

OE ENERGY MARKET SNAPSHOT

Southeast States Version – March 2012 Data

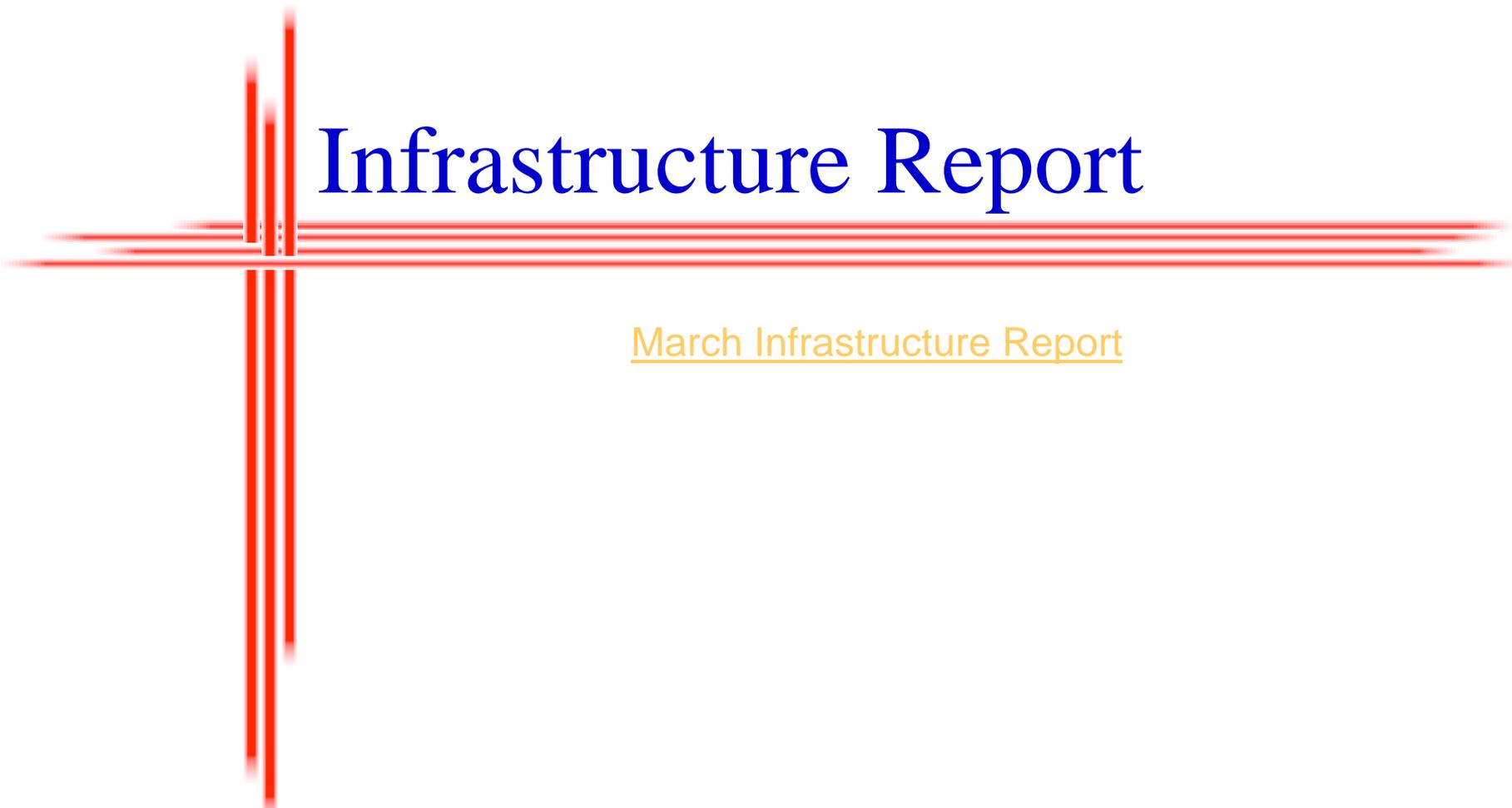
Office of Enforcement
Federal Energy Regulatory Commission
April 2012



2011 State of the Markets

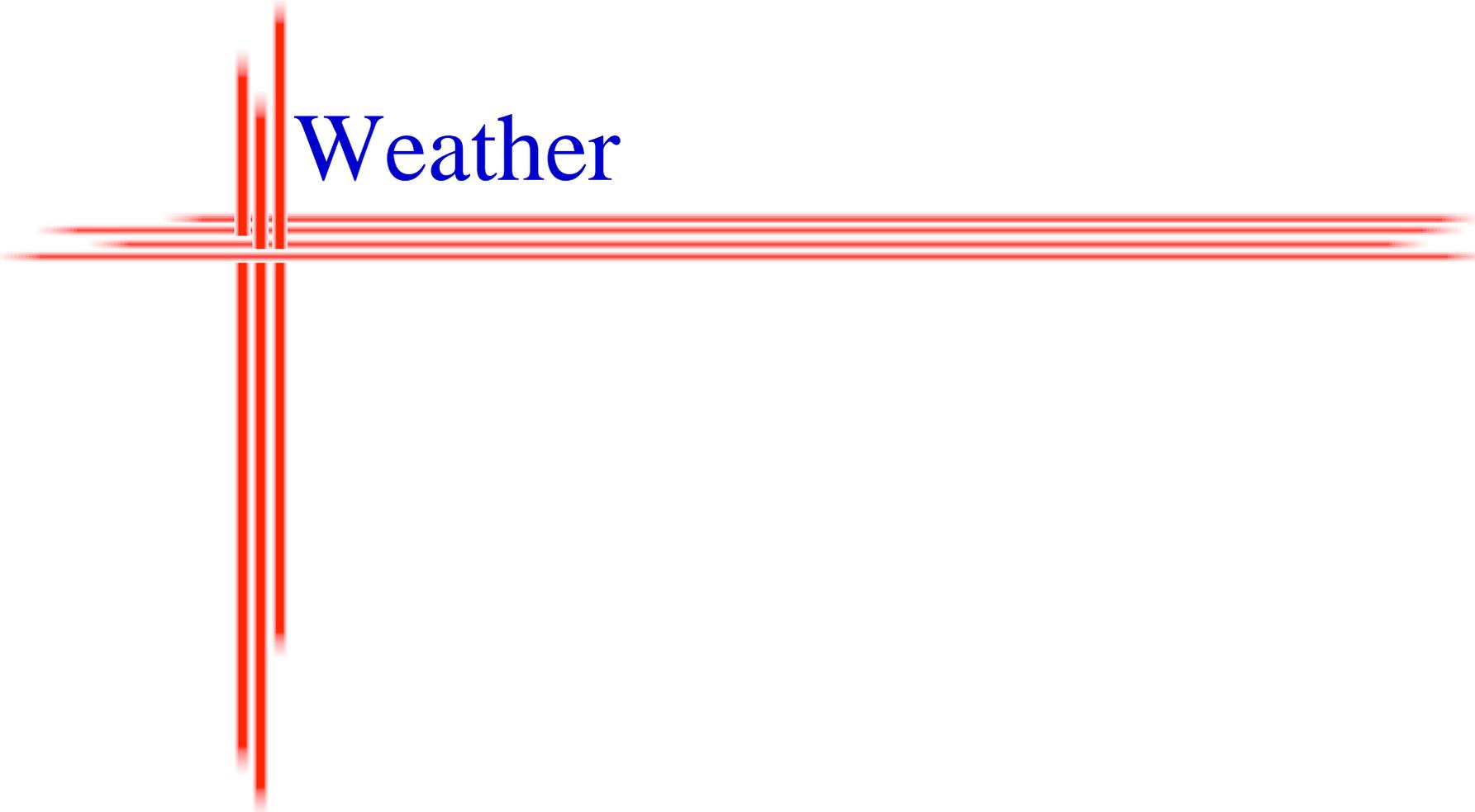
Item No: A-3
April 19, 2012

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



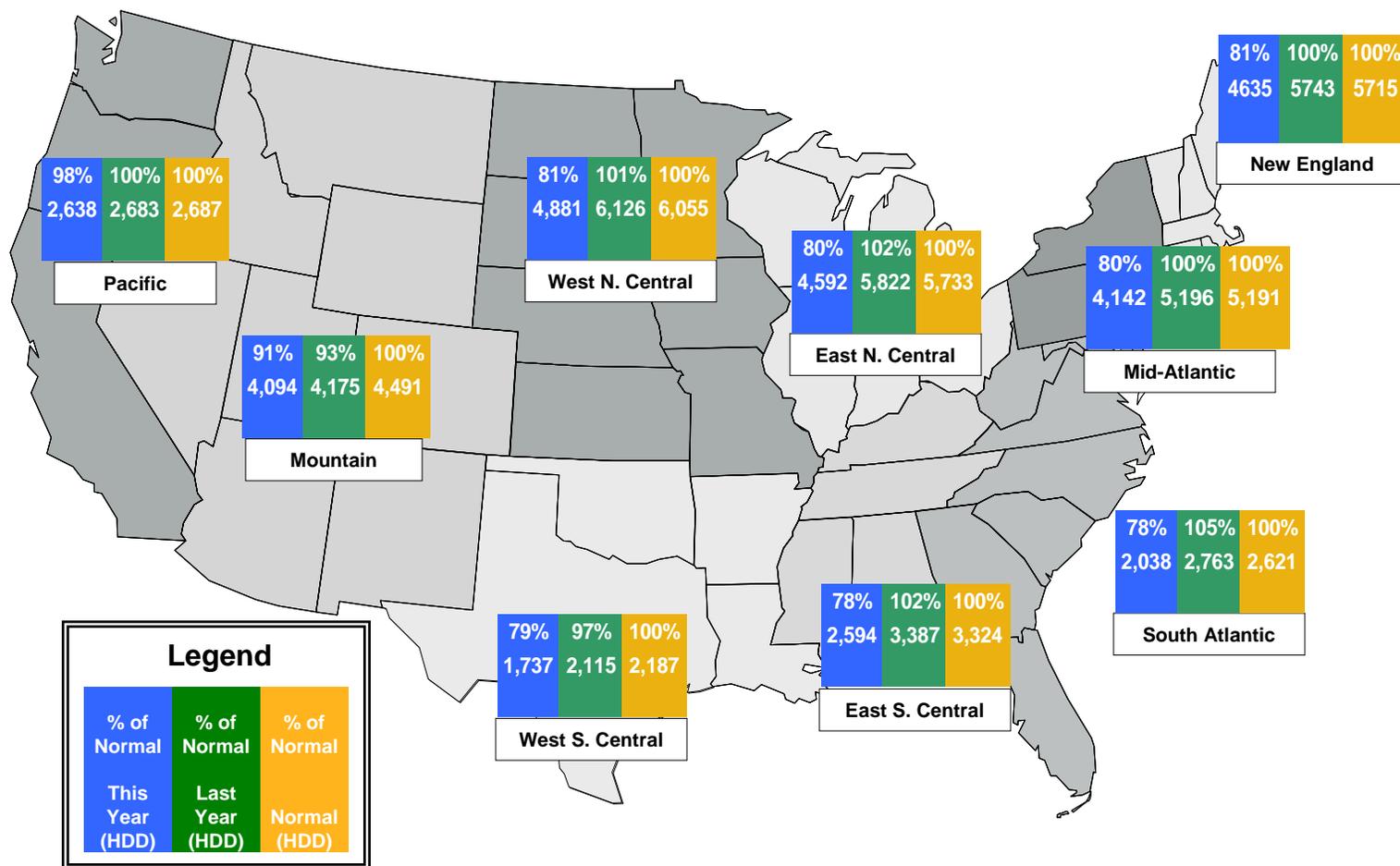
Infrastructure Report

March Infrastructure Report



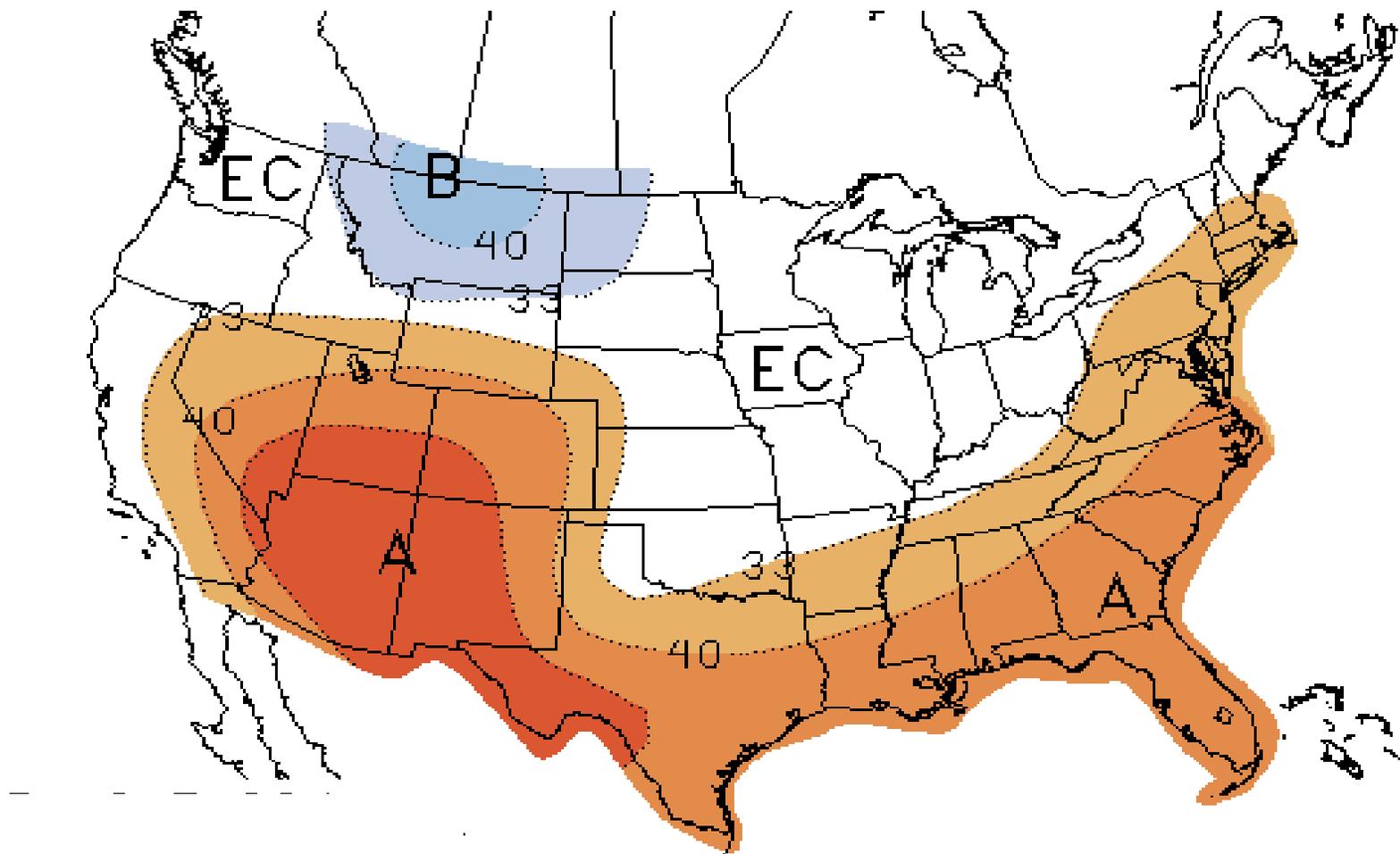
Weather

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.

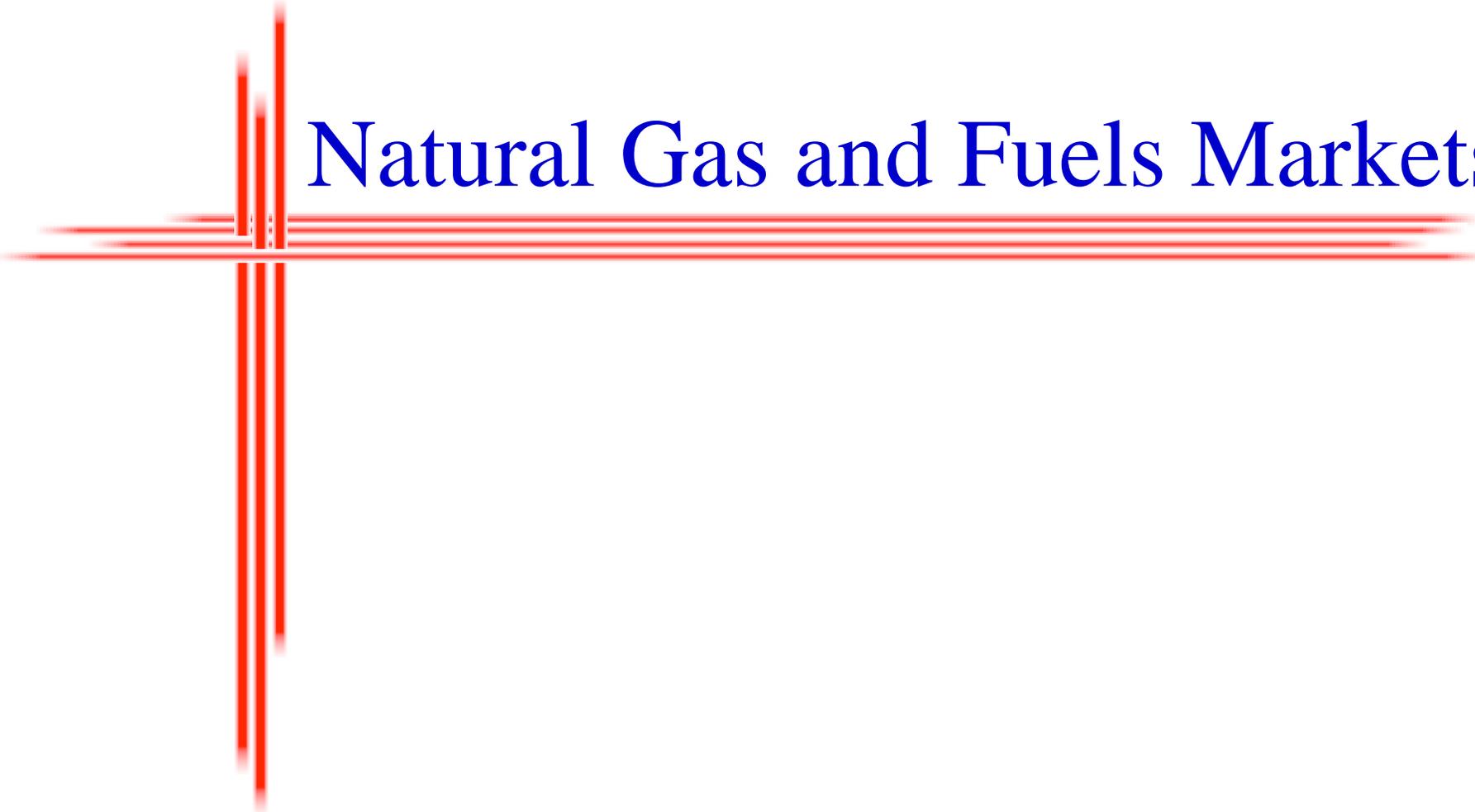
NOAA's 3 Month Temperature Forecast Made April 19, 2012, Valid for May 2012 – July 2012



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.

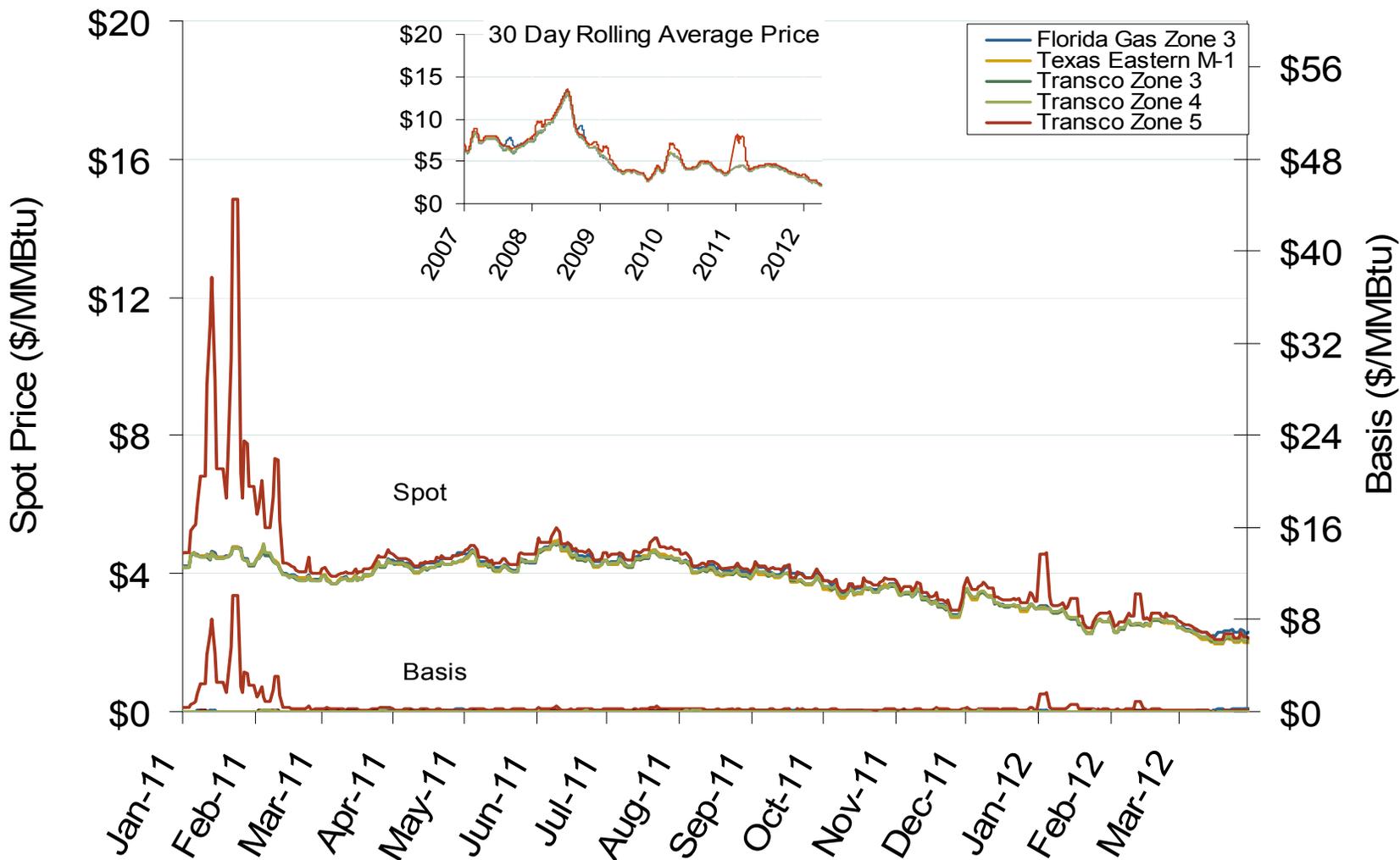
Source: Derived from NOAA data.

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Natural Gas and Fuels Markets

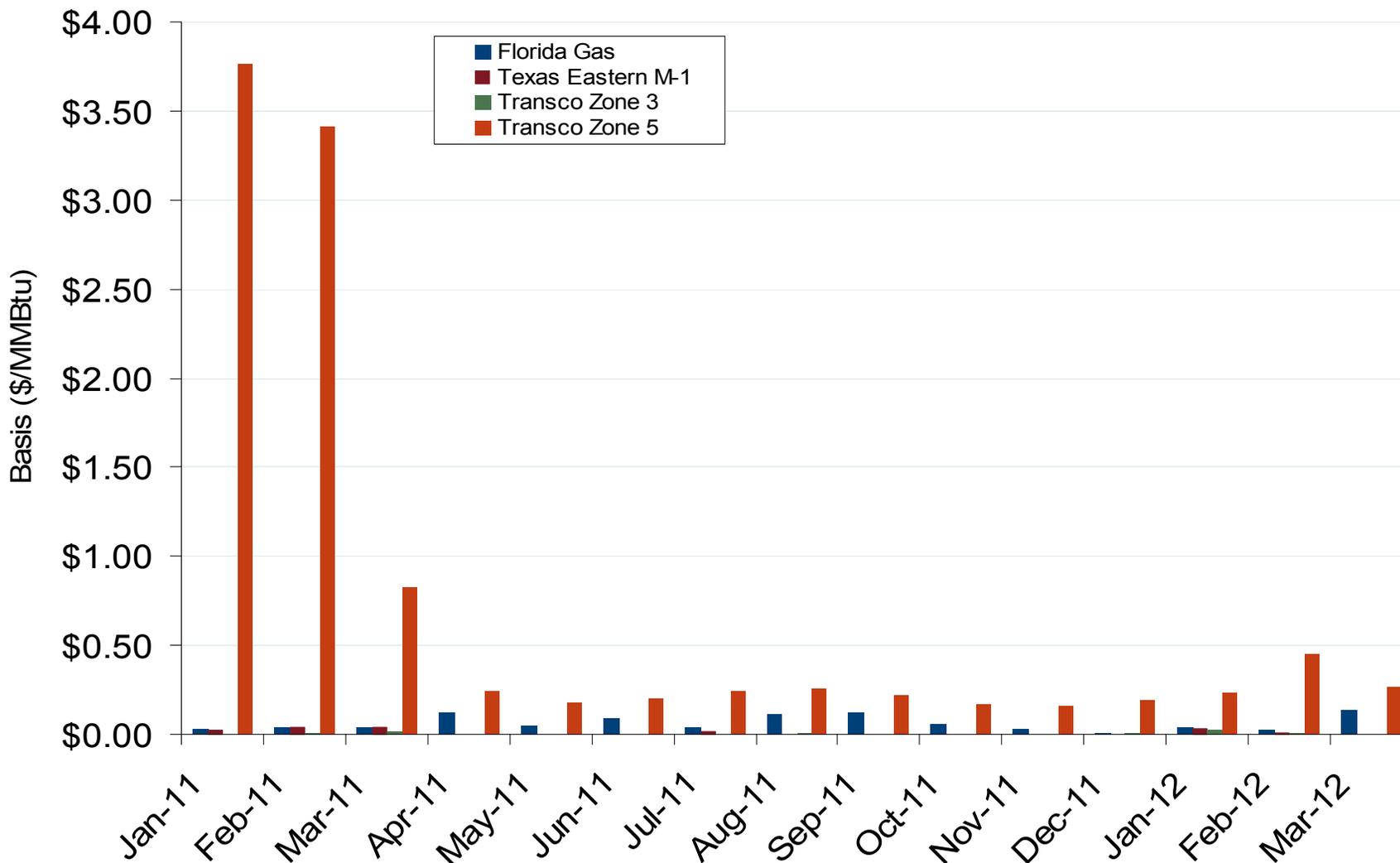
Southeastern Day-Ahead Hub Spot Prices and Basis



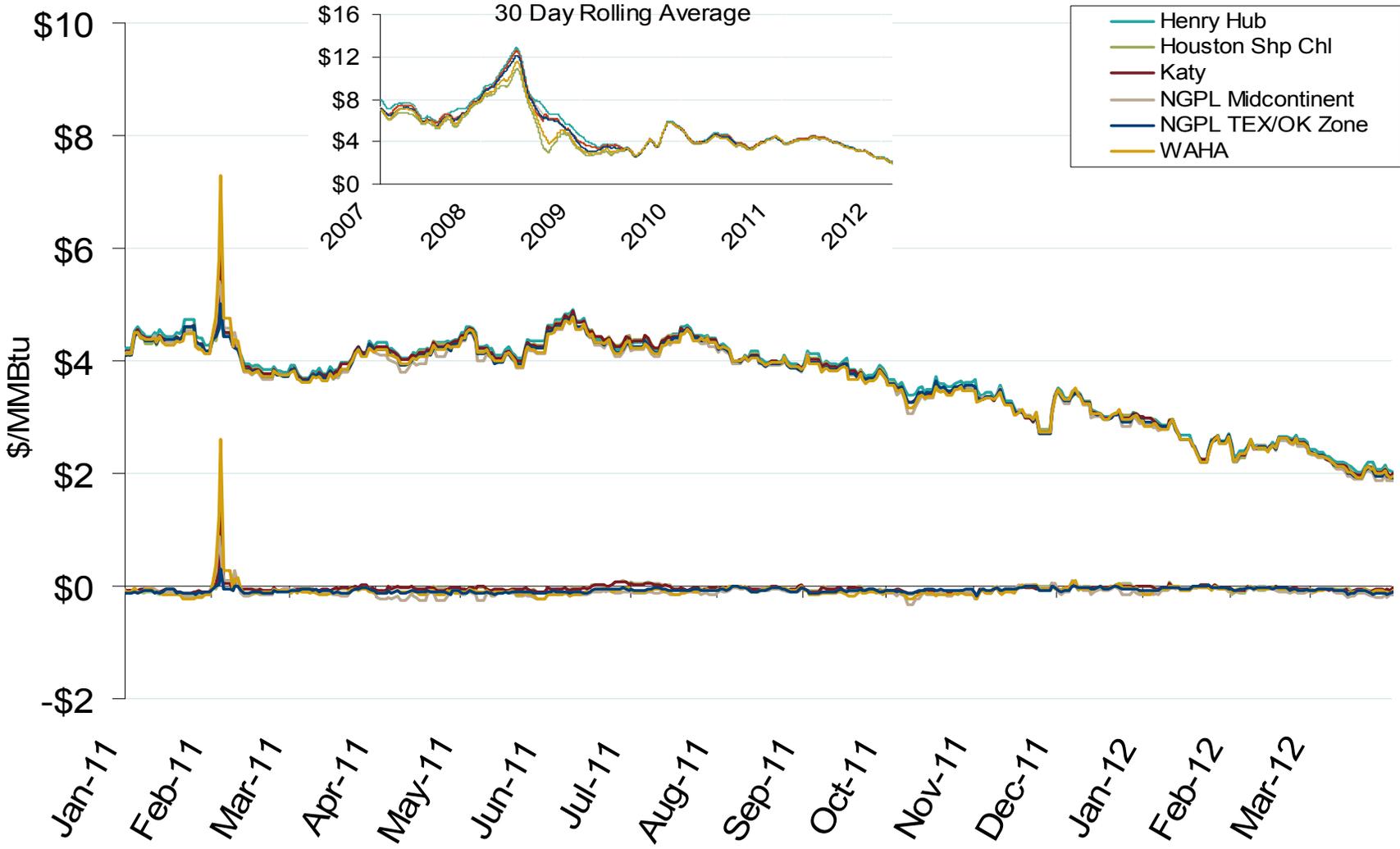
Southeast Natural Gas Market: Average Basis to Henry Hub

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Southeastern Monthly Average Basis Value to Henry Hub



Gulf Day-Ahead Hub Spot Prices and Basis

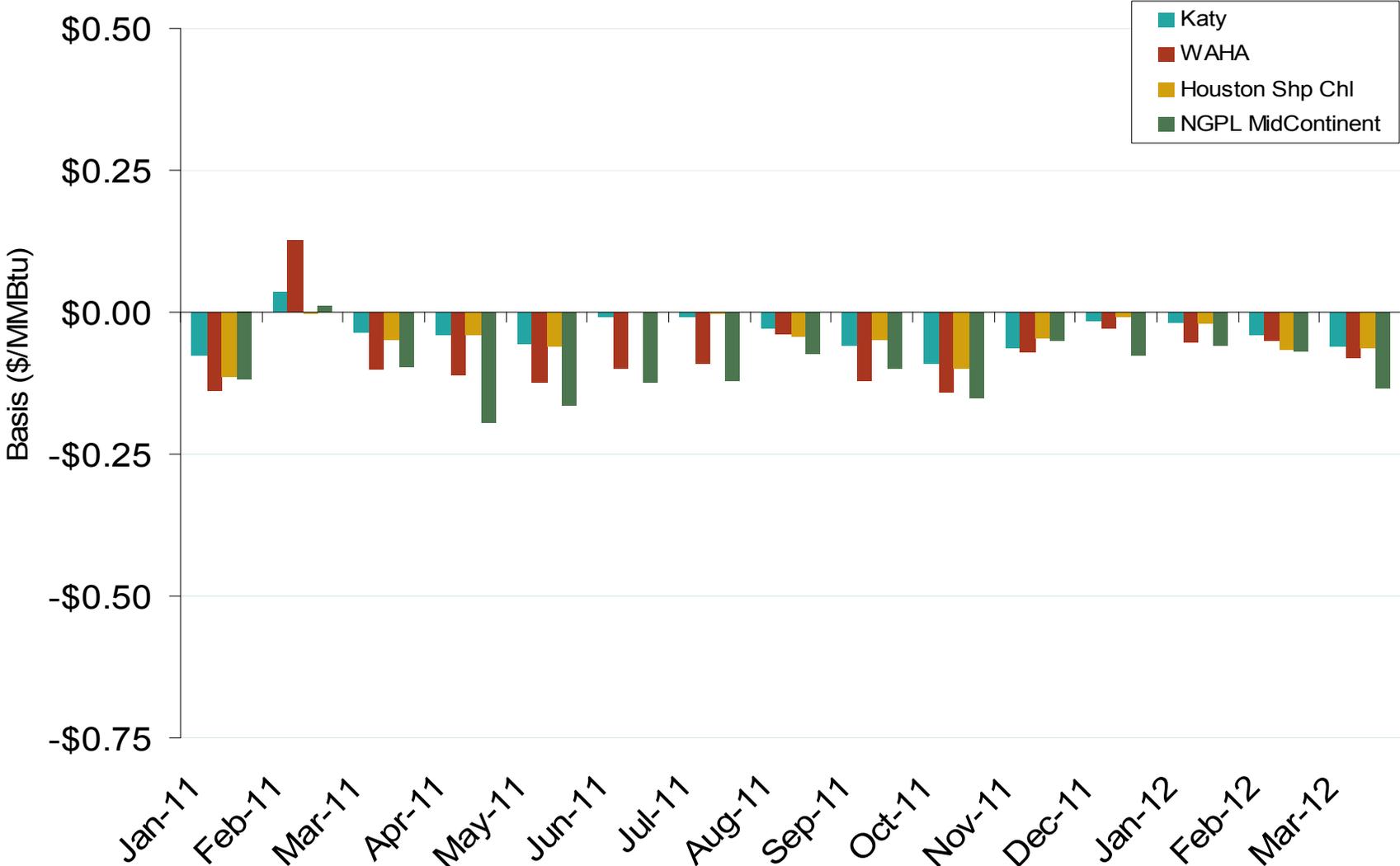


Source: Derived from Platts data
April 2012 Southeast Snapshot Report

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Gulf Monthly Average Basis Value to Henry Hub



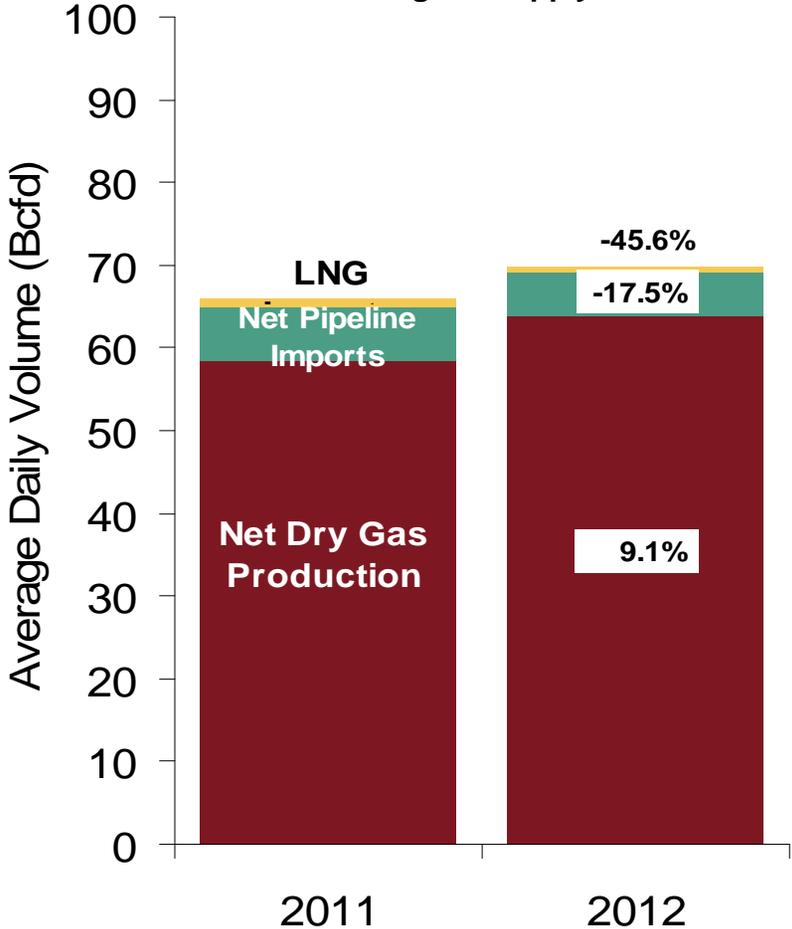
Source: Derived from Platts data
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U.S. NG Supply and Demand 2011 vs. 2012: January - March

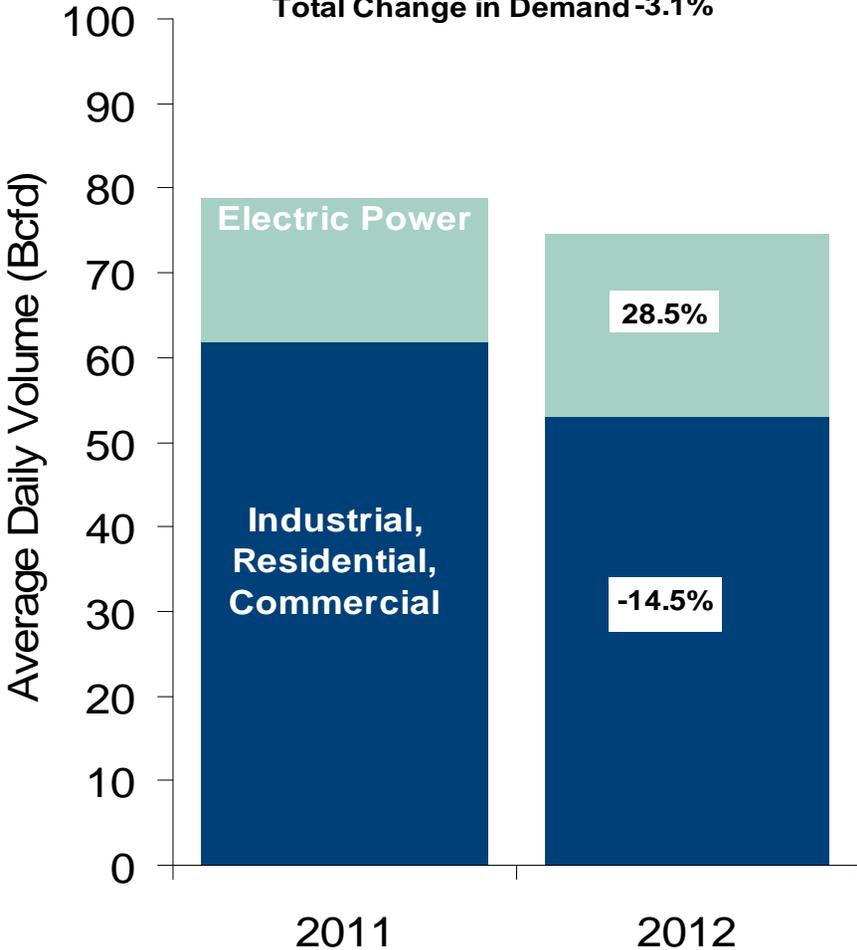
US Natural Gas Supply

Total Change in Supply 5.7%



US Natural Gas Demand

Total Change in Demand -3.1%



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

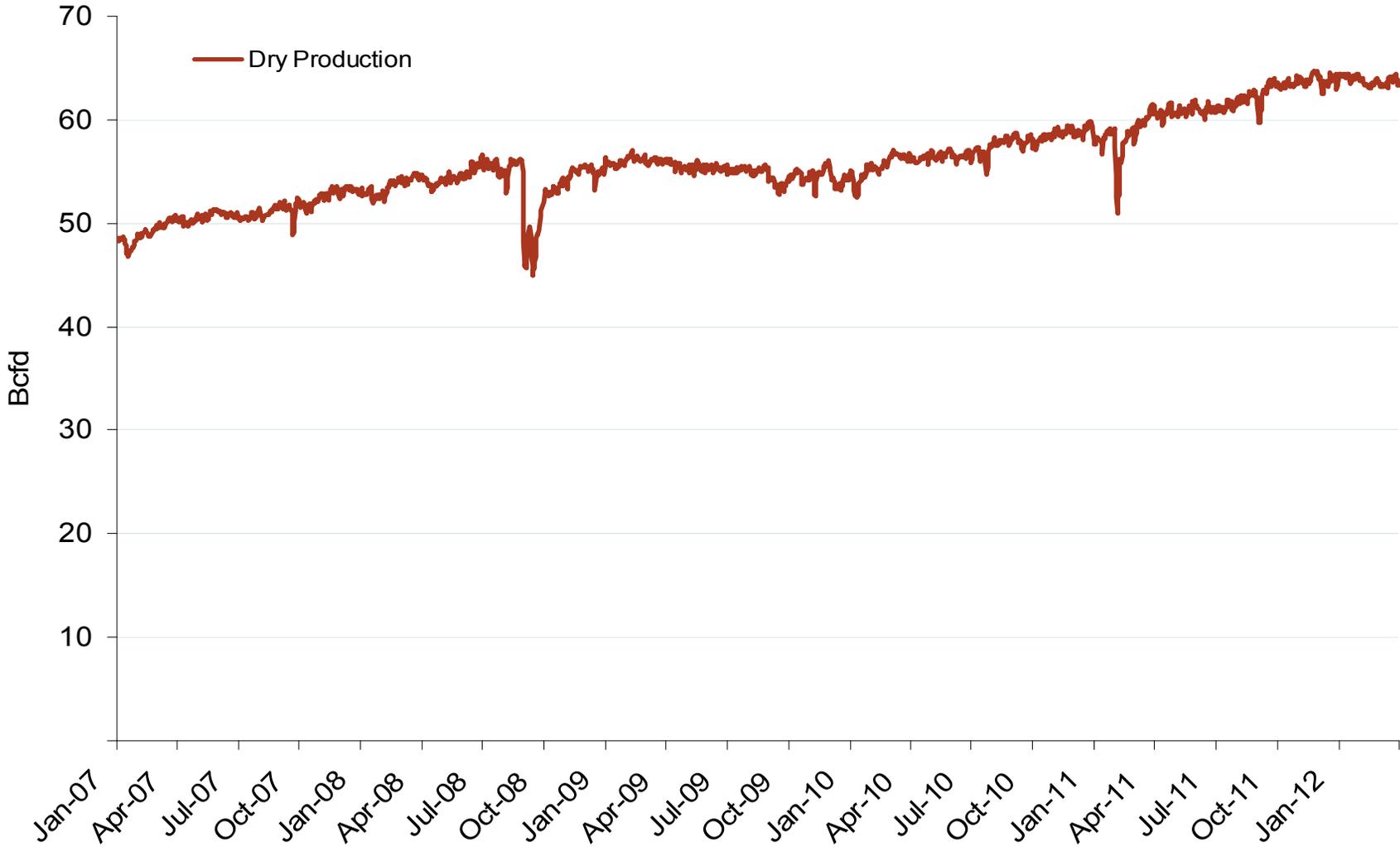
Source: Derived from Bentek Energy data

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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

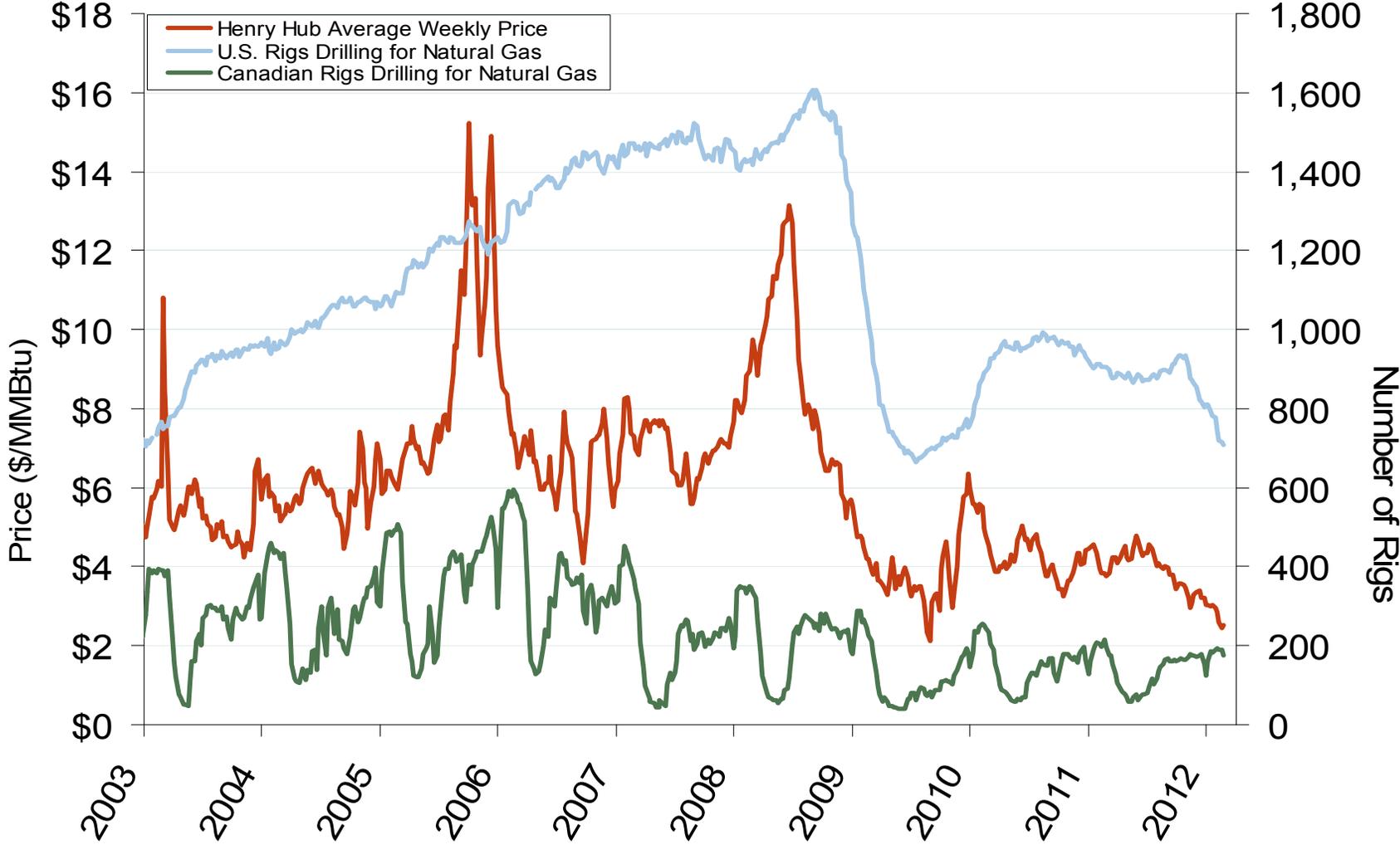
Source: Derived from Bentek Energy data

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

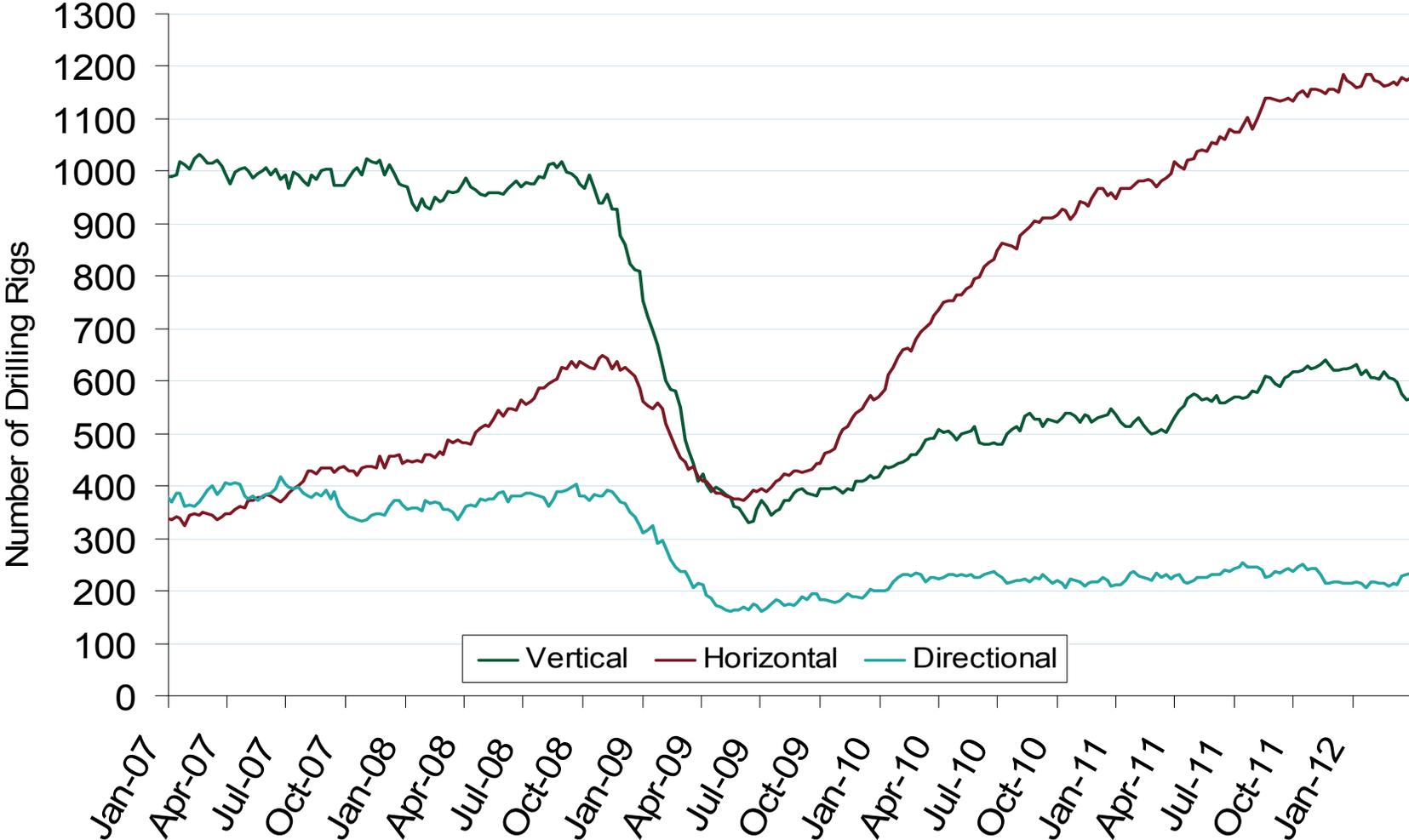


Source: Derived from *Platts* and *Baker Hughes* data
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U.S. Oil and Natural Gas Drilling Rig Count by Type



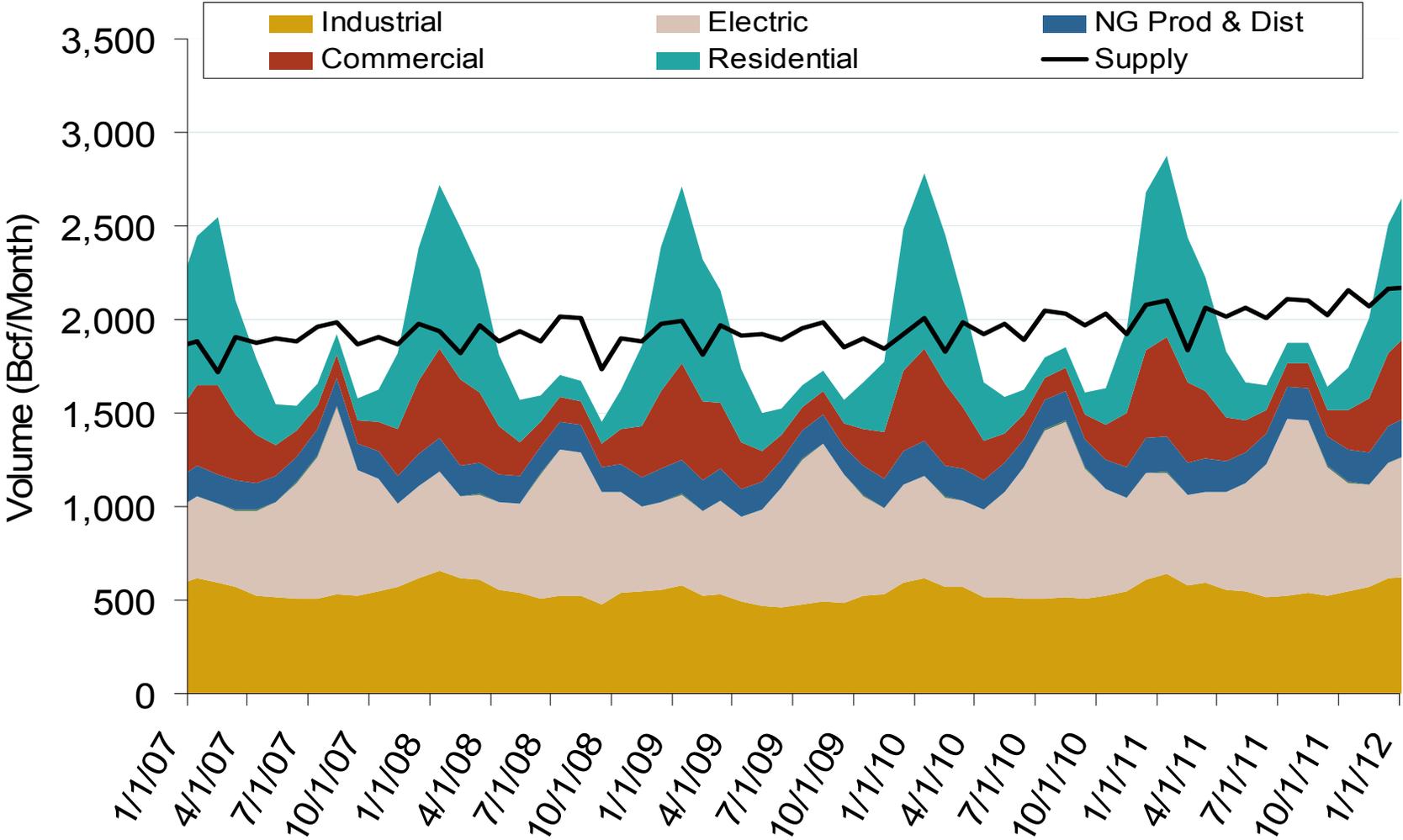
Source: Derived from *Platts* and *Baker Hughes* data
April 2012 Southeast Snapshot Report

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Examples of Drill Bits Used in Shale Gas Production



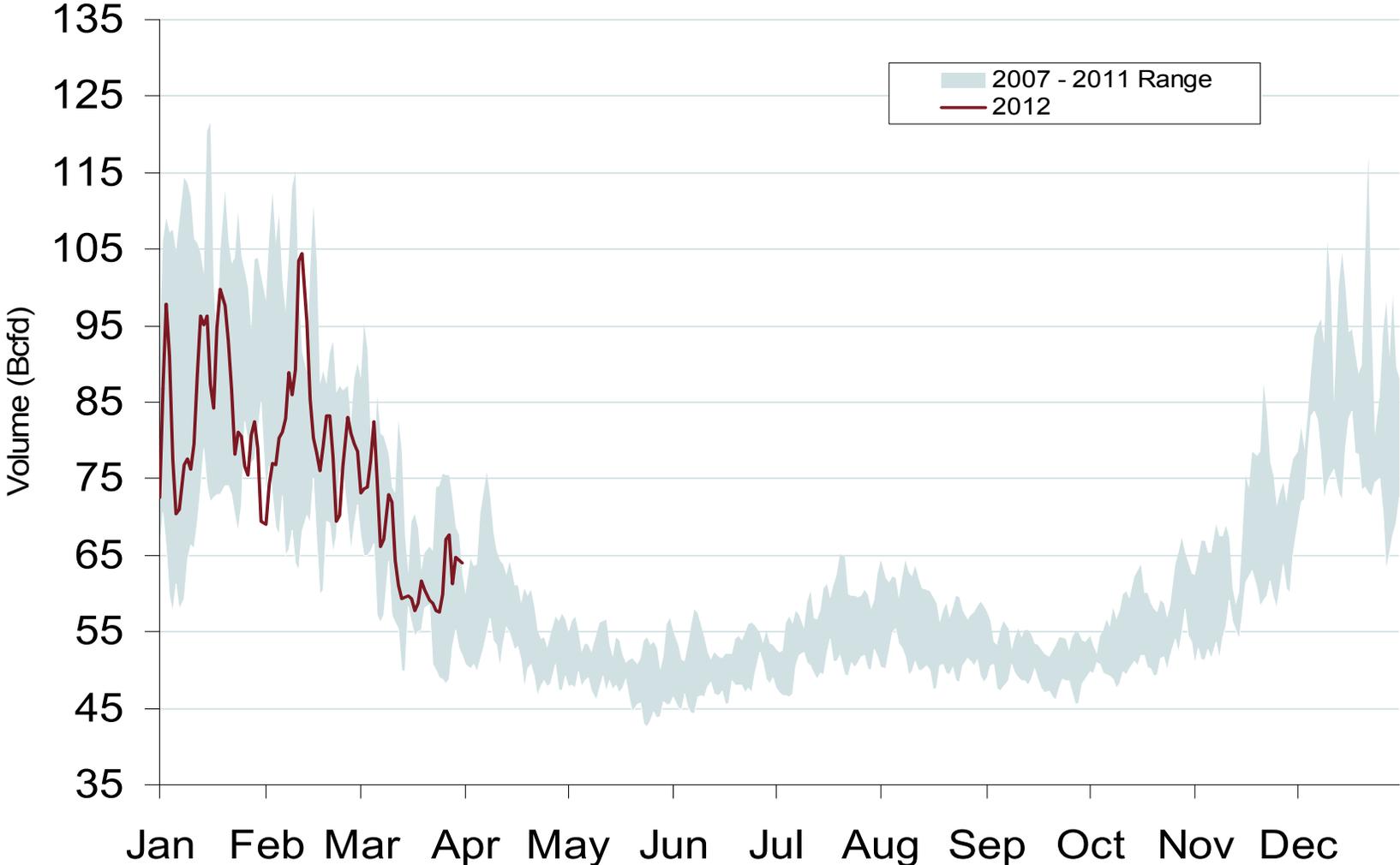
Annual U.S. Natural Gas Consumption by Sector



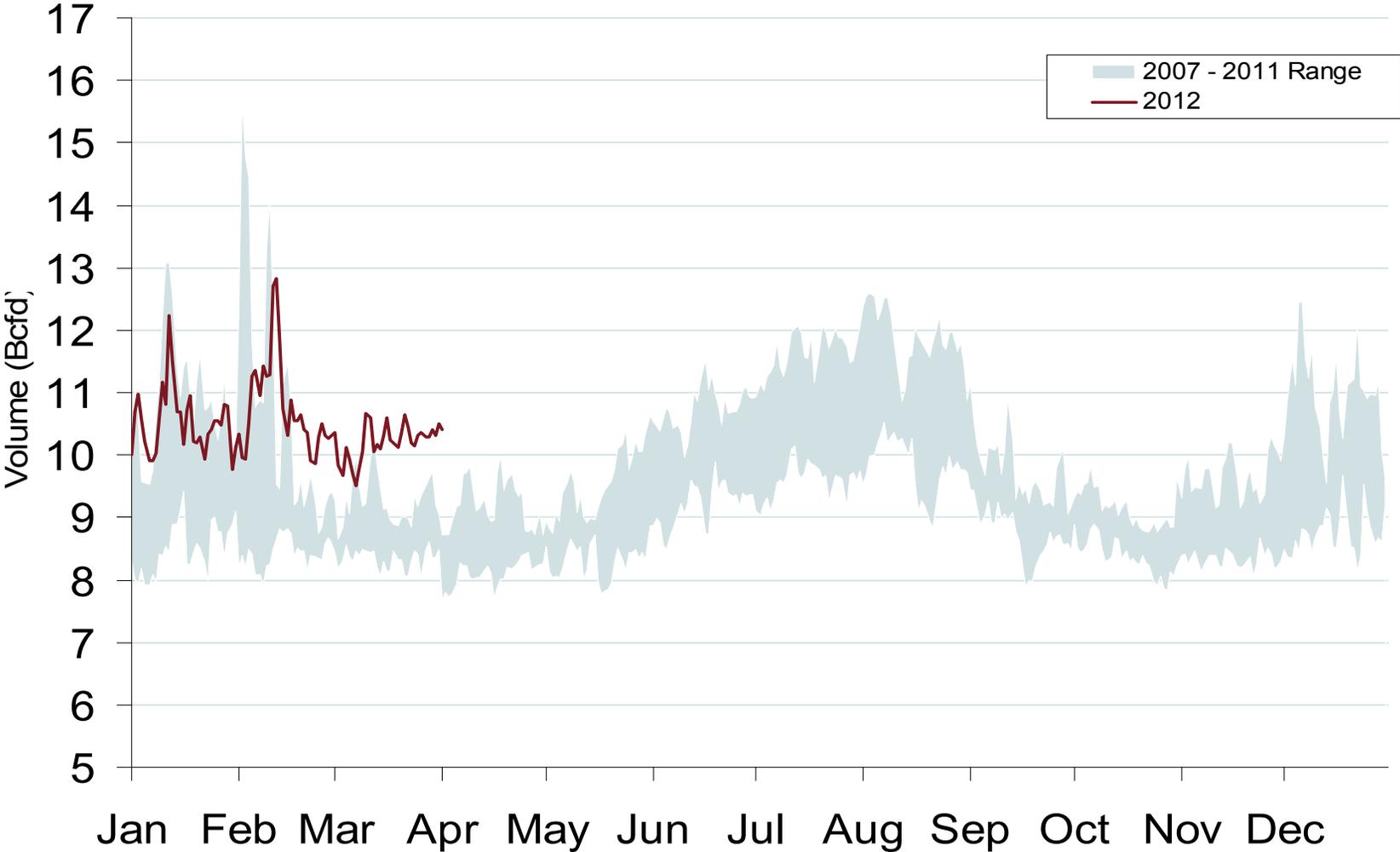
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

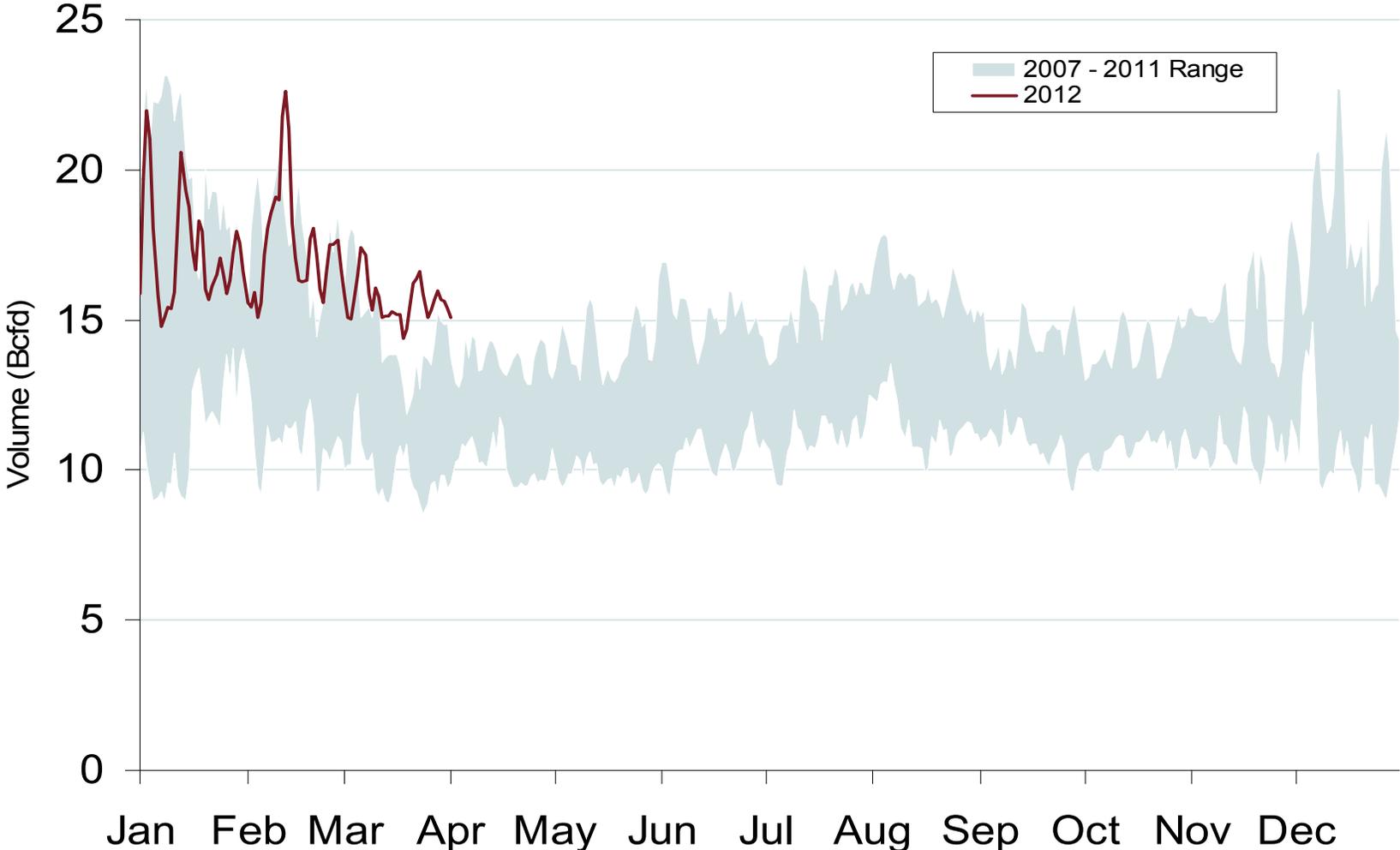
Total U.S. Natural Gas Demand All Sectors



Daily Gulf Natural Gas Demand All Sectors

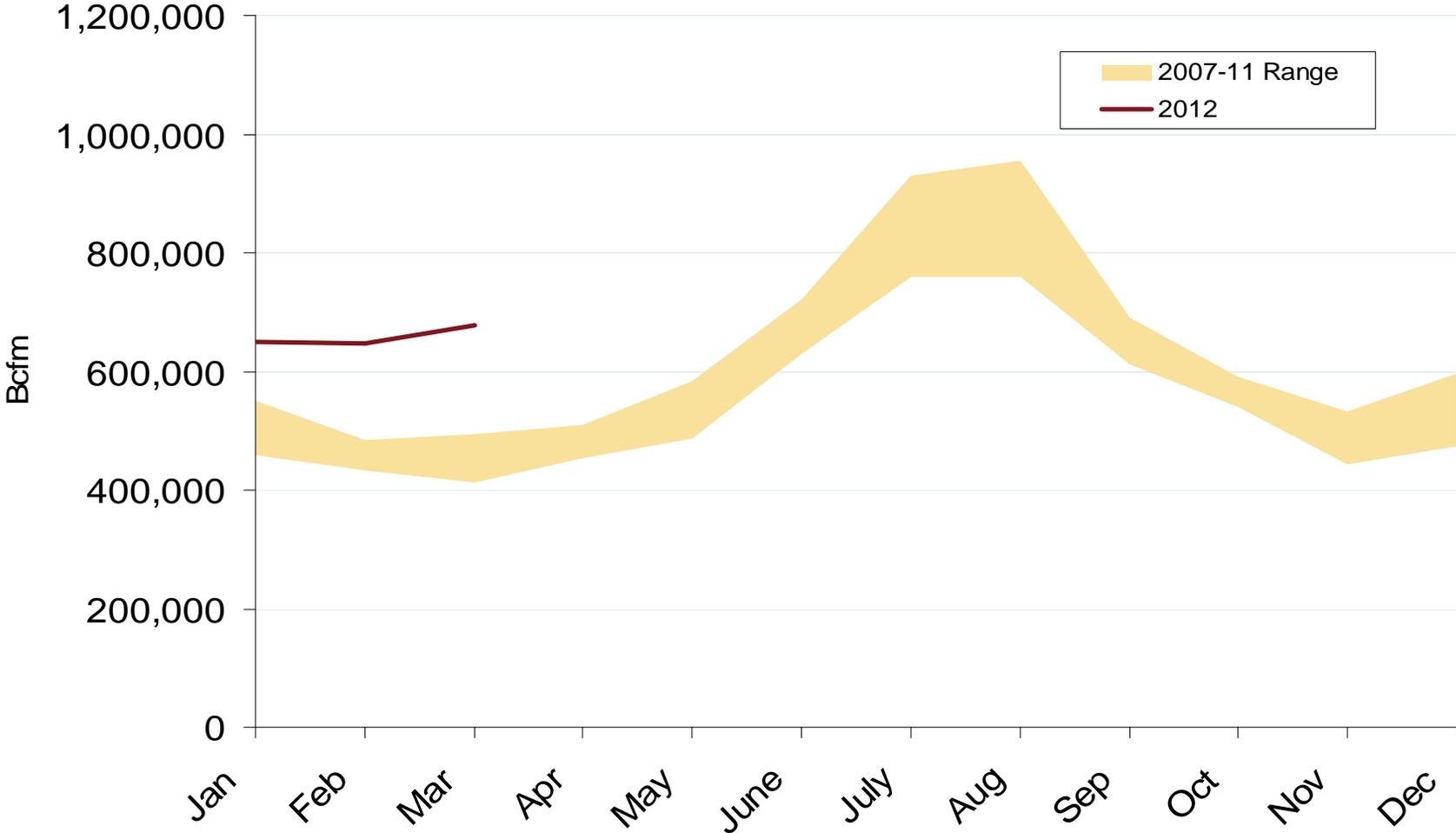


Daily Southeast Natural Gas Demand All Sectors



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U.S. Natural Gas Consumption for Power Generation

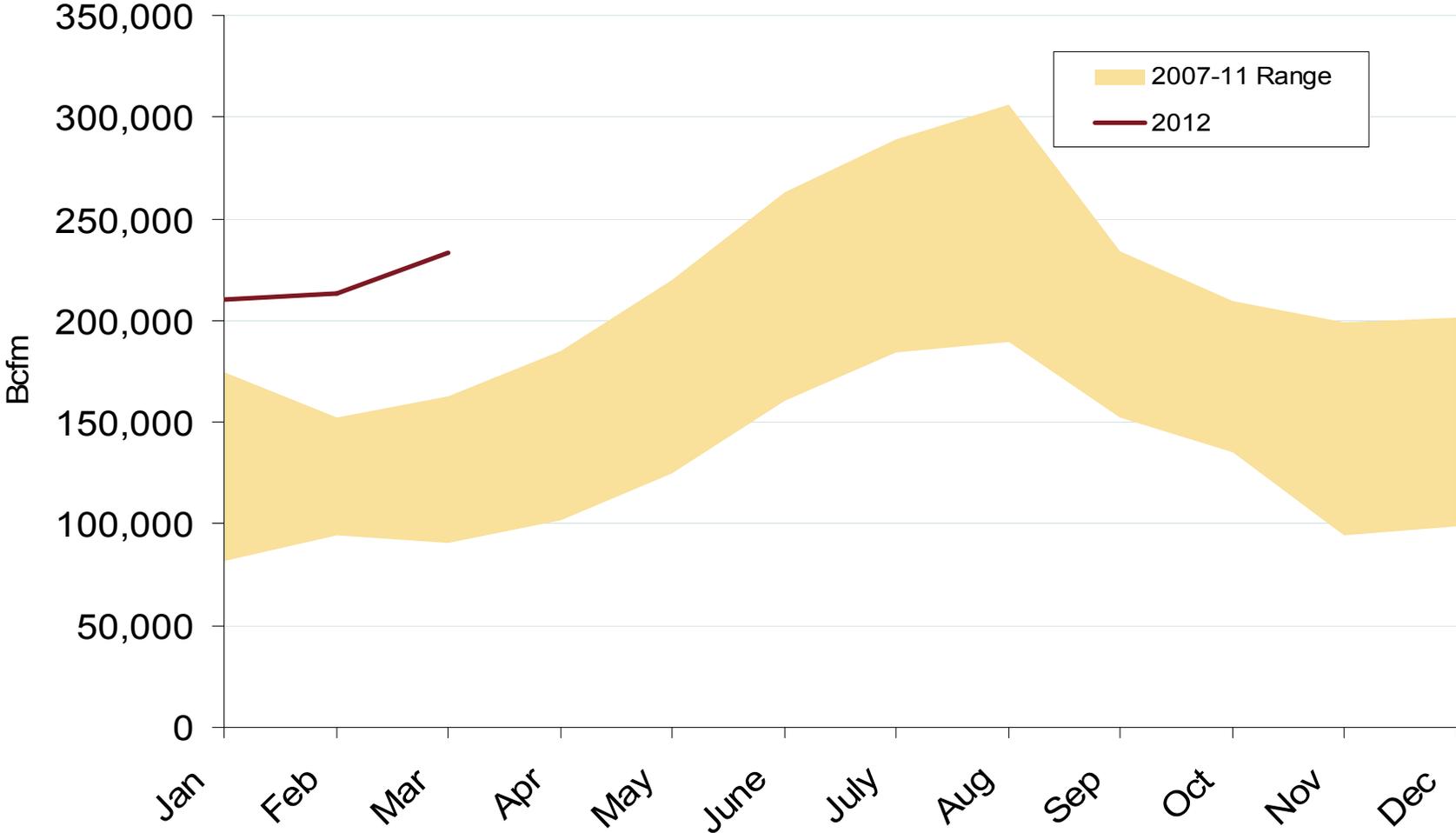


Source: Derived from *Bentek Energy* data
April 2012 Southeast Snapshot Report

Updated: April 30, 2012

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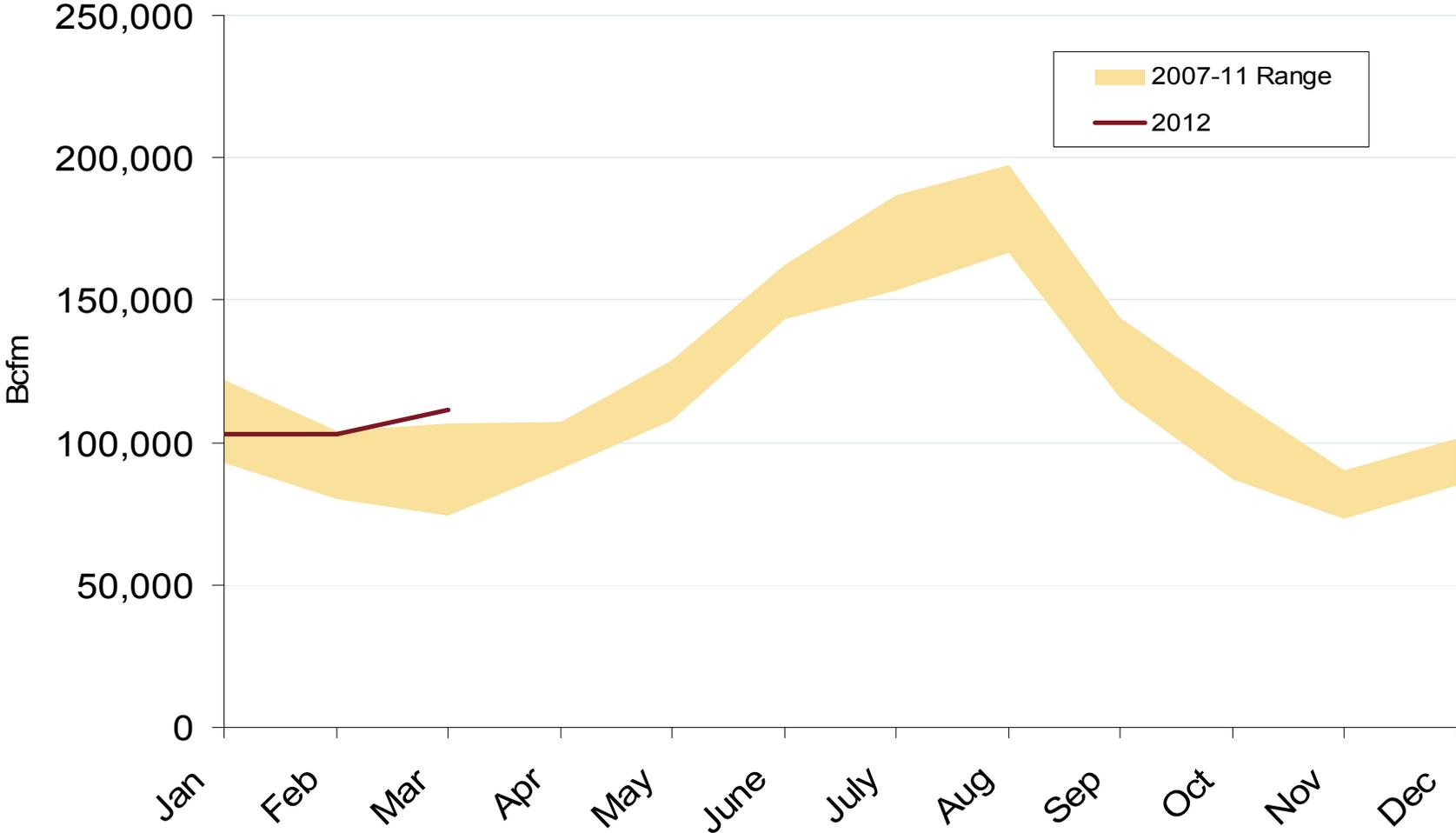
Southeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data
April 2012 Southeast Snapshot Report

Updated: April 17, 2012

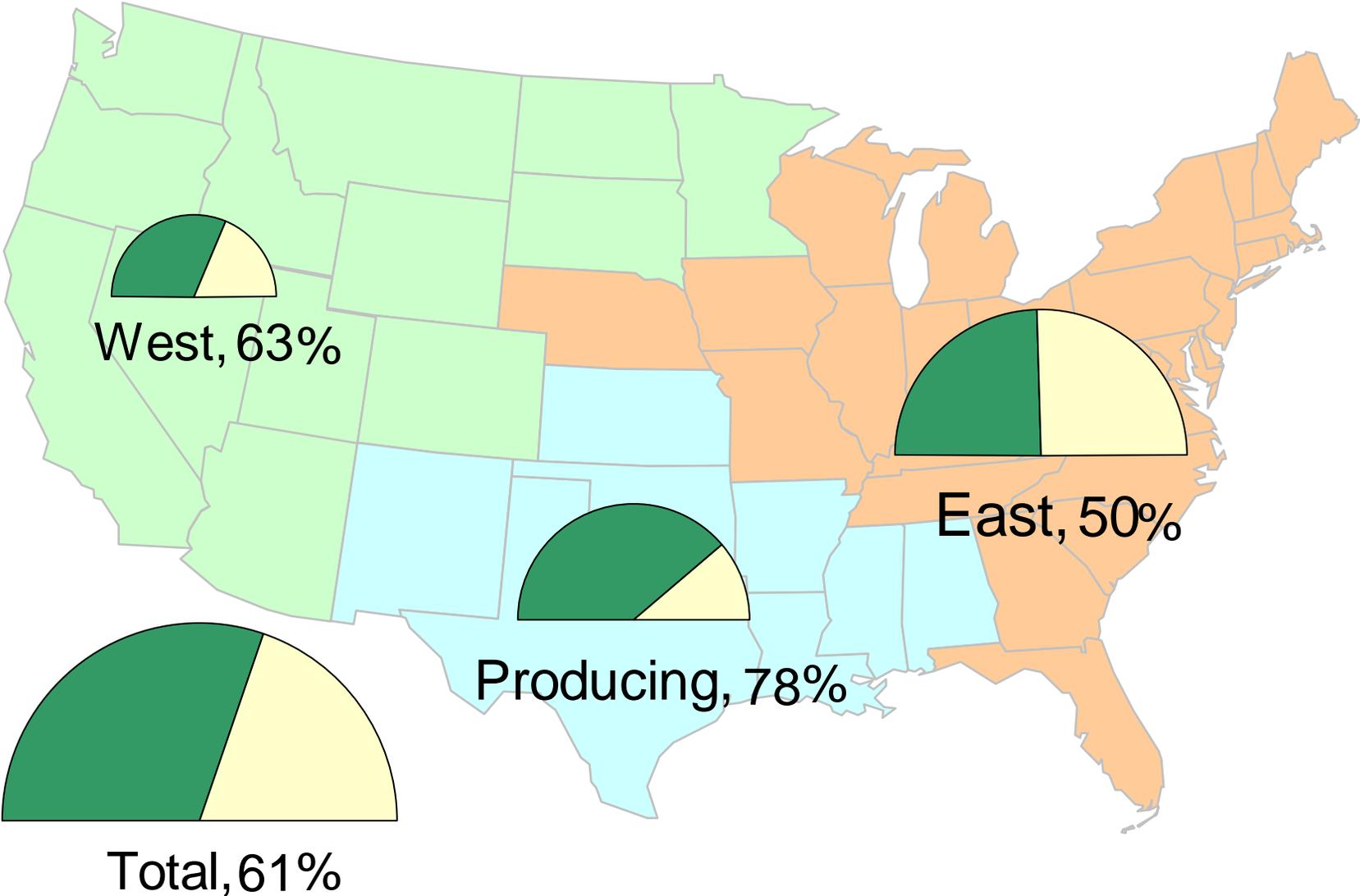
Gulf Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data
April 2012 Southeast Snapshot Report

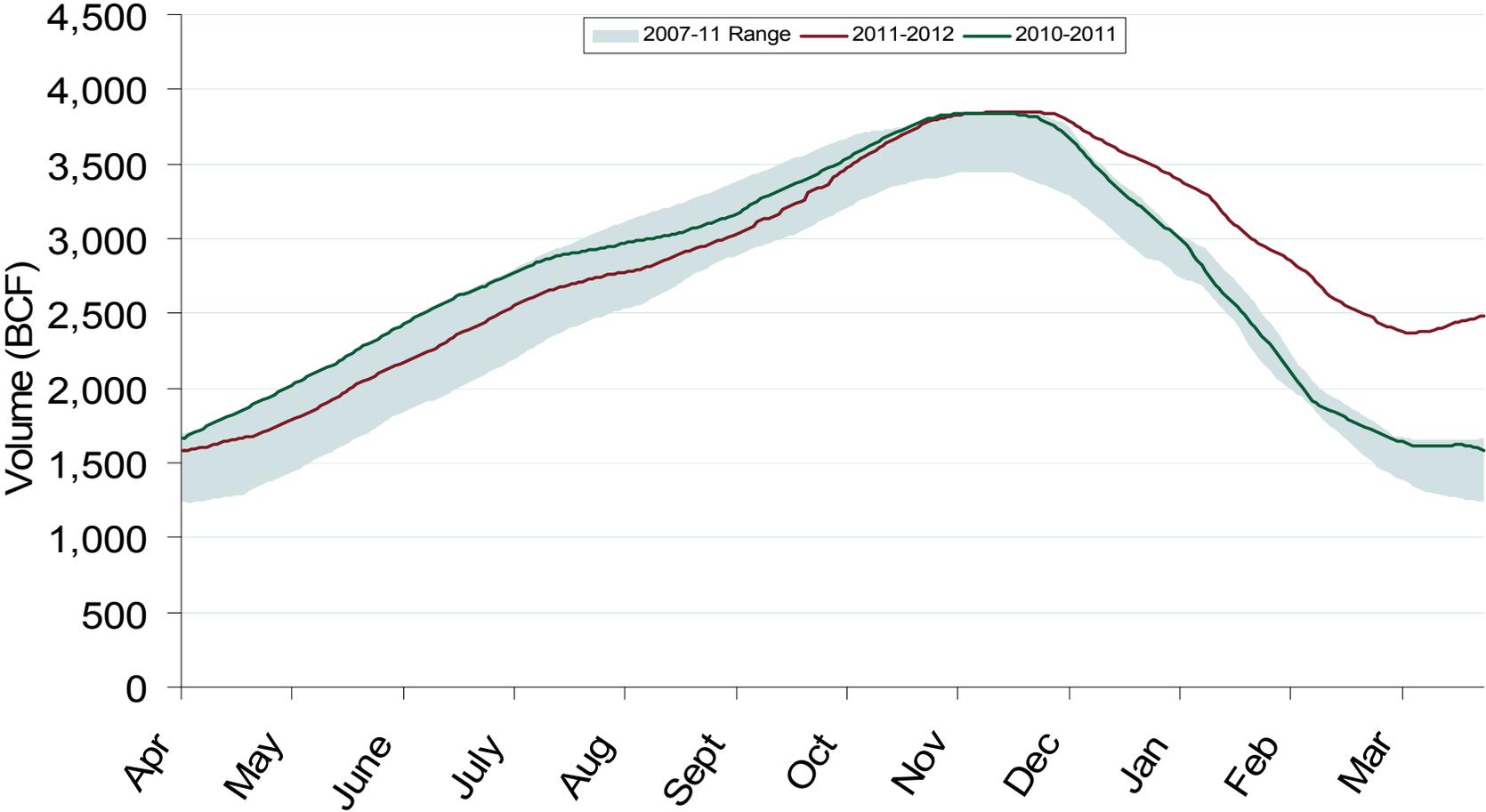
Updated: April 17, 2012

Natural Gas Storage Inventories – April 6, 2012



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

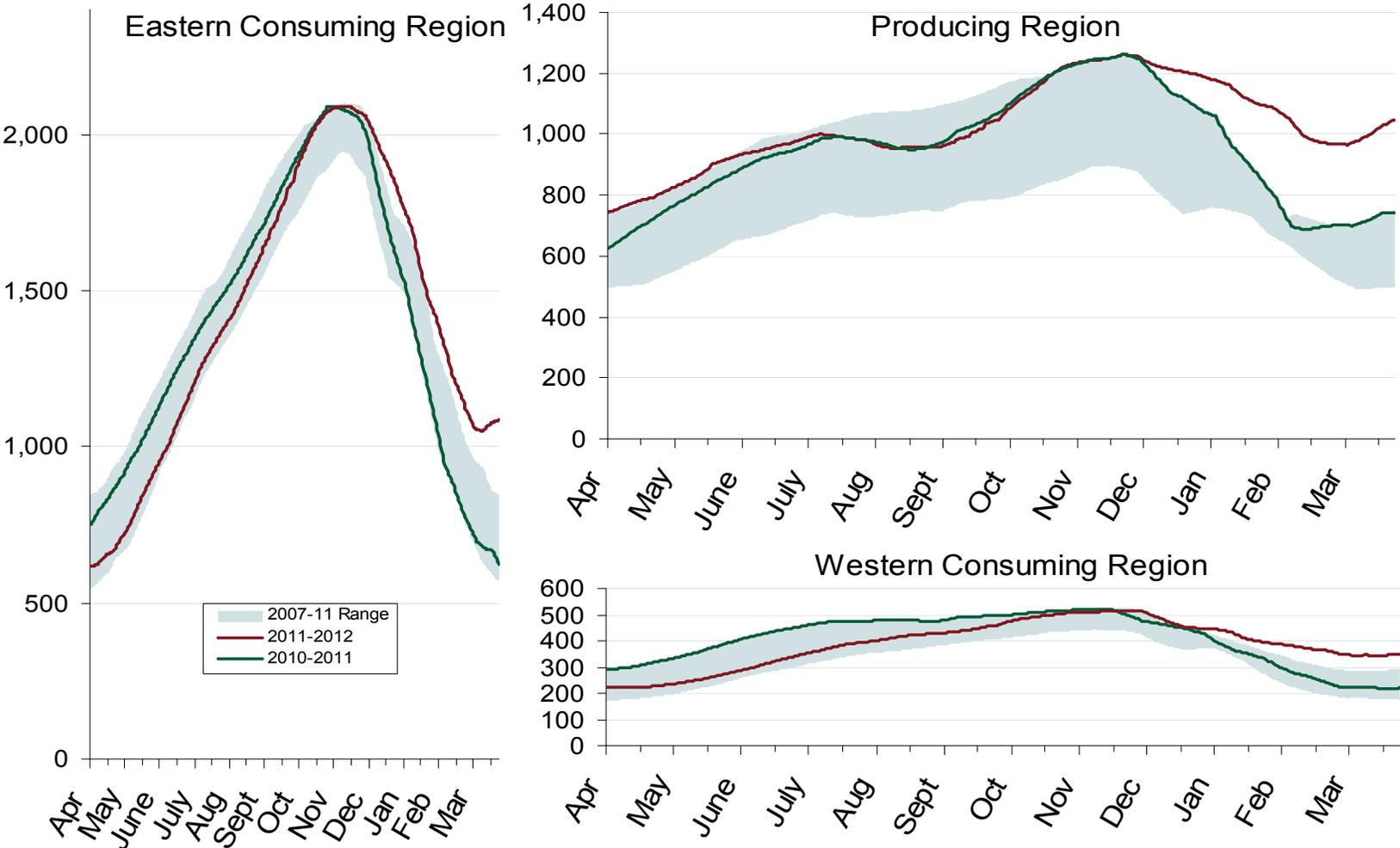
Total U.S. Working Gas in Storage



Source: Derived from EIA data
April 2012 Southeast Snapshot Report

Updated: April 17, 2012

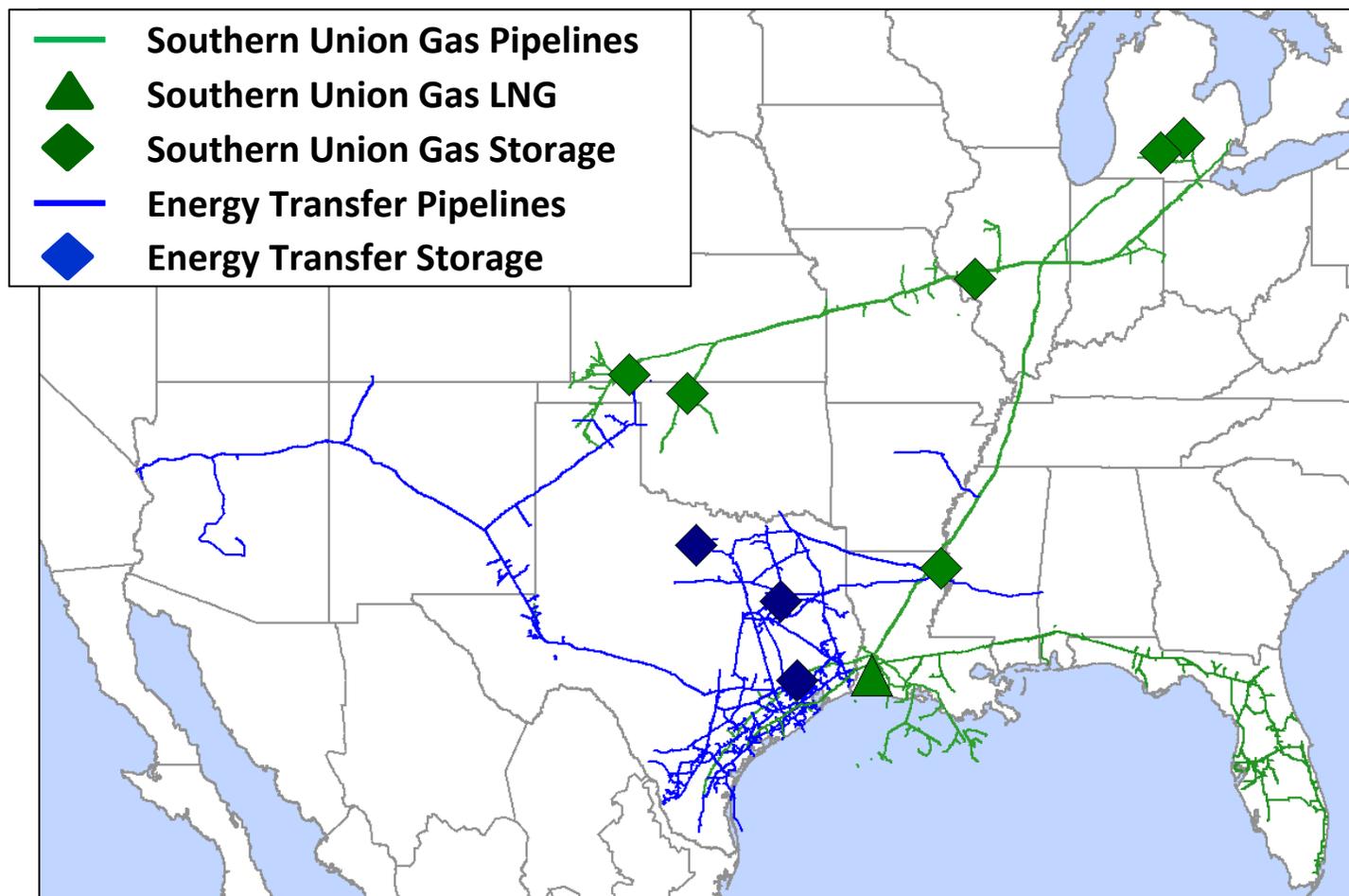
Regional Totals of Working Gas in Storage



Source: Derived from EIA data
April 2012 Southeast Snapshot Report

Updated: April 17, 2012

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



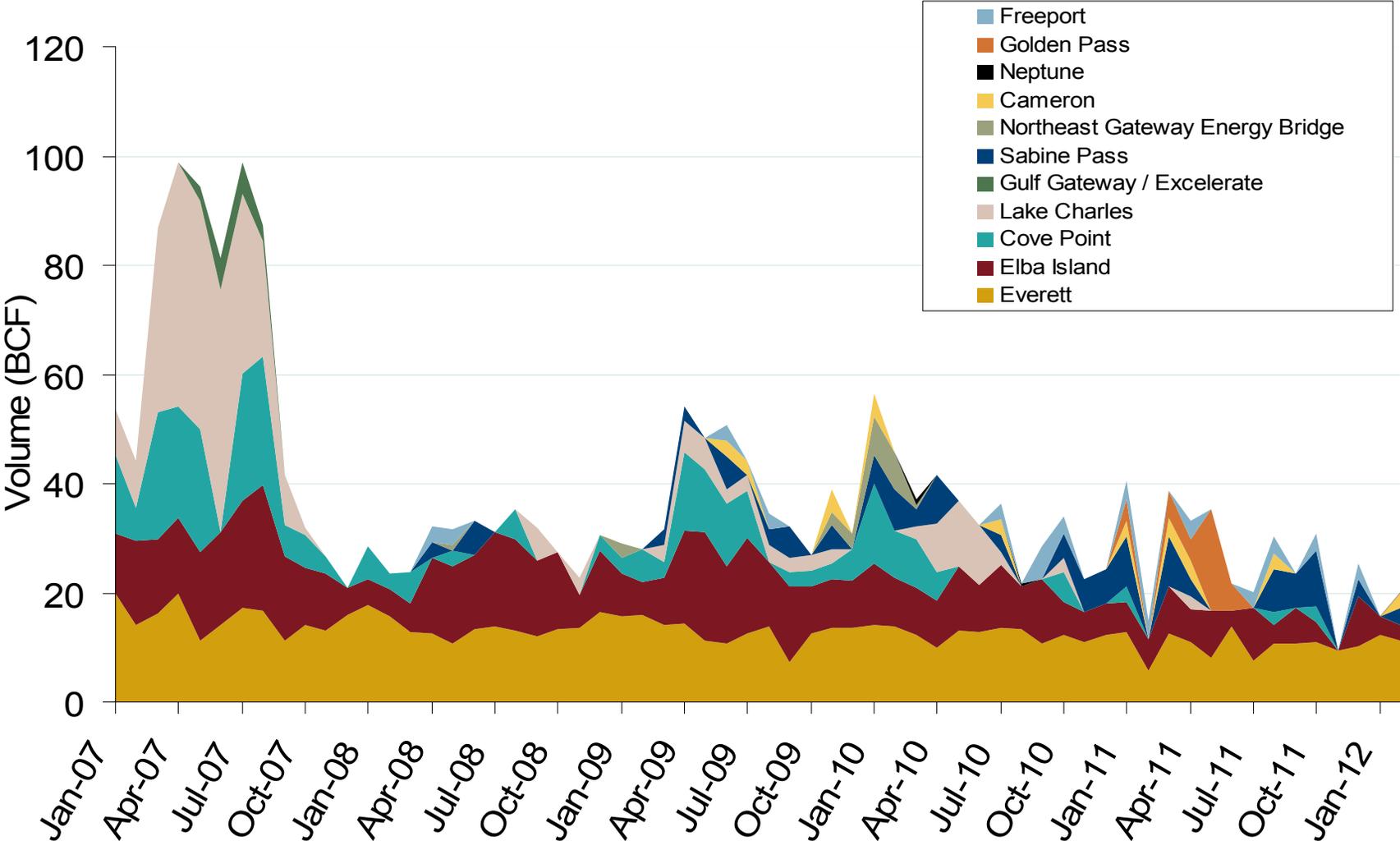
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World LNG Estimated May 2012 Landed Prices



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

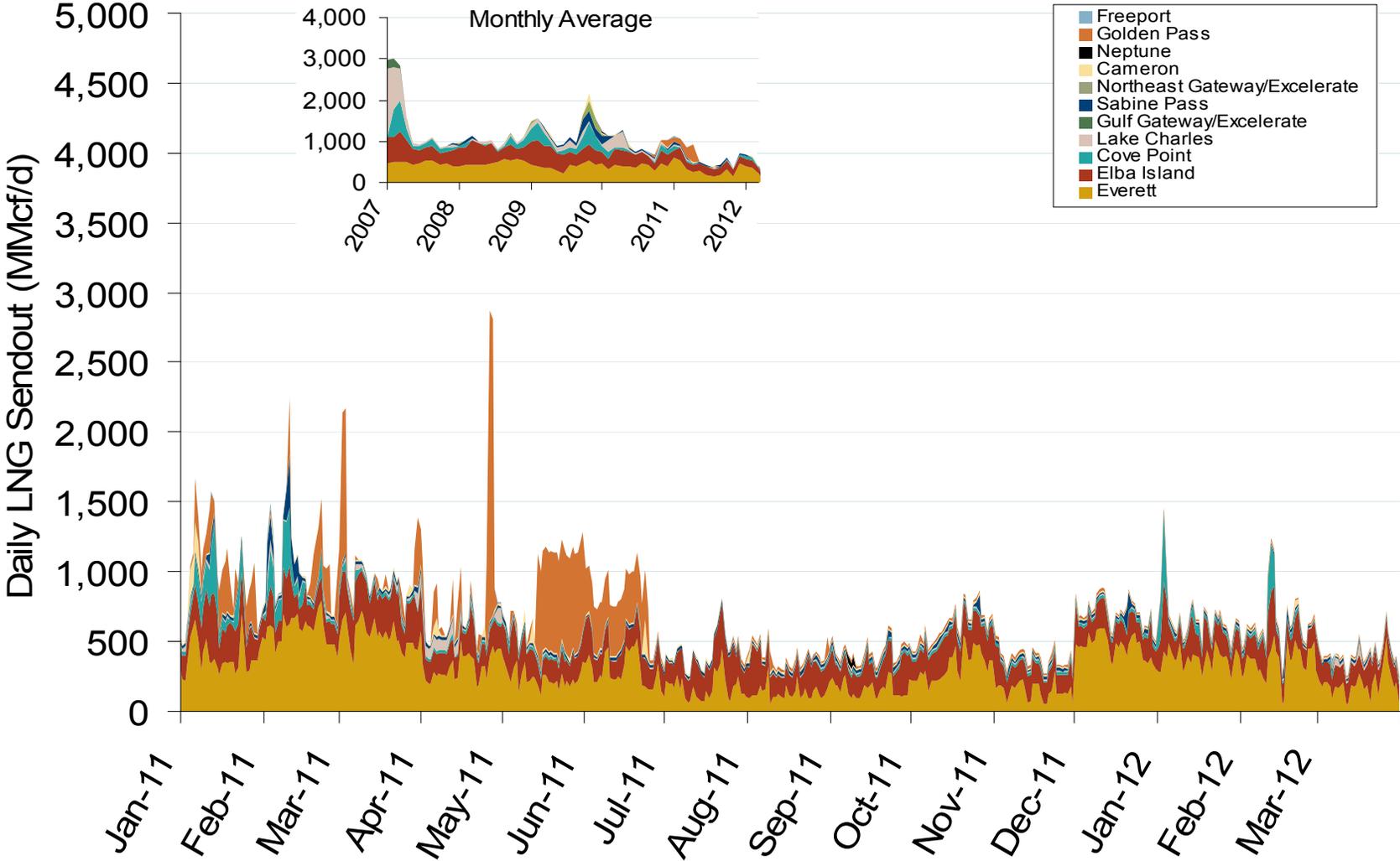
Monthly Gas Imports at Existing U.S. LNG Facilities



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

Daily Gas Sendout from Existing U.S. LNG Facilities



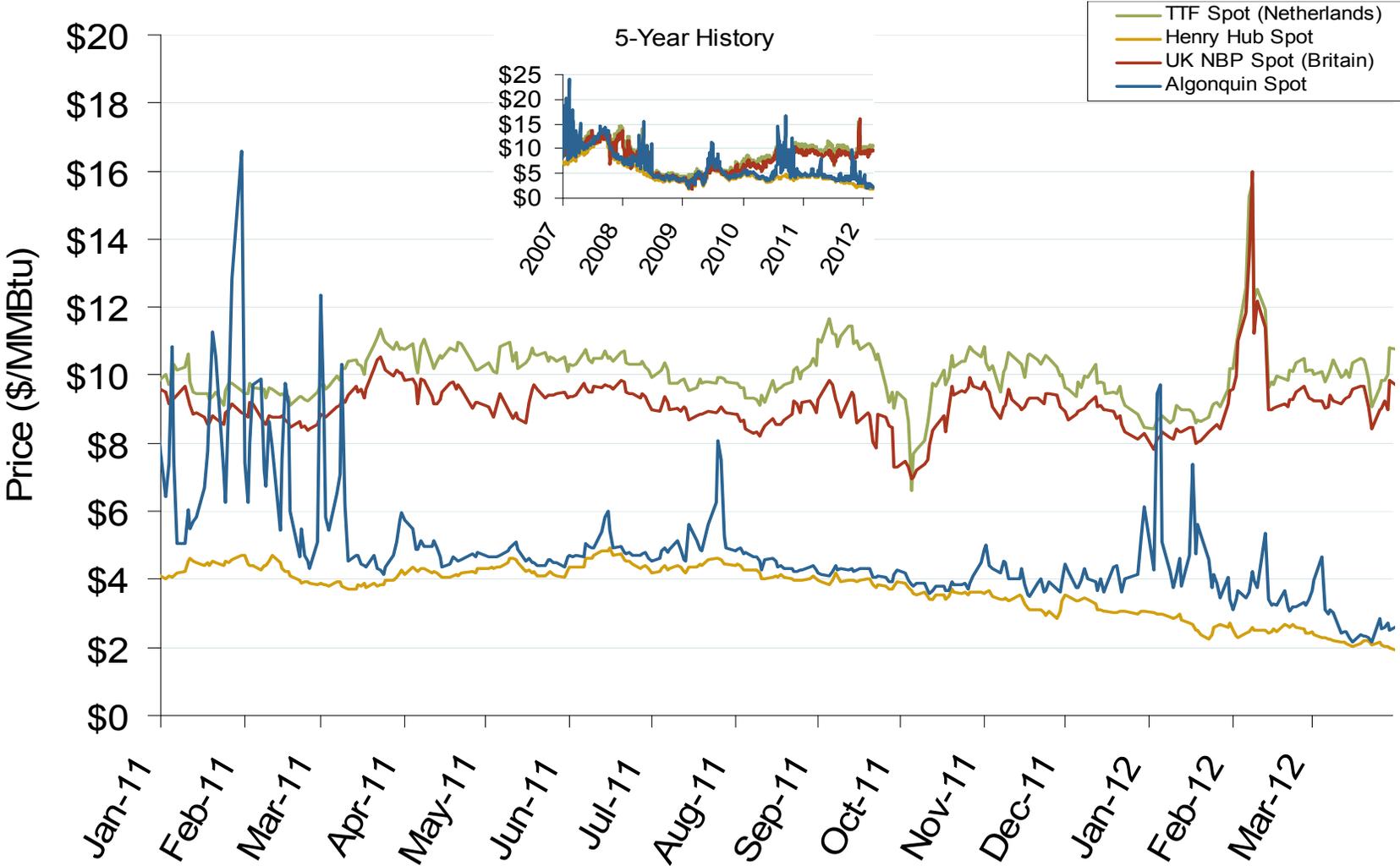
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from Bentek Energy data

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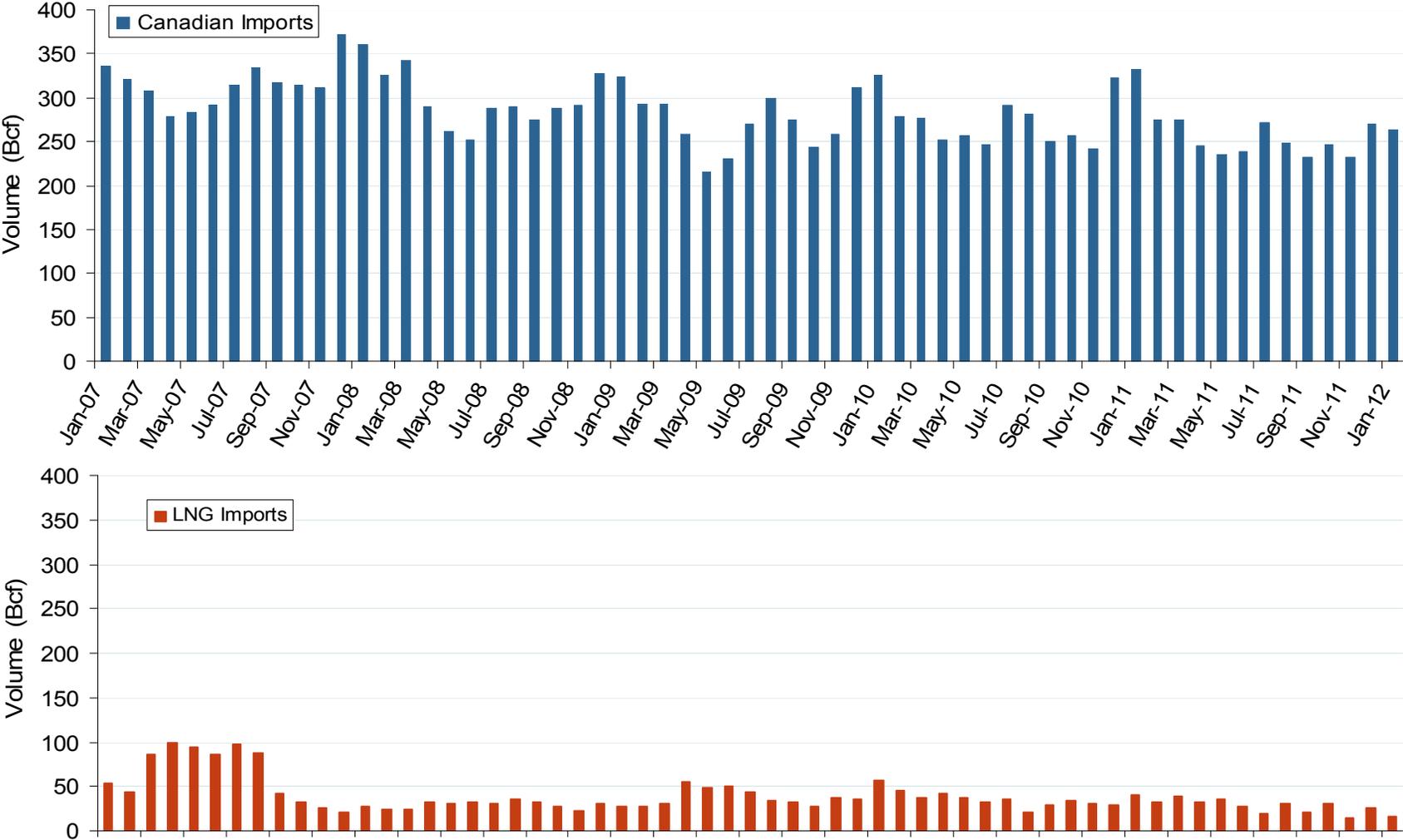
Atlantic Basin European and US Spot Natural Gas Prices



Source: Derived from *Bloomberg* and *ICE* data
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Canadian and LNG Natural Gas Imports Into the U.S.

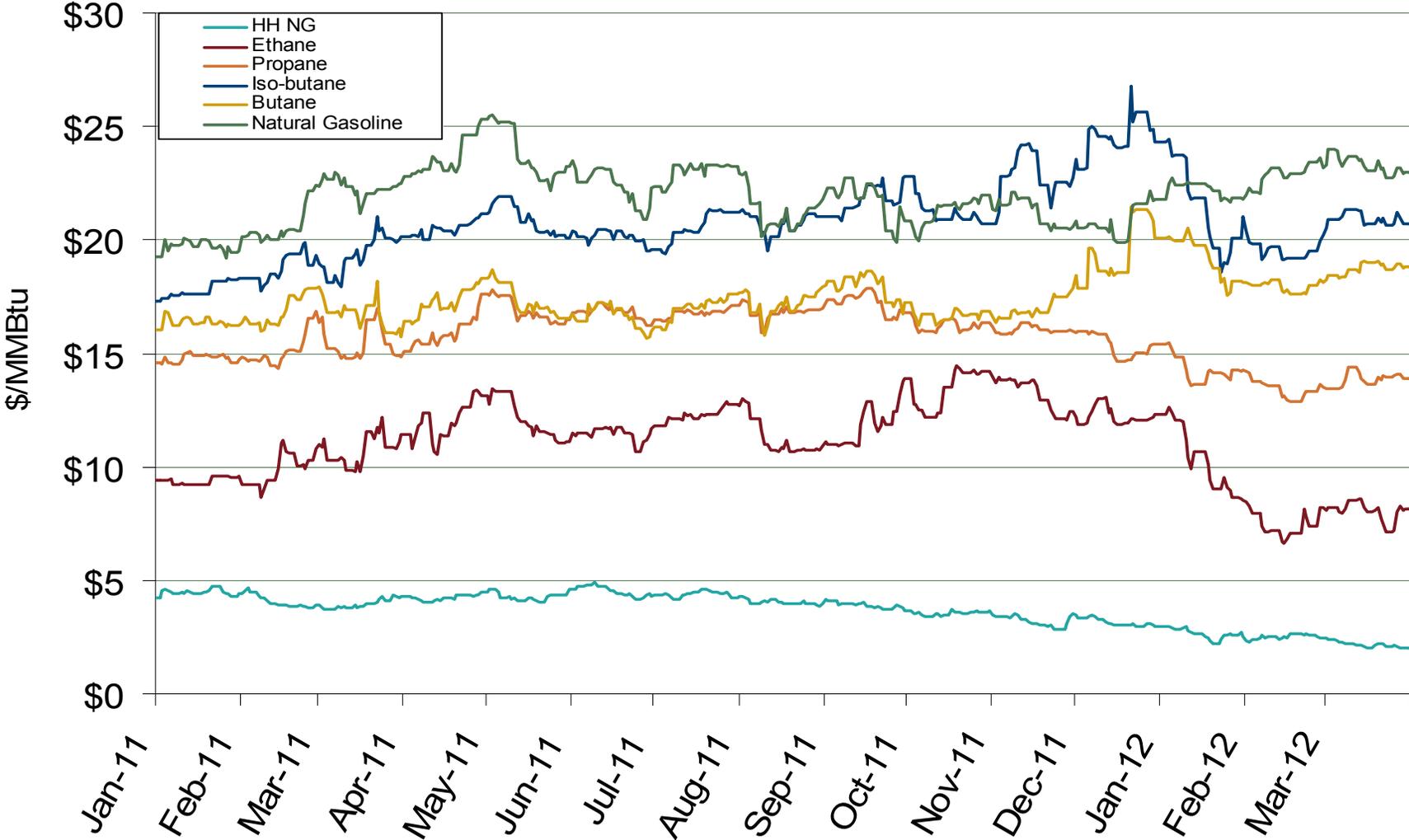


Source: EIA Natural Gas Monthly
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U.S. Natural Gas vs. Natural Gas Liquids (NGL) Prices



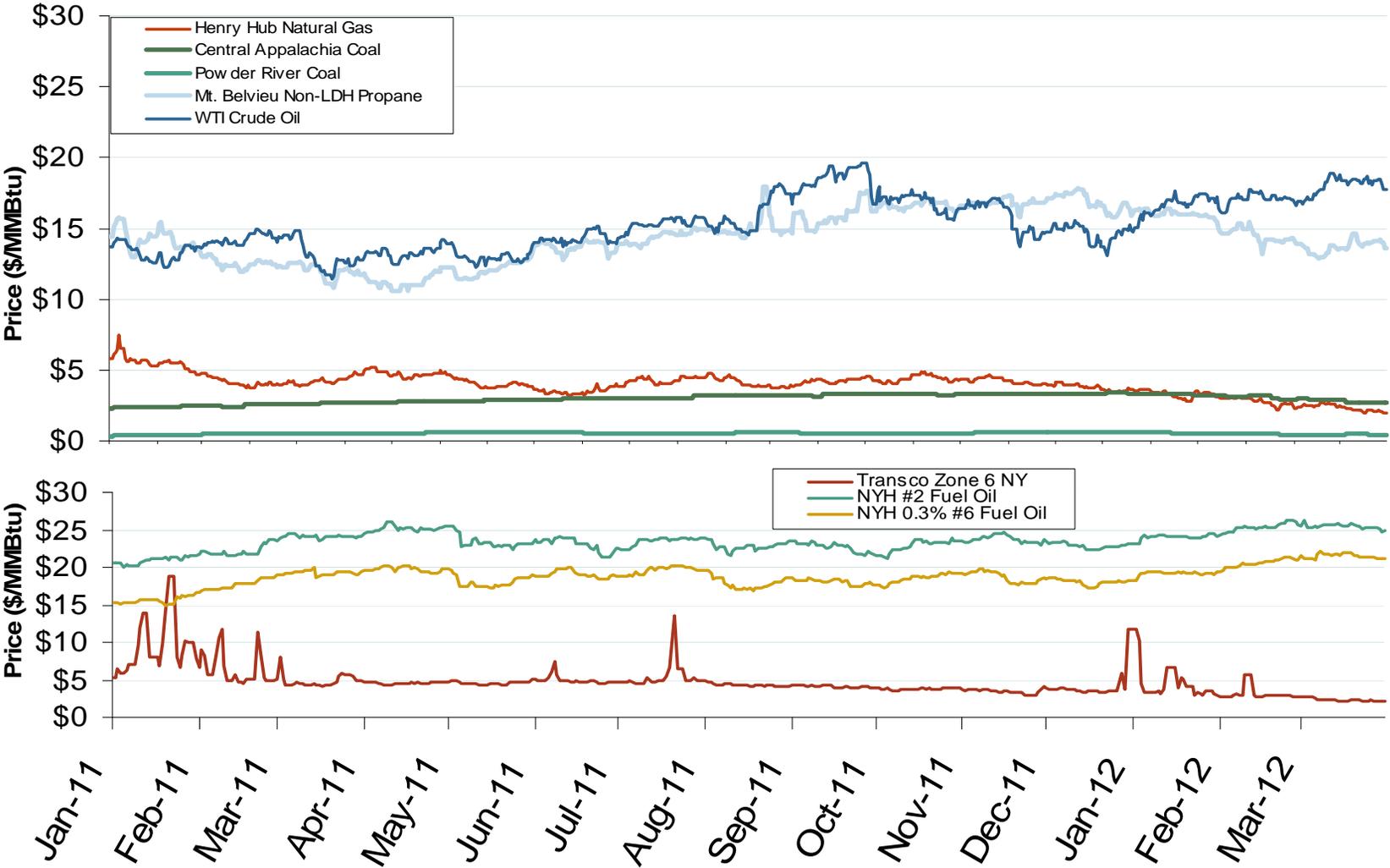
Source: Derived from Bloomberg Data
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Other Fuels Market: Fossil Fuel Prices

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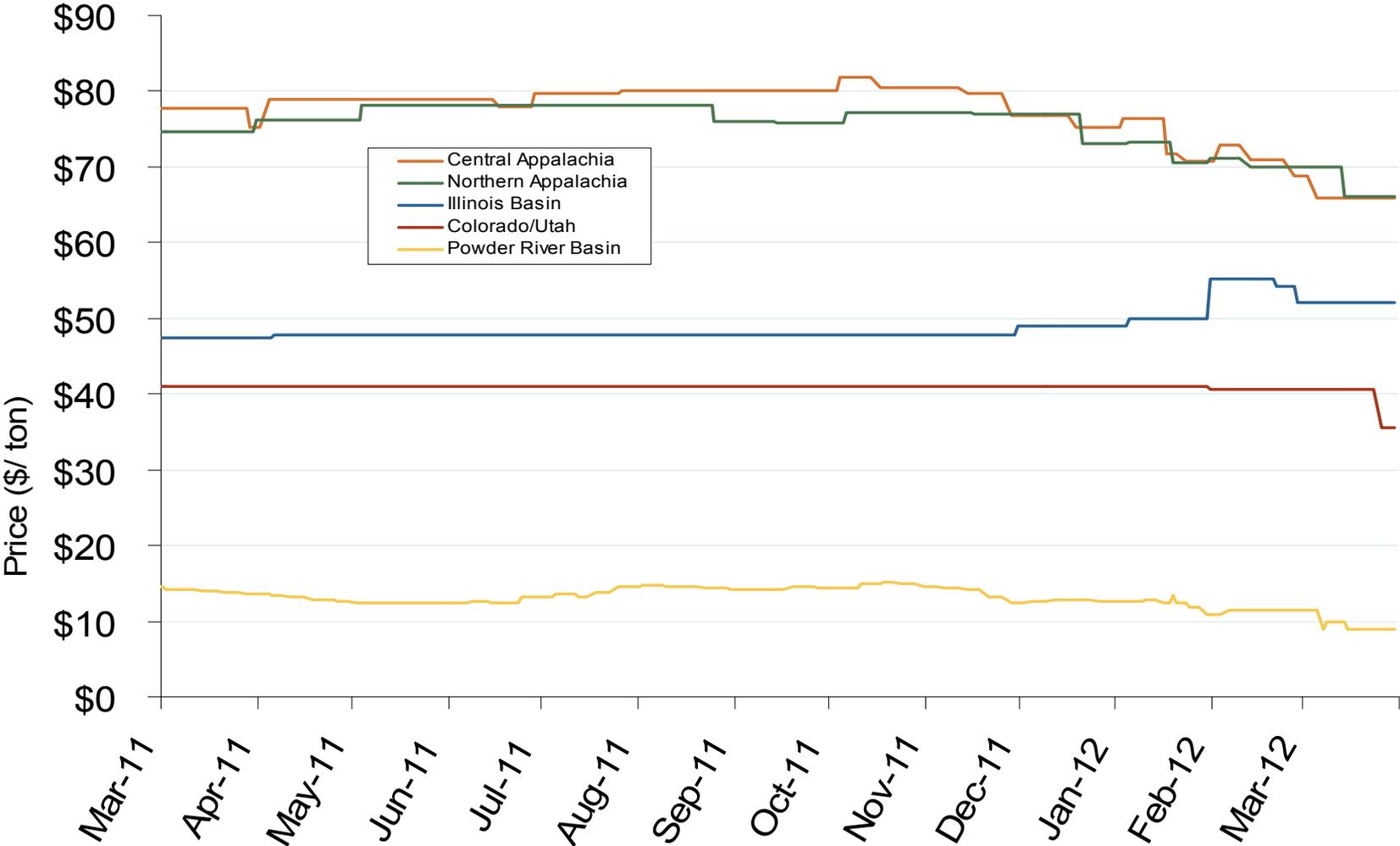
Oil, Coal, Natural Gas and Propane Daily Spot Prices



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

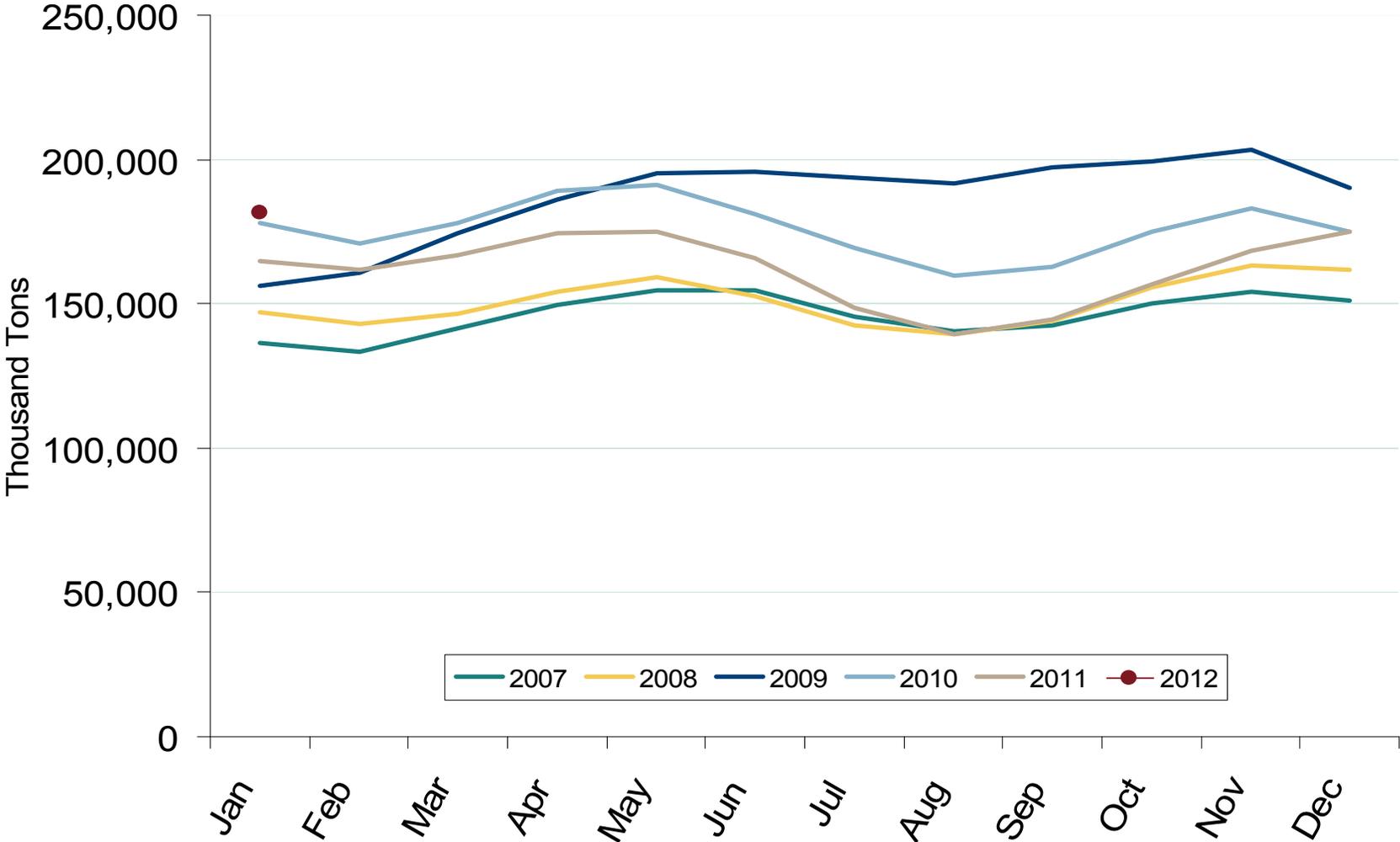
Source: Derived from Bloomberg data

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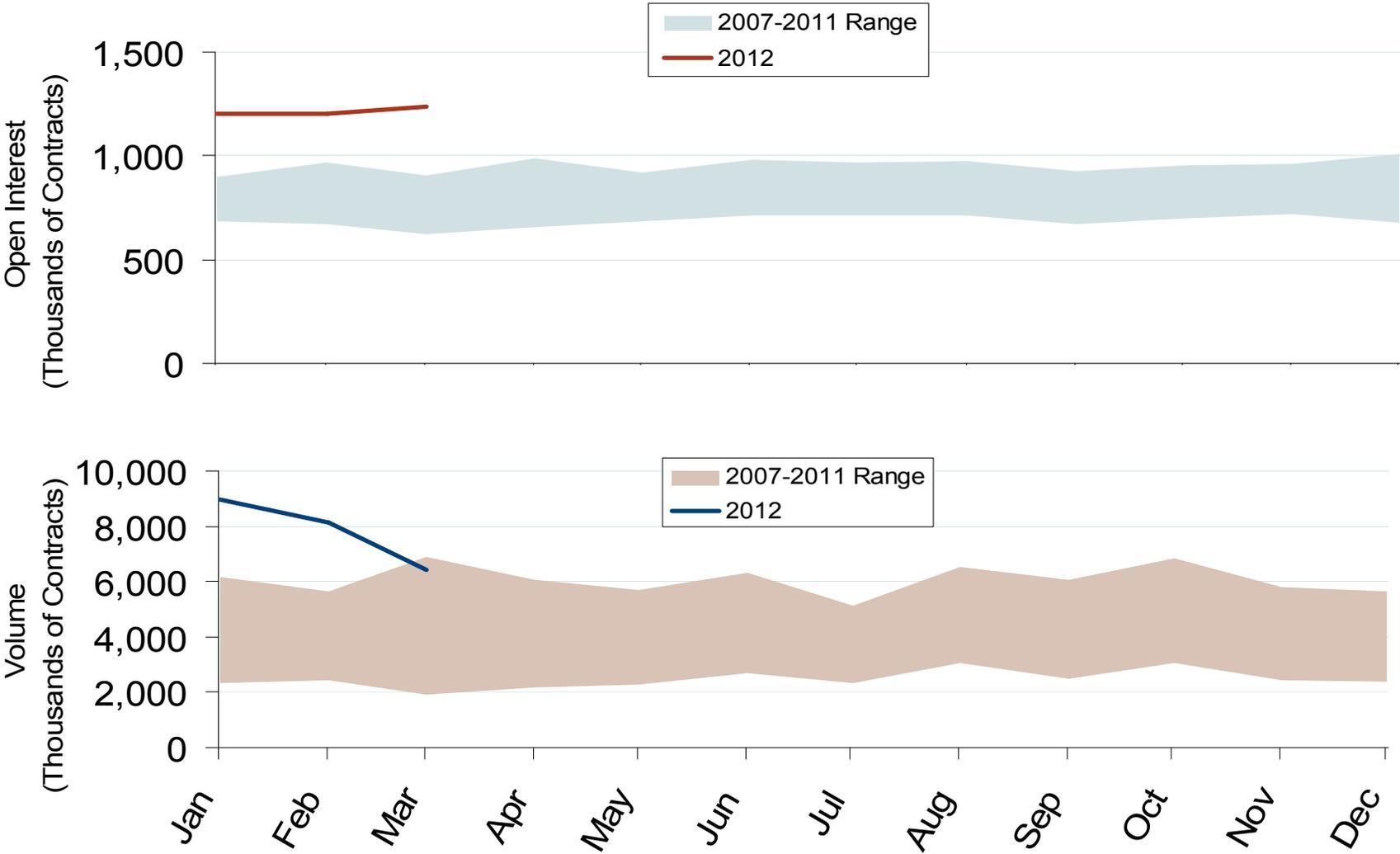
U.S. Coal Stockpiles at Electric Power Generating Facilities



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

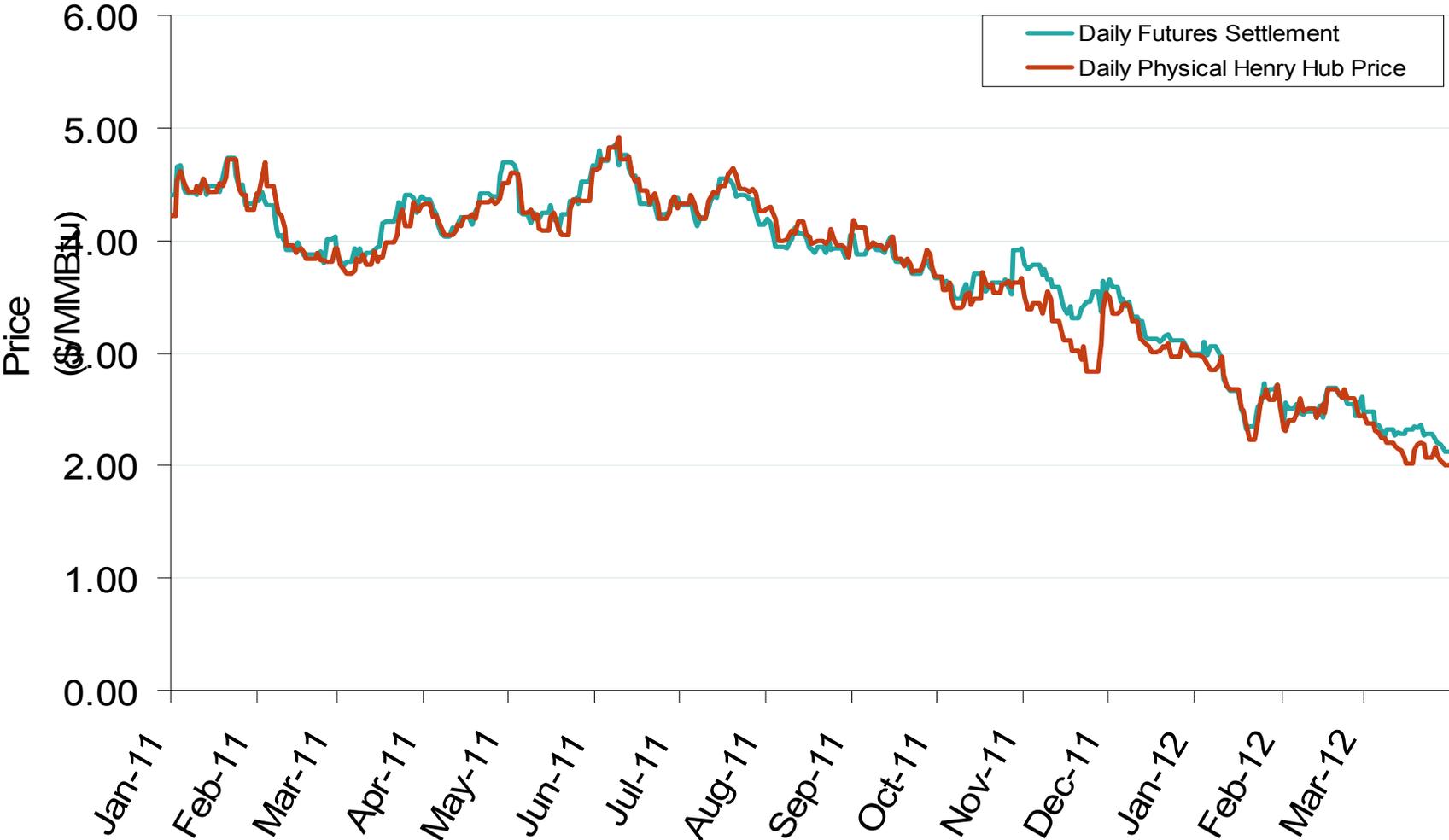
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Nymex NG Futures Month-End Open Interest and Monthly Volume



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Daily Physical Index Price & Daily Futures Settlement Price

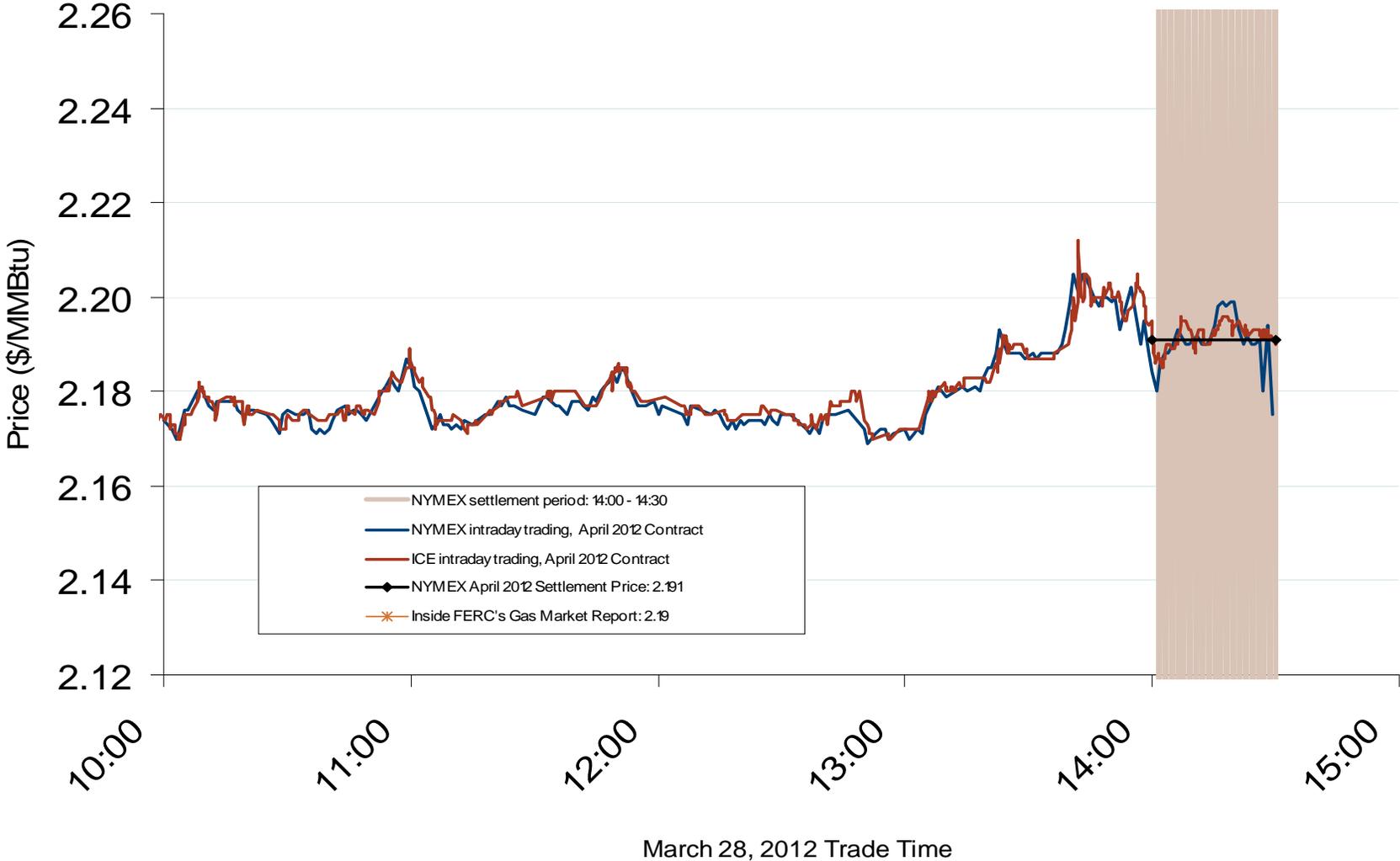


Source: Derived from *Bloomberg* data
April 2012 Southeast Snapshot Report

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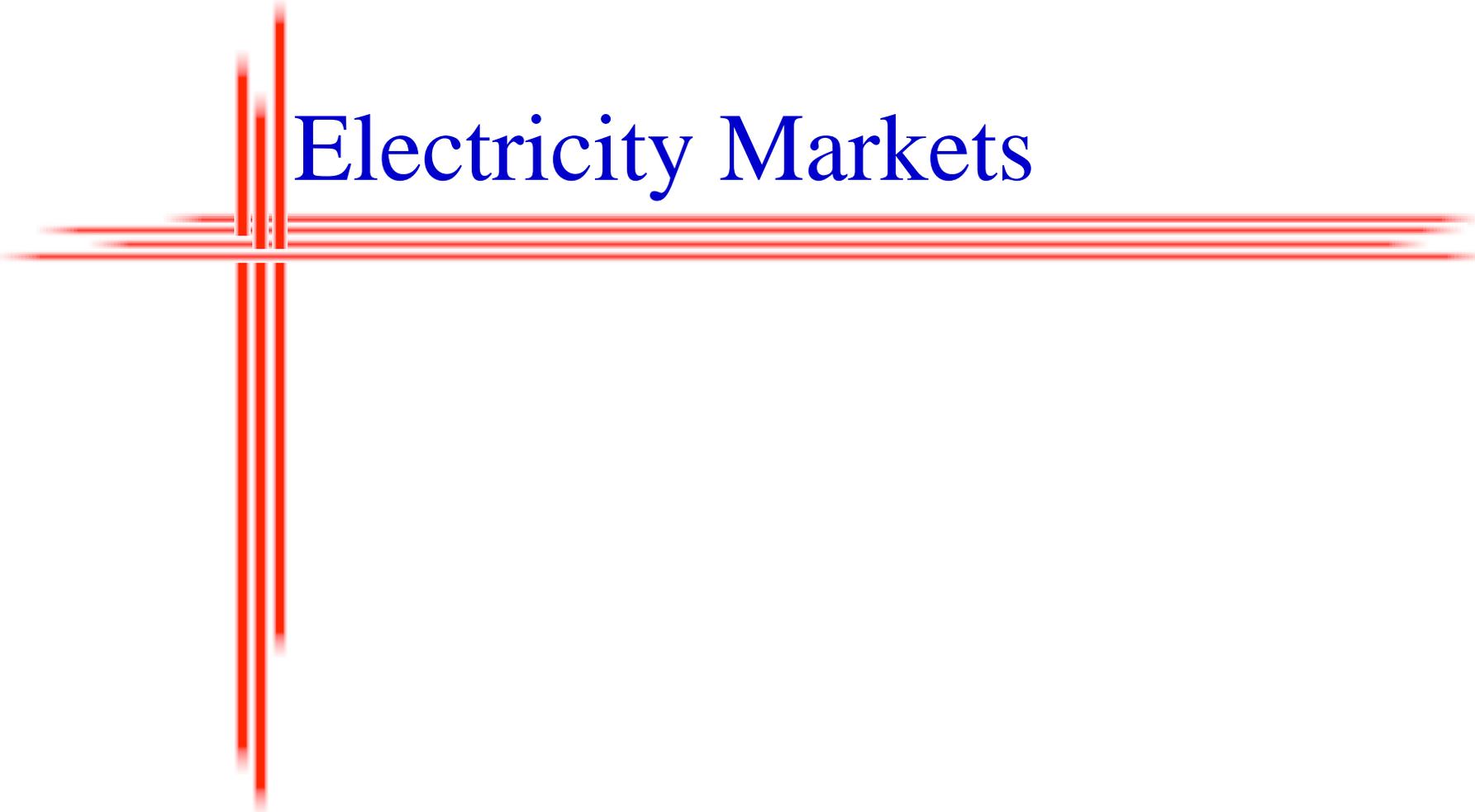
Nymex and ICE Contract Final Settlement - April 2012



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
April 2012 Southeast Snapshot Report

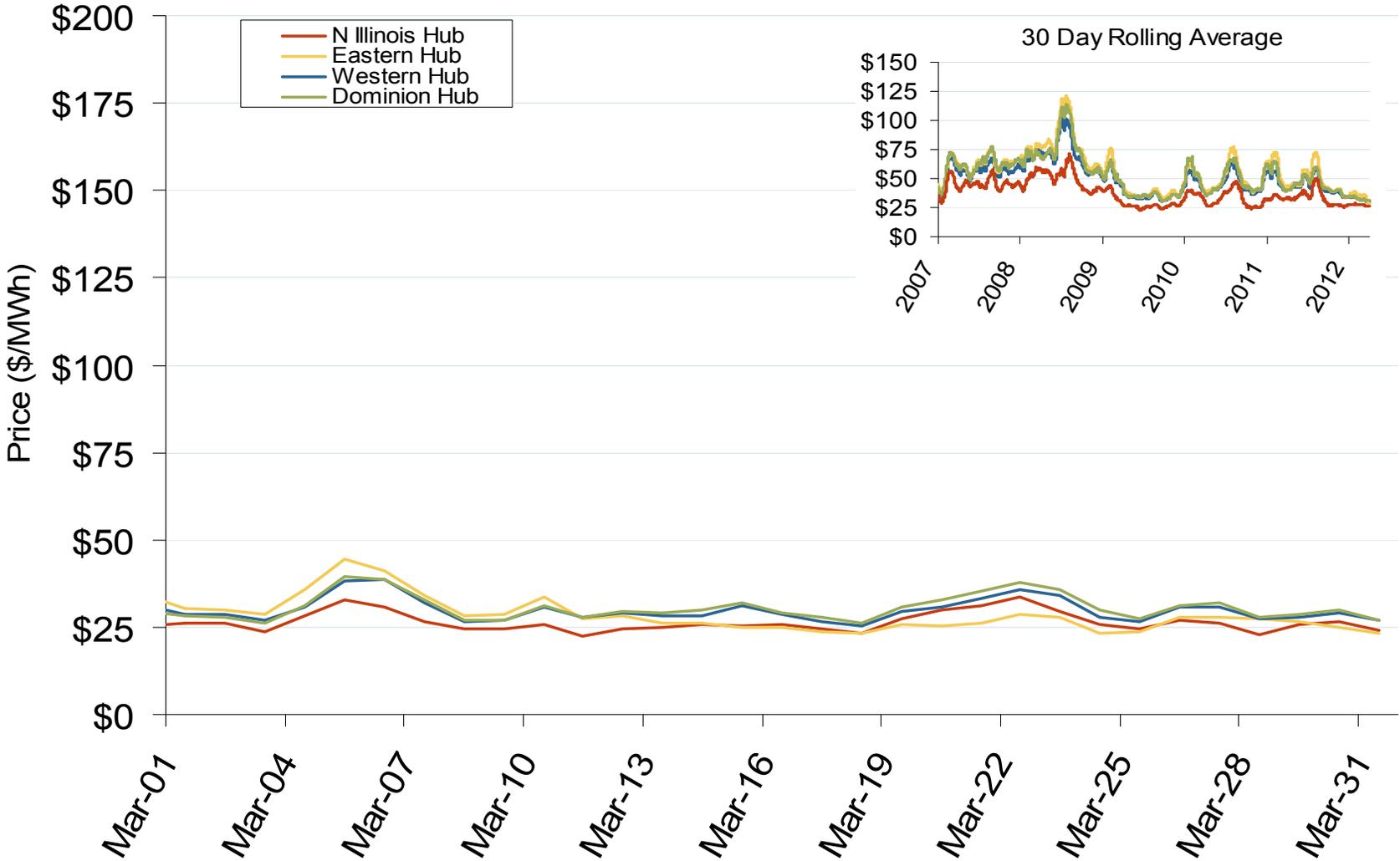
Updated: April 19, 2012



Electricity Markets

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Daily Average of PJM Day-Ahead Prices - All Hours



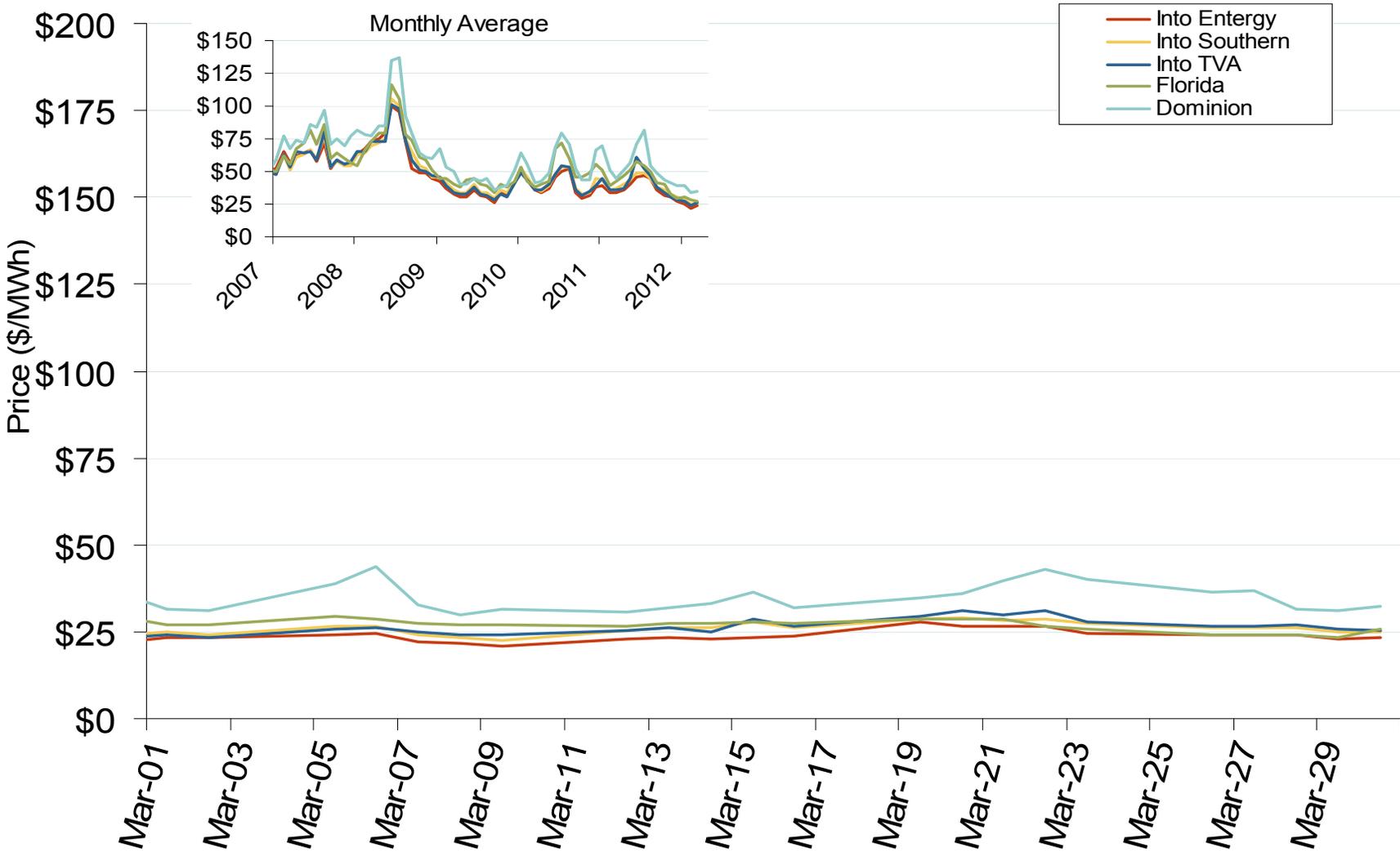
Source: Derived from Bloomberg data
April 2012 Southeast Snapshot Report

Updated: April 17, 2012

Southeast Electric Market: Last Month's Southeastern Index Prices

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Southeastern Daily Index Day-Ahead On-Peak Prices



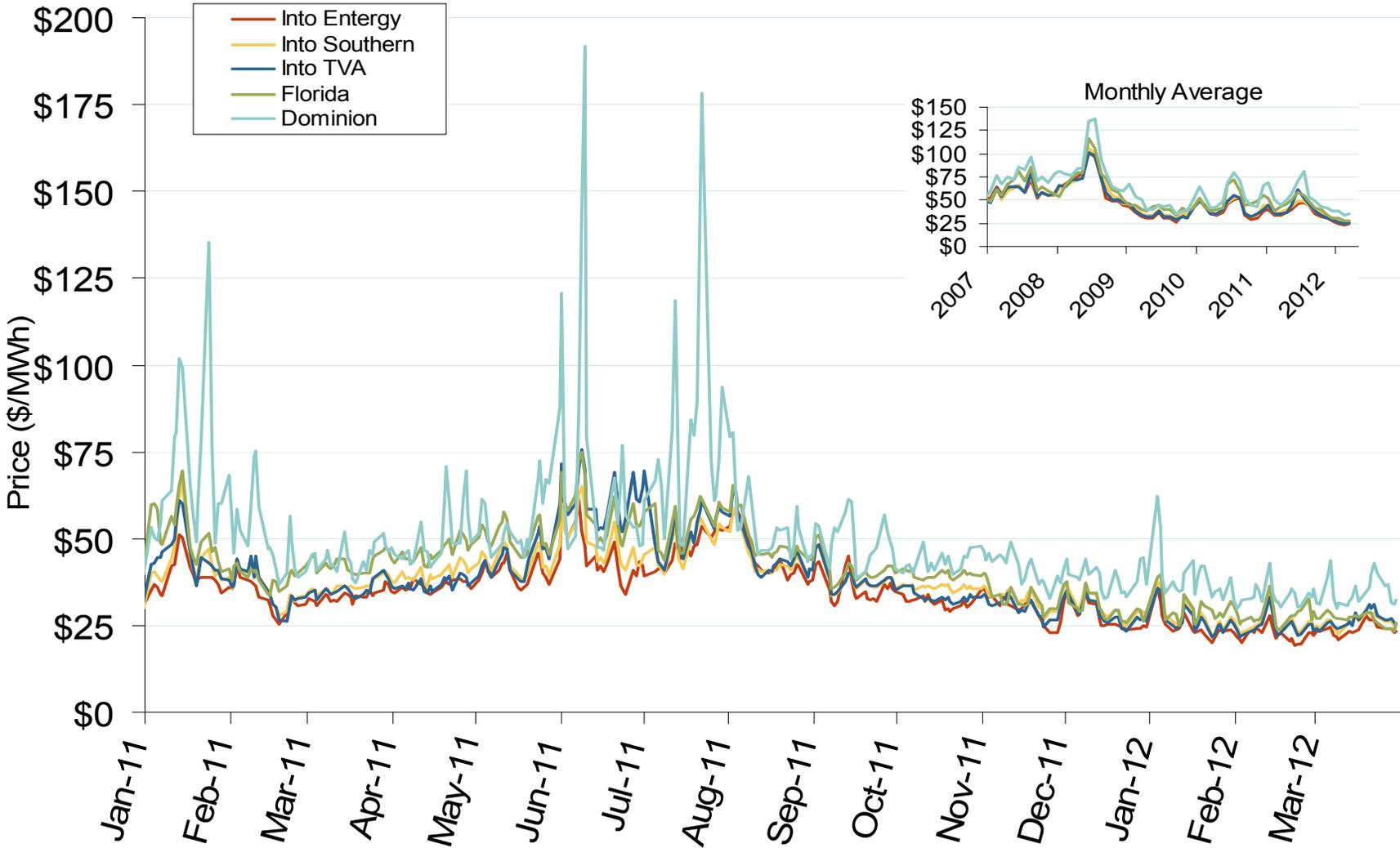
Source: Derived from Platts data
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Southeast Electric Market: Southeastern Index Prices

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Southeastern Daily Index Day-Ahead On-Peak Prices



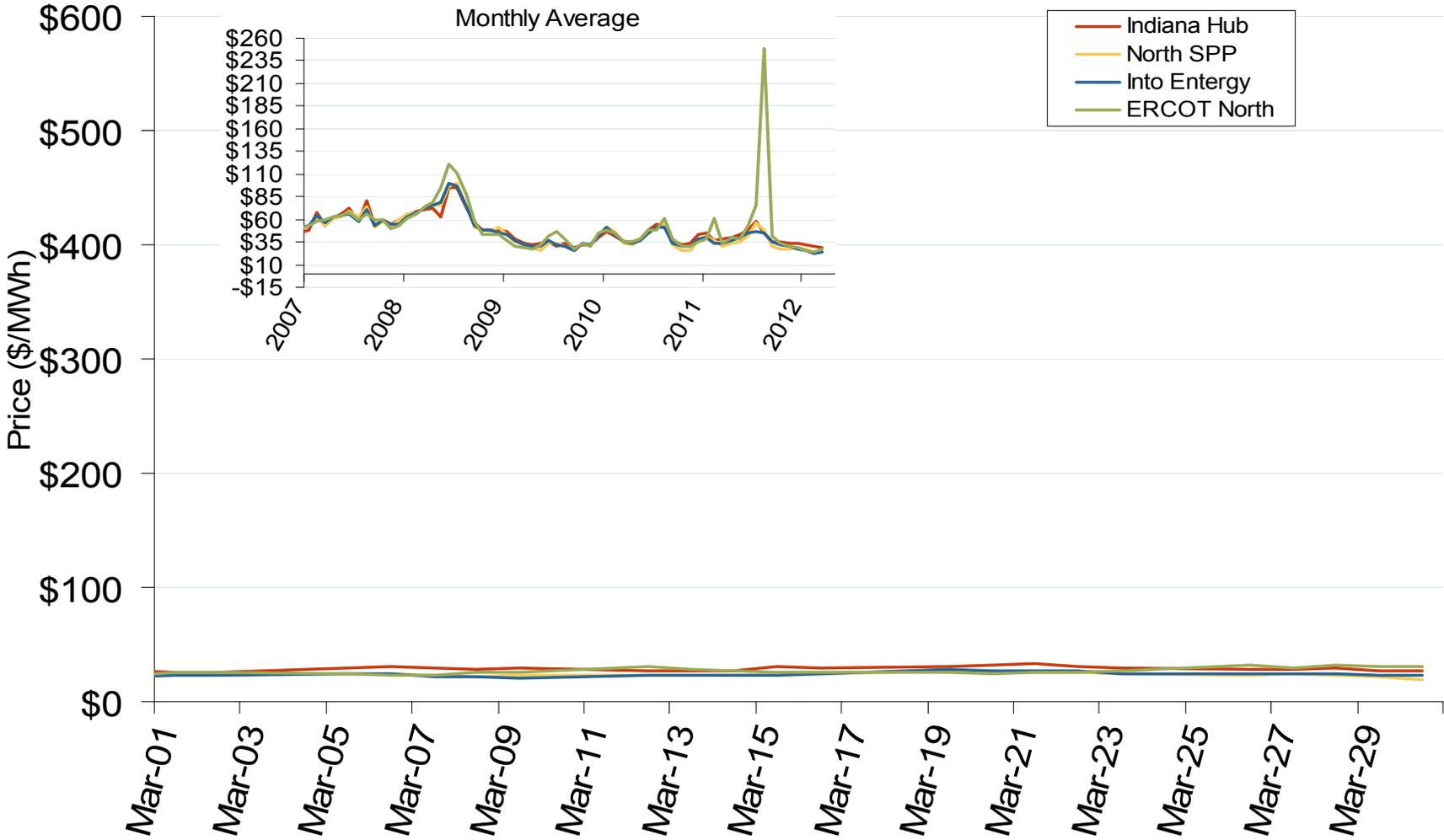
Source: Derived from Platts data
April 2012 Southeast Snapshot Report

Updated: April 06, 2012

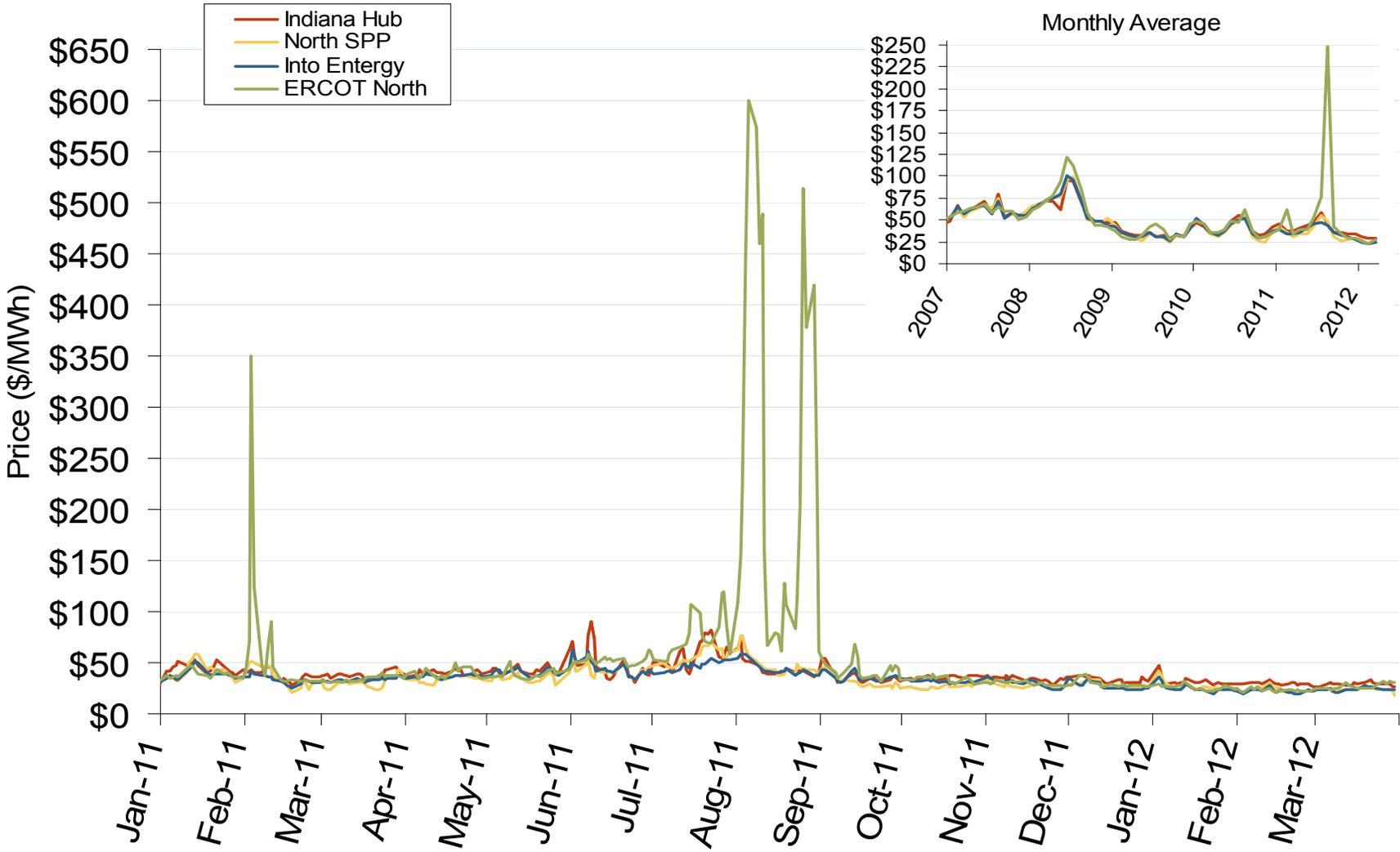
Southeast Electric Market: Last Month's Midwestern Index Prices

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Midwestern Daily Index Day-Ahead On-Peak Prices



Midwestern Daily Index Day-Ahead On-Peak Prices



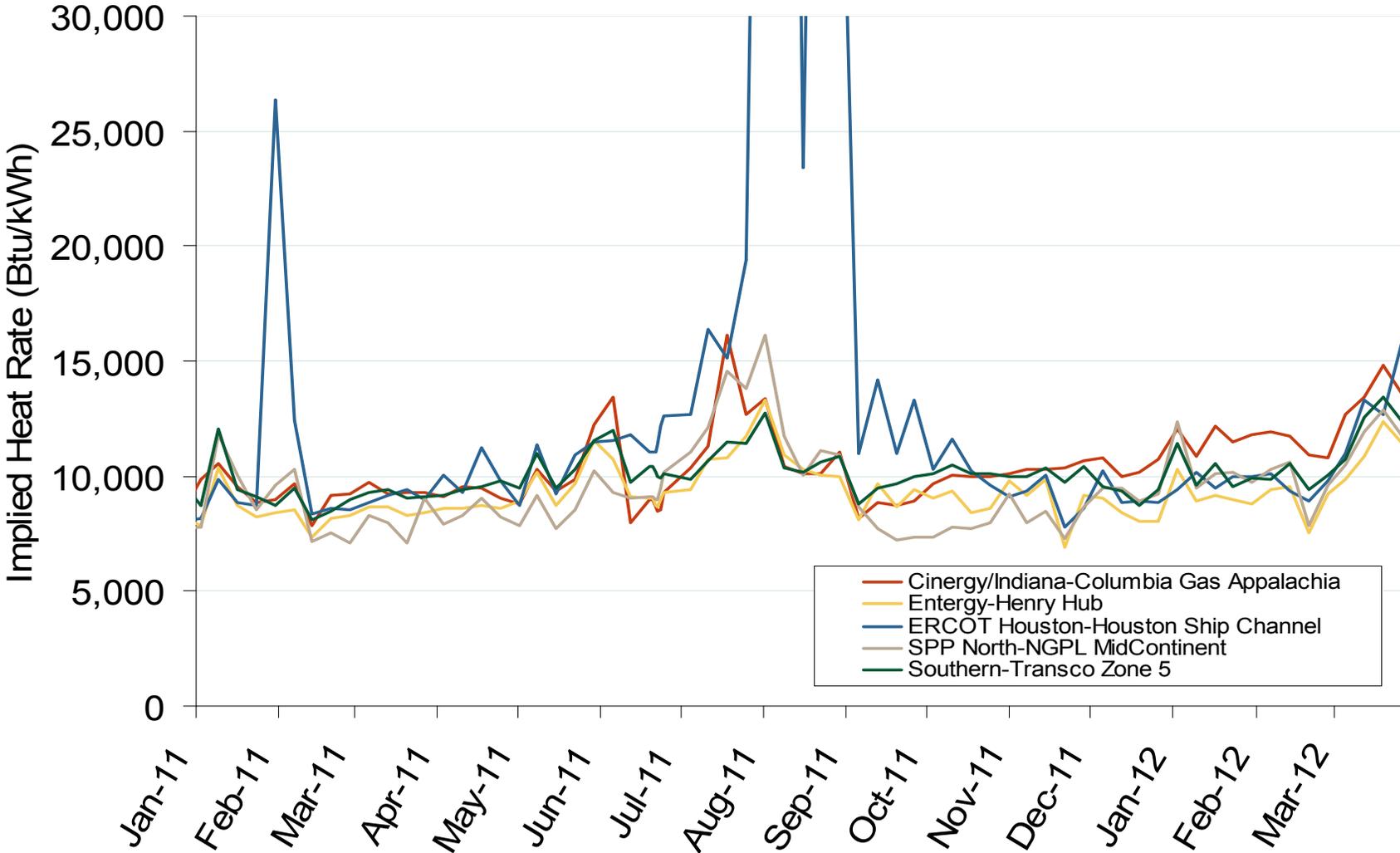
Source: Derived from *Platts* data
April 2012 Southeast Snapshot Report

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Southeast Electric Market: South Central Implied Heat Rates

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Implied Heat Rates at South Central Trading Points - Weekly Avgs.

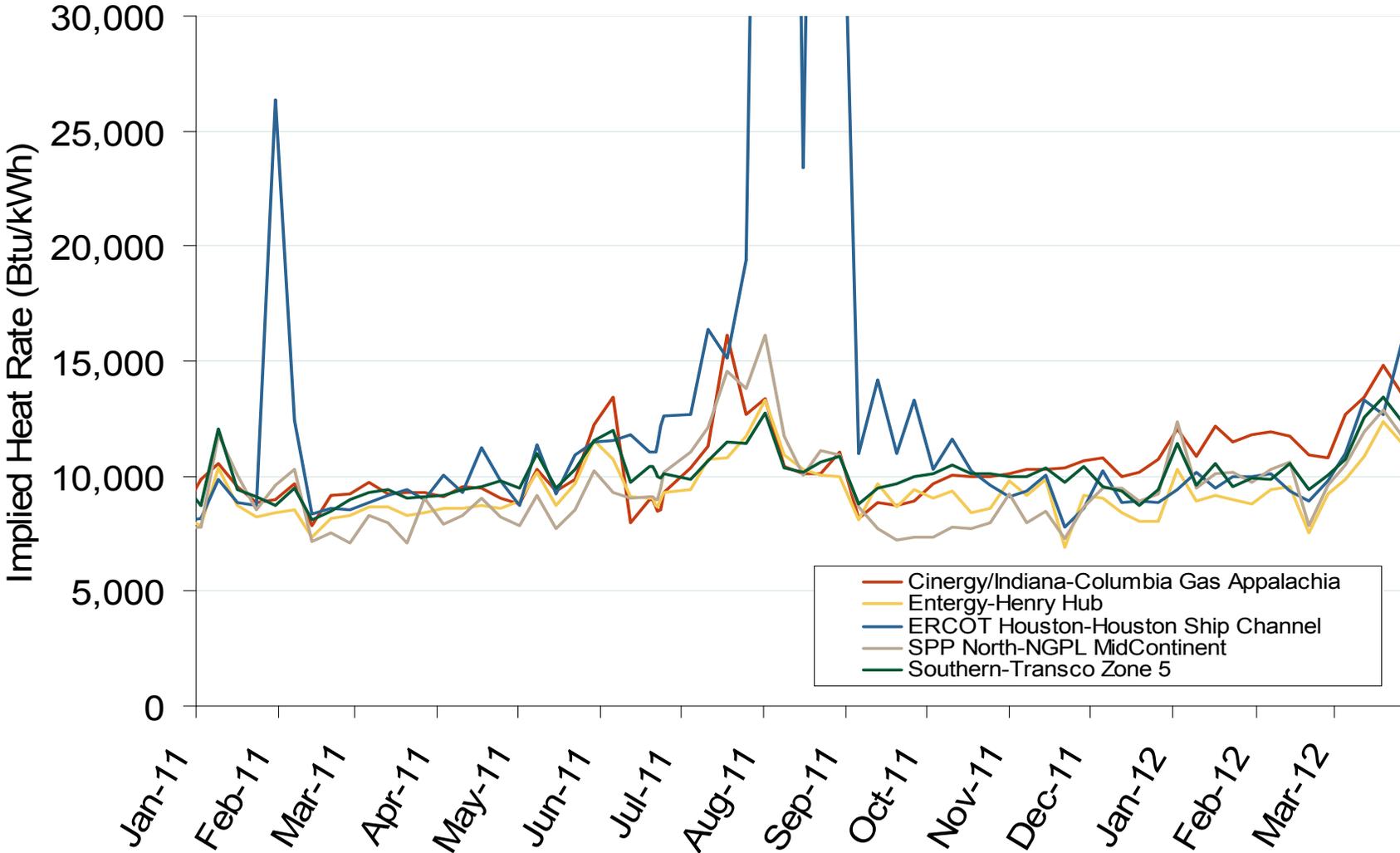


Source: Derived from Platts on-peak electric and natural gas price data
April 2012 Southeast Snapshot Report

Updated: April 06, 2012

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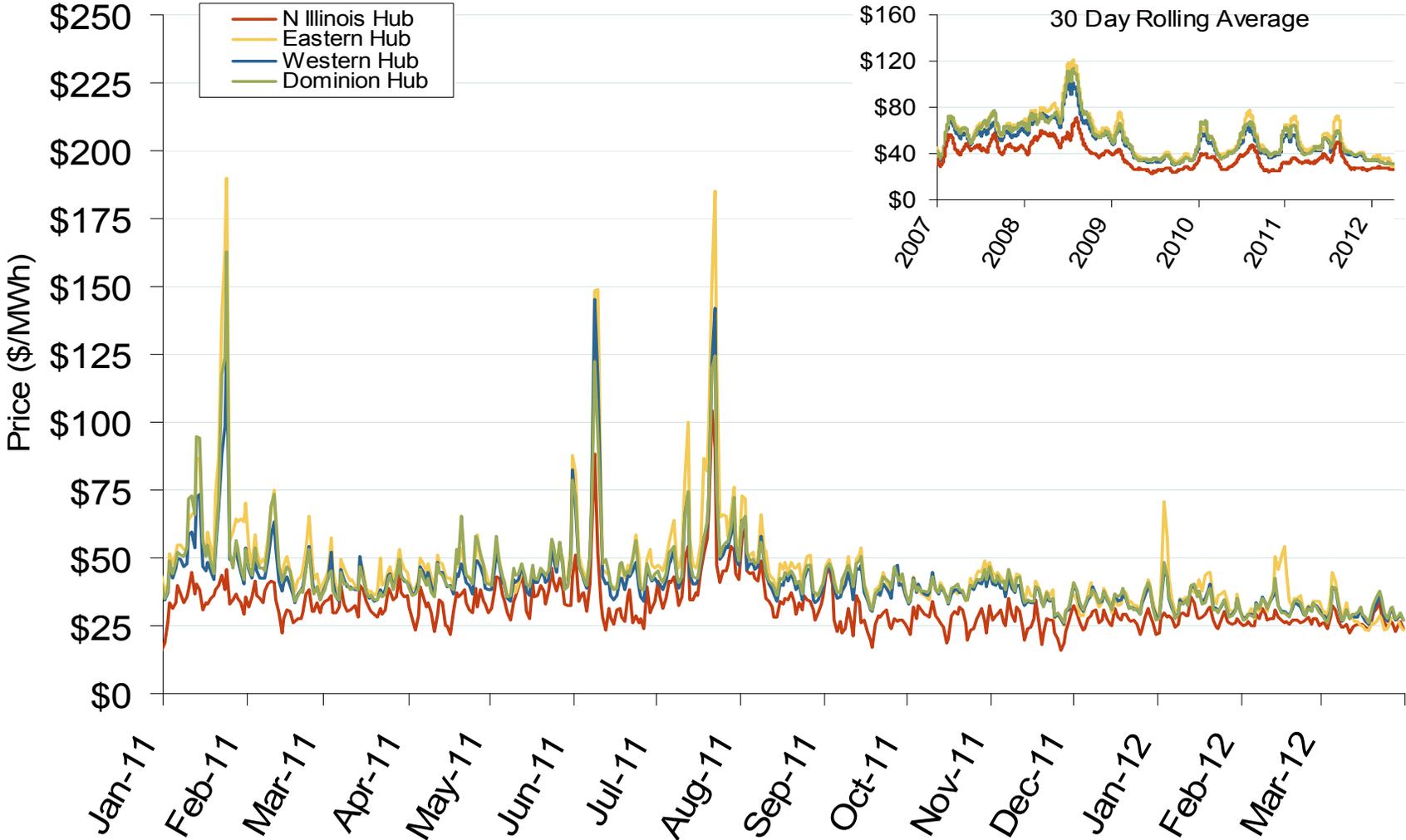
Implied Heat Rates at South Central Trading Points - Weekly Avgs.



Source: Derived from Platts on-peak electric and natural gas price data
April 2012 Southeast Snapshot Report

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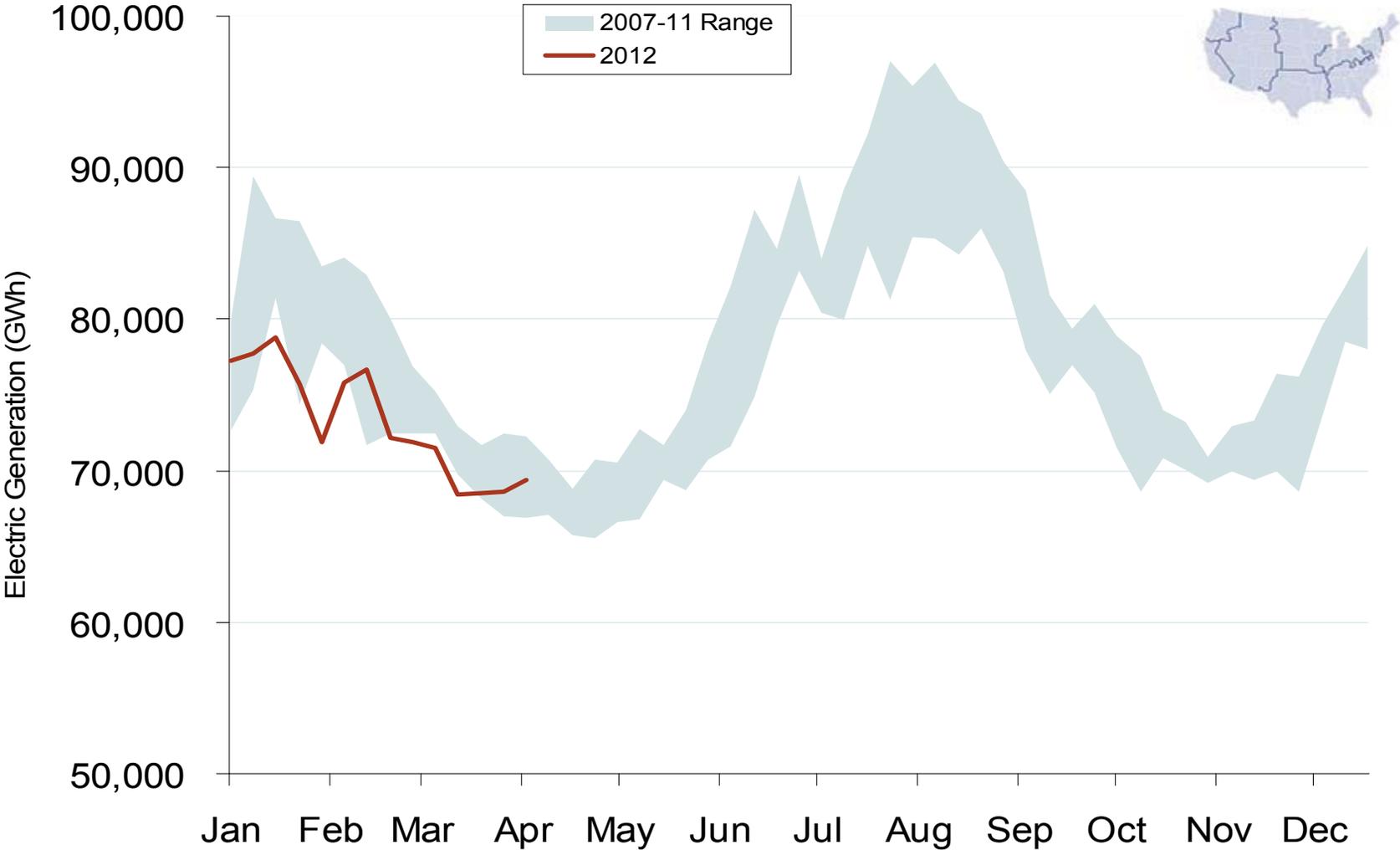
Daily Average of PJM Day-Ahead Prices - All Hours



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

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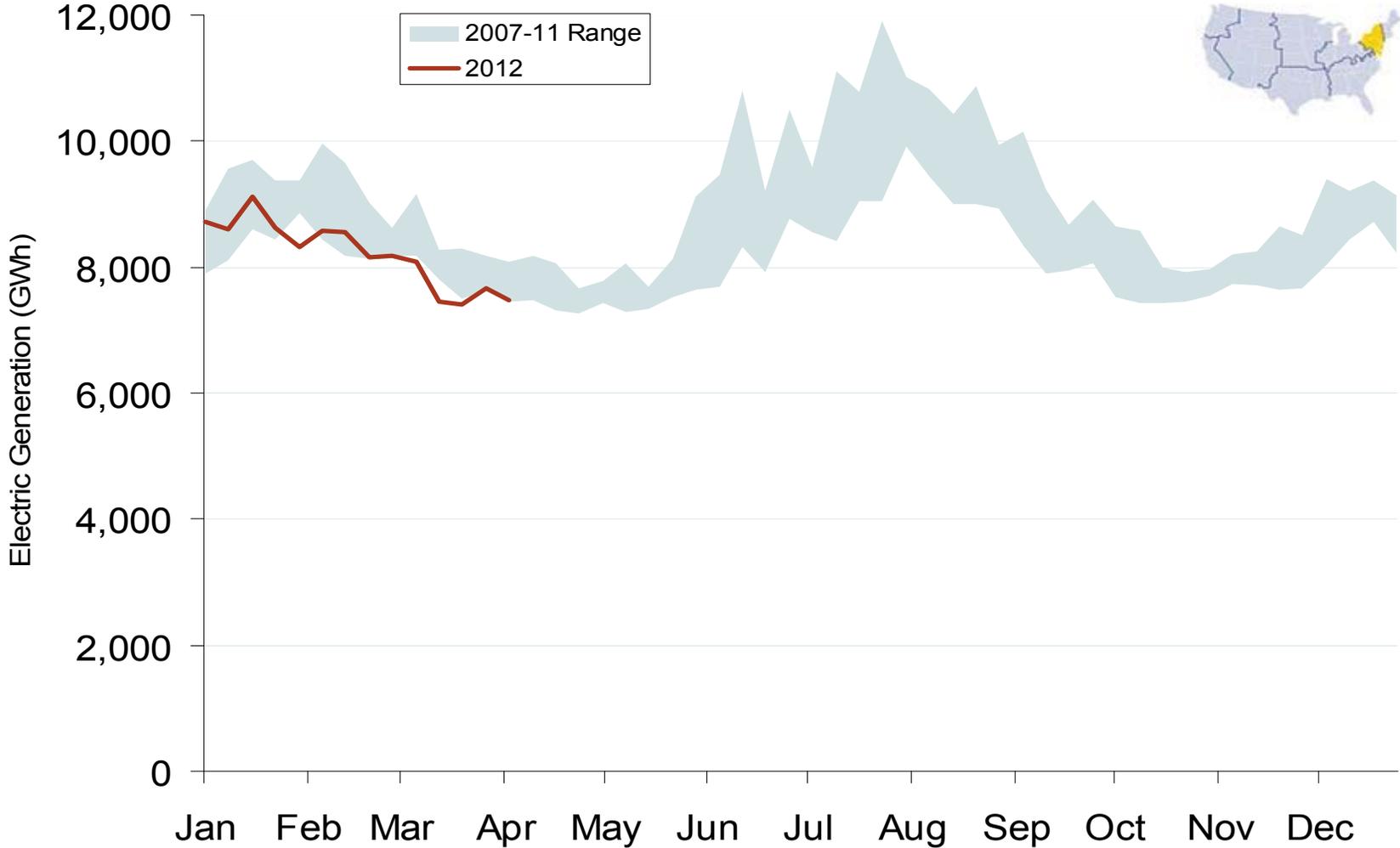
Weekly U.S. Electric Generation Output



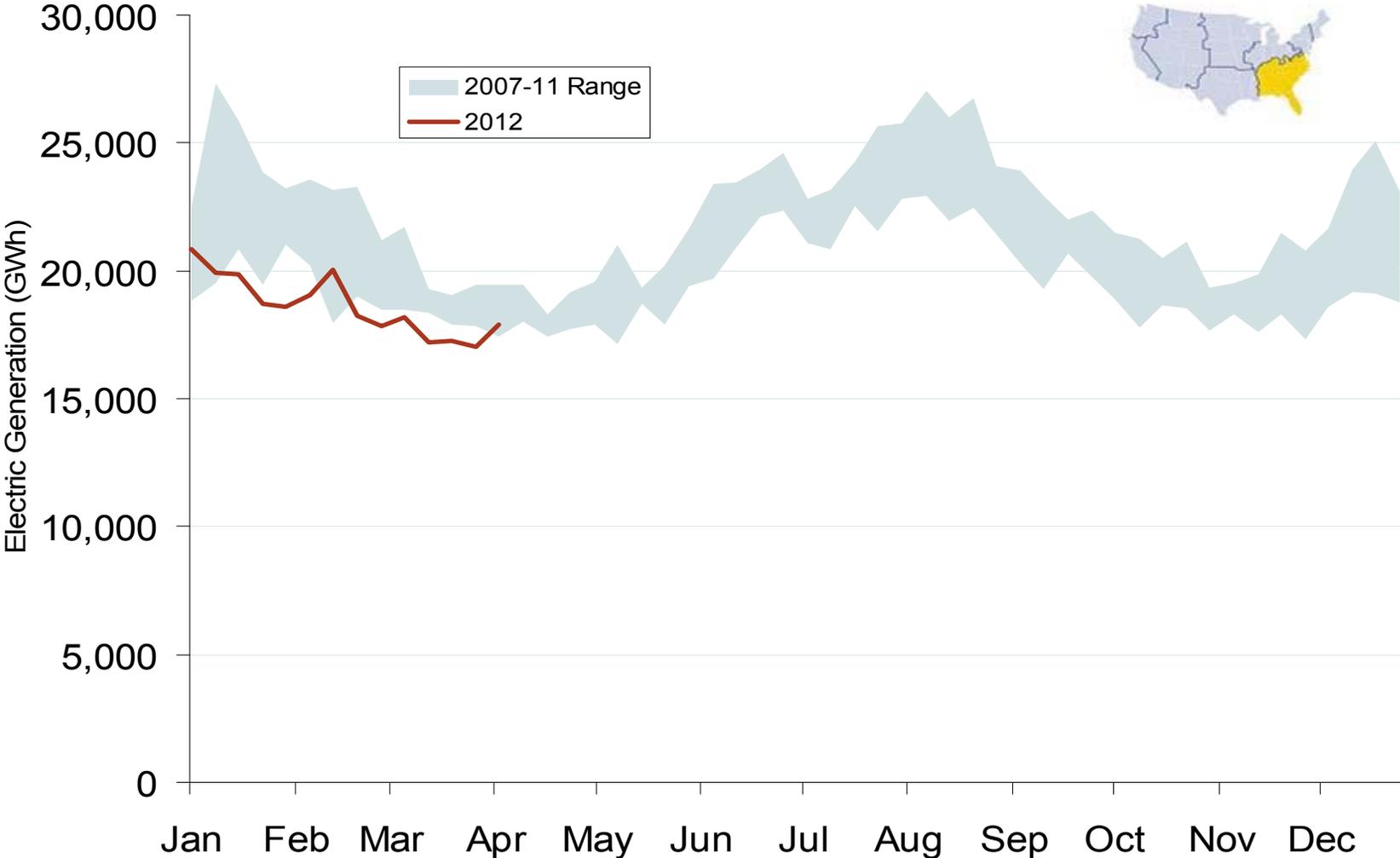
Source: Derived from *EEI* data
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Weekly Generation Output - Mid Atlantic



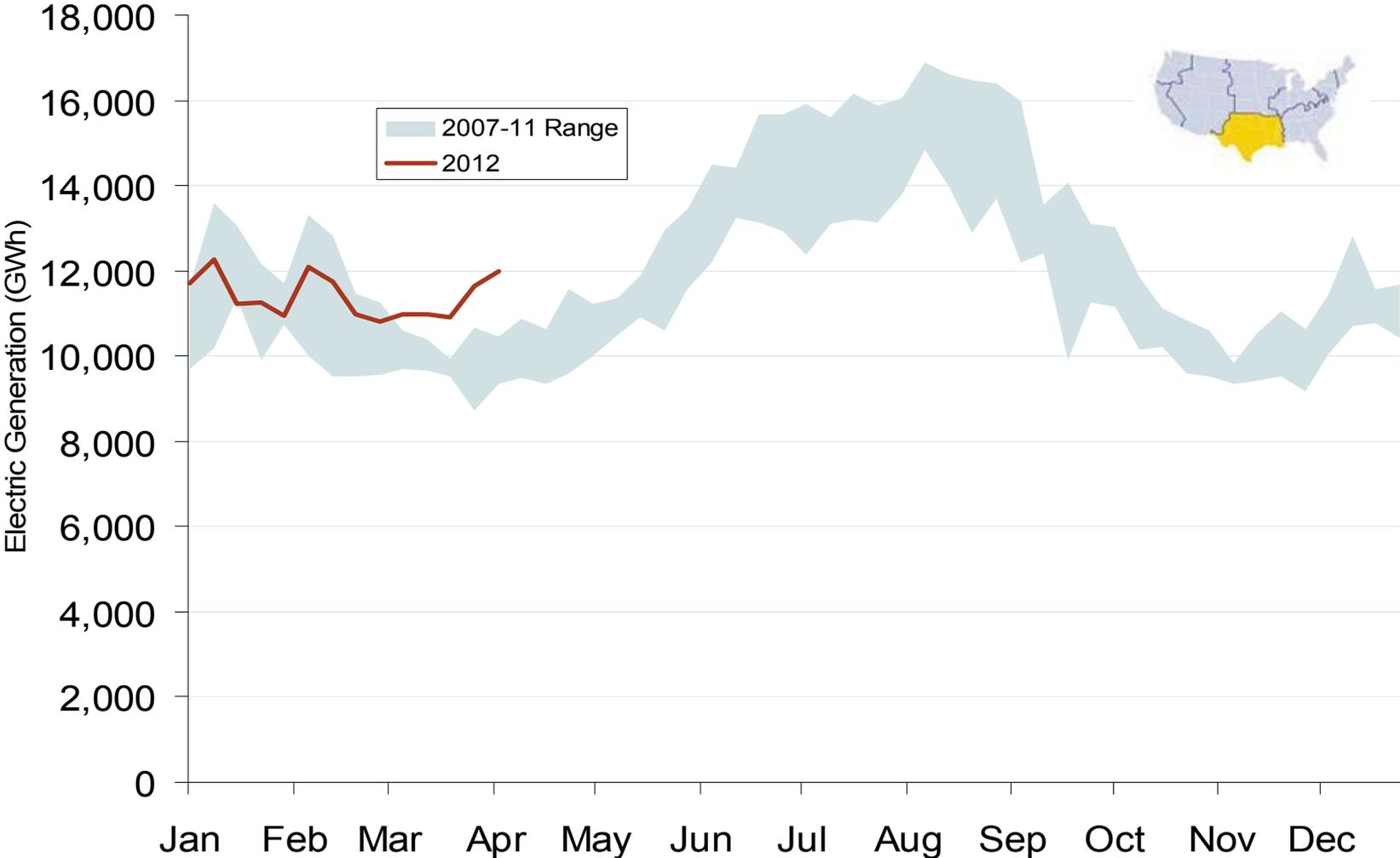
Weekly Generation Output - Southeast



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

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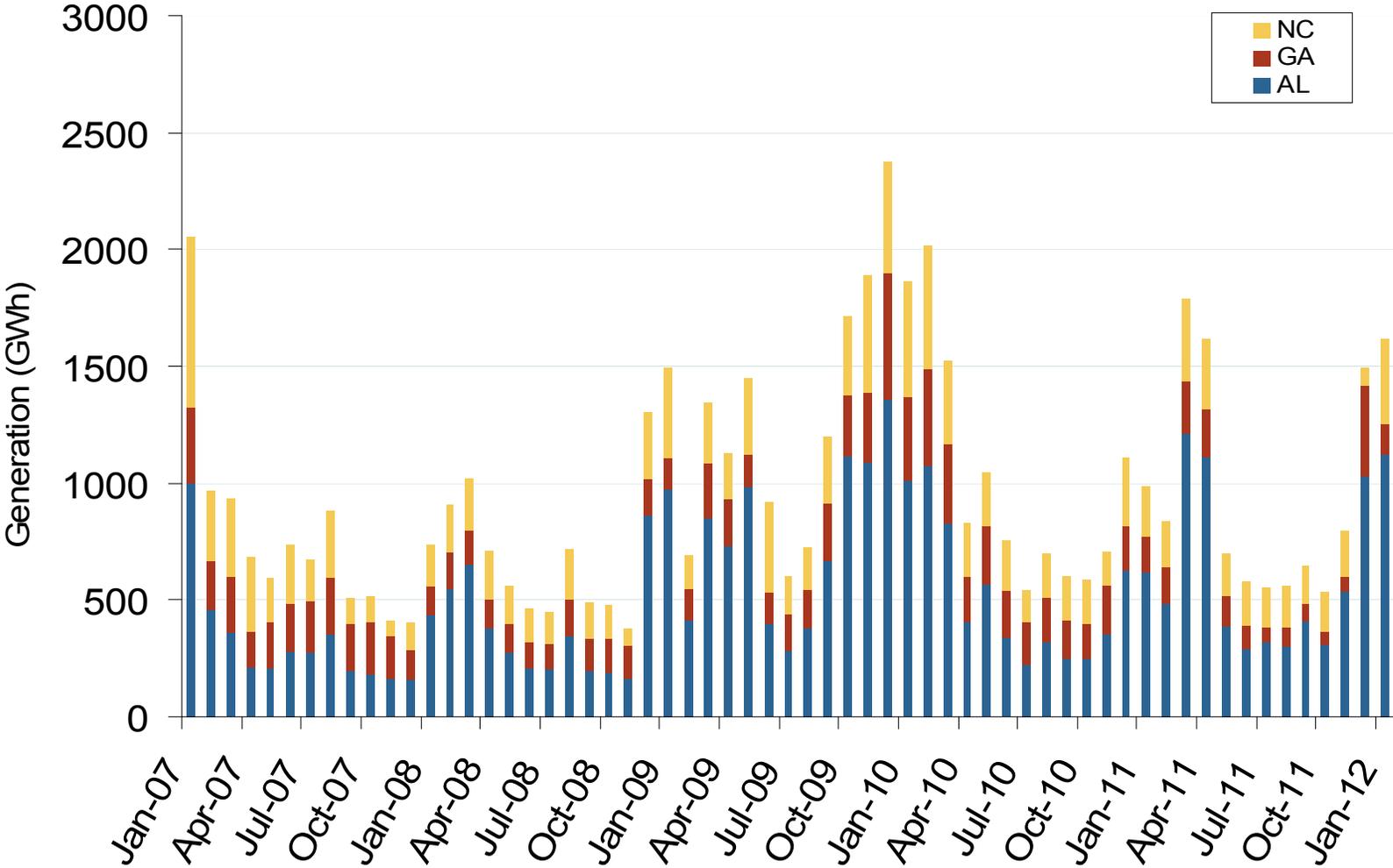
Weekly Generation Output - South Central



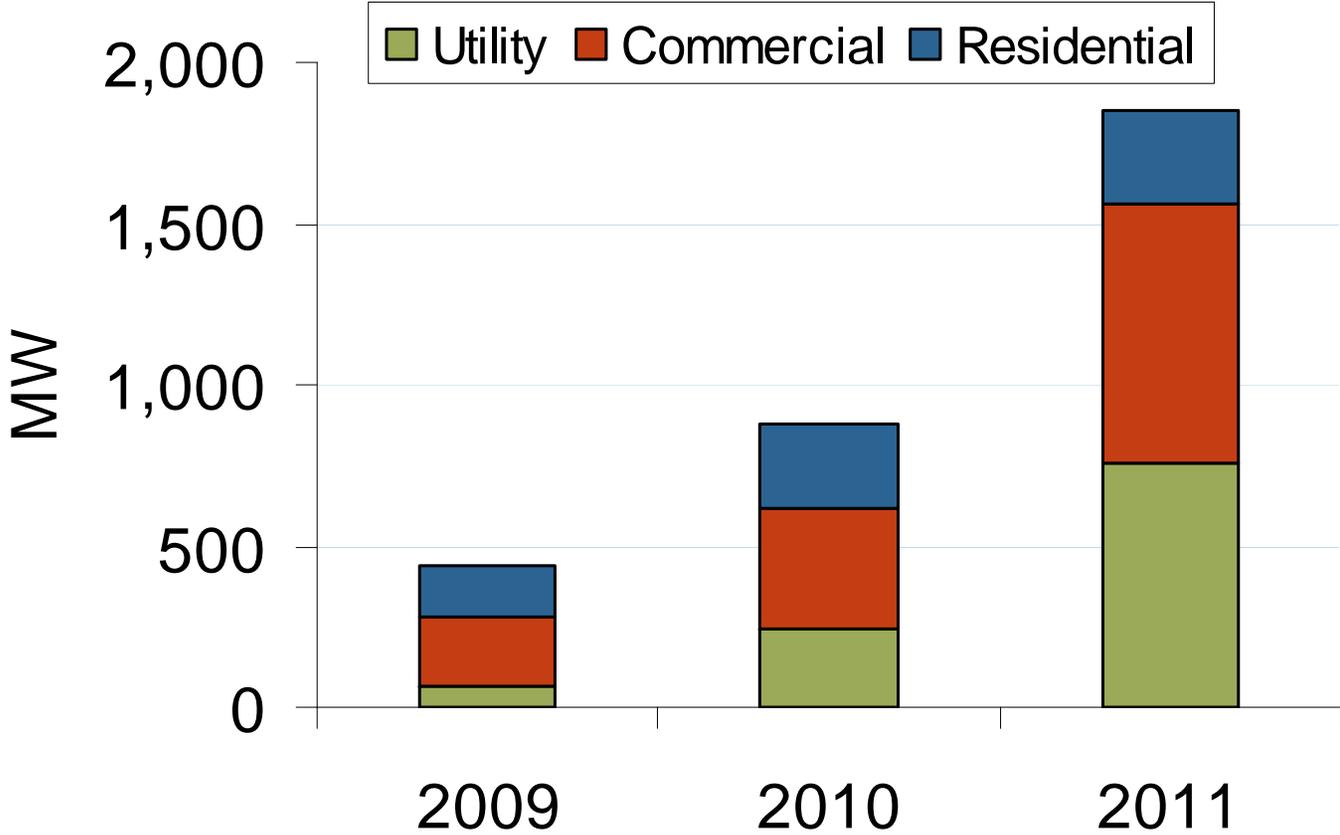
Source: Derived from *EEI* data
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Updated: April 19, 2012

Monthly Southeastern Hydroelectric Generation



New Grid-connected PV Capacity Doubles Again in 2011



Source: derived from Solar Energy Industry Association and GTM Research data

Updated April 2, 2012