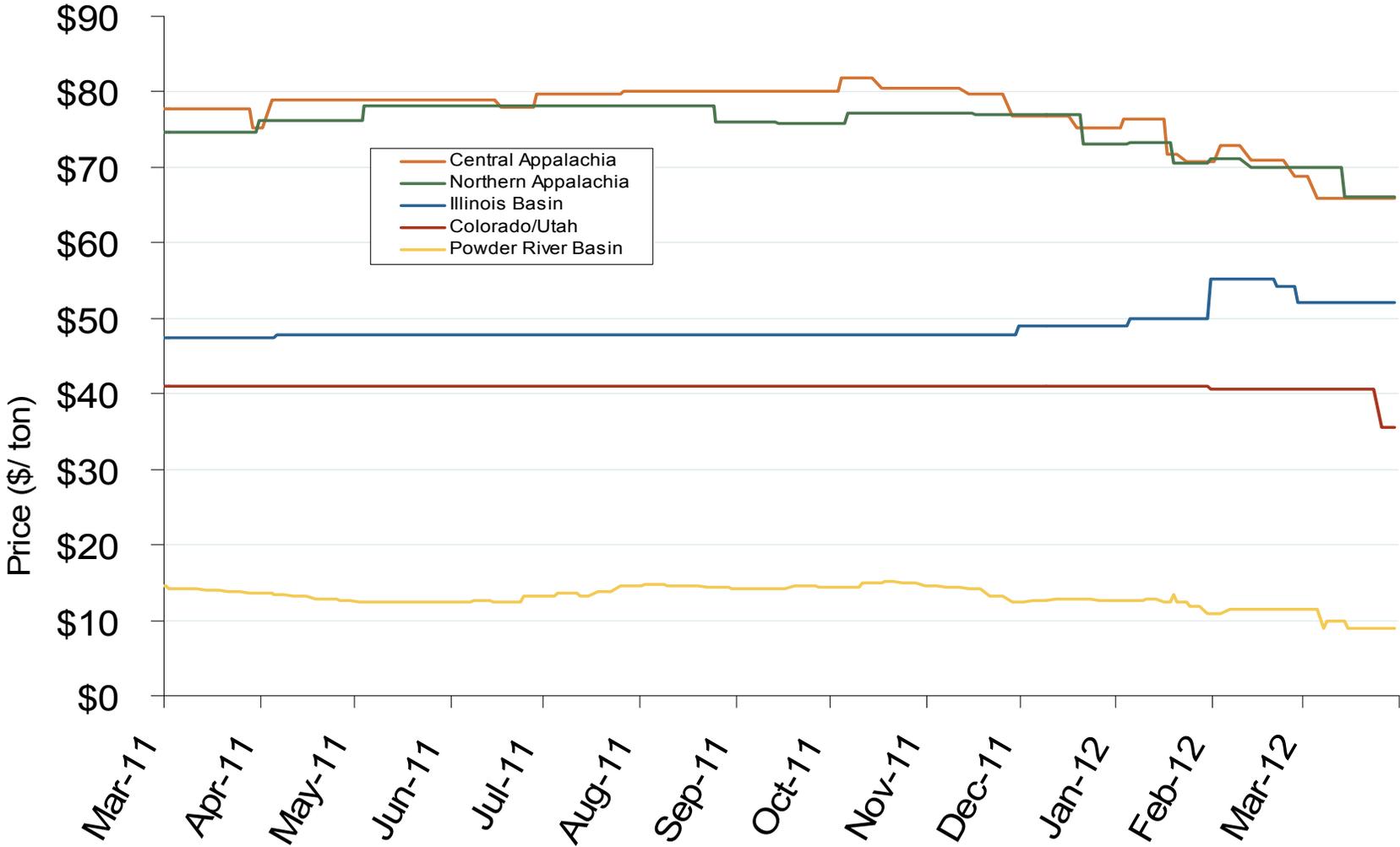
Oil, Coal, Natural Gas and Propane Daily Spot Prices



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



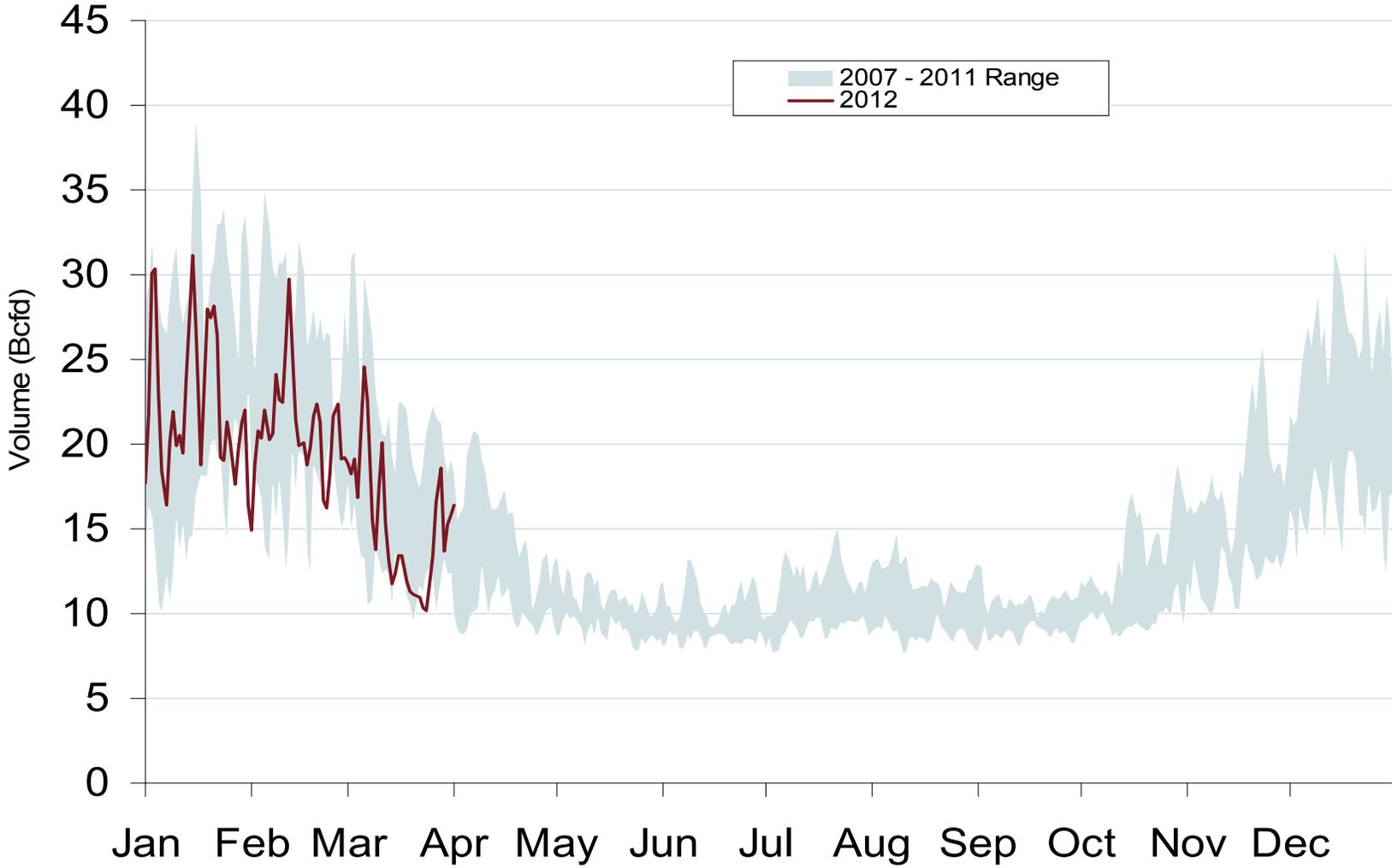
Notes: The Central Appalachian (CAPP) coal is priced at Big Sandy. All others are mine mouth prices. Prices do not include transportation costs to a plant, as those can vary widely by contract specifications. Prices exclude incremental cost of emissions allowances

Source: Derived from Bloomberg data

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Updated: April 18, 2012

Daily Northeast Natural Gas Demand All Sectors

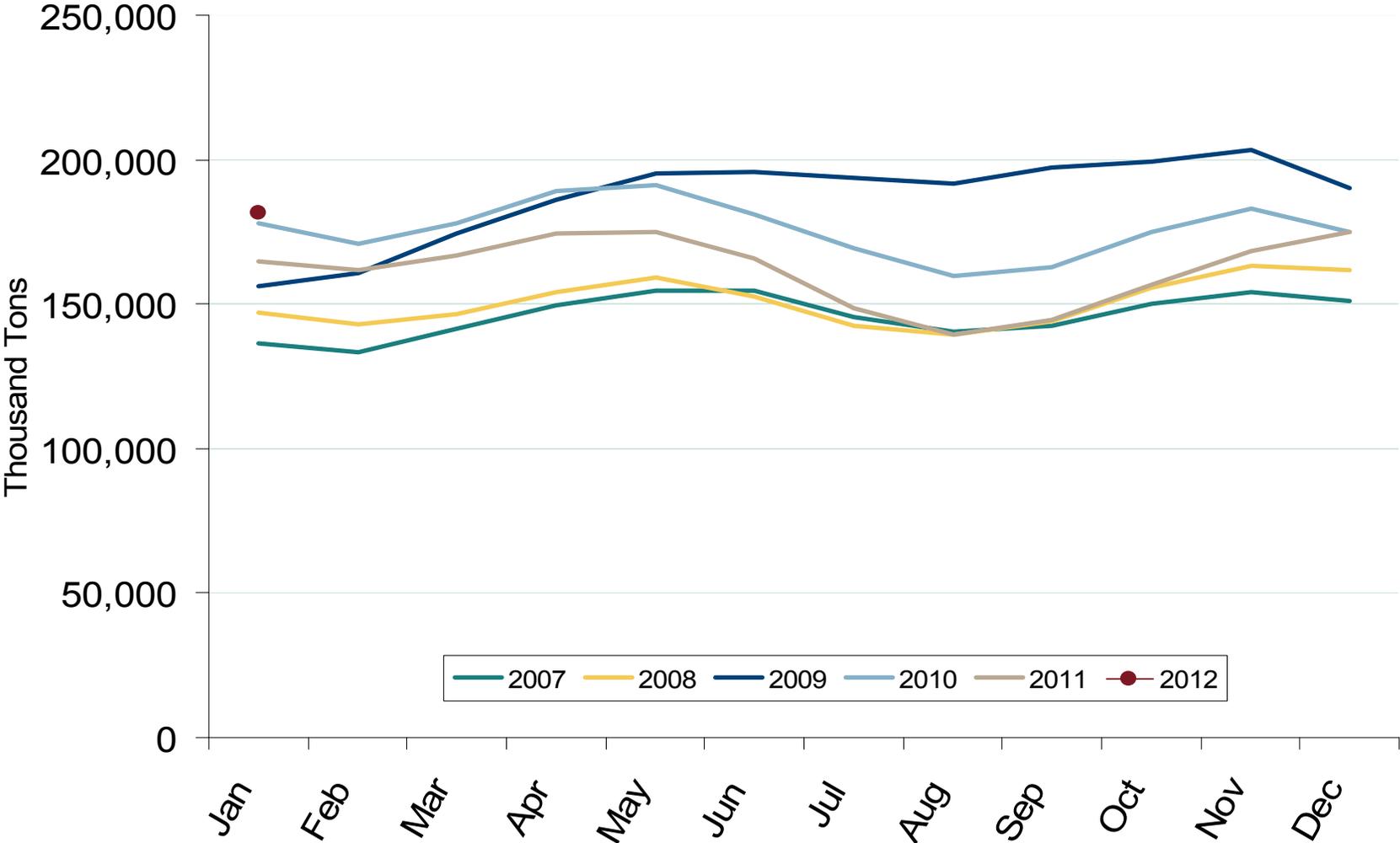


Source: Derived from *Bentek Energy* and Weekly NOAA data
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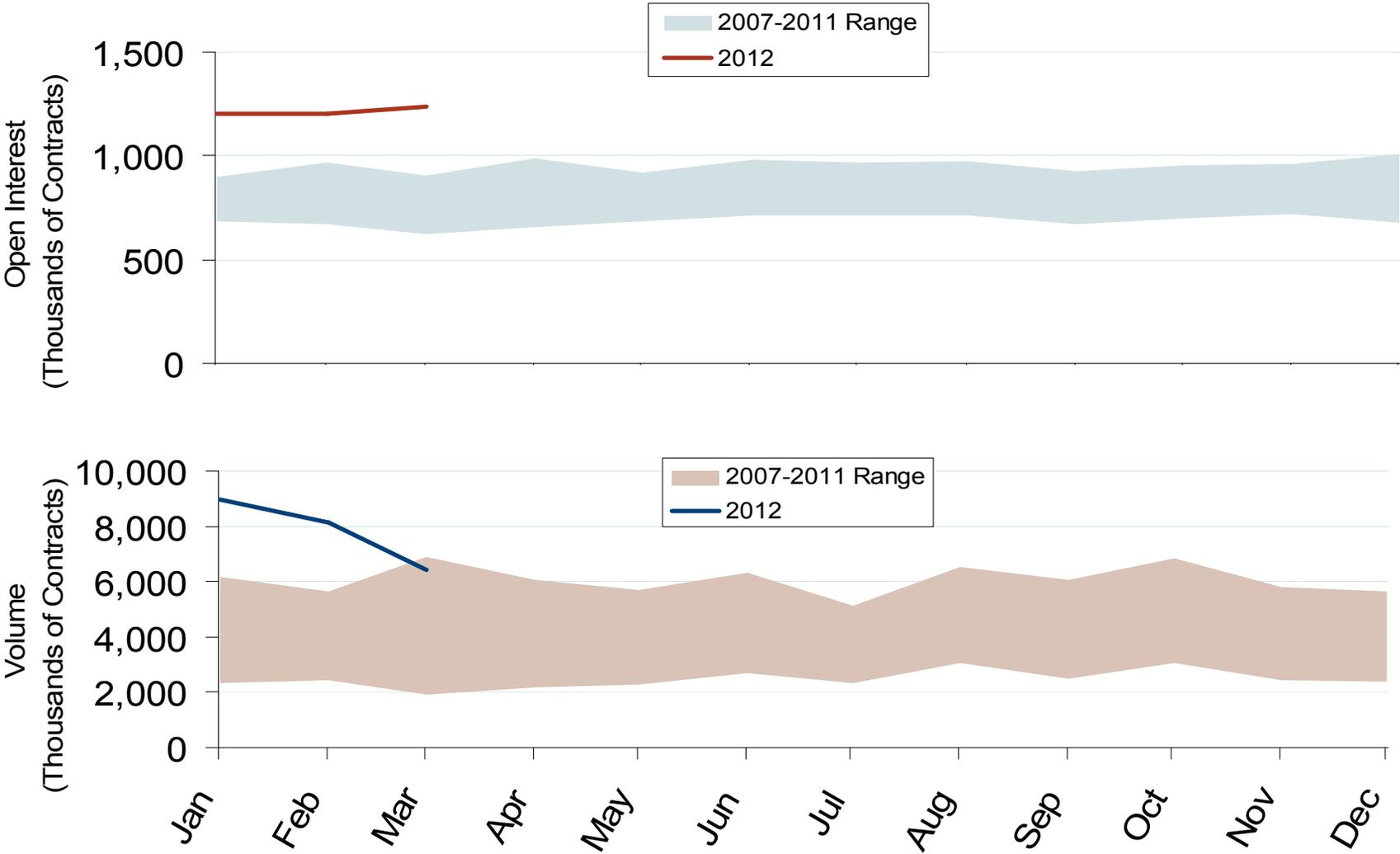
U.S. Coal Stockpiles at Electric Power Generating Facilities



Source: Derived from EIA data. Excludes Industrial and Commercial Plants
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Nymex NG Futures Month-End Open Interest and Monthly Volume

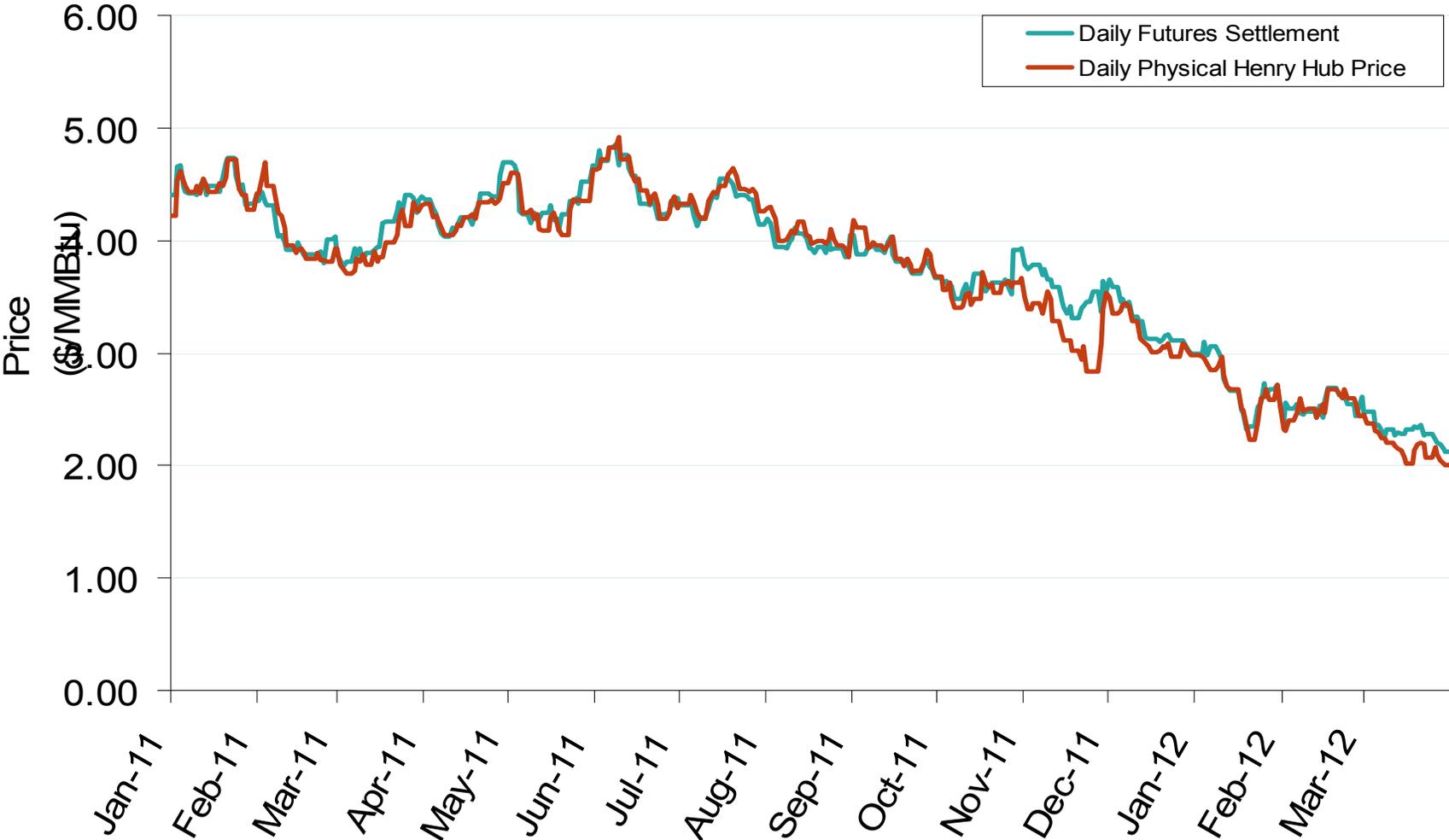


Source: Derived from Nymex data
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Daily Physical Index Price & Daily Futures Settlement Price

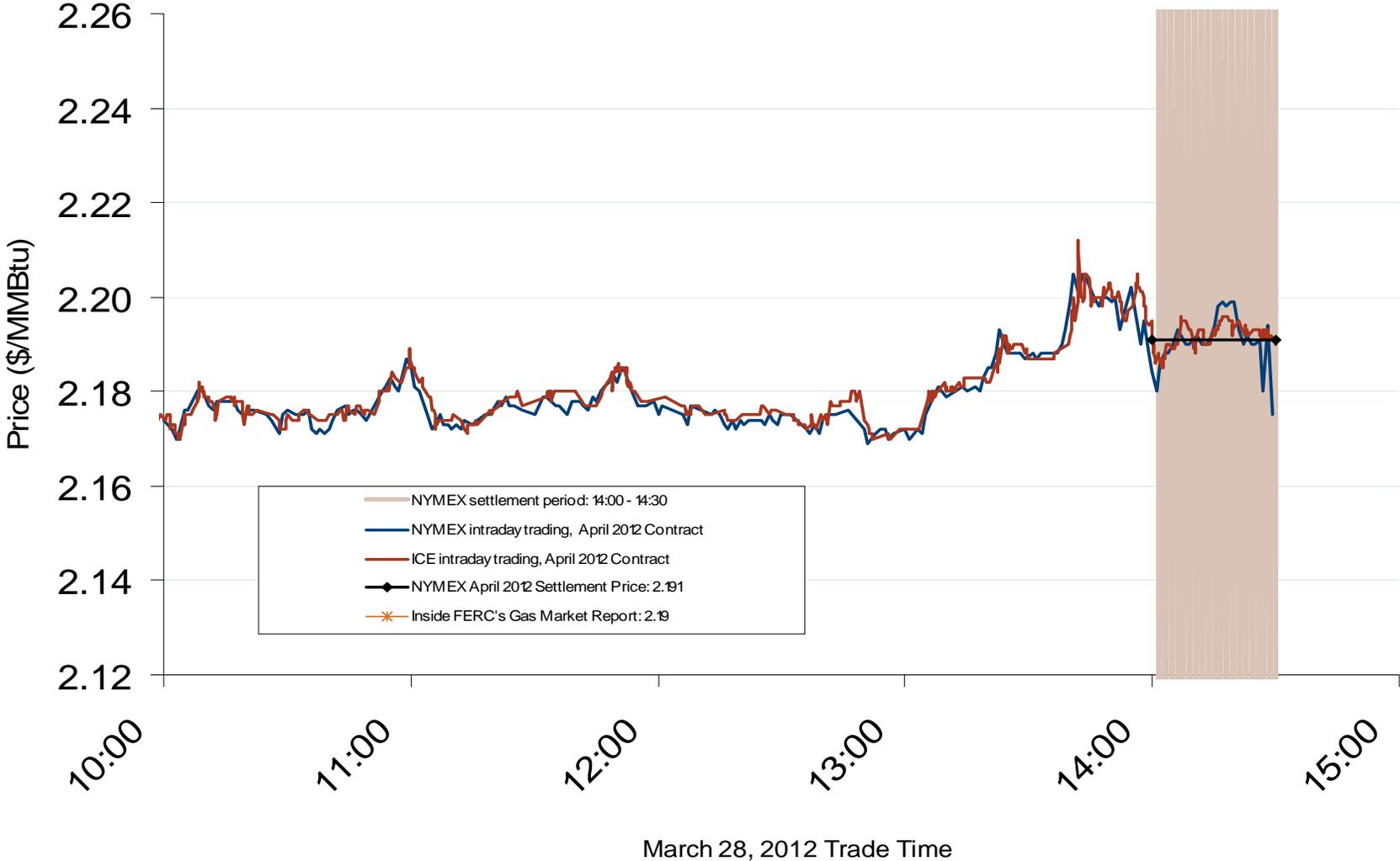


Source: Derived from *Bloomberg* data
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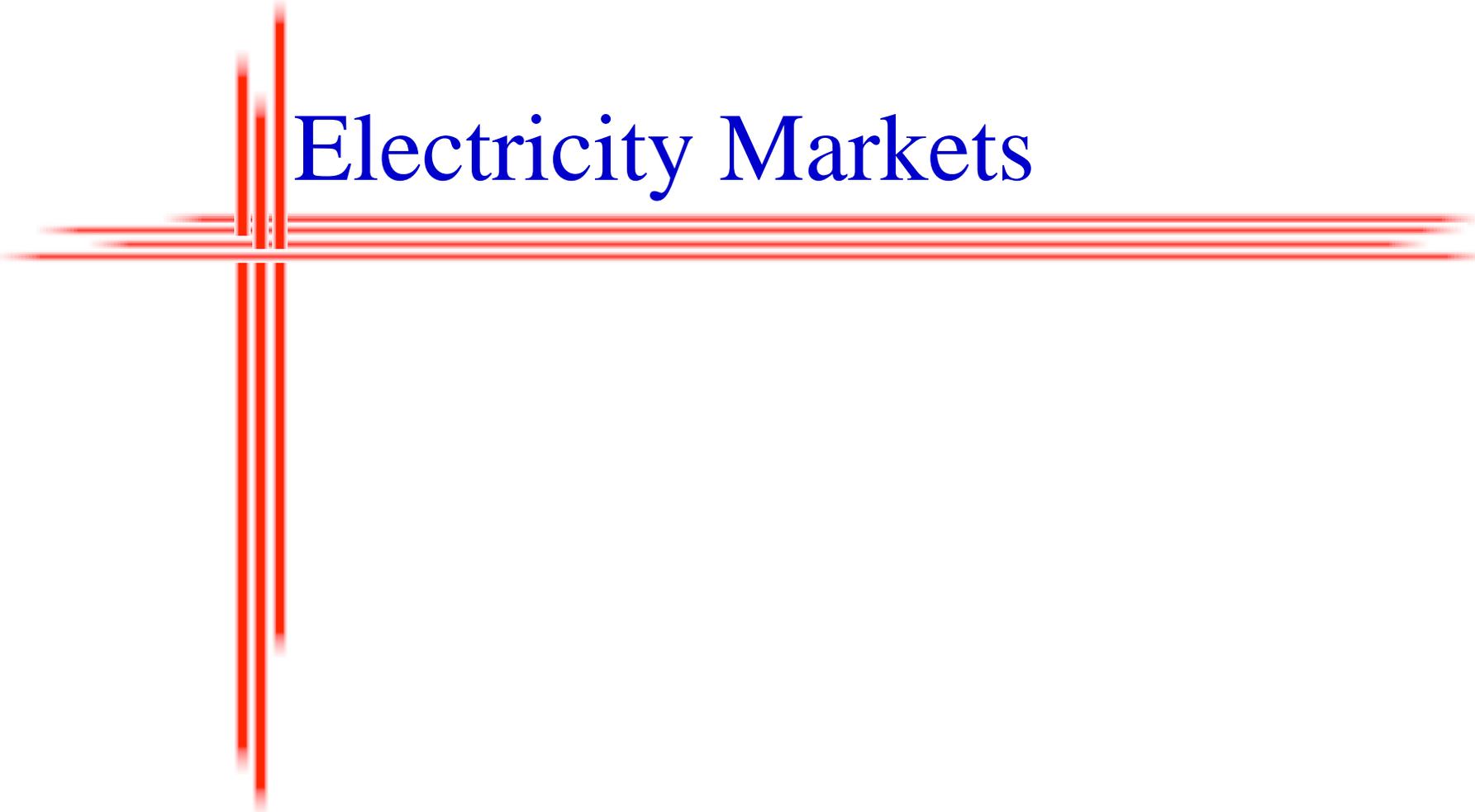
Nymex and ICE Contract Final Settlement - April 2012



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)

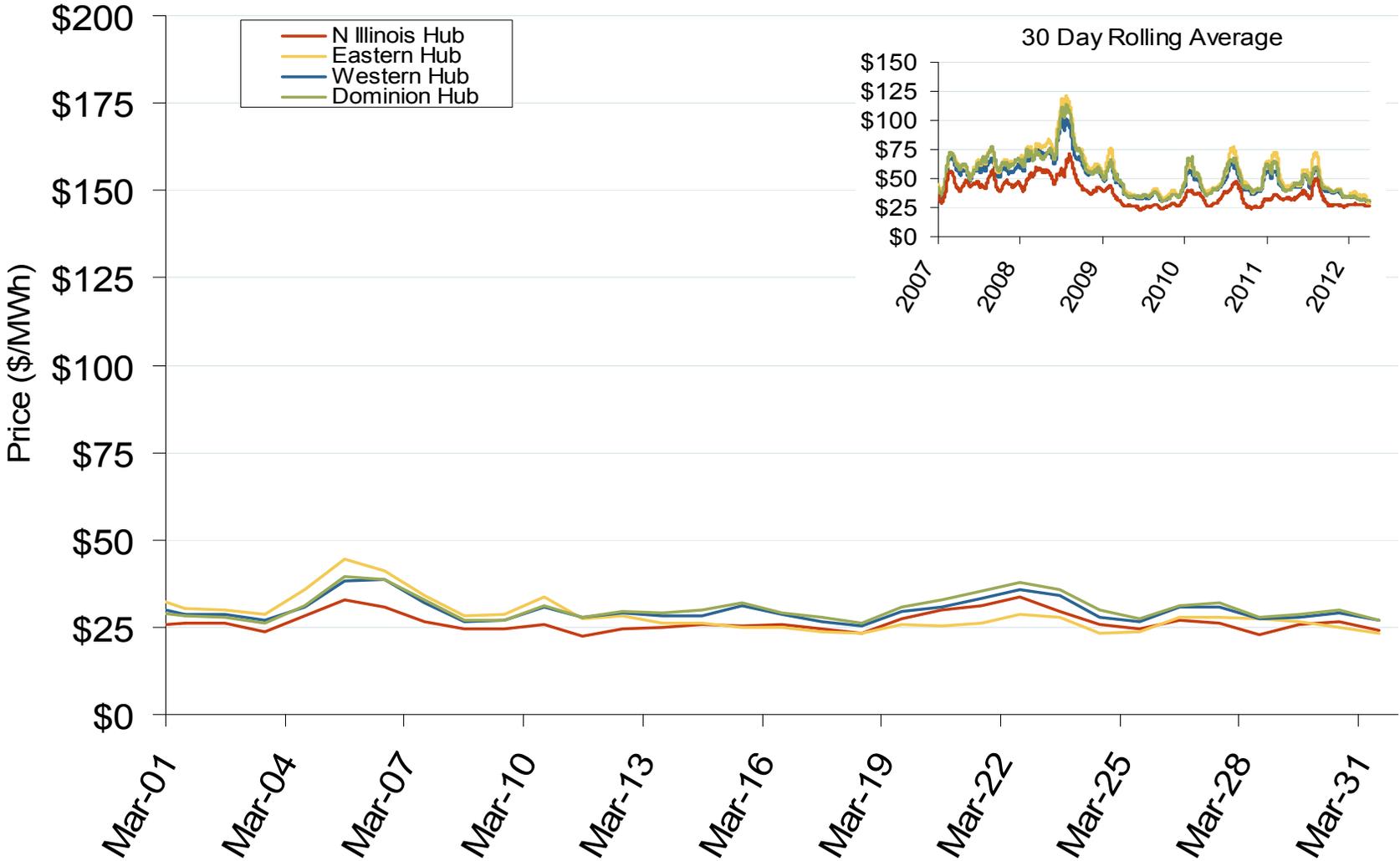
Source: Derived from *Nymex* and *ICE* data
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Updated: April 19, 2012



Electricity Markets

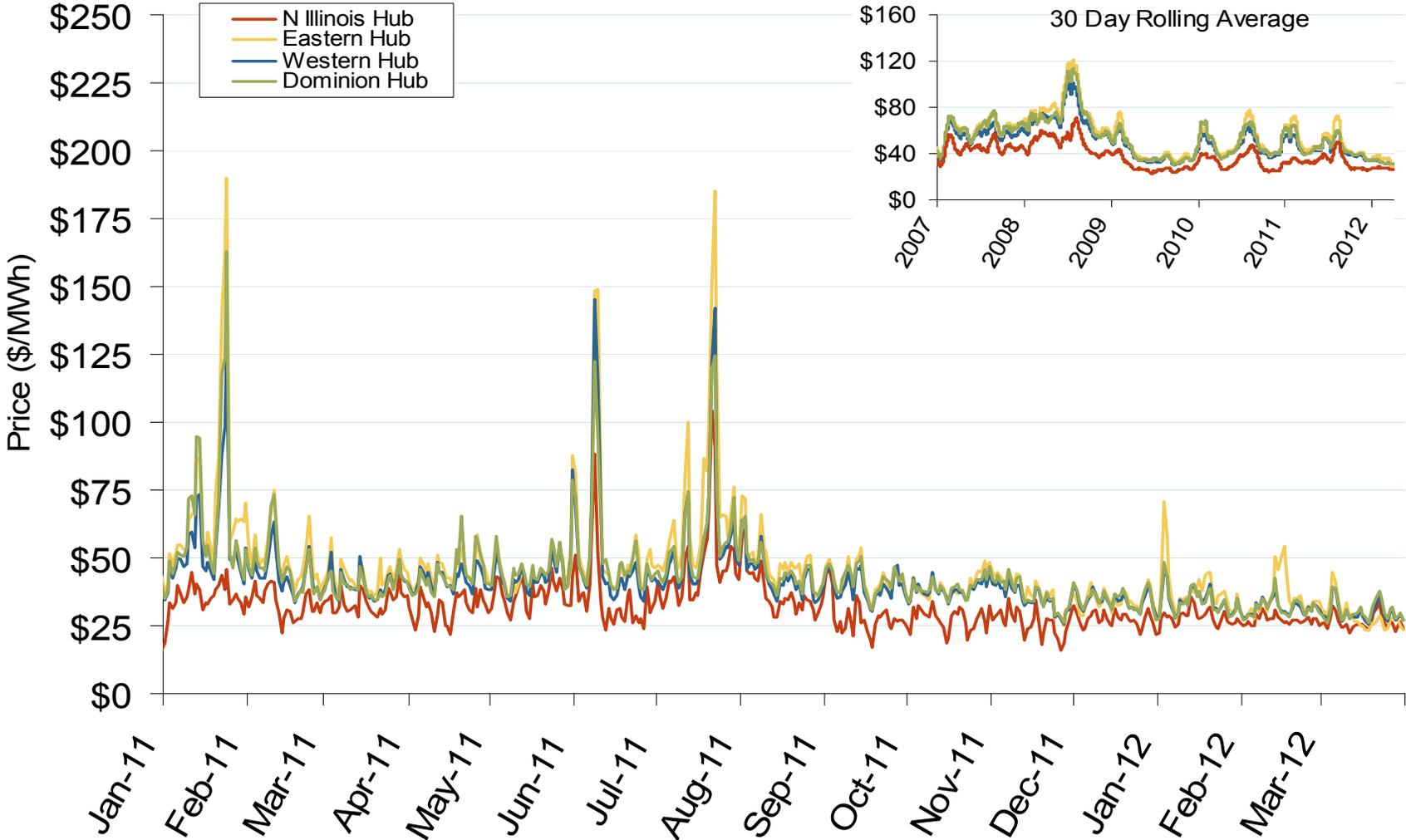
Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from *Bloomberg* data
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Updated: April 17, 2012

Daily Average of PJM Day-Ahead Prices - All Hours

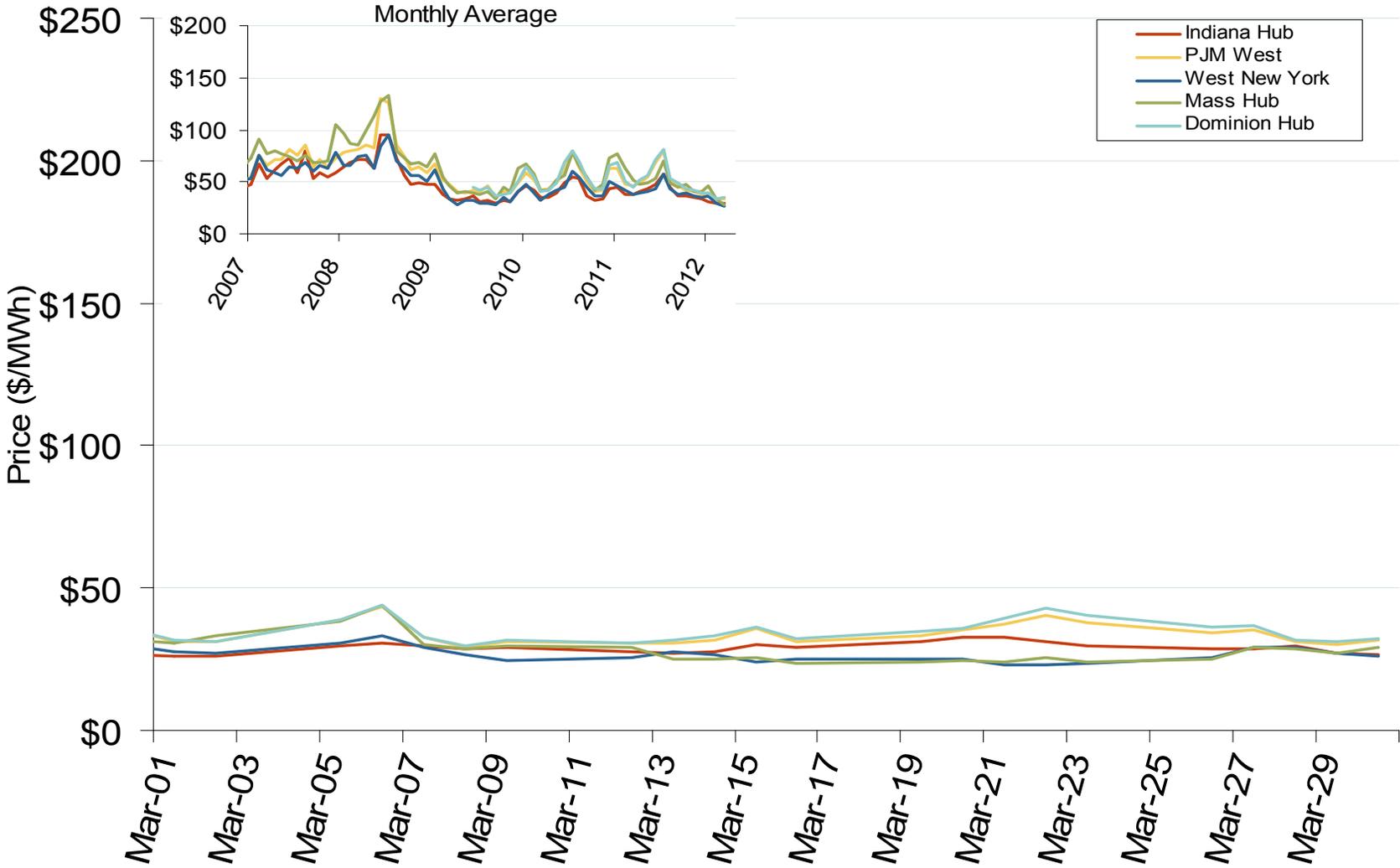


Source: Derived from Bloomberg data
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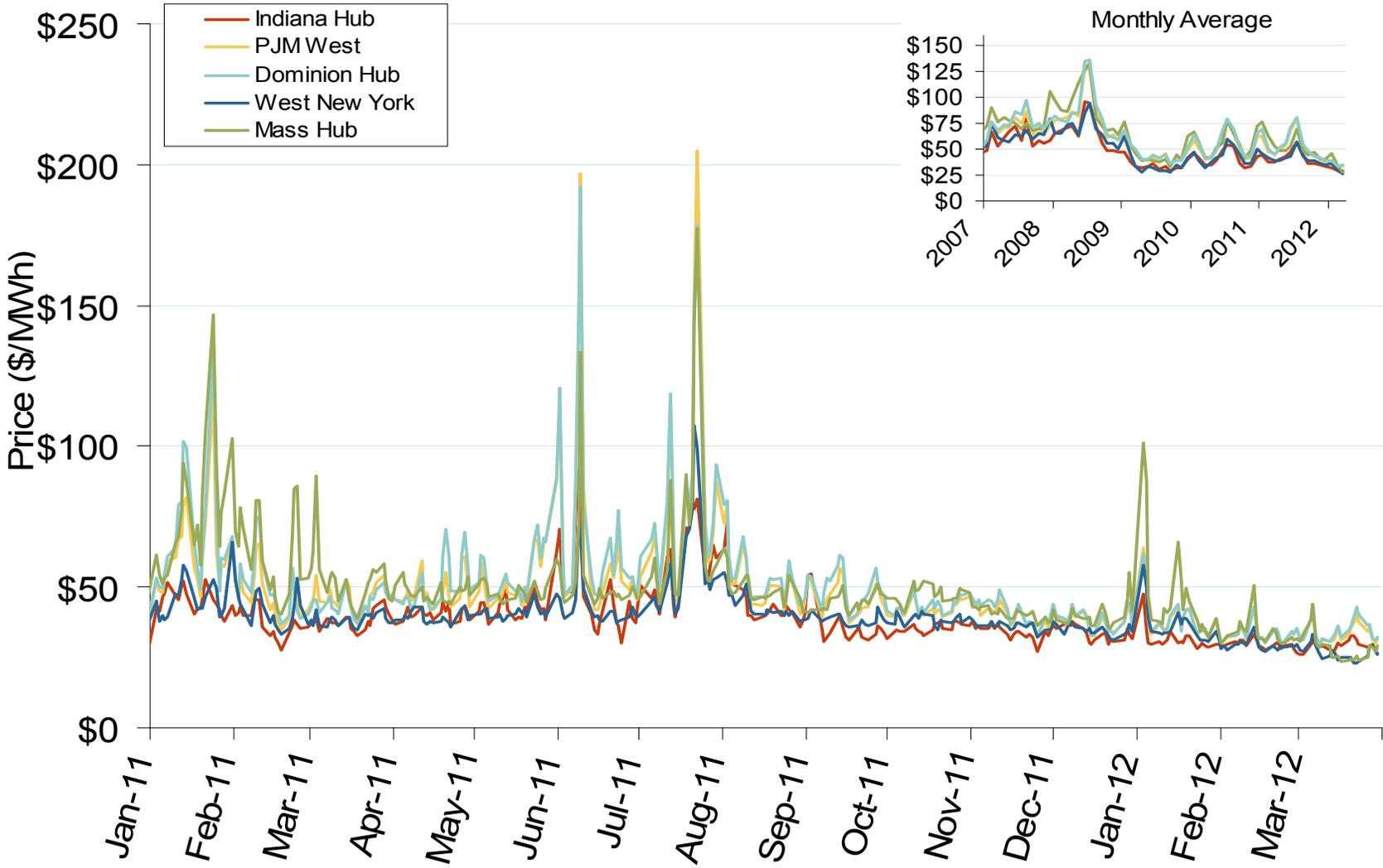
Eastern Daily Index Day-Ahead On-Peak Prices



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

Updated: April 06, 2012

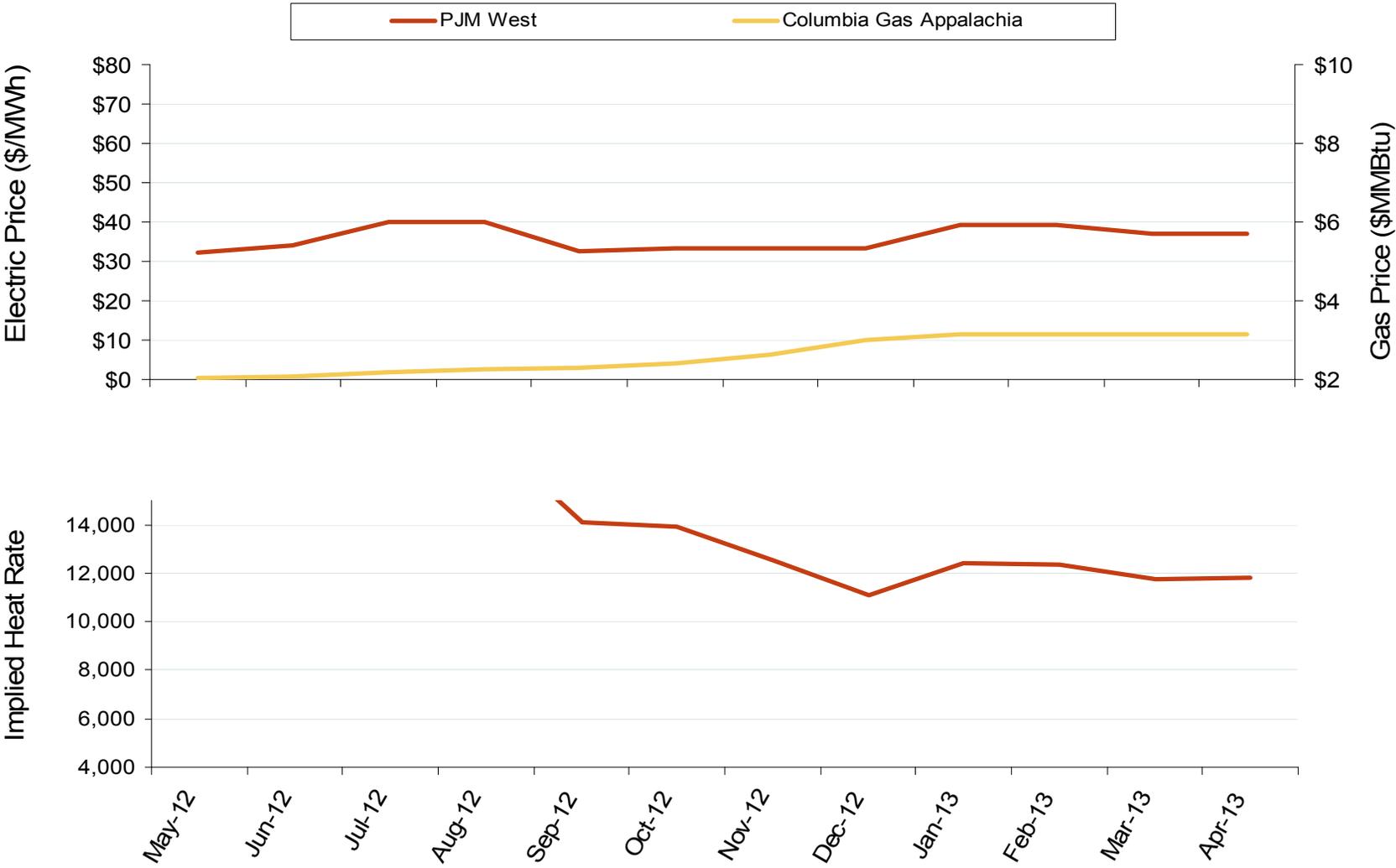
Eastern Daily Index Day-Ahead On-Peak Prices



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

Updated: April 06, 2012

PJM West Electric Forward Price Curves and Implied Heat Rates

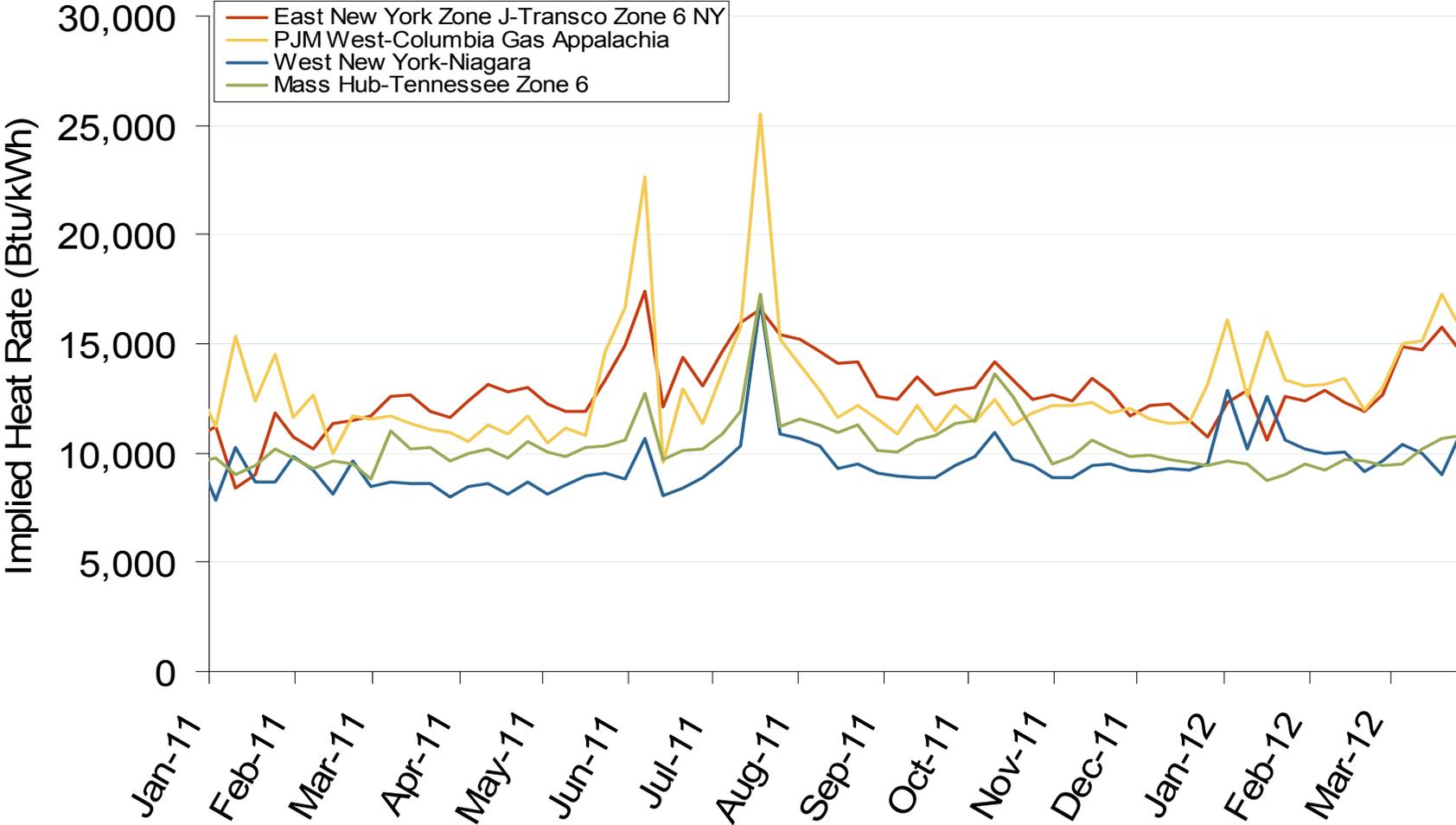


Source: Derived from Nymex data
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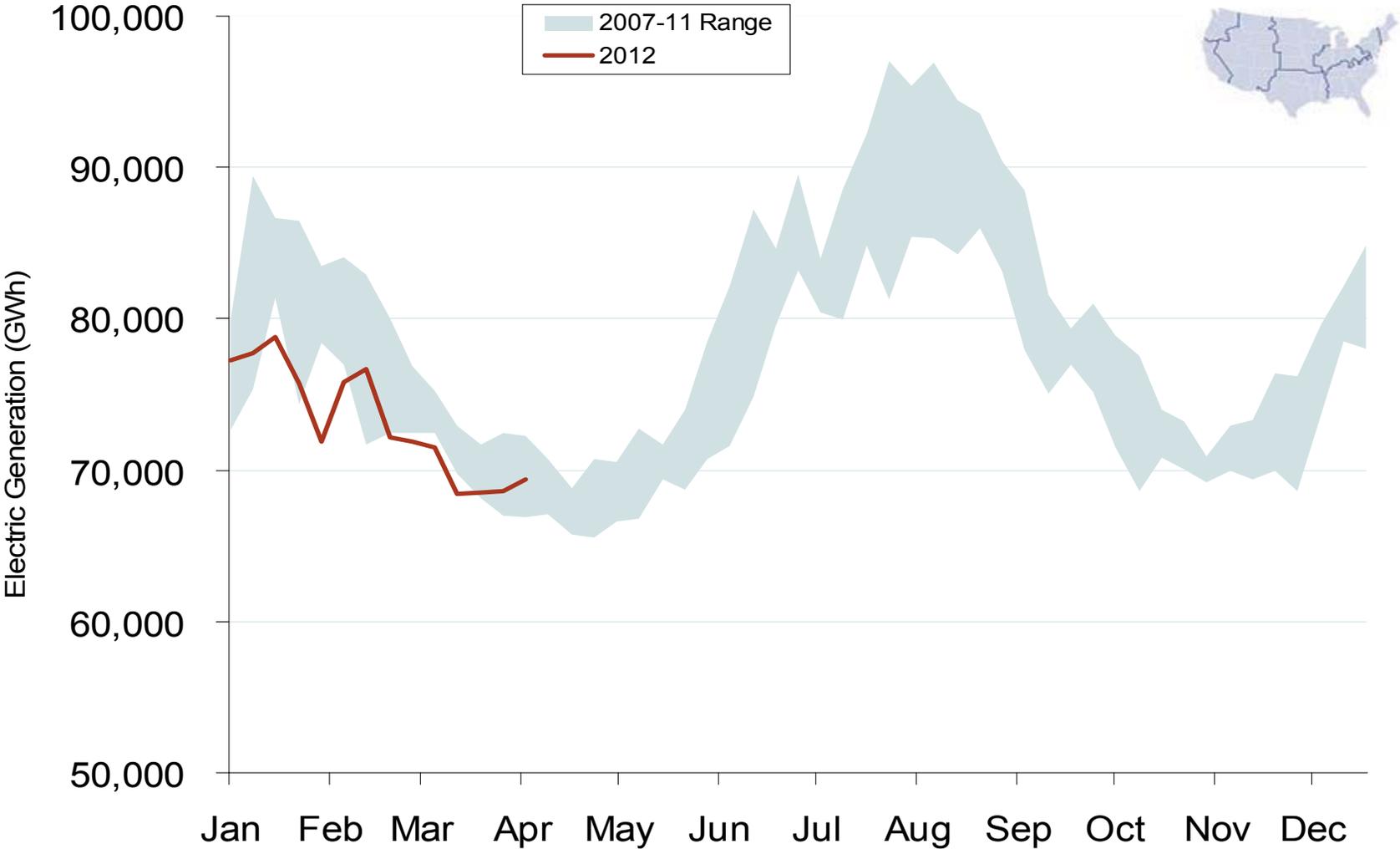
Implied Heat Rates at Eastern Trading Points - Weekly Avgs.



Source: Derived from Platts on-peak electric and natural gas price data
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Updated: April 06, 2012

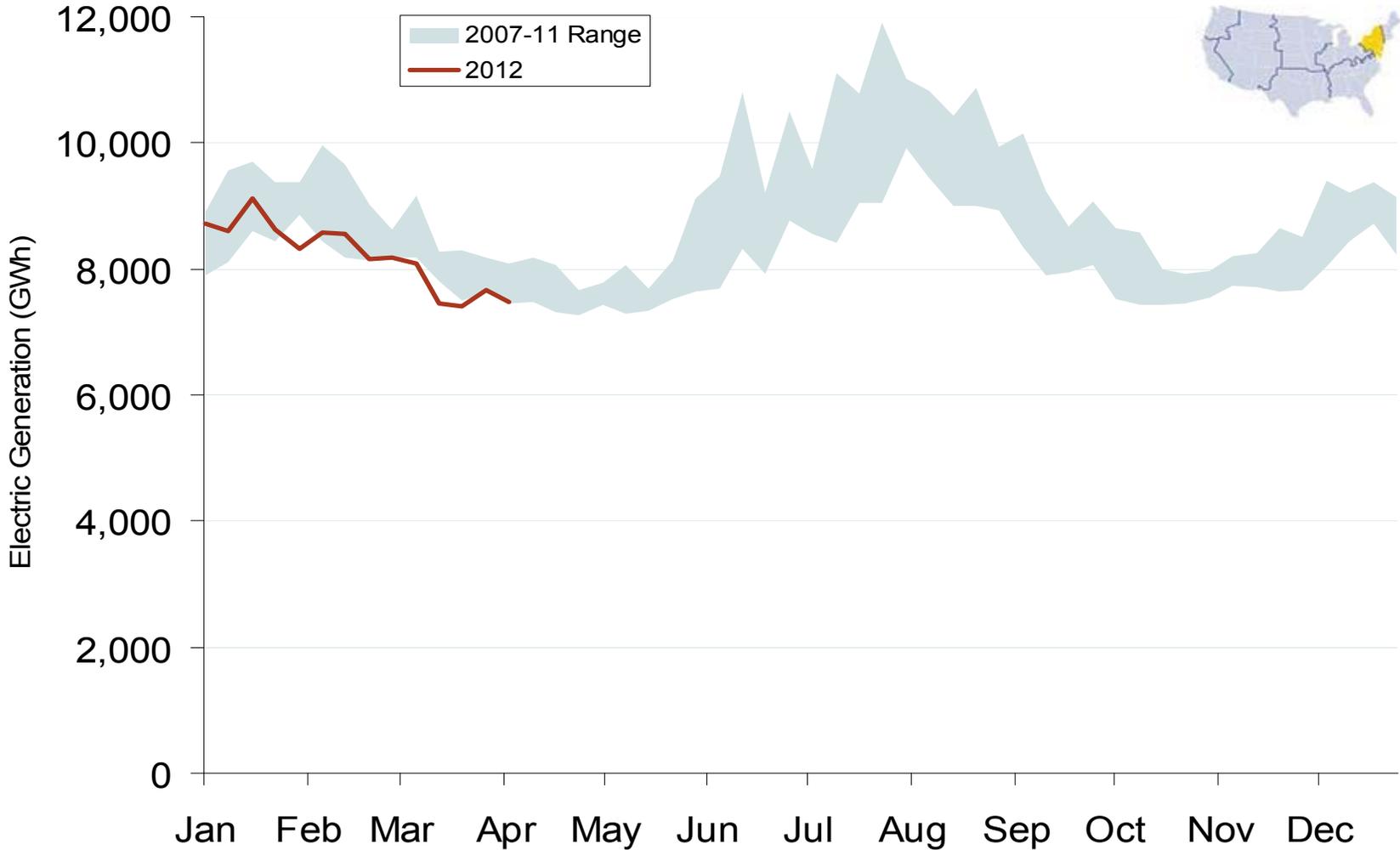
Weekly U.S. Electric Generation Output



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

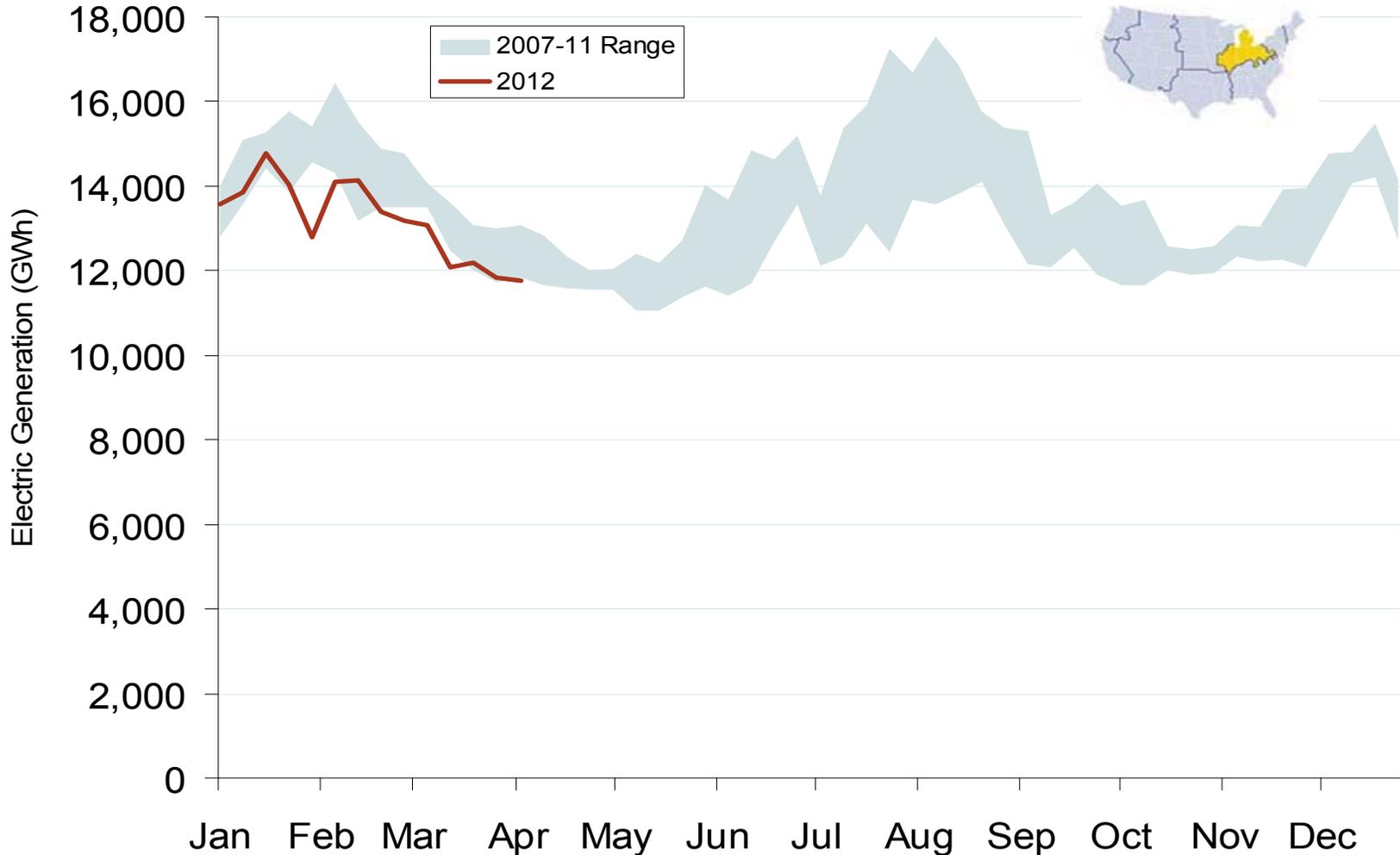
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Weekly Generation Output - Mid Atlantic



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Weekly Generation Output - Central Industrial Region



New Grid-connected PV Capacity Doubles Again in 2011

