

# **OE ENERGY MARKET SNAPSHOT**

## **Southeast States Version – April 2012 Data**

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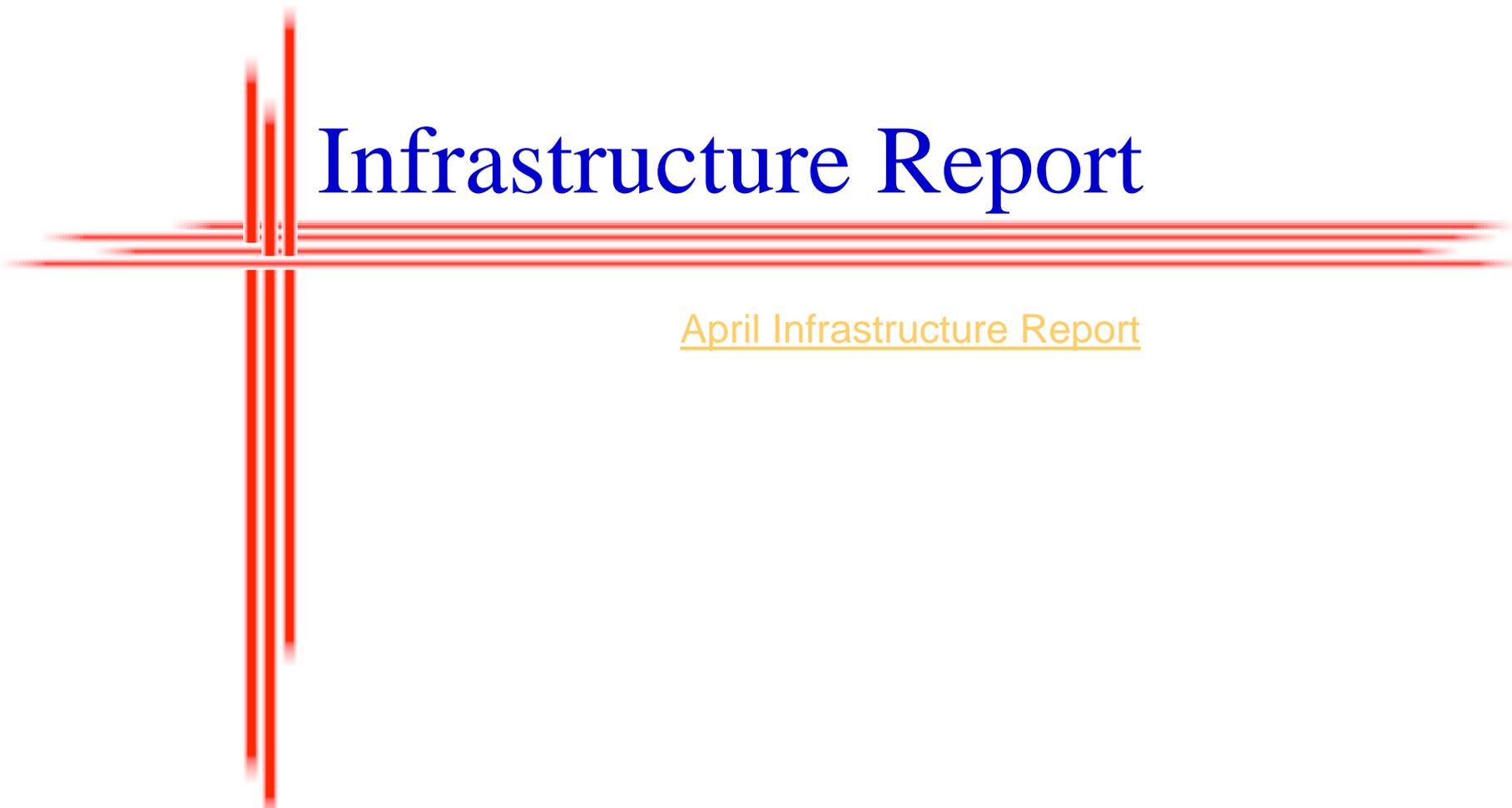
Office of Enforcement  
Federal Energy Regulatory Commission  
May 2012



# Summer 2012 Energy Market and Reliability Assessment

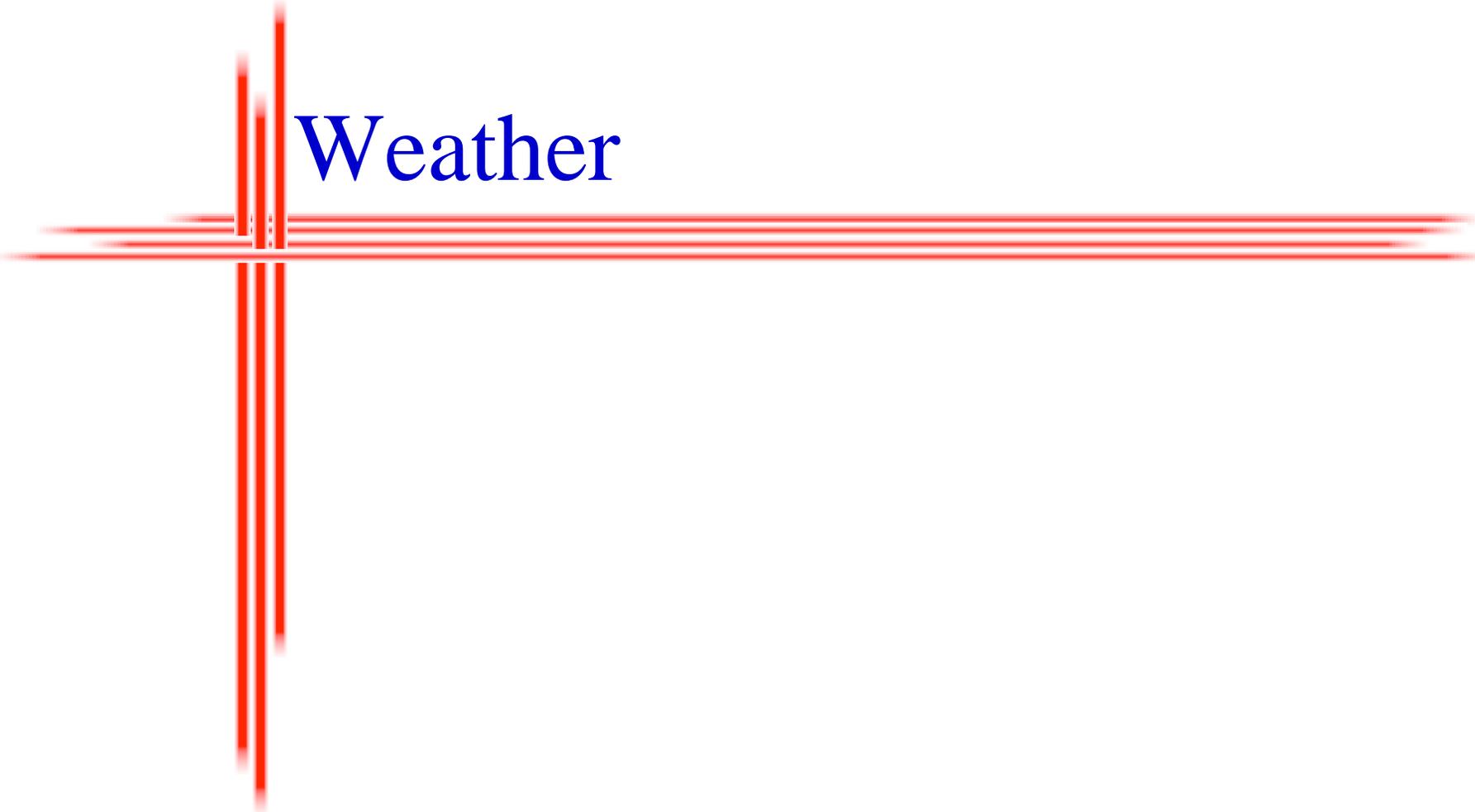
**Item No: A-3**  
**May 17, 2012**

<http://www.ferc.gov/market-oversight/reports-analyses/mkt-views/2012/05-17-12.pdf>



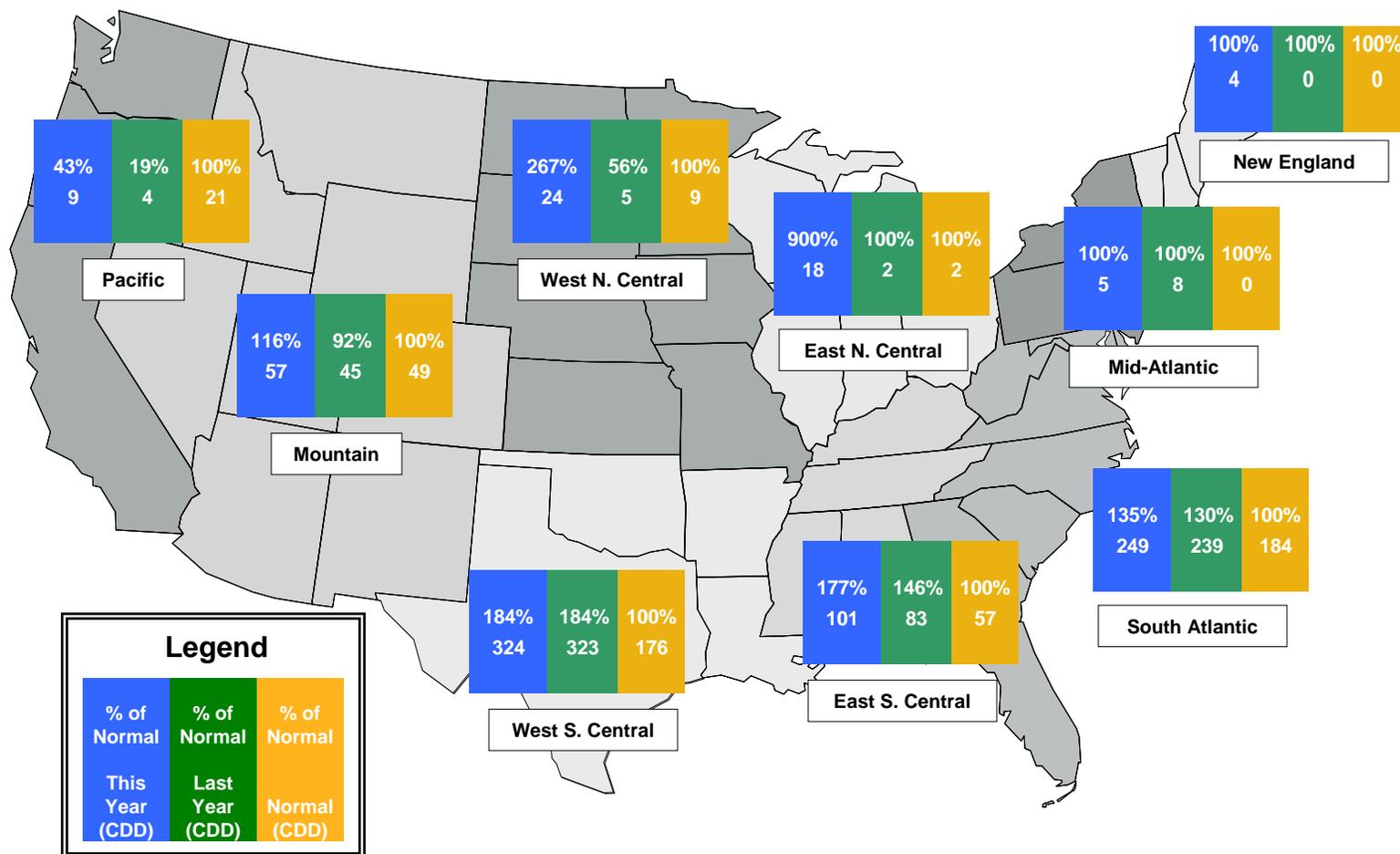
# Infrastructure Report

April Infrastructure Report



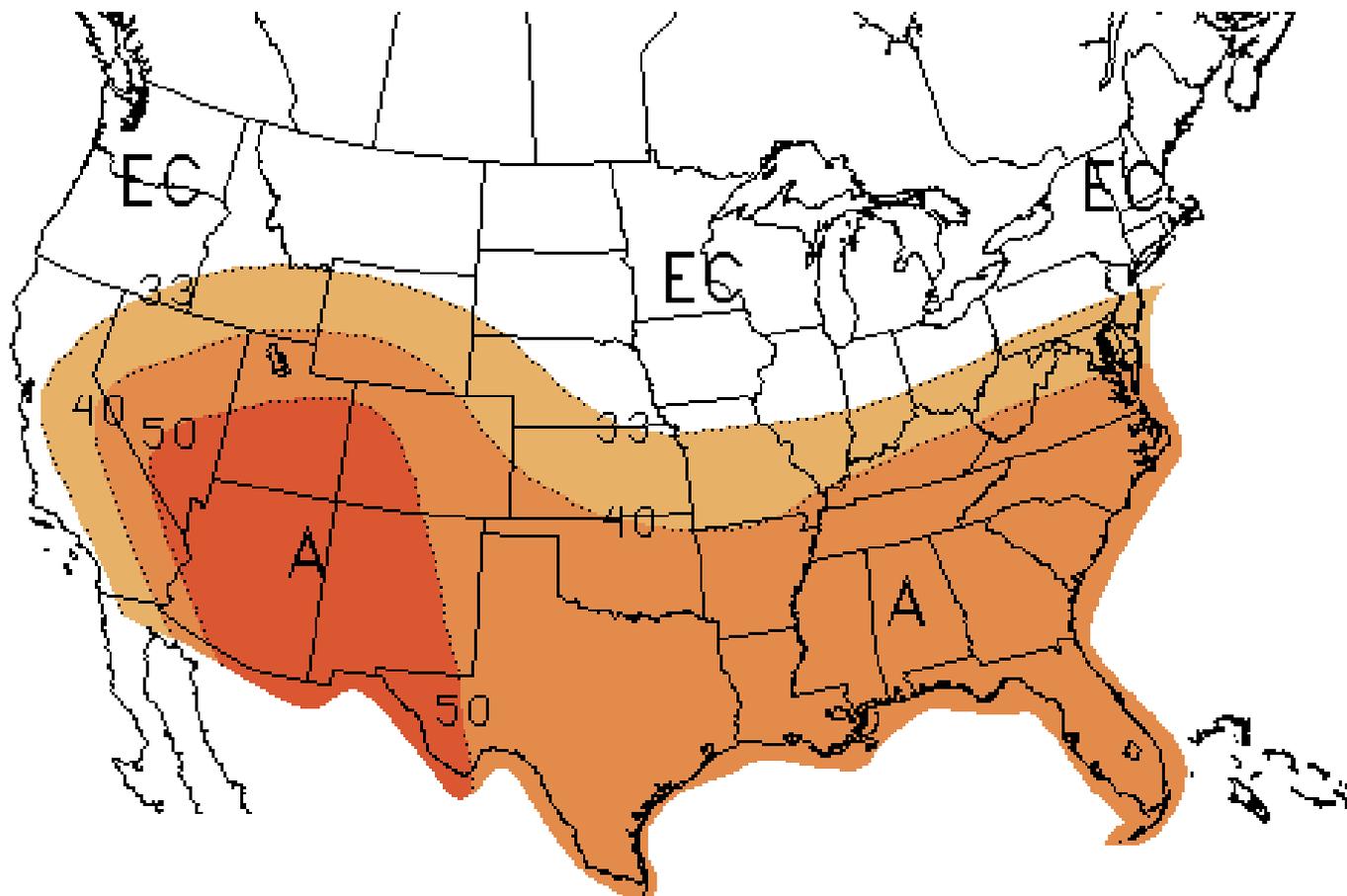
# Weather

## Regional Cooling Degree Days – January to April 2012



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

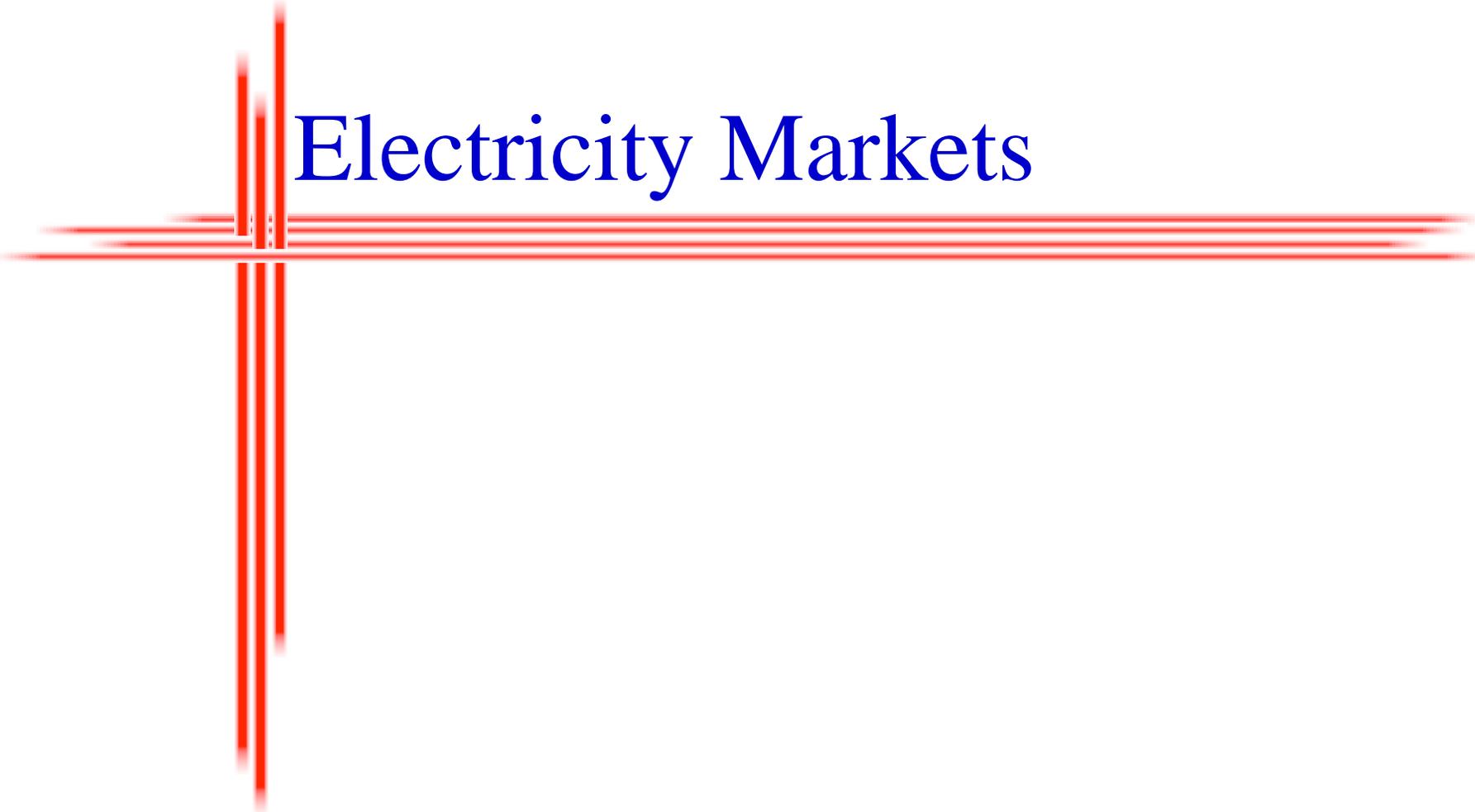
## NOAA's 3 Month Temperature Forecast Made May 17, 2012, Valid for June 2012 – August 2012



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: May 19, 2012

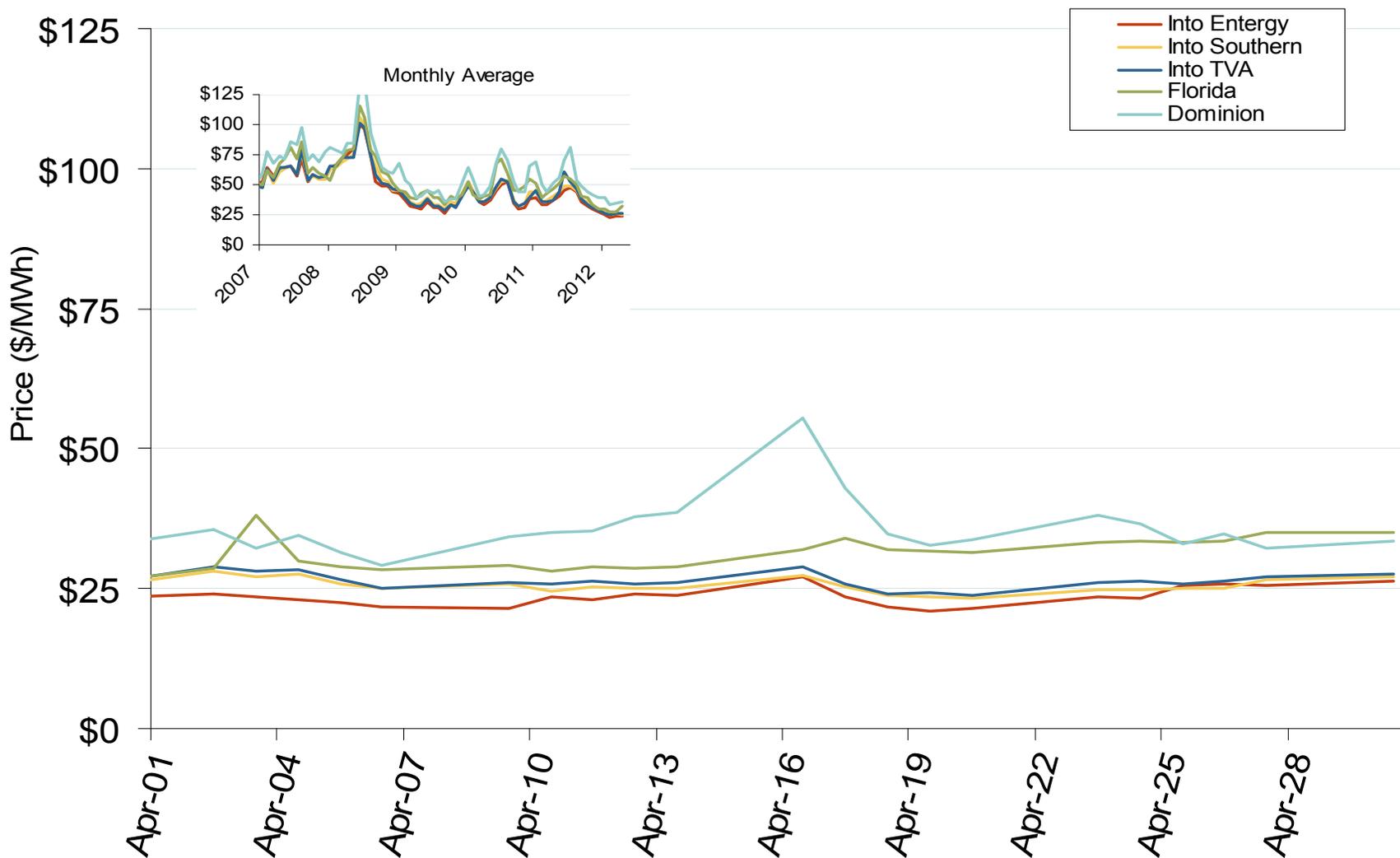


# Electricity Markets

Southeast Electric Market: Last Month's Southeastern Index Prices

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

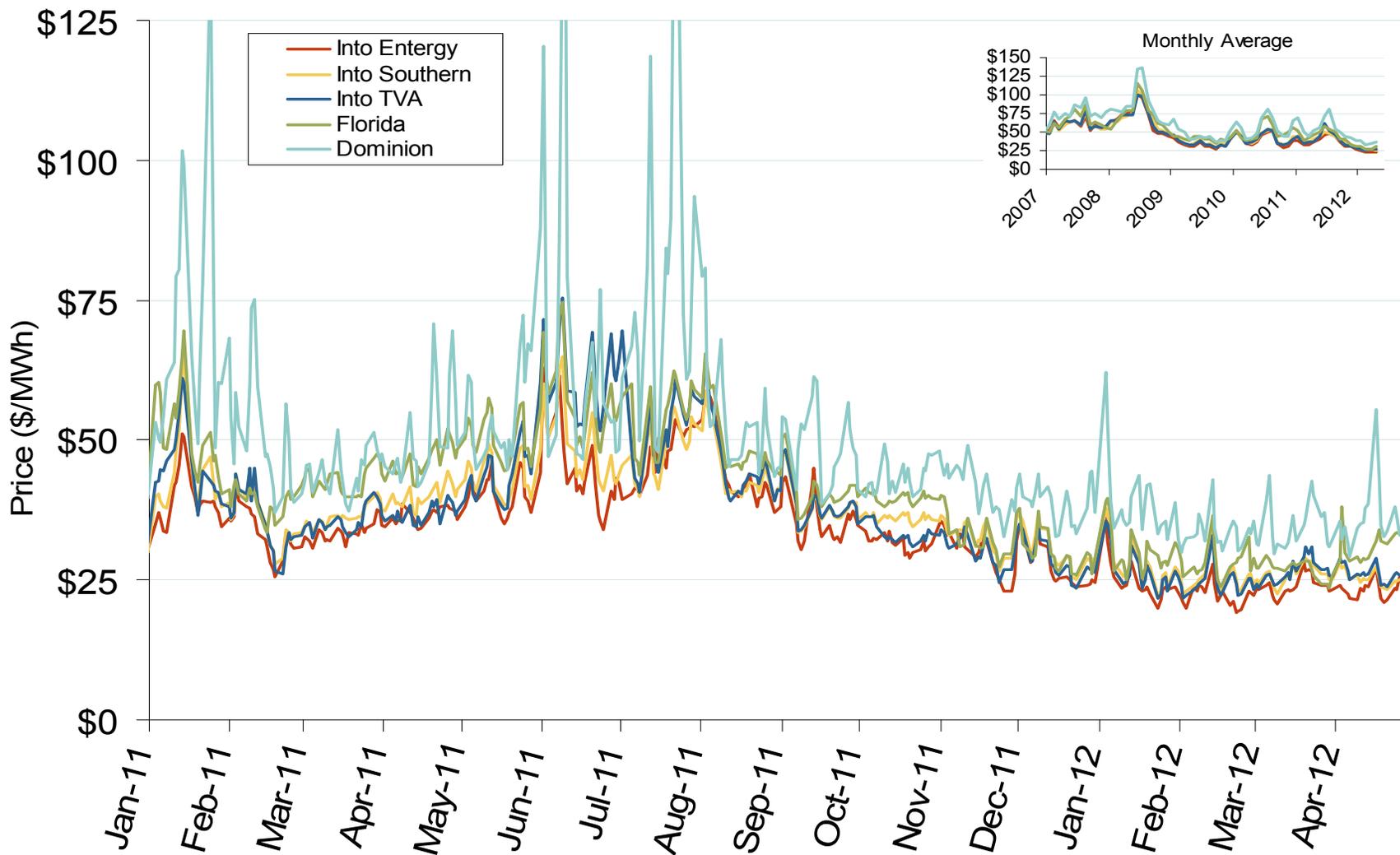
**Southeastern Daily Index Day-Ahead On-Peak Prices**



Southeast Electric Market: Southeastern Index Prices

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

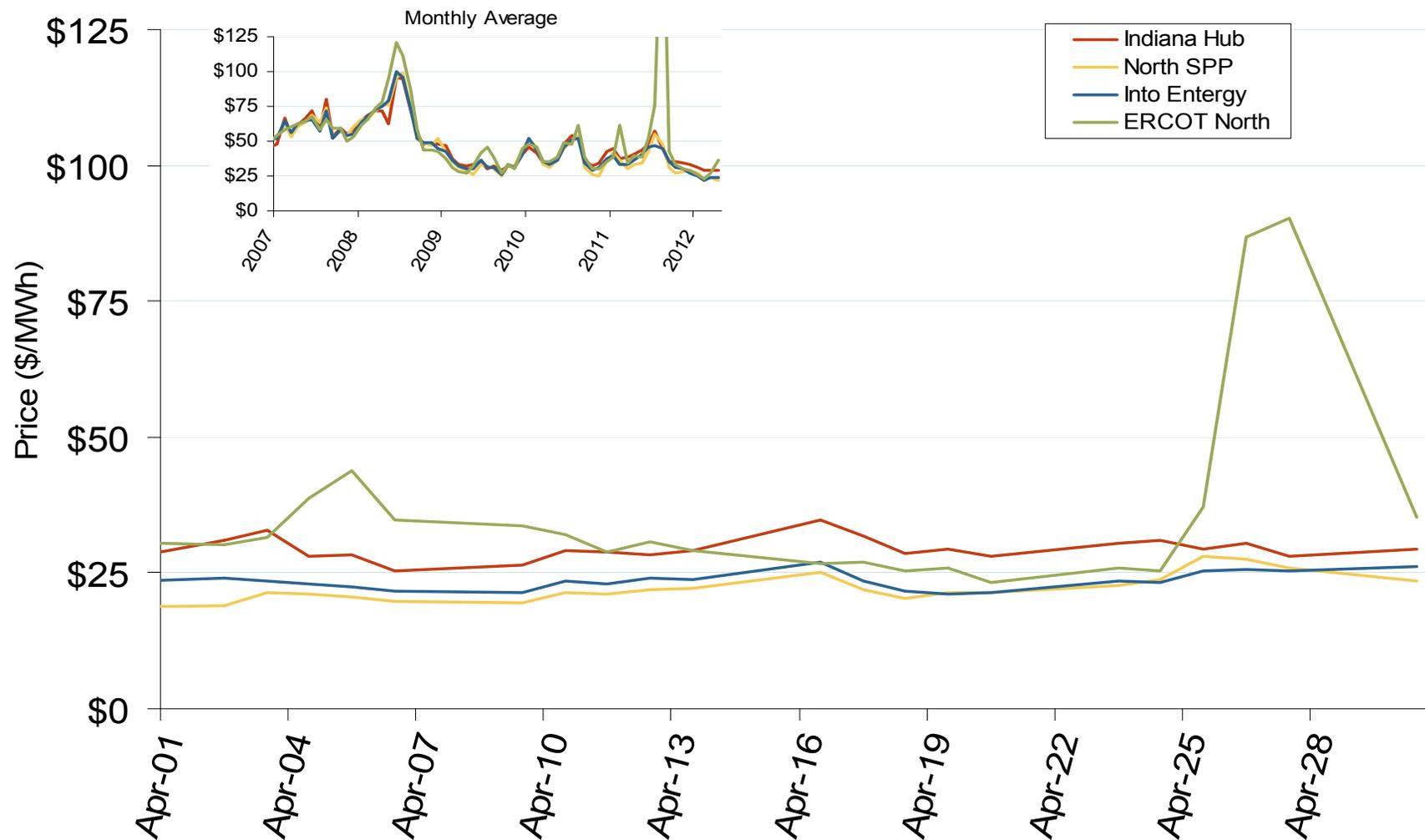
## Southeastern Daily Index Day-Ahead On-Peak Prices



Southeast Electric Market: Last Month's Midwestern Index Prices

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

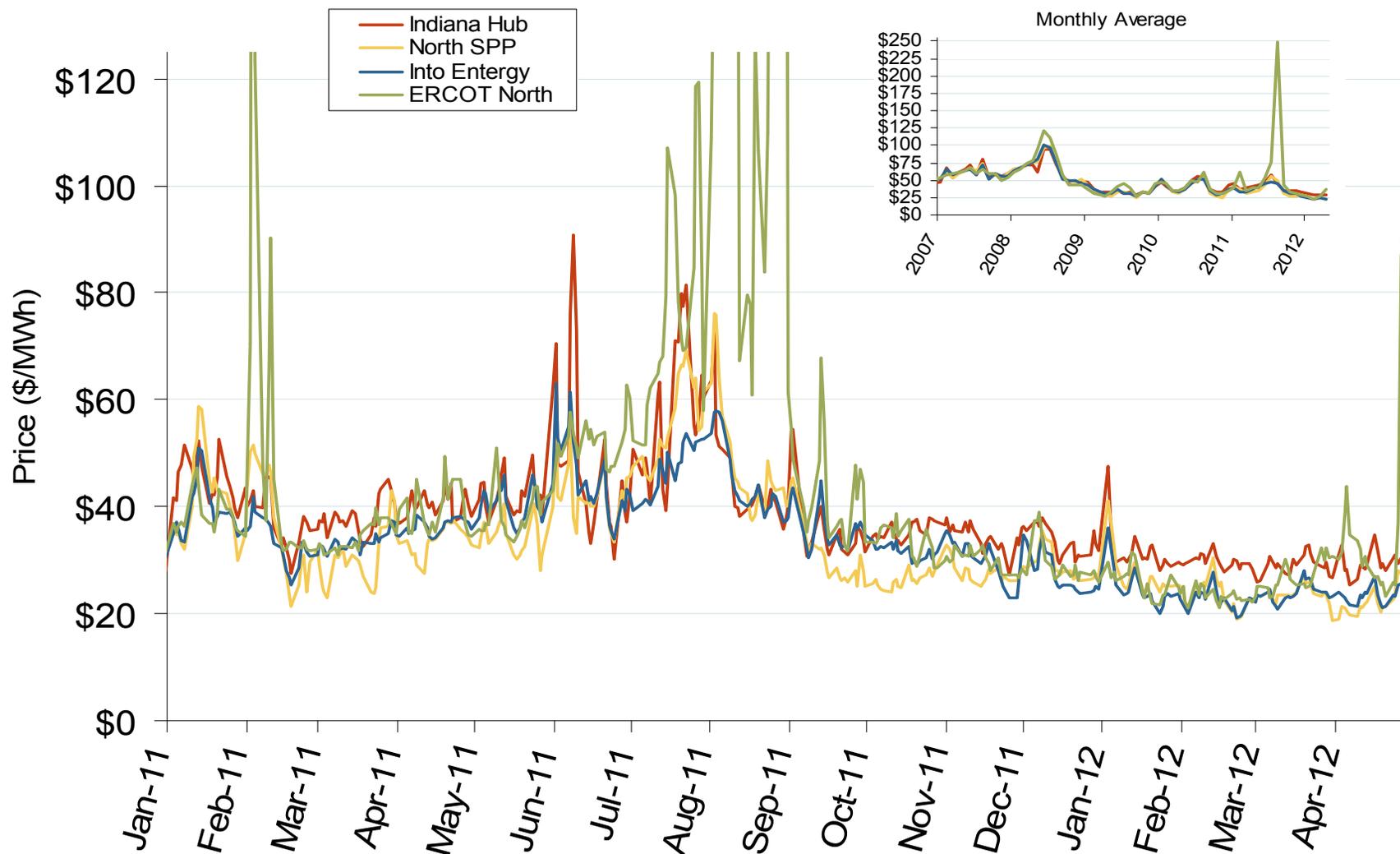
## Midwestern Daily Index Day-Ahead On-Peak Prices



Southeast Electric Market: Midwestern Index Prices

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

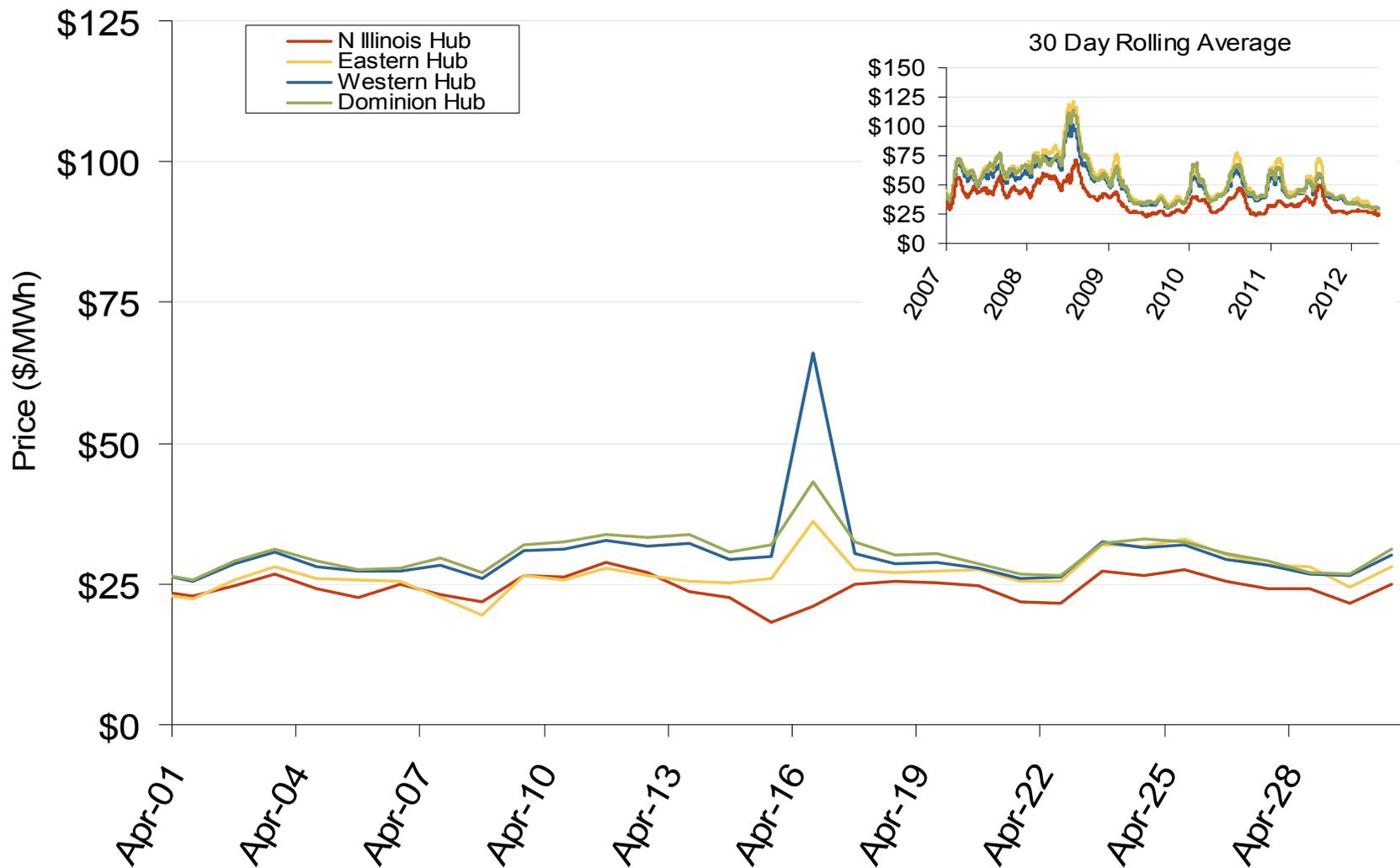
## Midwestern Daily Index Day-Ahead On-Peak Prices



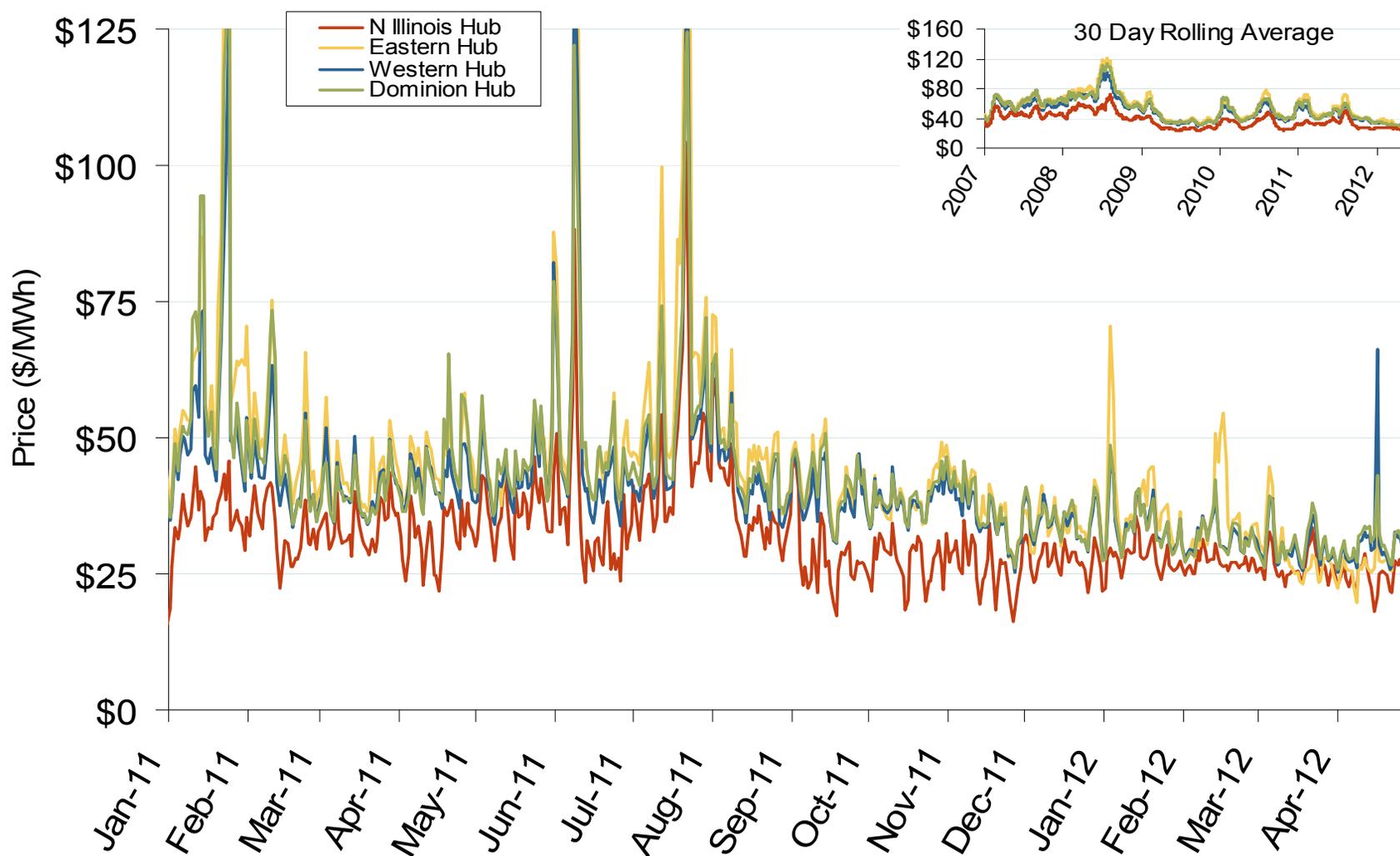
PJM Electric Market: Last Month's RTO Prices

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

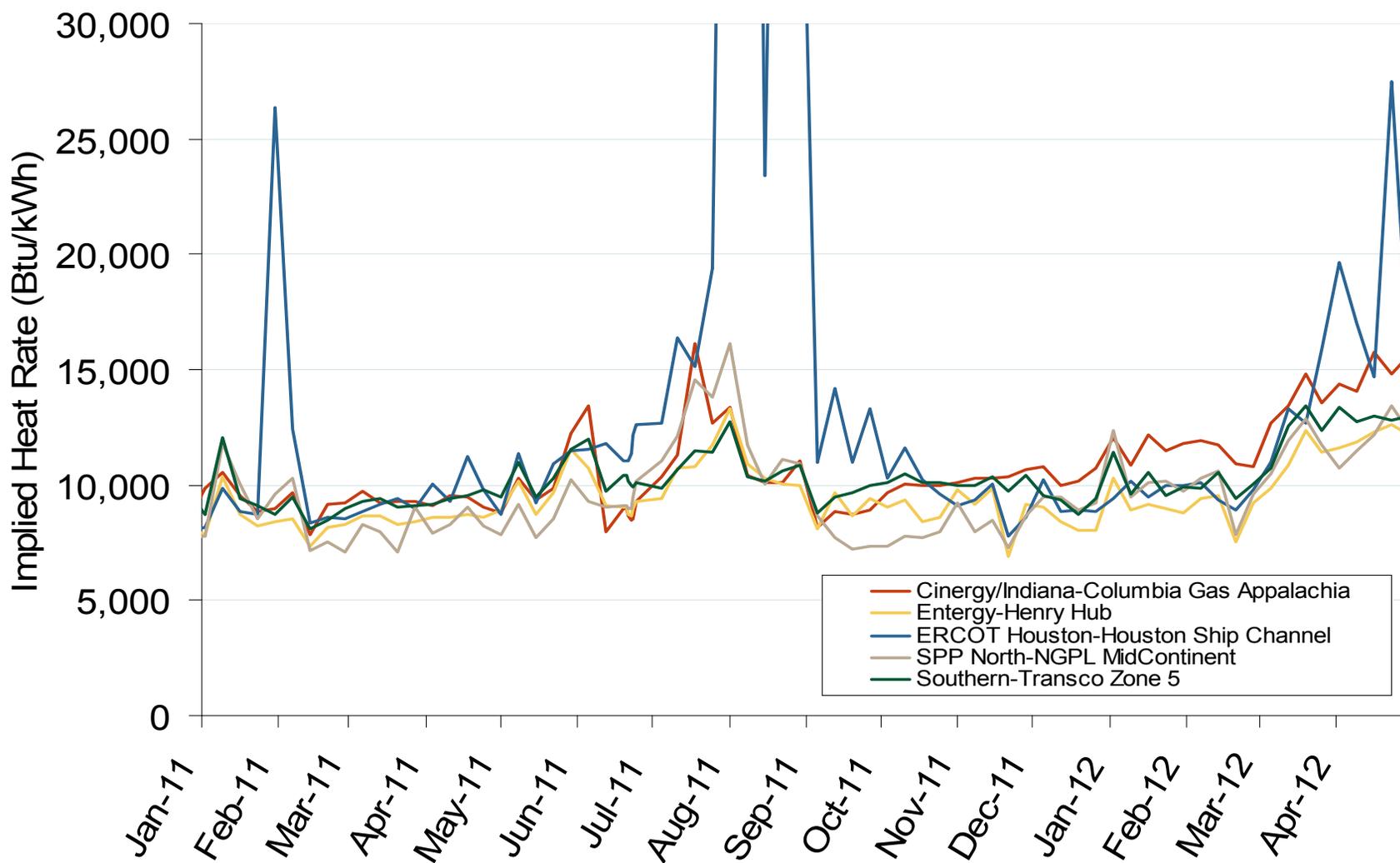
## Daily Average of PJM Day-Ahead Prices - All Hours



## PJM Electric Market: 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**

## Southeast Electric Market: South Central Implied Heat Rates

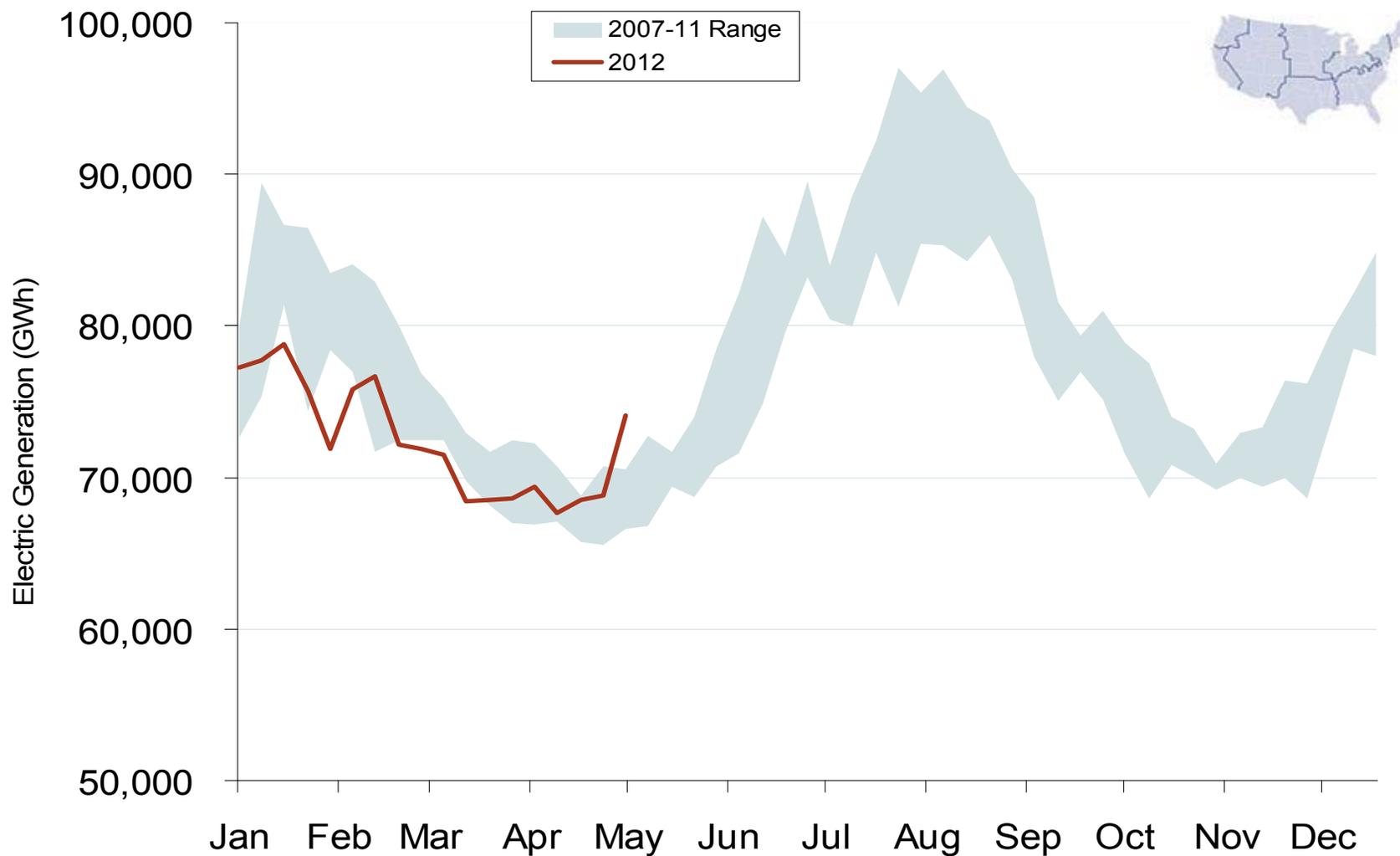
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Implied Heat Rates at South Central Trading Points - Weekly Avgs.**Source: Derived from *Platts* on-peak electric and natural gas price data

May 2012 Southeast Snapshot Report

Updated: May 14, 2012

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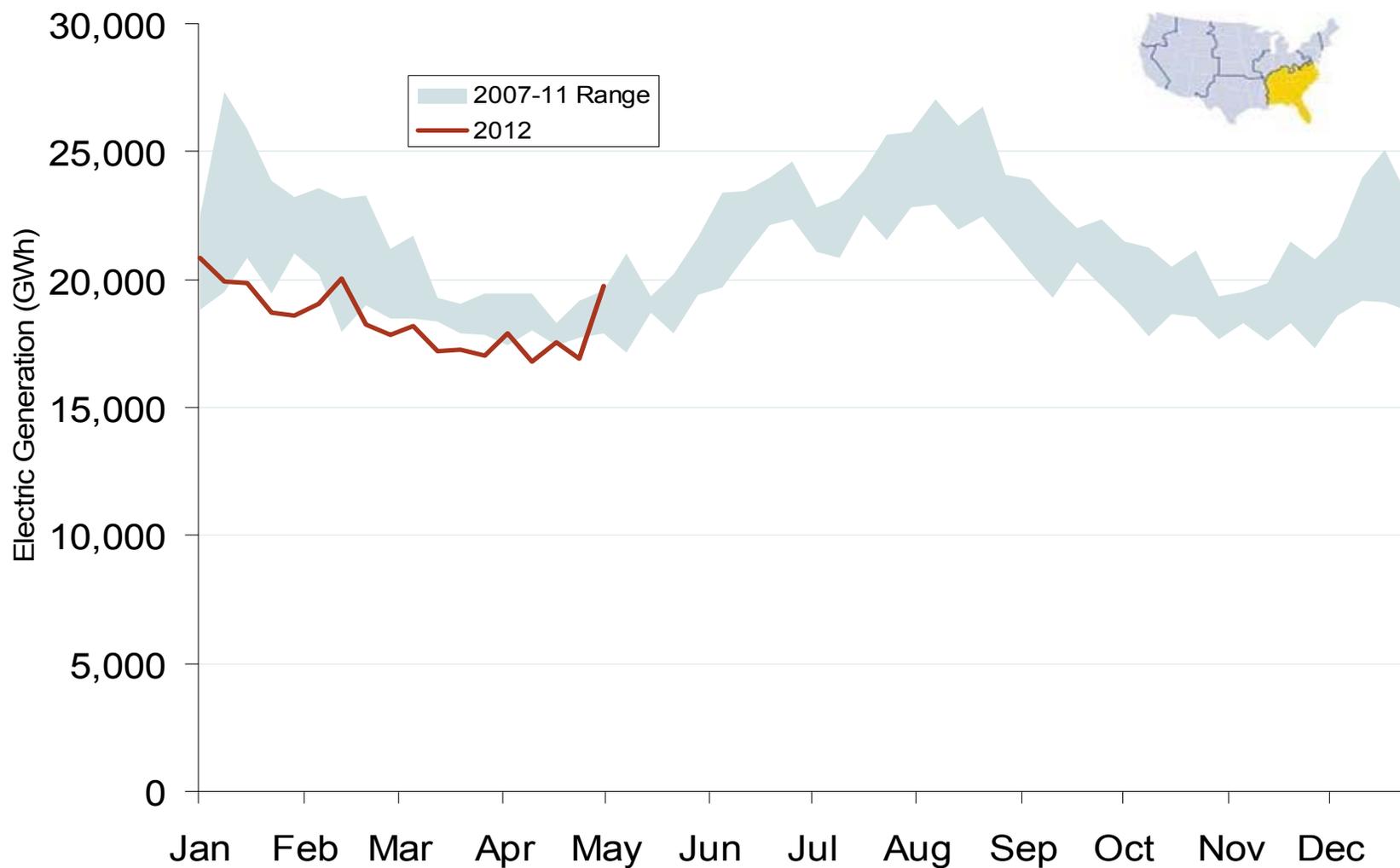
## Weekly U.S. Electric Generation Output



Southeast Electric Market: Generation Output

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

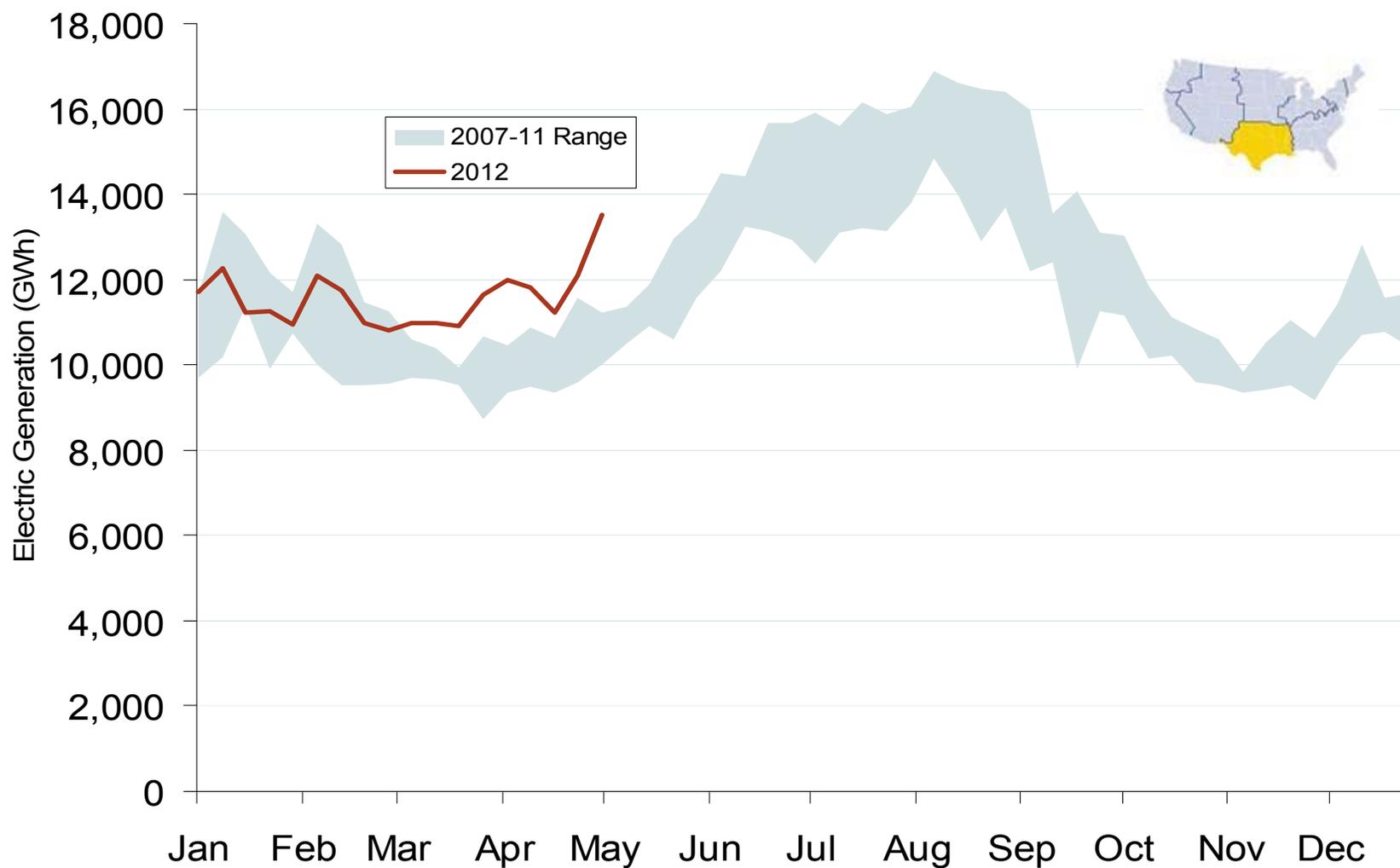
## Weekly Generation Output - Southeast



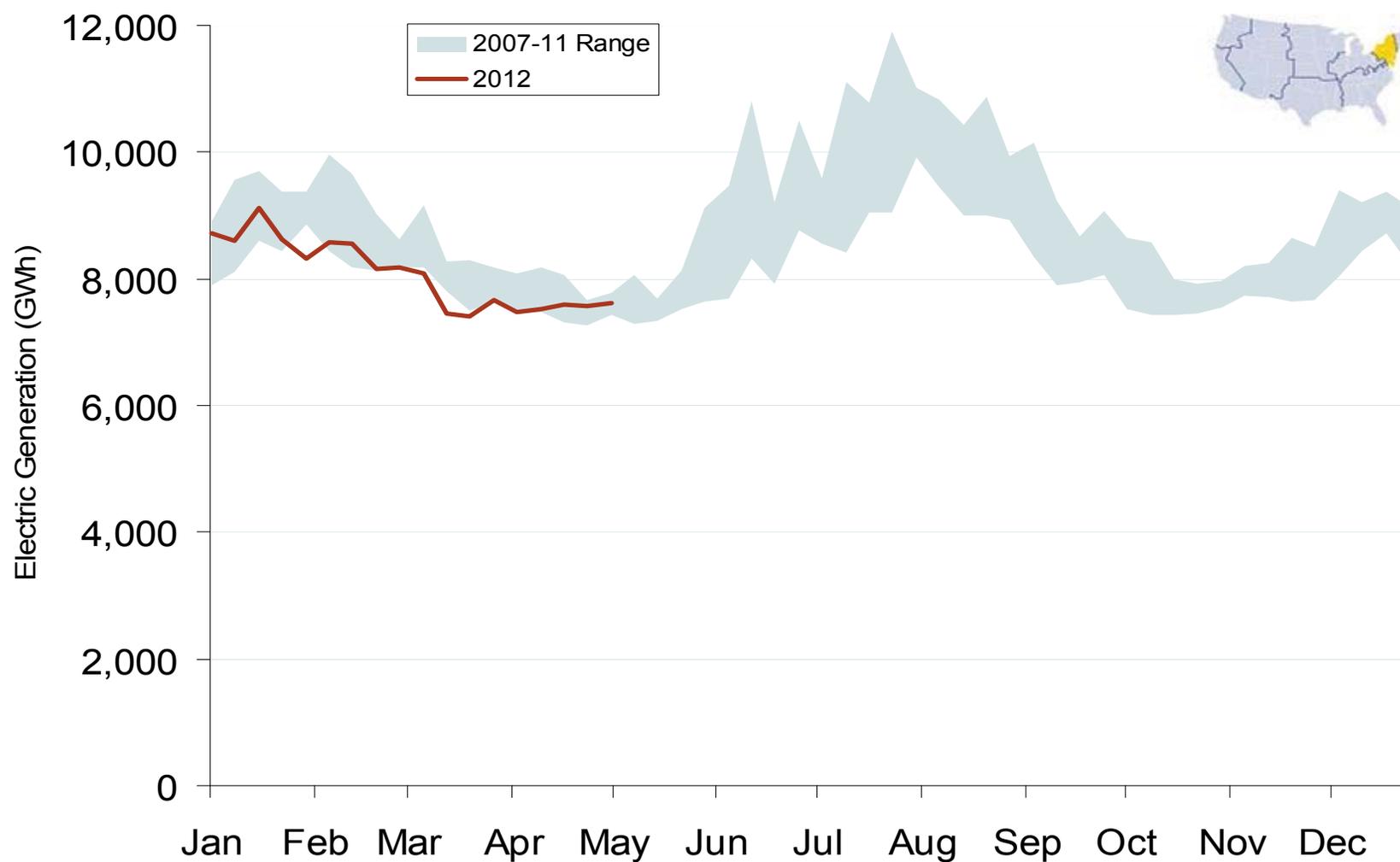
Texas Electric Market: Generation Output

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

## Weekly Generation Output - South Central



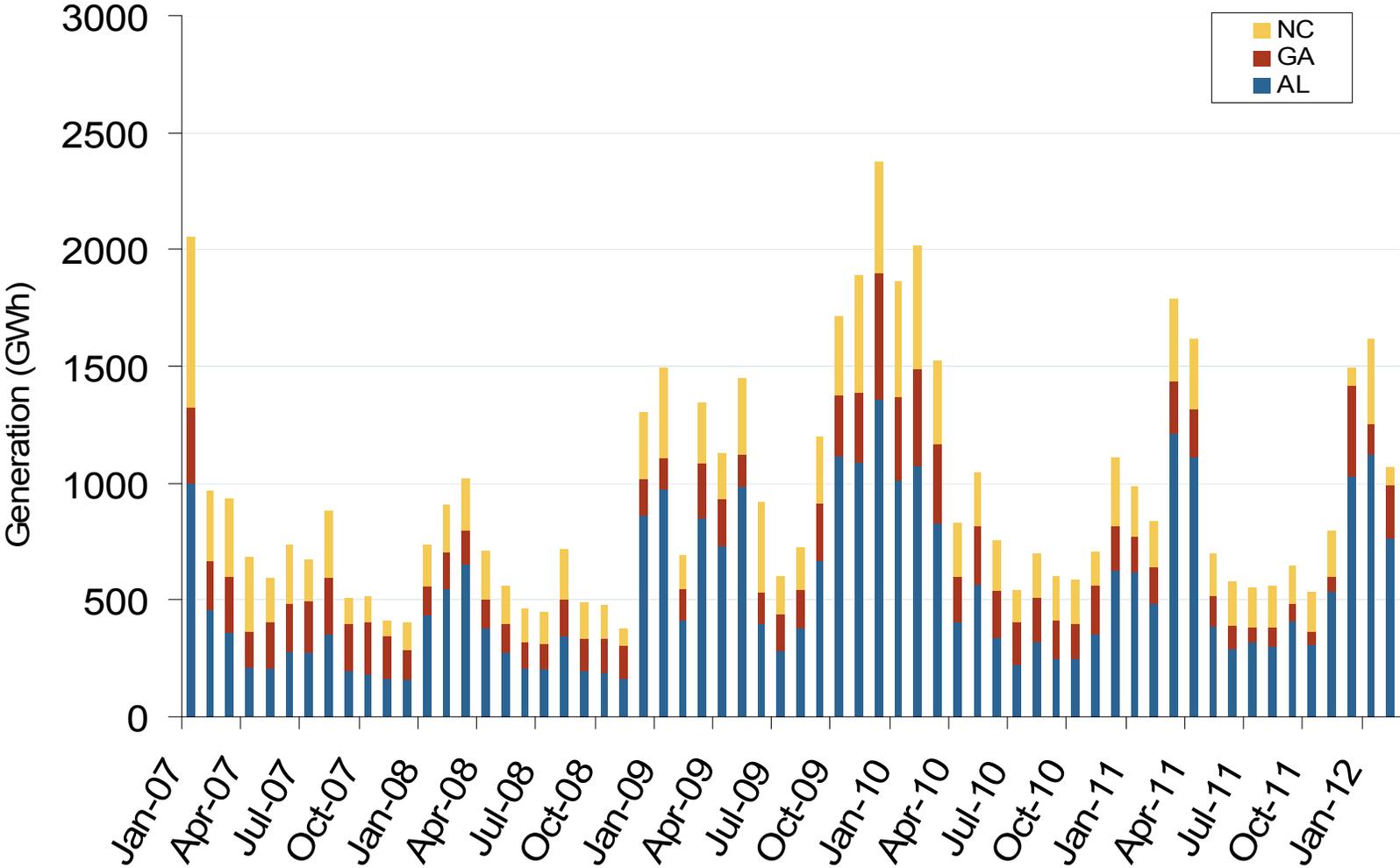
## PJM Electric Market: Generation Output

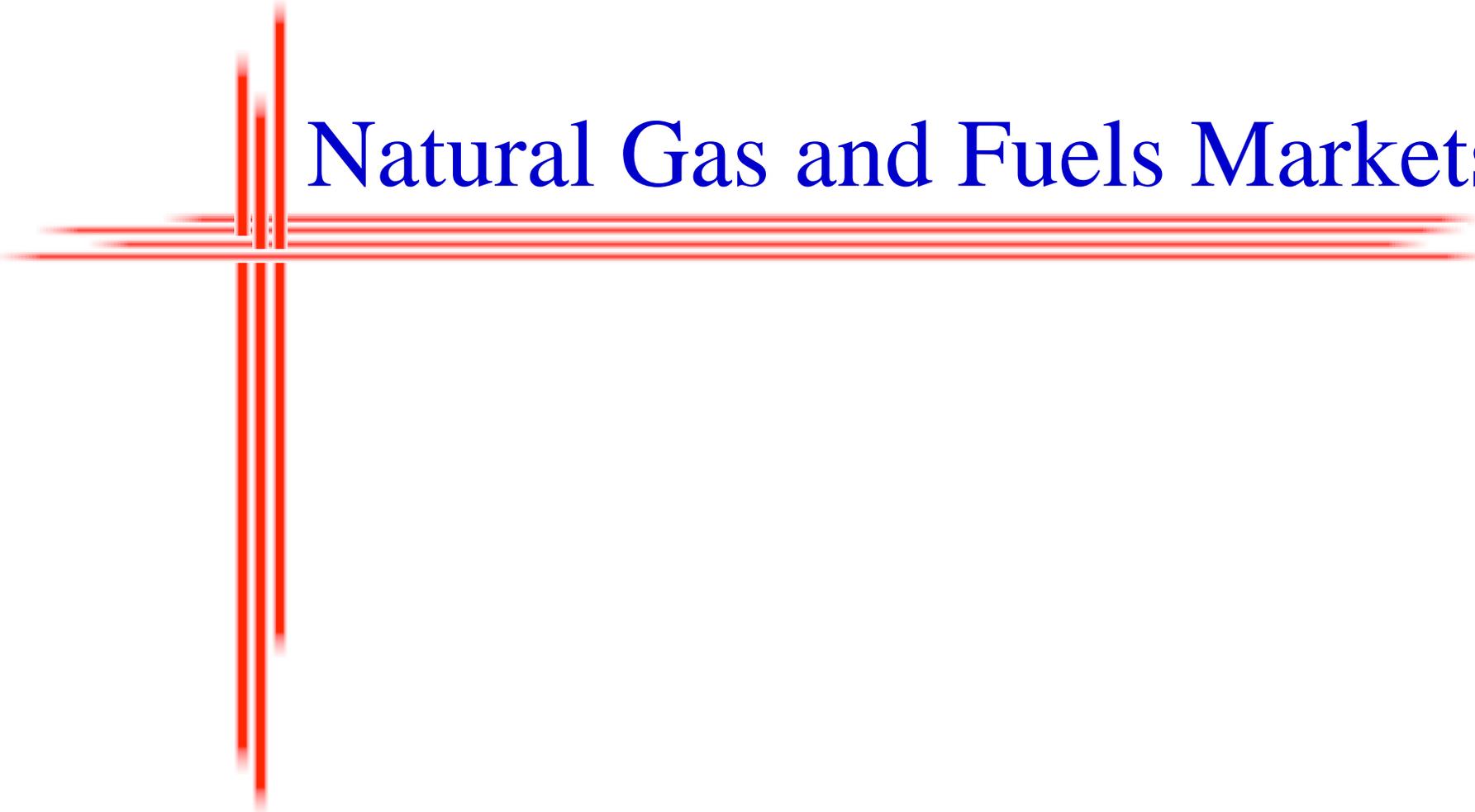
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Weekly Generation Output - Mid Atlantic**

Southeast Electric Market: Hydro Generation

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

# Monthly Southeastern Hydroelectric Generation



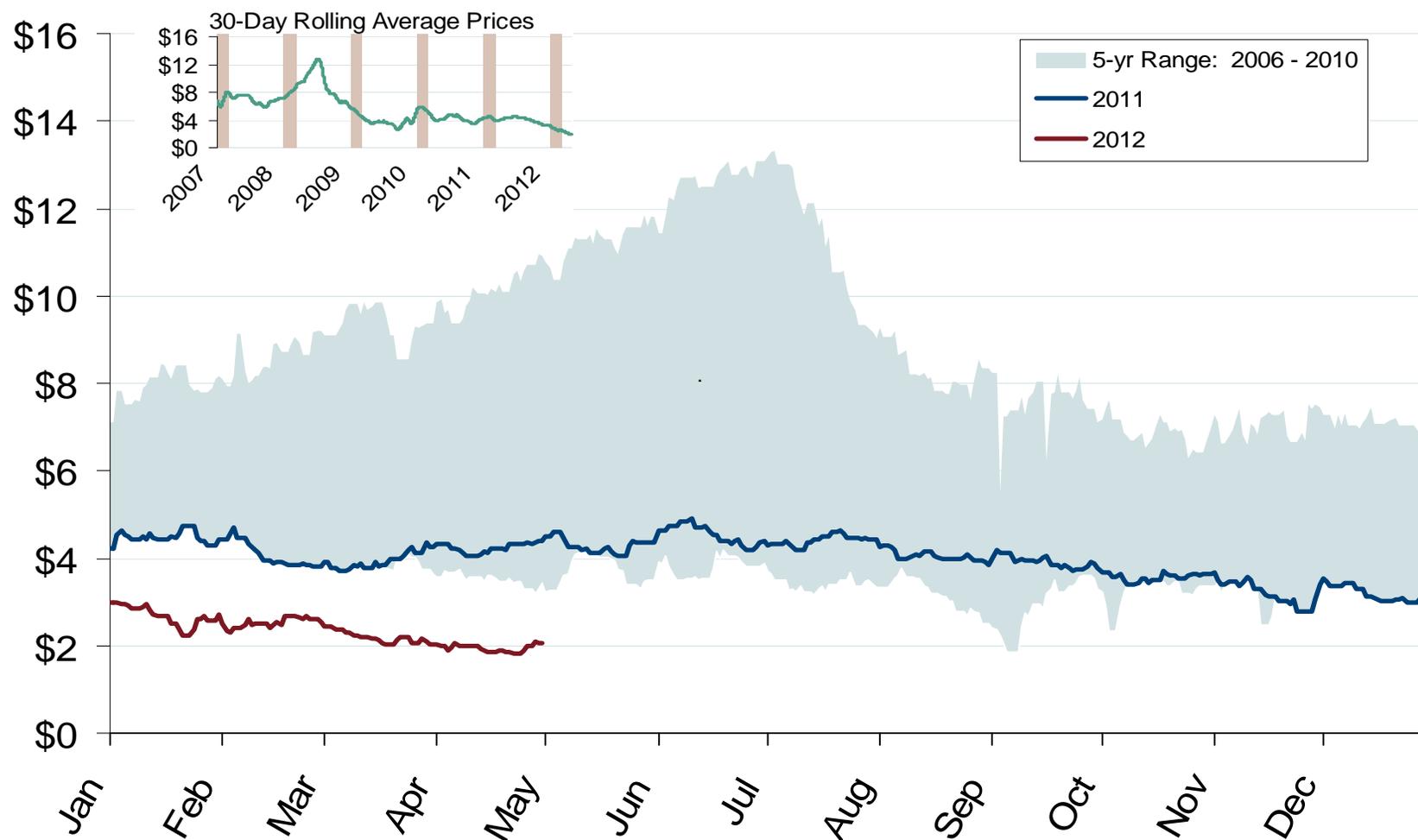


# Natural Gas and Fuels Markets

## 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)

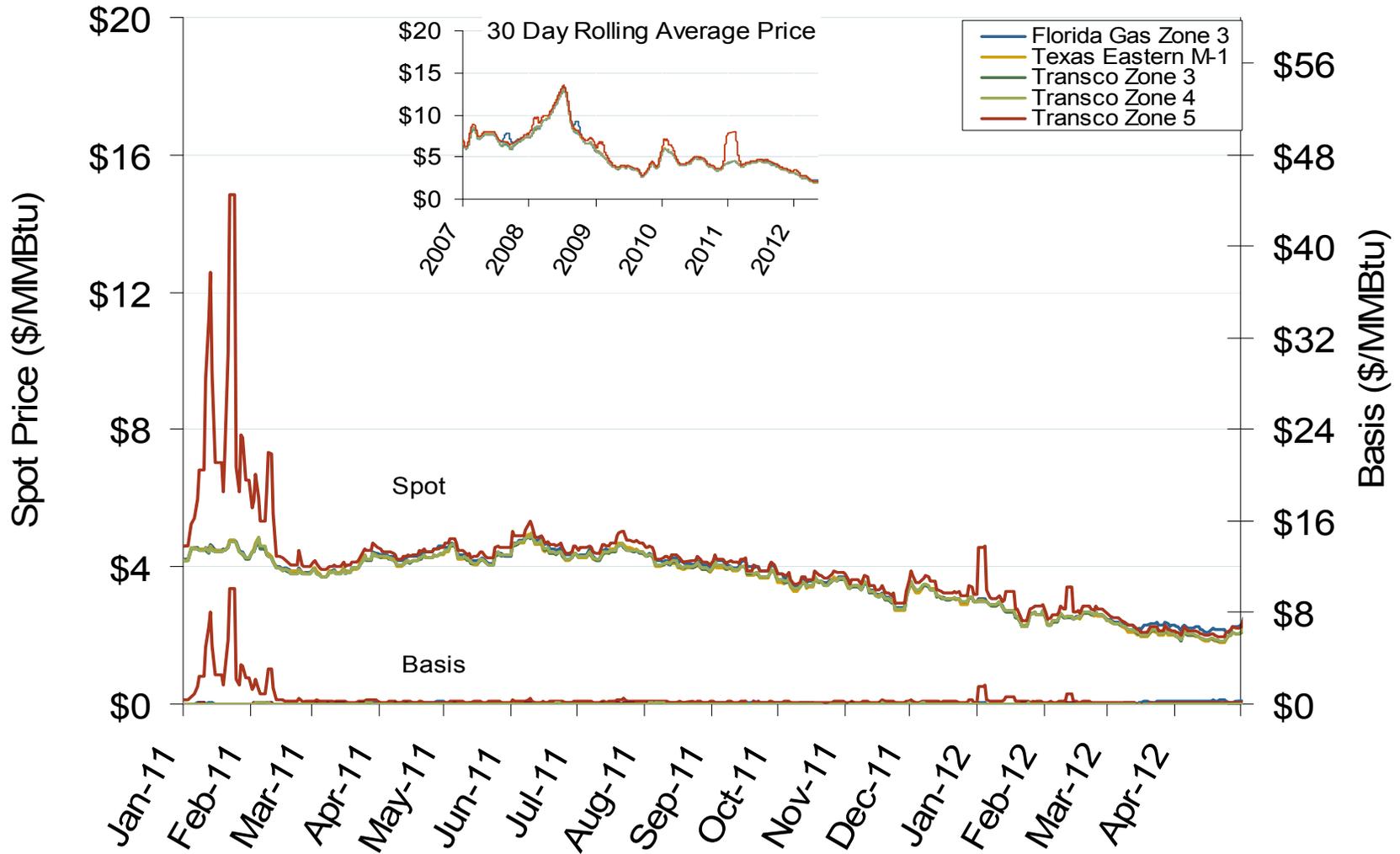
### Henry Hub Natural Gas Daily Spot Prices



Southeast Natural Gas Market: Spot Prices and Basis

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

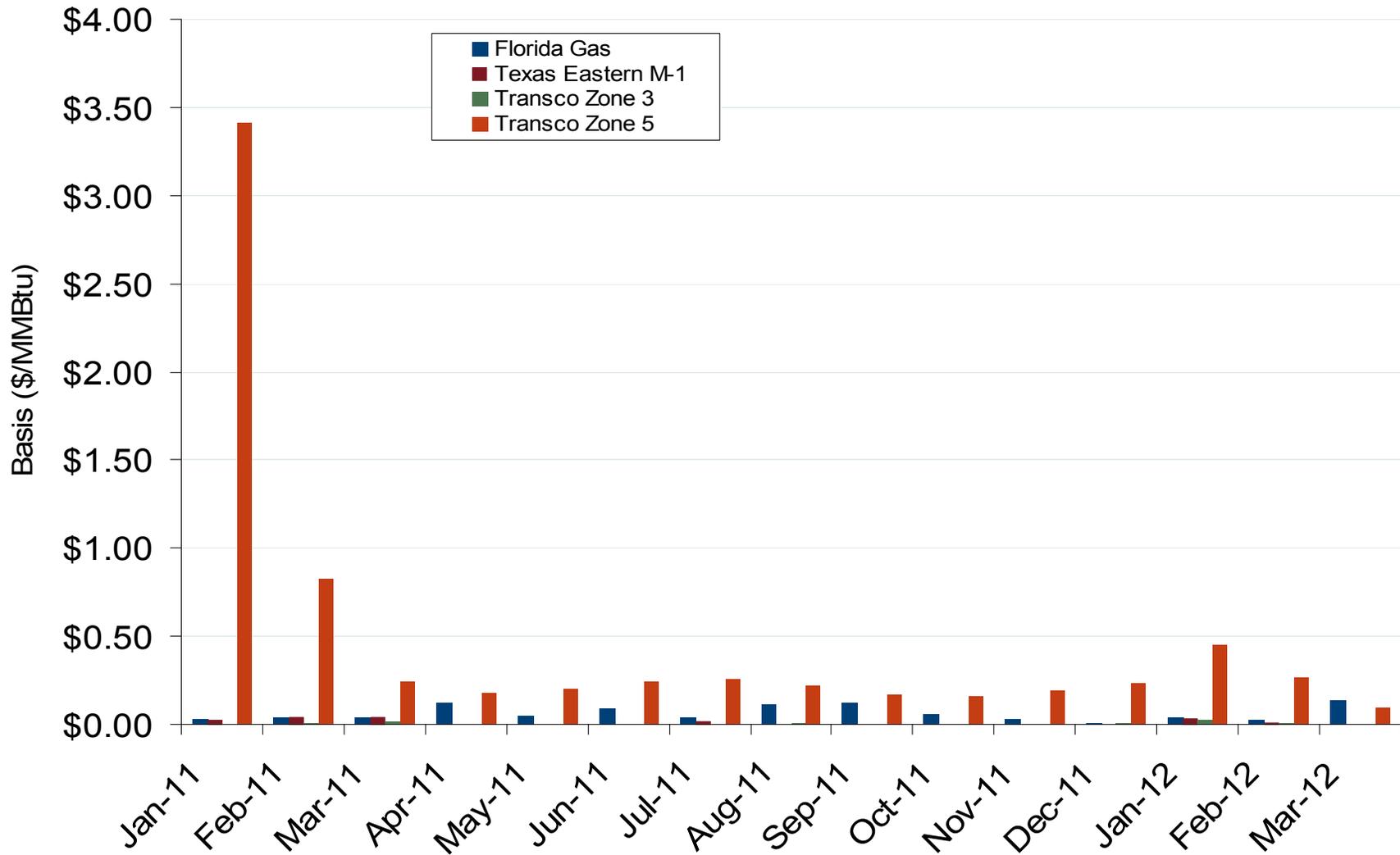
## Southeastern Day-Ahead Hub Spot Prices and Basis



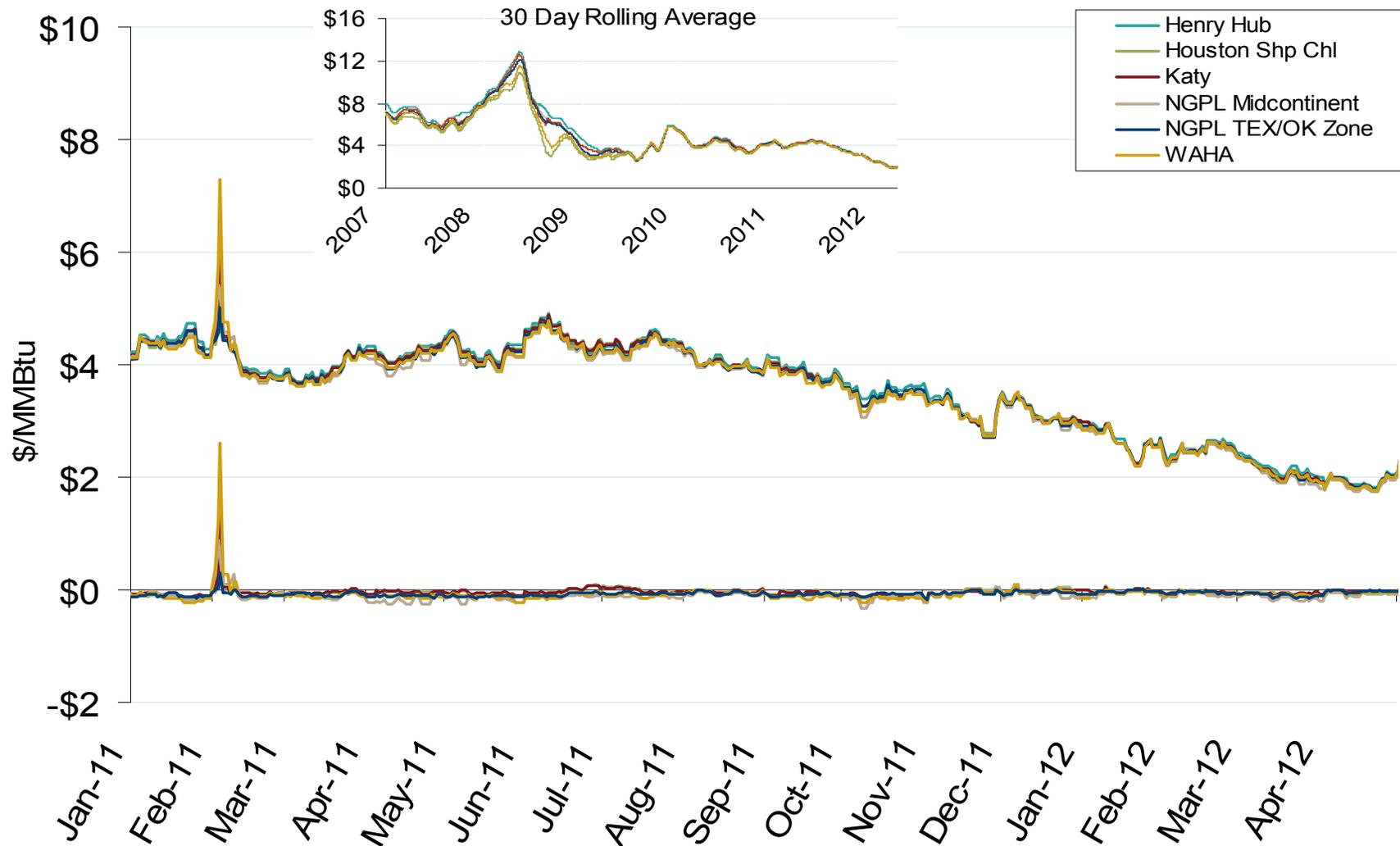
Southeast Natural Gas Market: Average Basis to Henry Hub

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

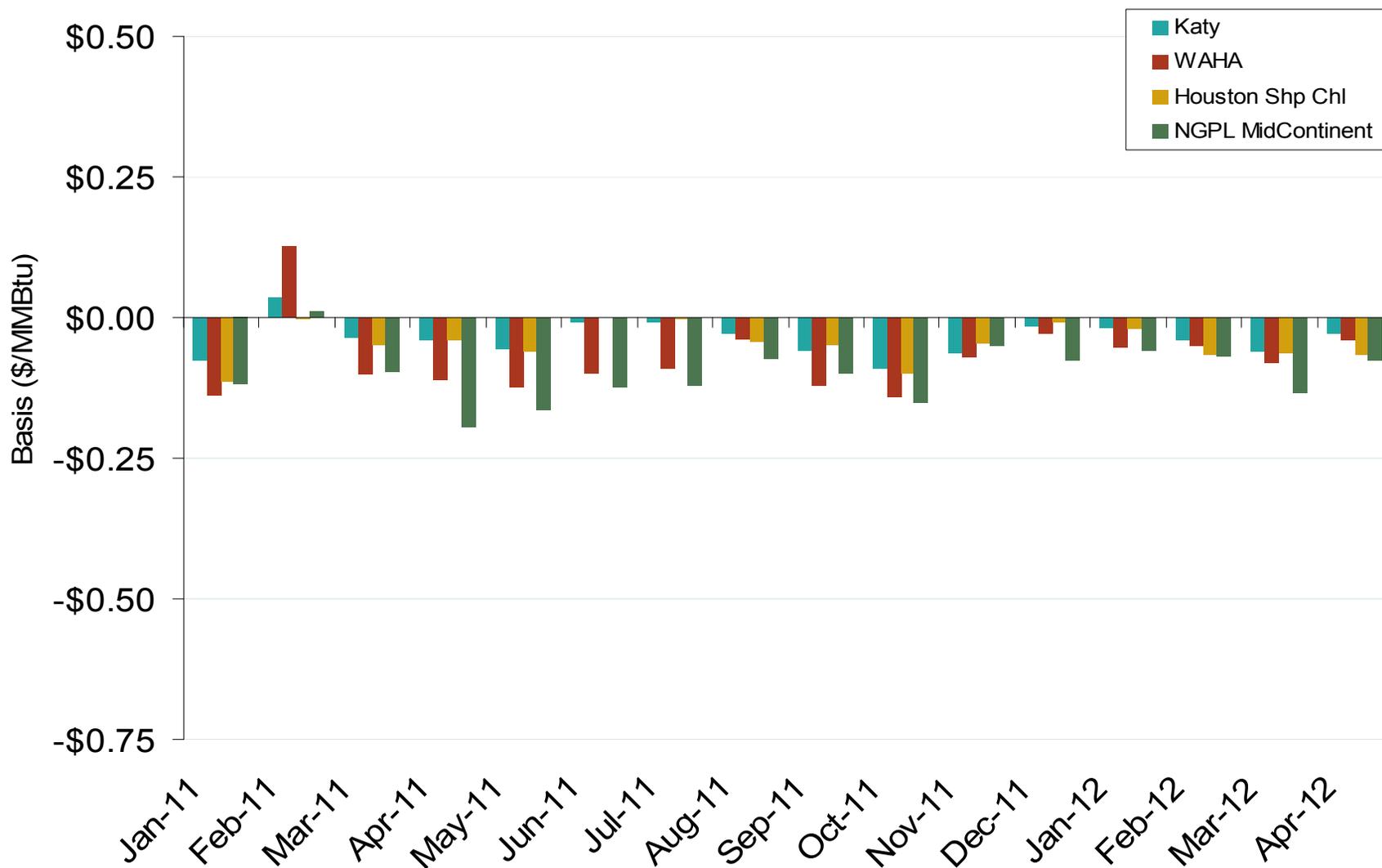
## Southeastern Monthly Average Basis Value to Henry Hub



## South Central Natural Gas Market: Spot Prices and Basis

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Gulf Day-Ahead Hub Spot Prices and Basis**

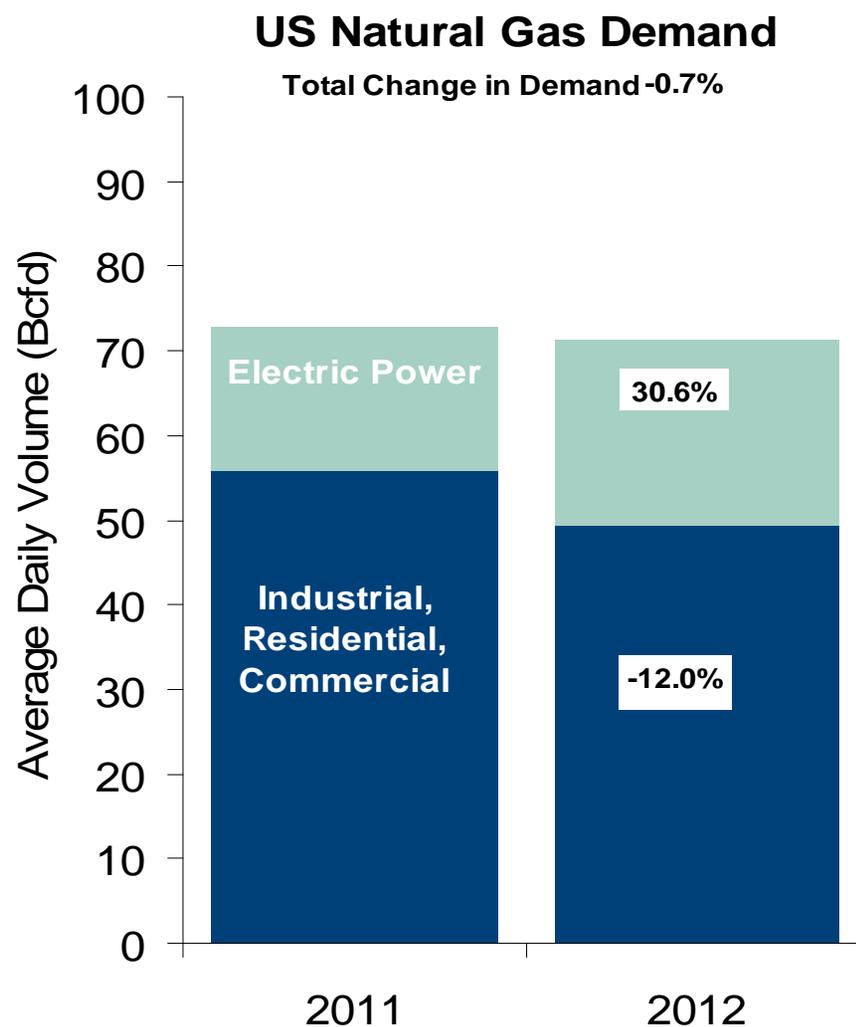
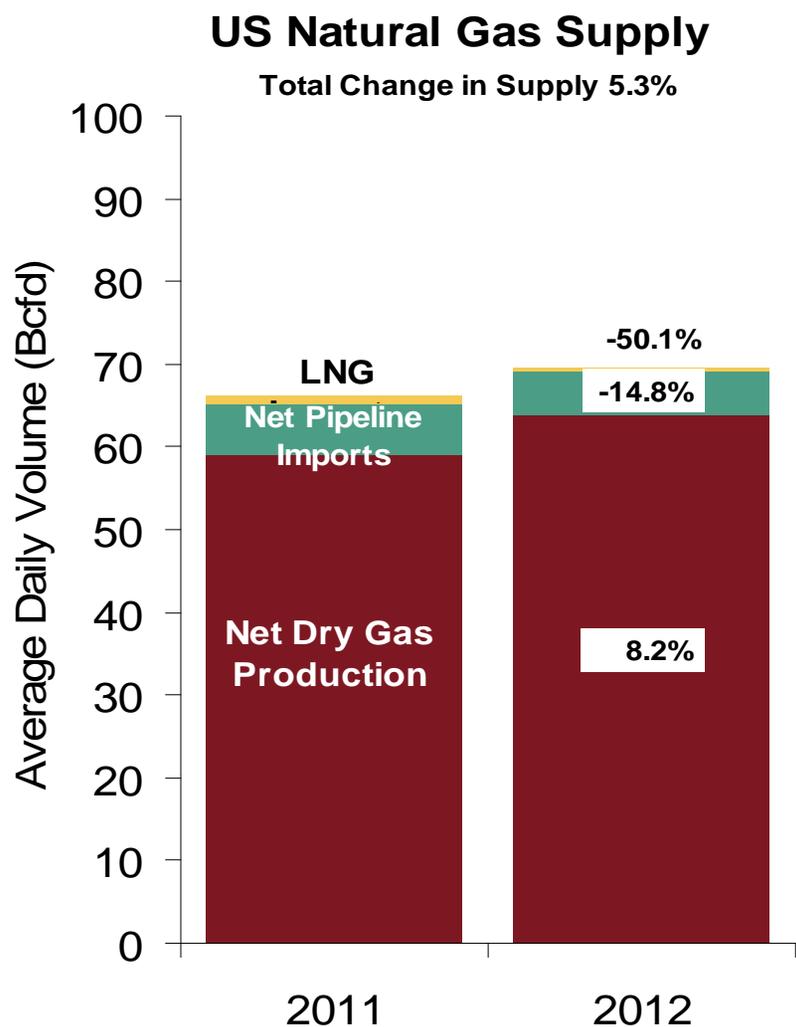
## Gulf Natural Gas Market: Average Basis to Henry Hub

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Gulf Monthly Average Basis Value to Henry Hub**

## Natural Gas Market Overview: U.S. Supply and Consumption

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

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



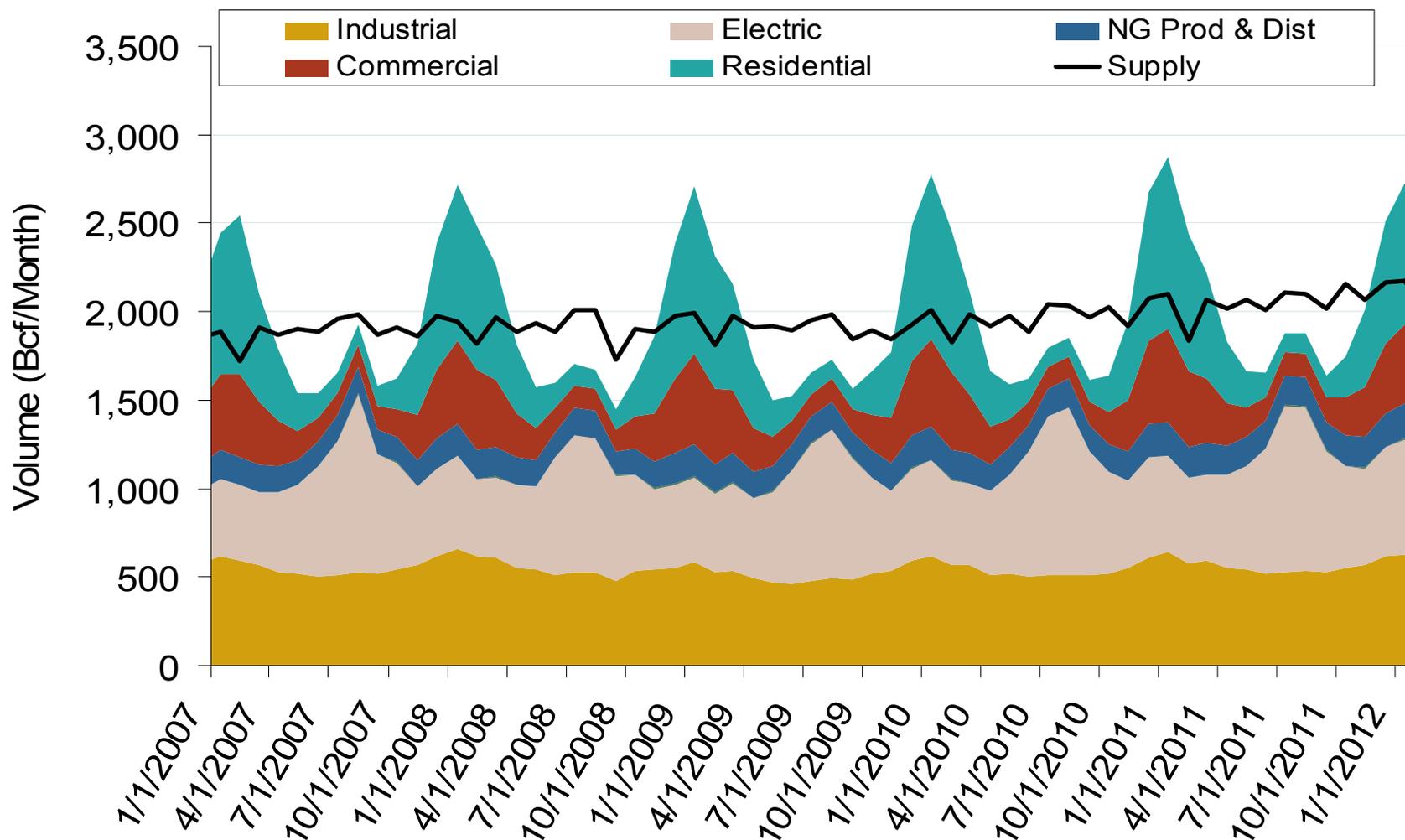
Note: Balance includes all amounts not attributable to other categories.

Source: Derived from *Bentek Energy* data

May 2012 Southeast Snapshot Report

Updated: May 14, 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

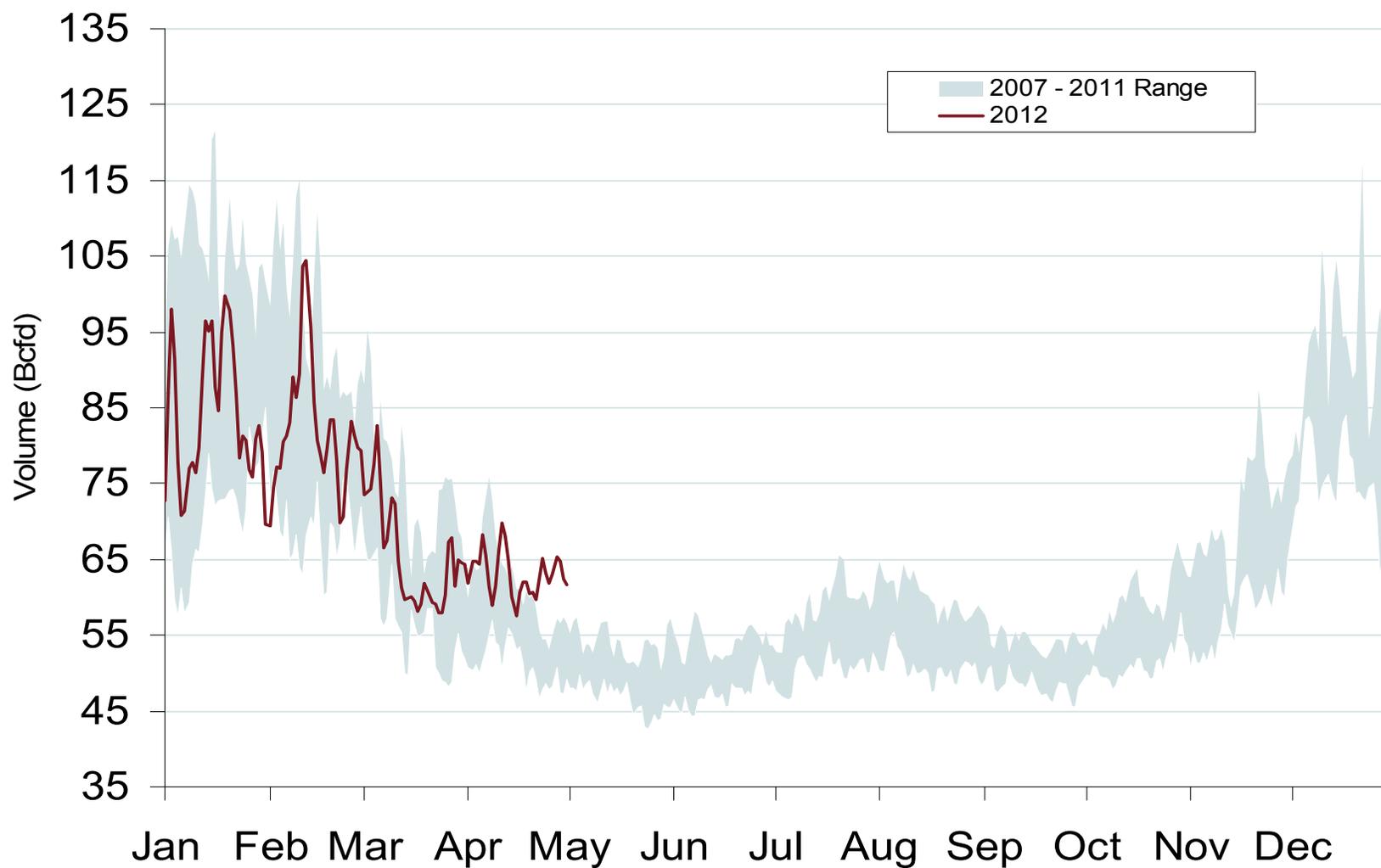
Source: Derived from EIA data

May 2012 Southeast Snapshot Report

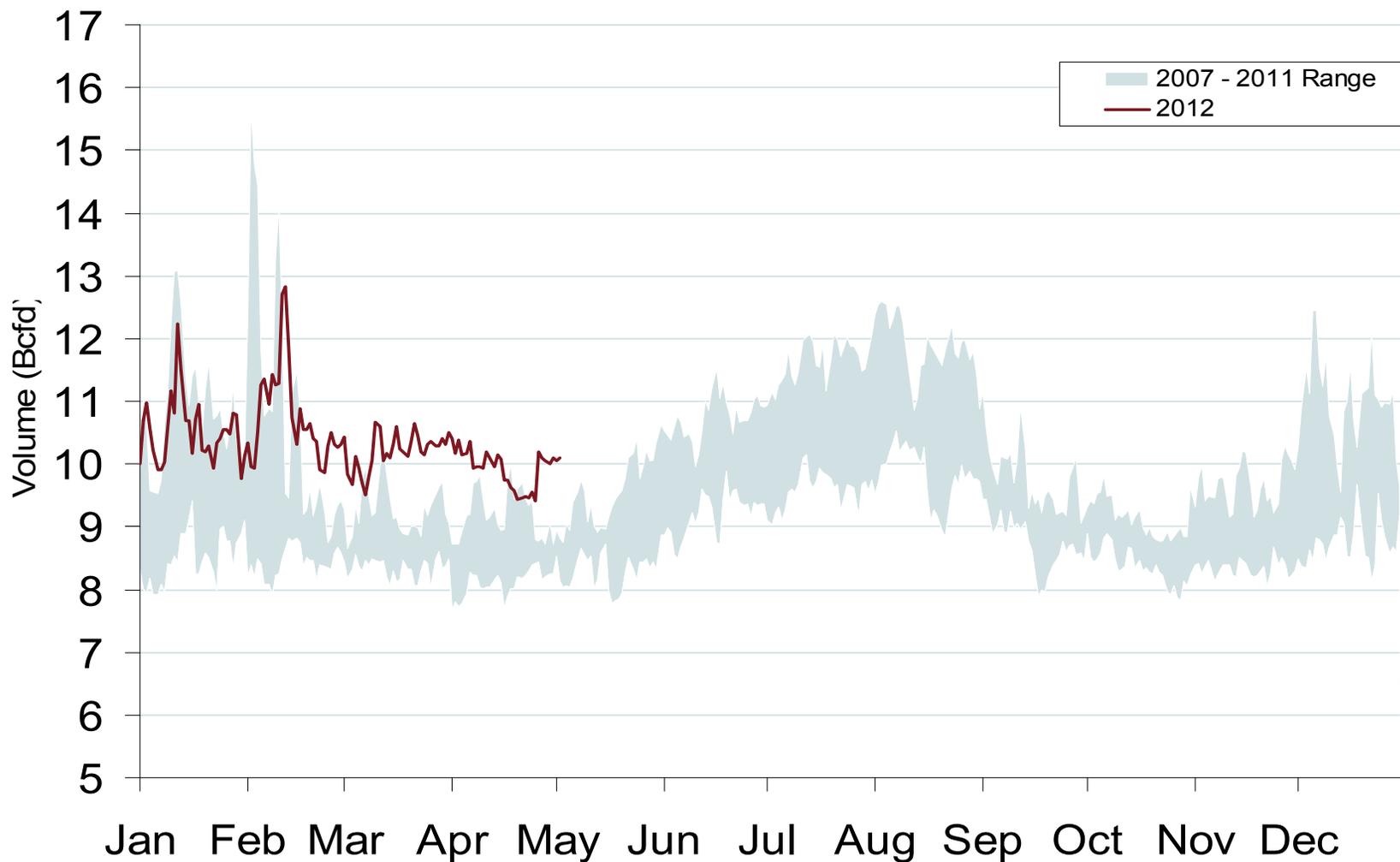
Updated: May 14, 2012

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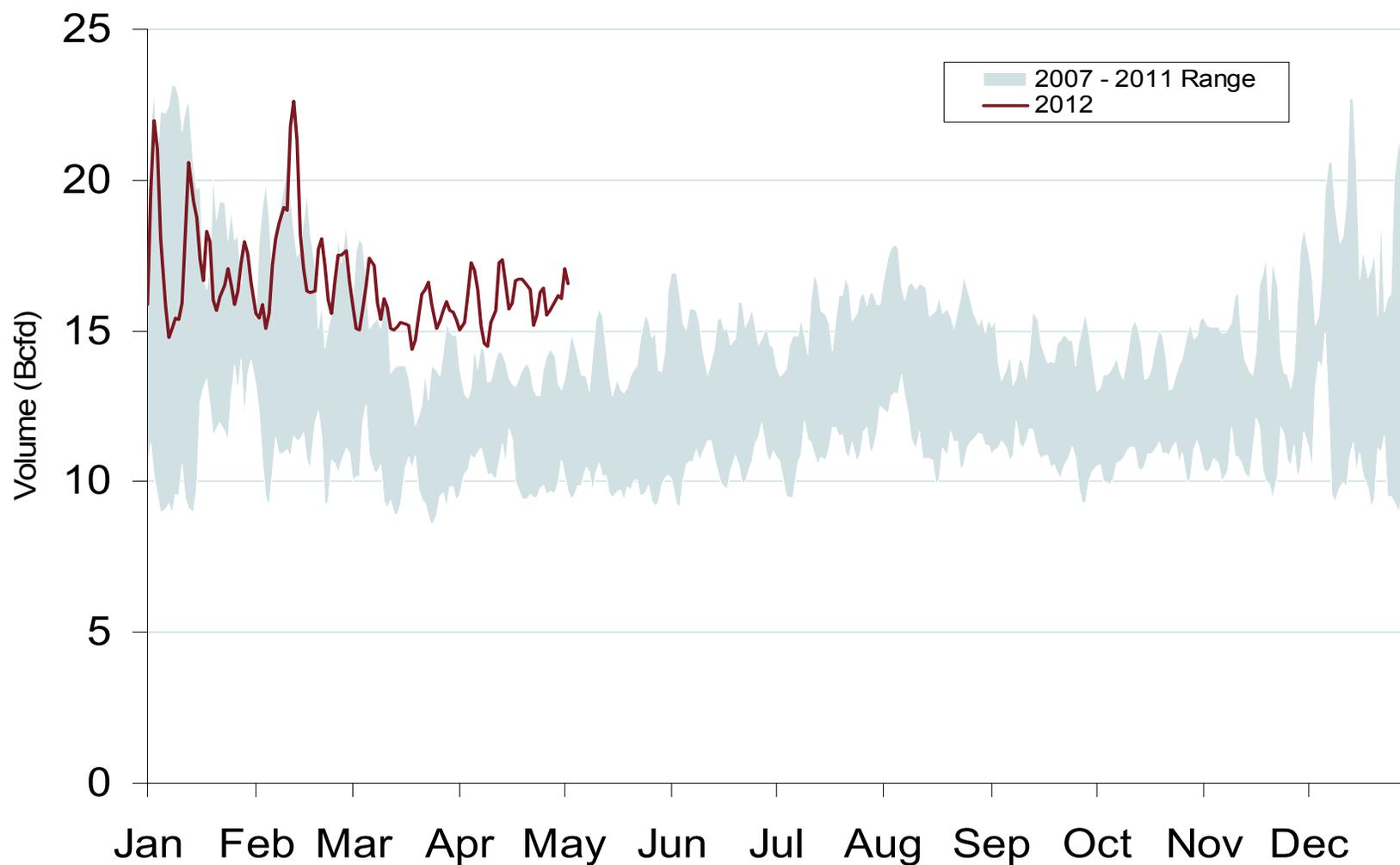
## Natural Gas Market Overview: Total US Gas Demand

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Total U.S. Natural Gas Demand All Sectors**

## Gulf Natural Gas Market: Daily Demand

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Daily Gulf Natural Gas Demand All Sectors**

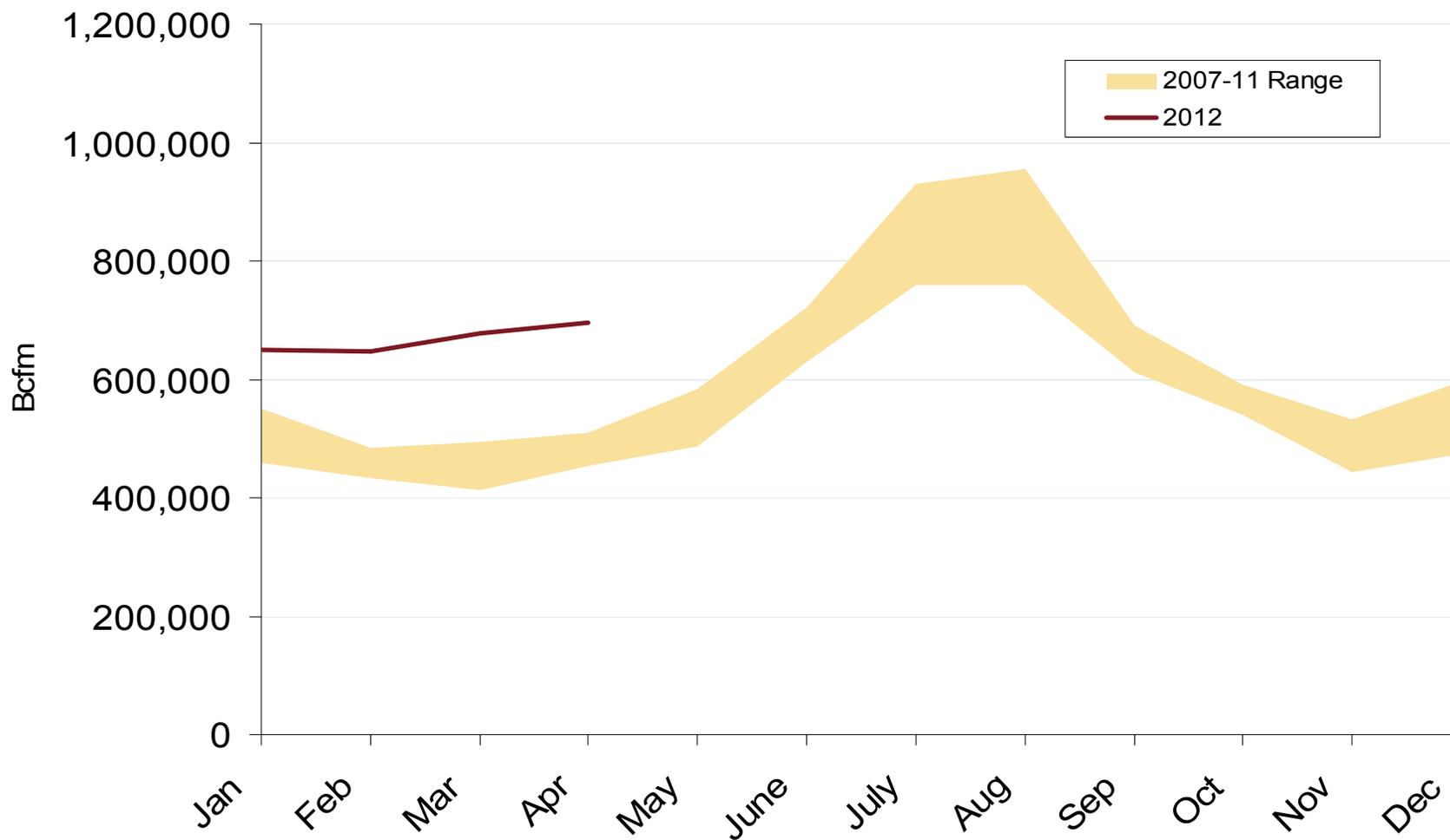
## Southeast Natural Gas Market: Daily Demand

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Daily Southeast Natural Gas Demand All Sectors**

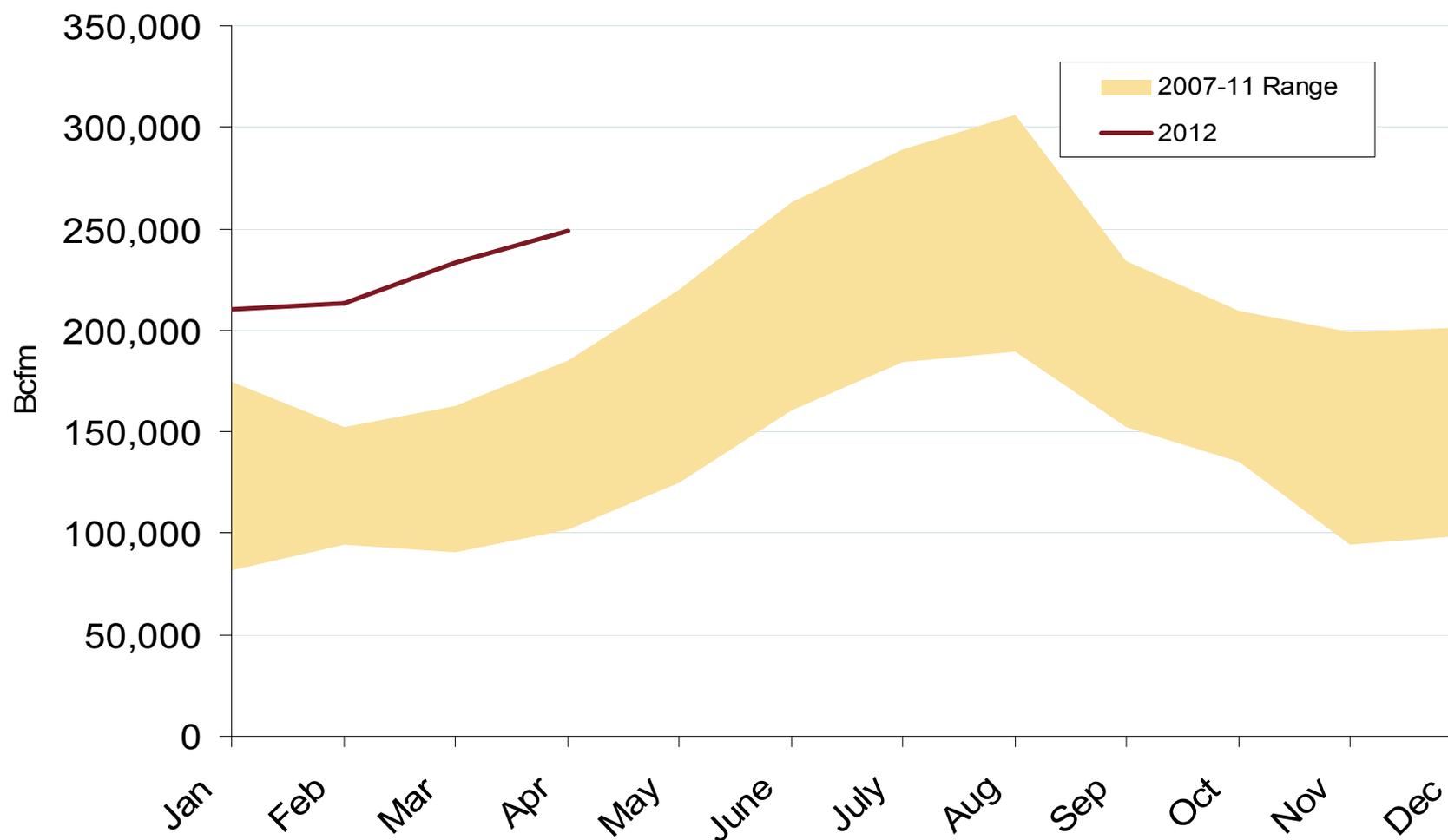
## Natural Gas Market Overview: NG Consumption for Power Generation

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

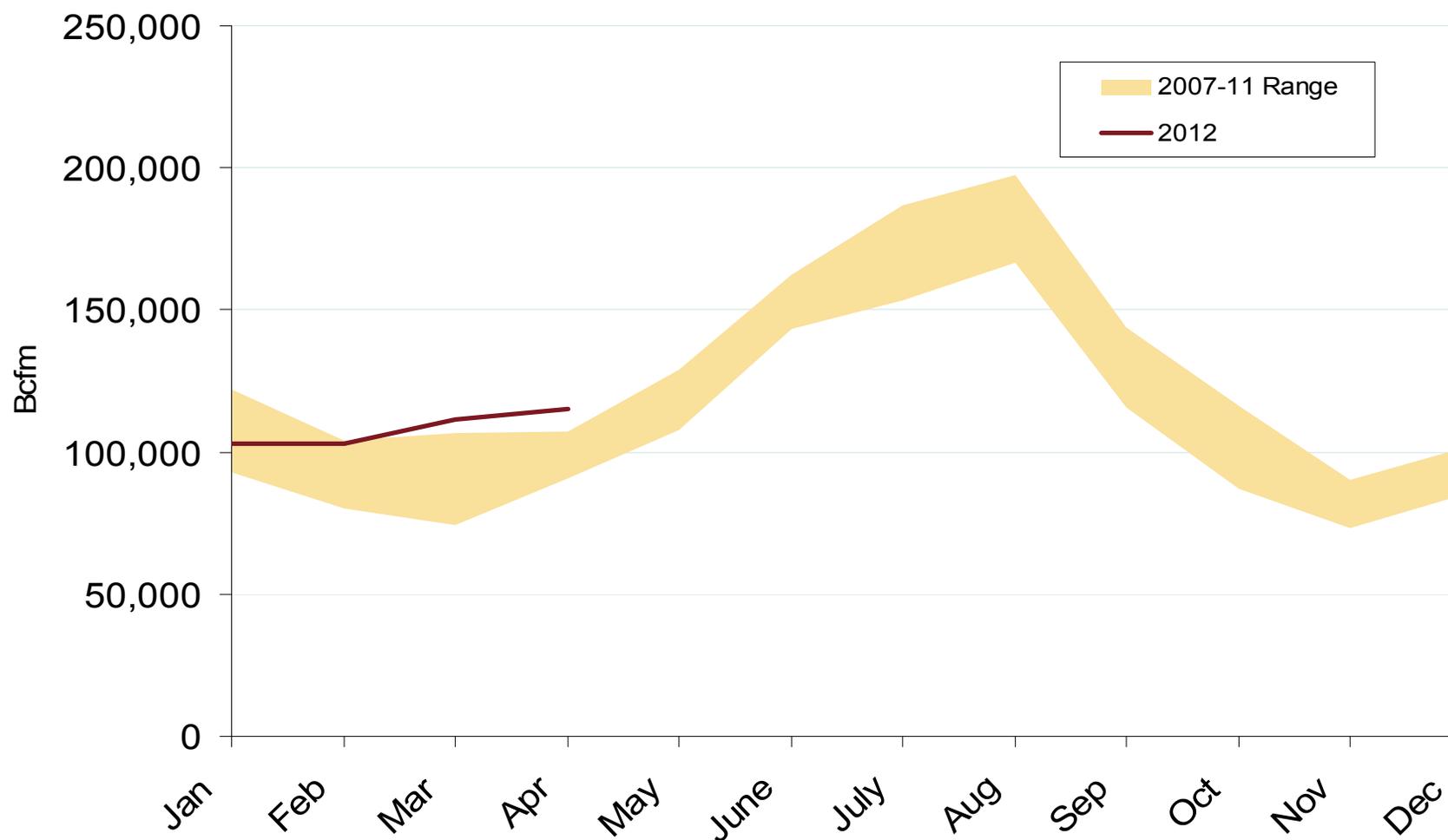
### U.S. Natural Gas Consumption for Power Generation



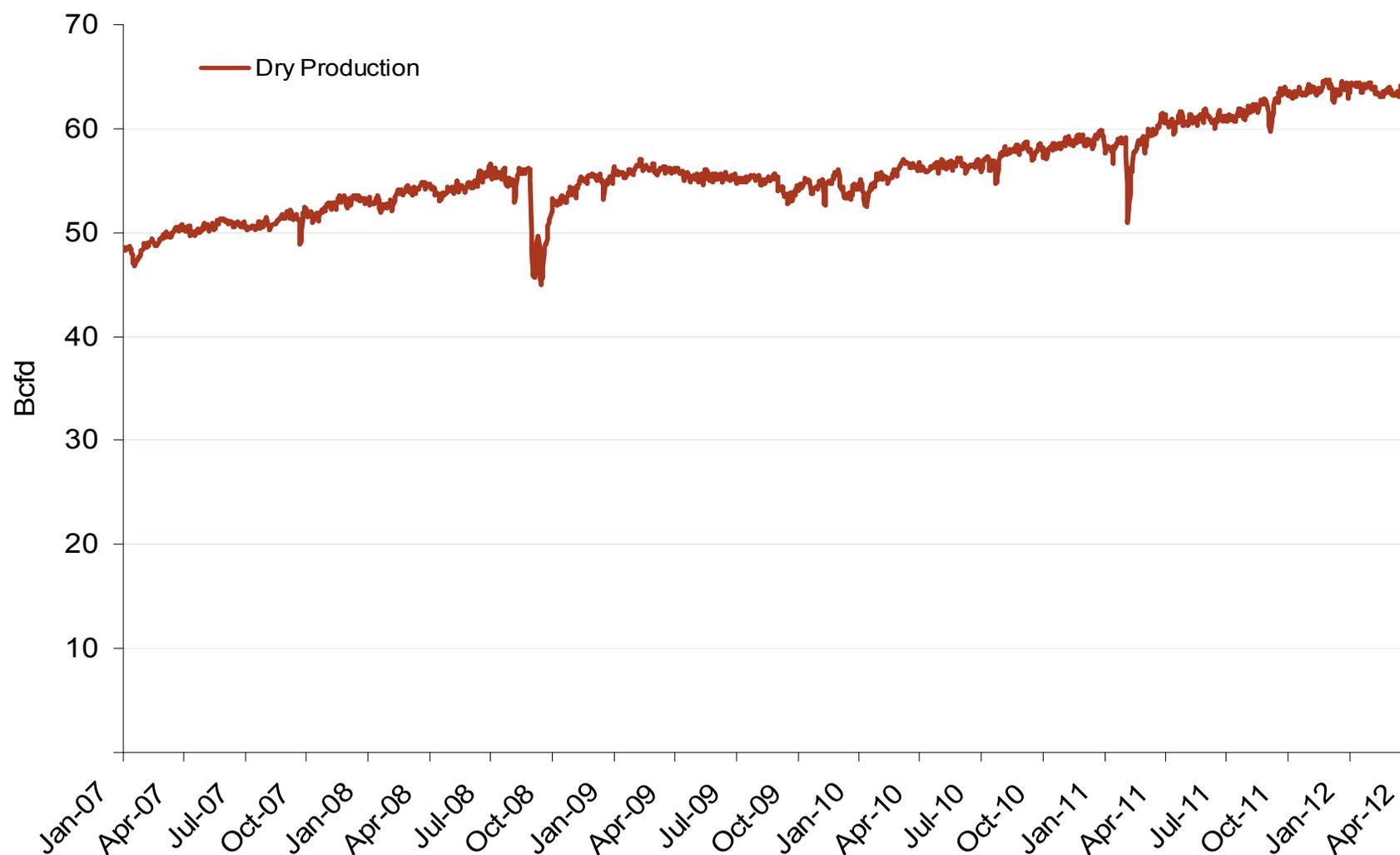
## Southeast Natural Gas Market: NG Consumption for Power Generation

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

## Gulf Natural Gas Consumption for Power Generation



## Natural Gas Markets: Monthly U.S. Dry Gas Production

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

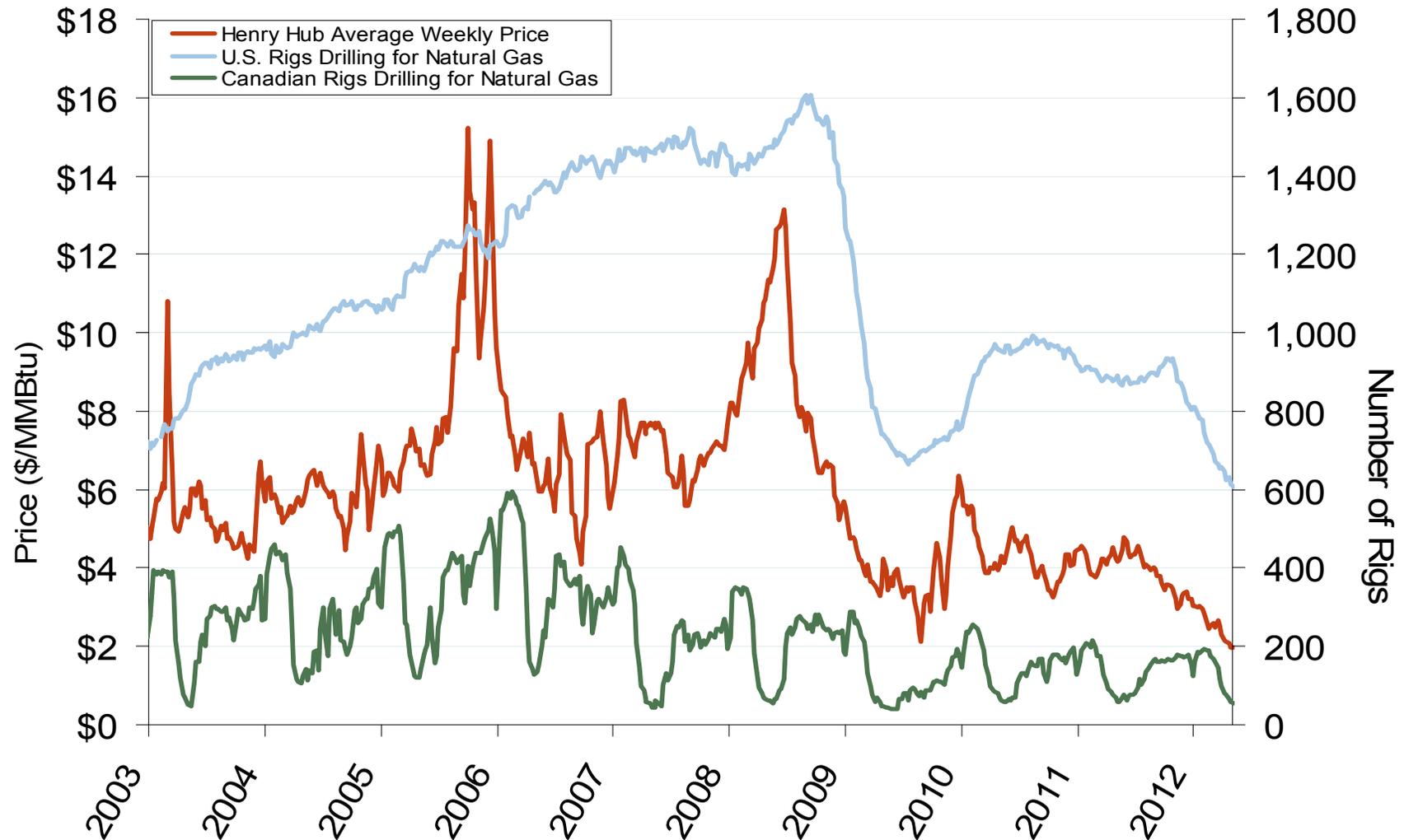
Source: Derived from *Bentek Energy* data

May 2012 Southeast Snapshot Report

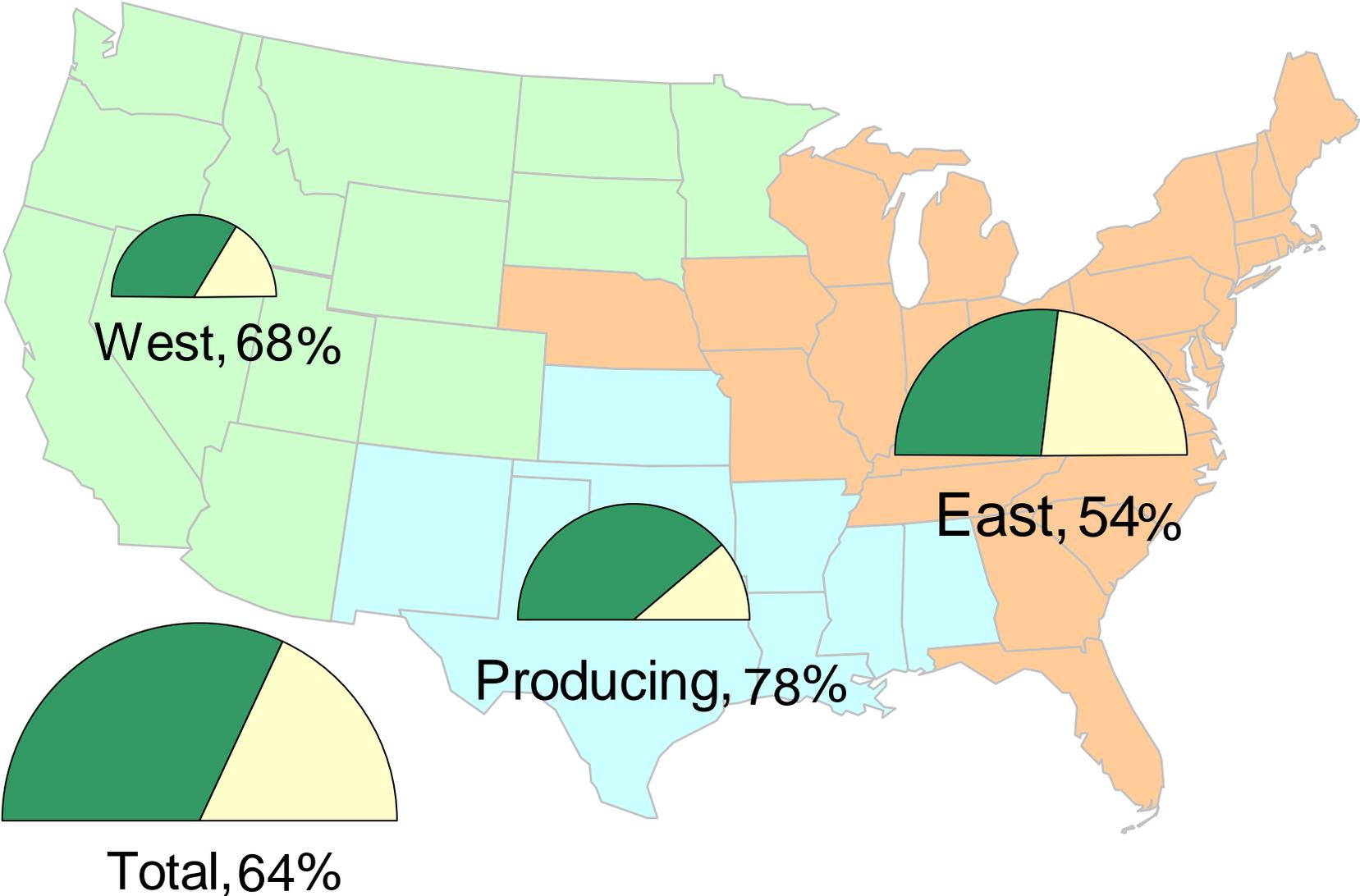
Updated: May 14, 2012

20021

## Natural Gas Market Overview: Drilling Rig Count

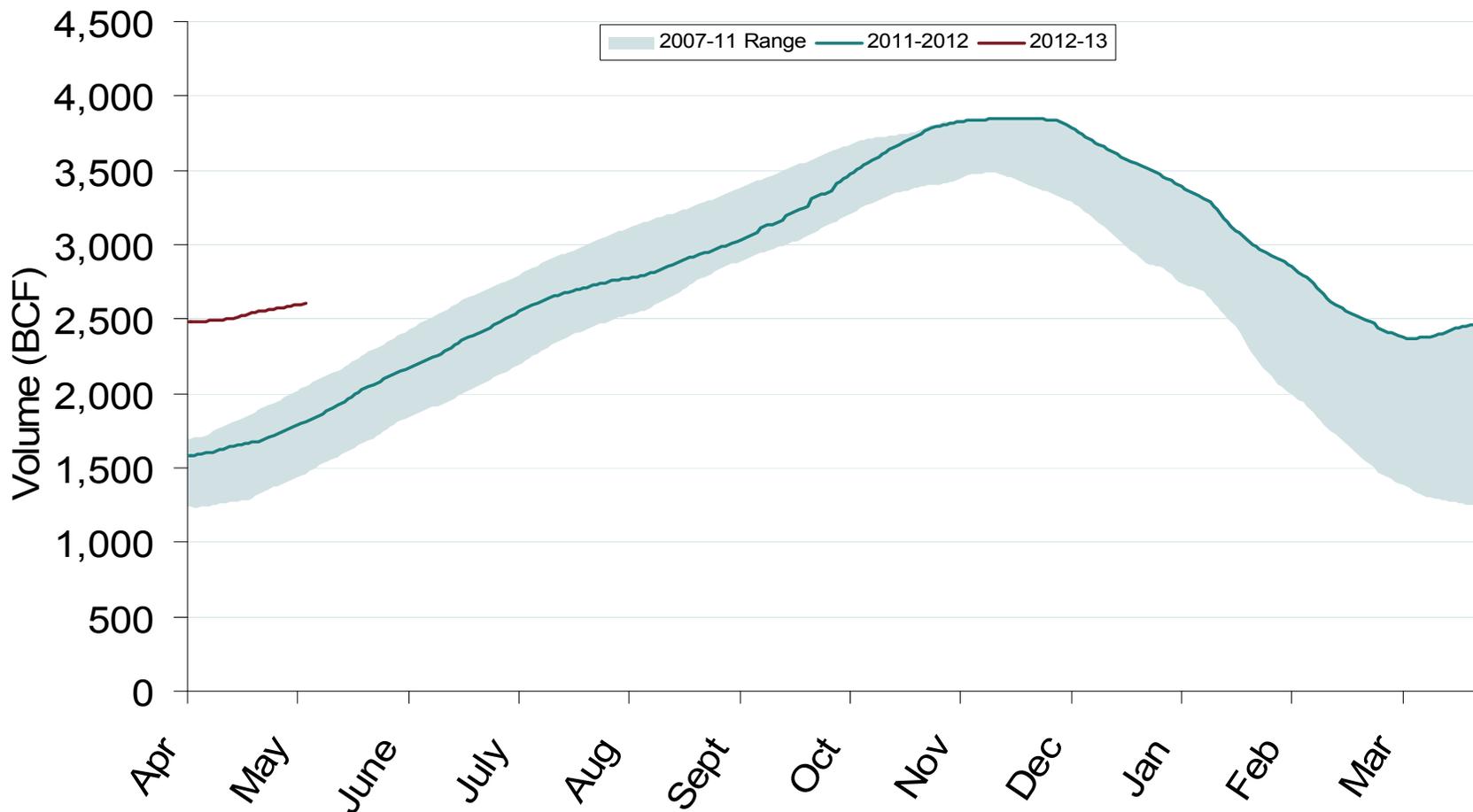
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices**

# Natural Gas Storage Inventories – May 4, 2012



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

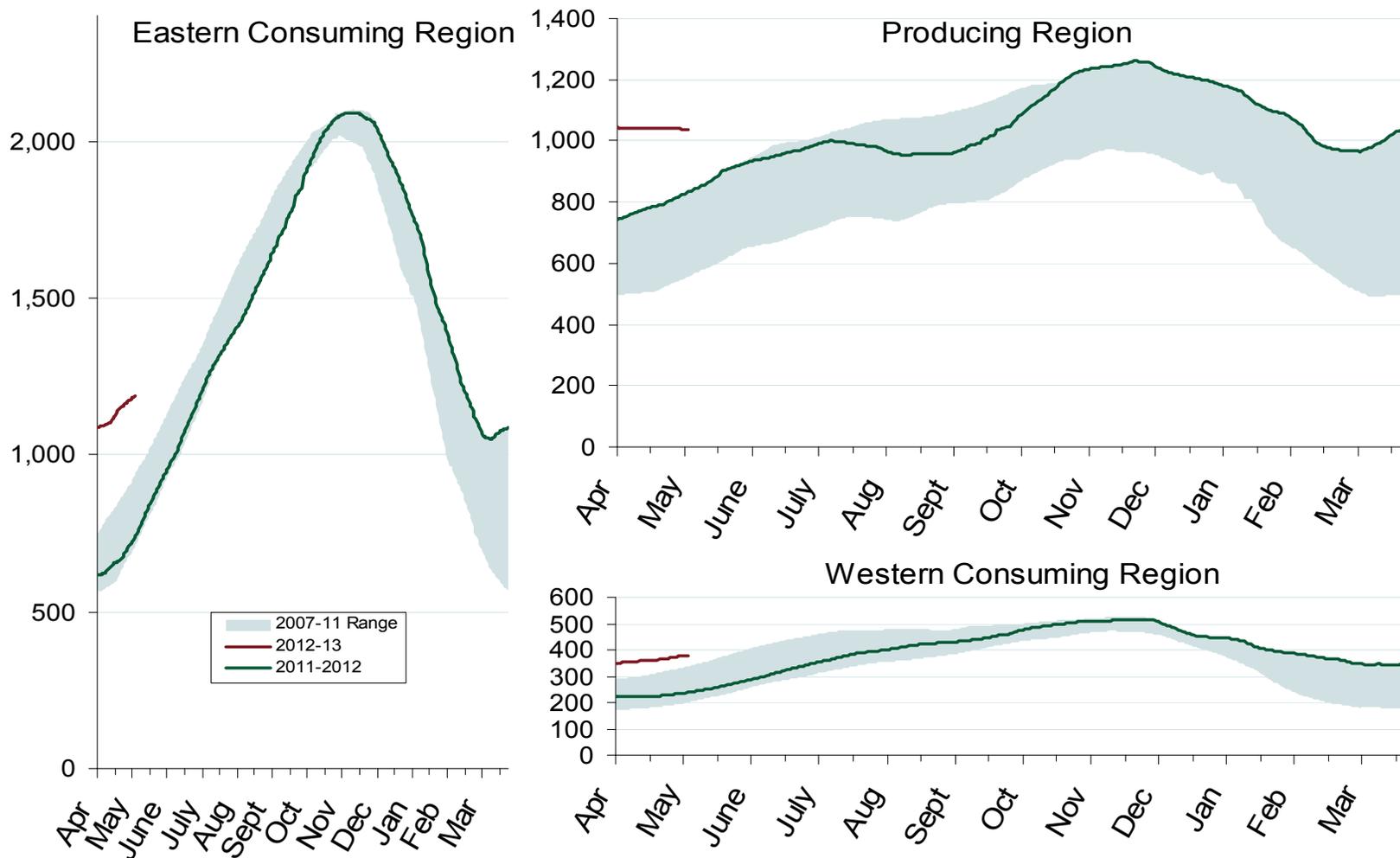
## Total U.S. Working Gas in Storage



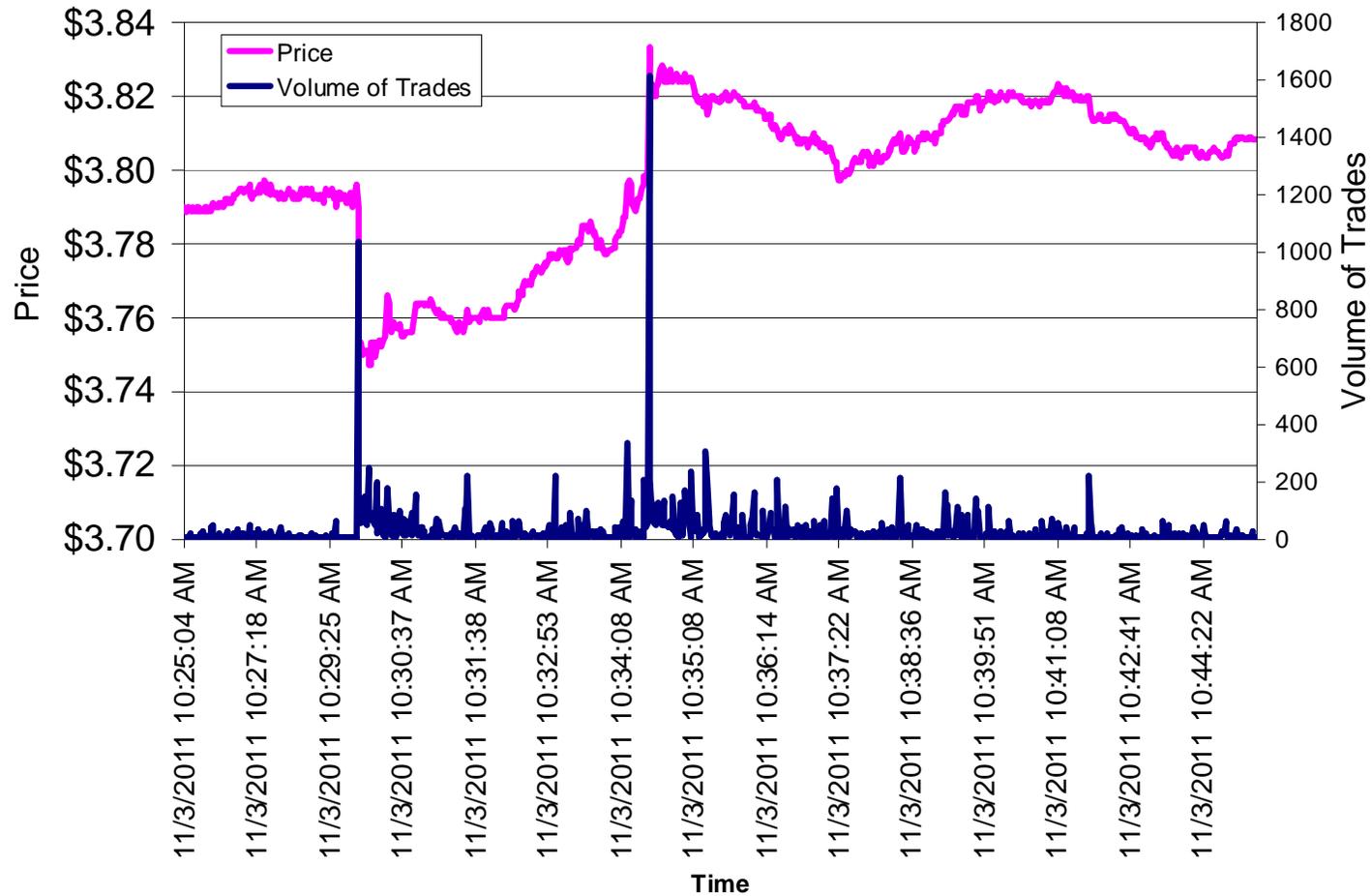
Natural Gas Market Overview: Regional Storage

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

## Regional Totals of Working Gas in Storage



## Sharp Natural Gas NYMEX Movements After Release of EIA Storage Report



Source: Derived from Bloomberg data

## Natural Gas Overview: World LNG Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**World LNG Estimated June 2012 Landed Prices**Source: *Waterborne Energy, Inc.* Data in \$US/MMBtu

May 2012 Southeast Snapshot Report

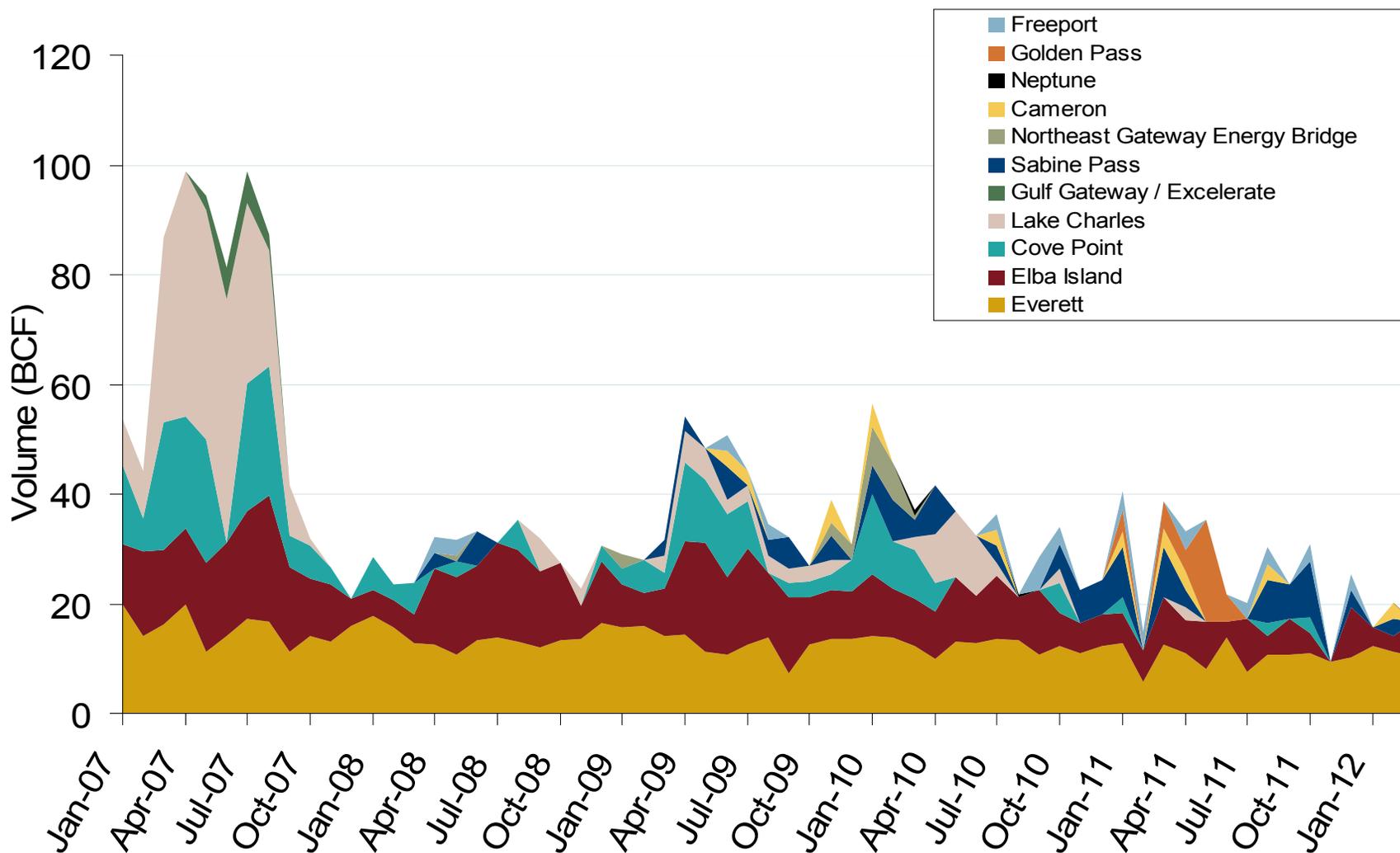
Updated: May 19, 2012

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LNG Market: Monthly LNG Imports

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

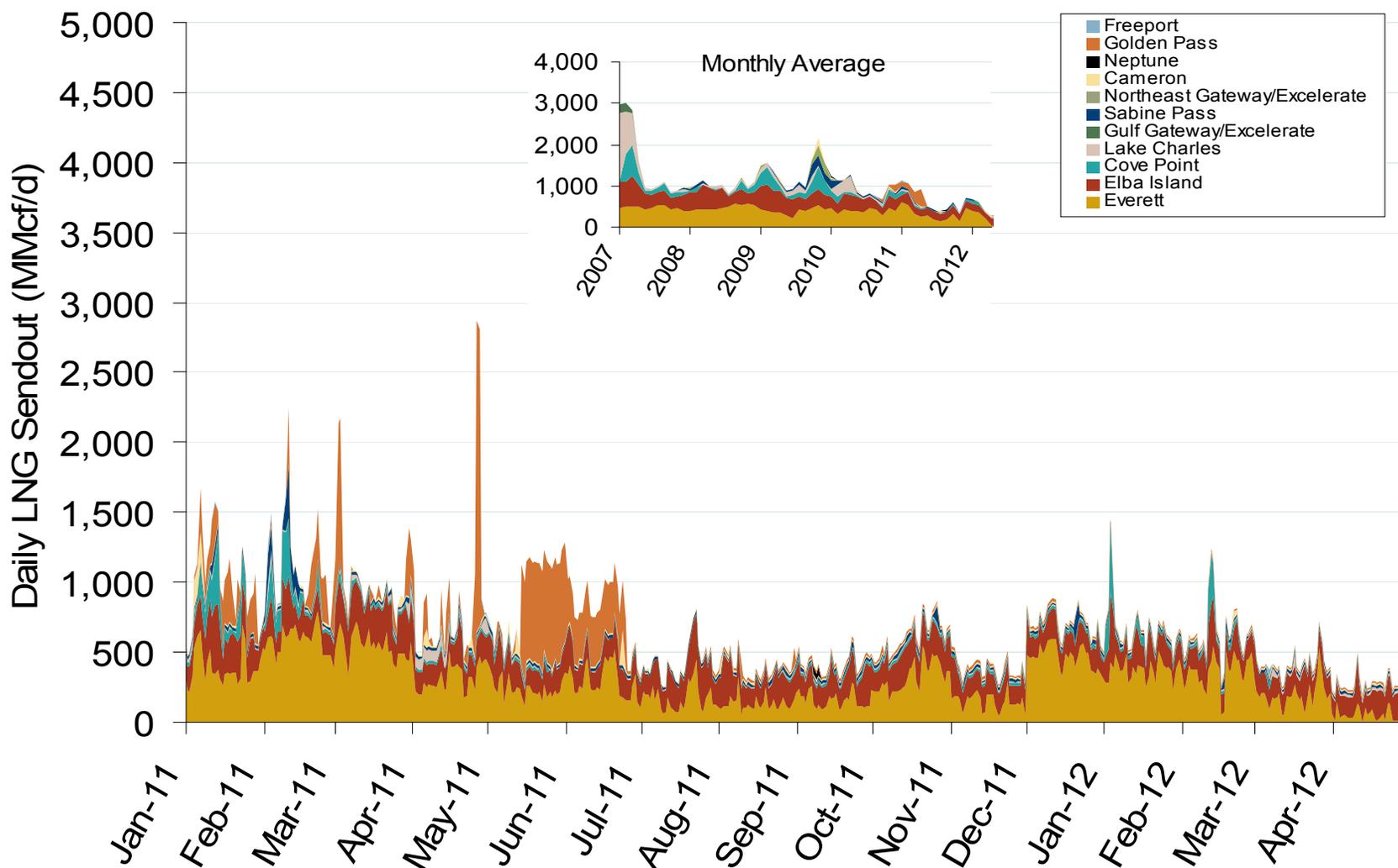
## Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data  
 May 2012 Southeast Snapshot Report

Updated: May 14, 2012

## LNG Market: Daily Gas Sendout

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Daily Gas Sendout from Existing U.S. LNG Facilities**

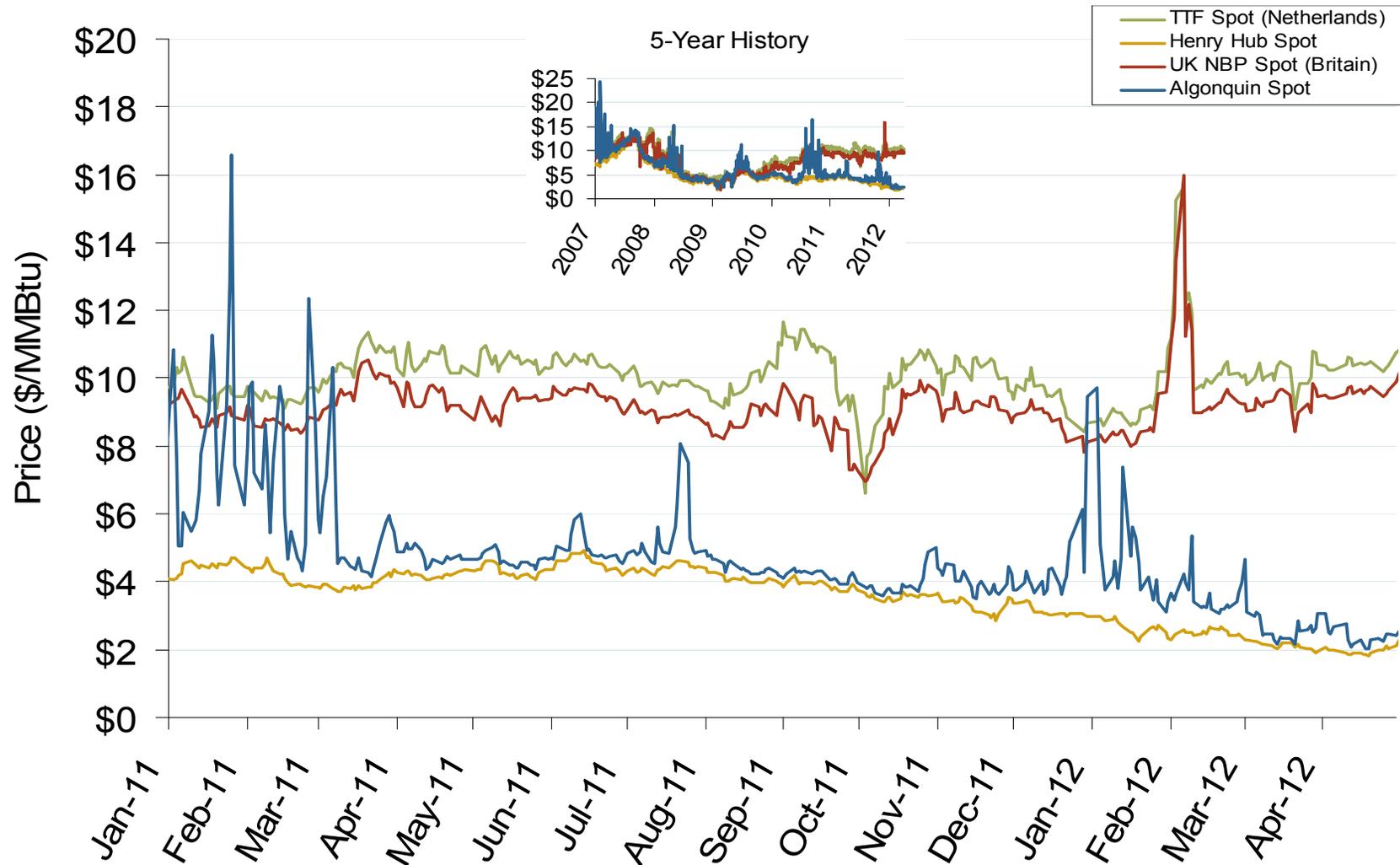
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from *Bentek Energy* data

Updated: May 14, 2012

May 2012 Southeast Snapshot Report

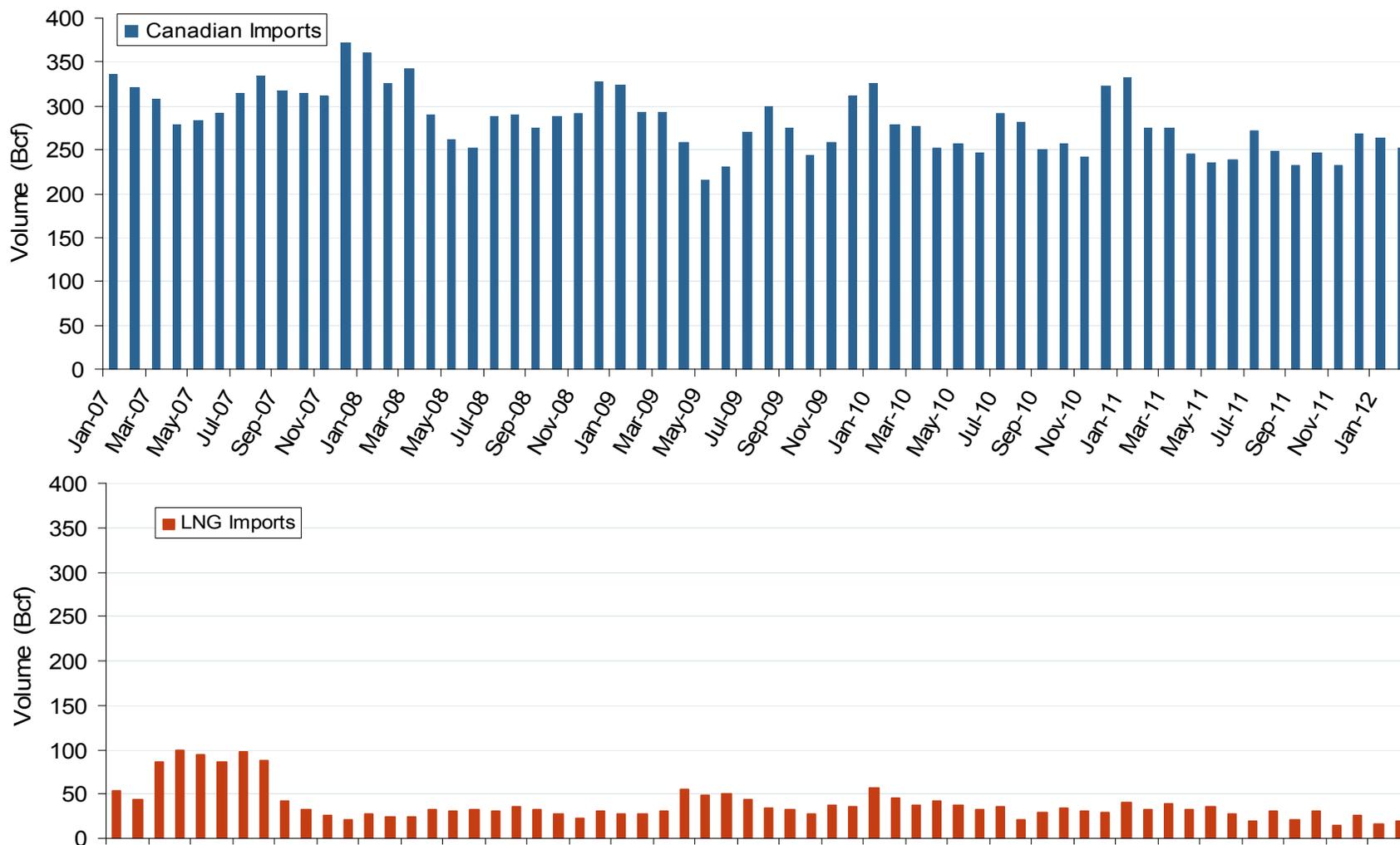
## Atlantic Basin European and US Spot Natural Gas Prices



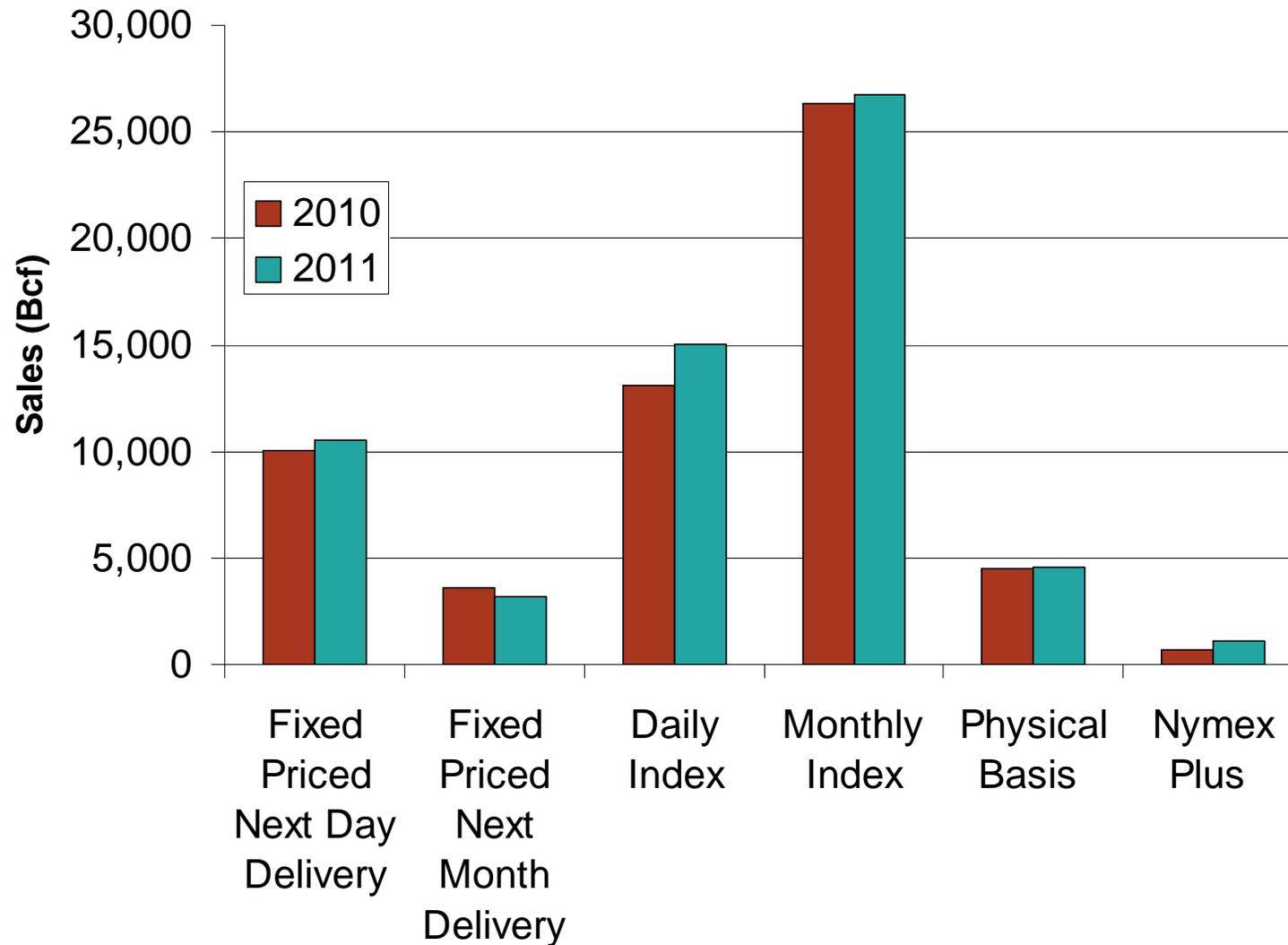
Natural Gas Overview: Natural Gas Imports

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.



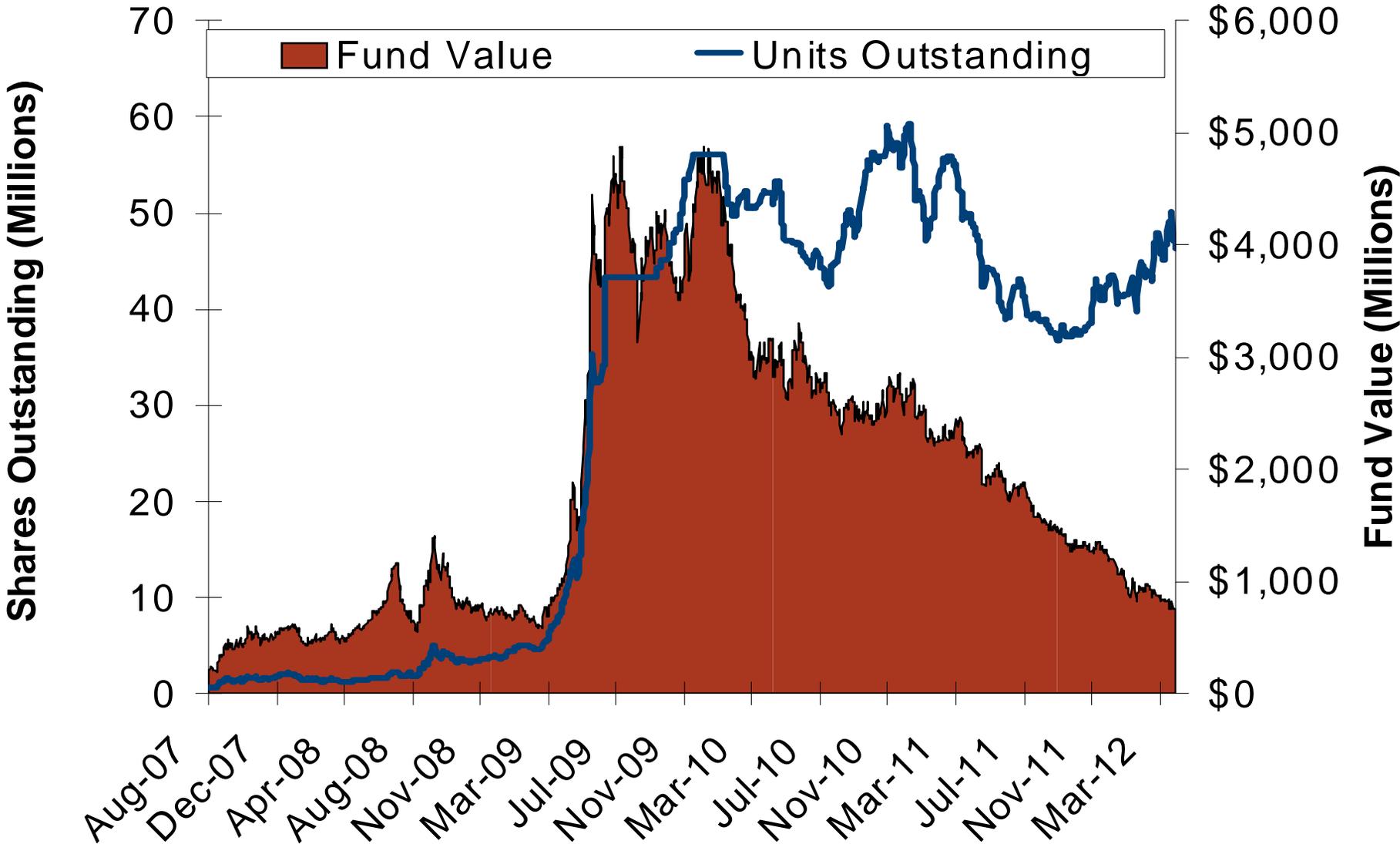
## Volume of Daily Index Deals Rose by 1.9 Tcf in 2011



Source: Derived from FERC Form 552 data.

Updated: May 4, 2012

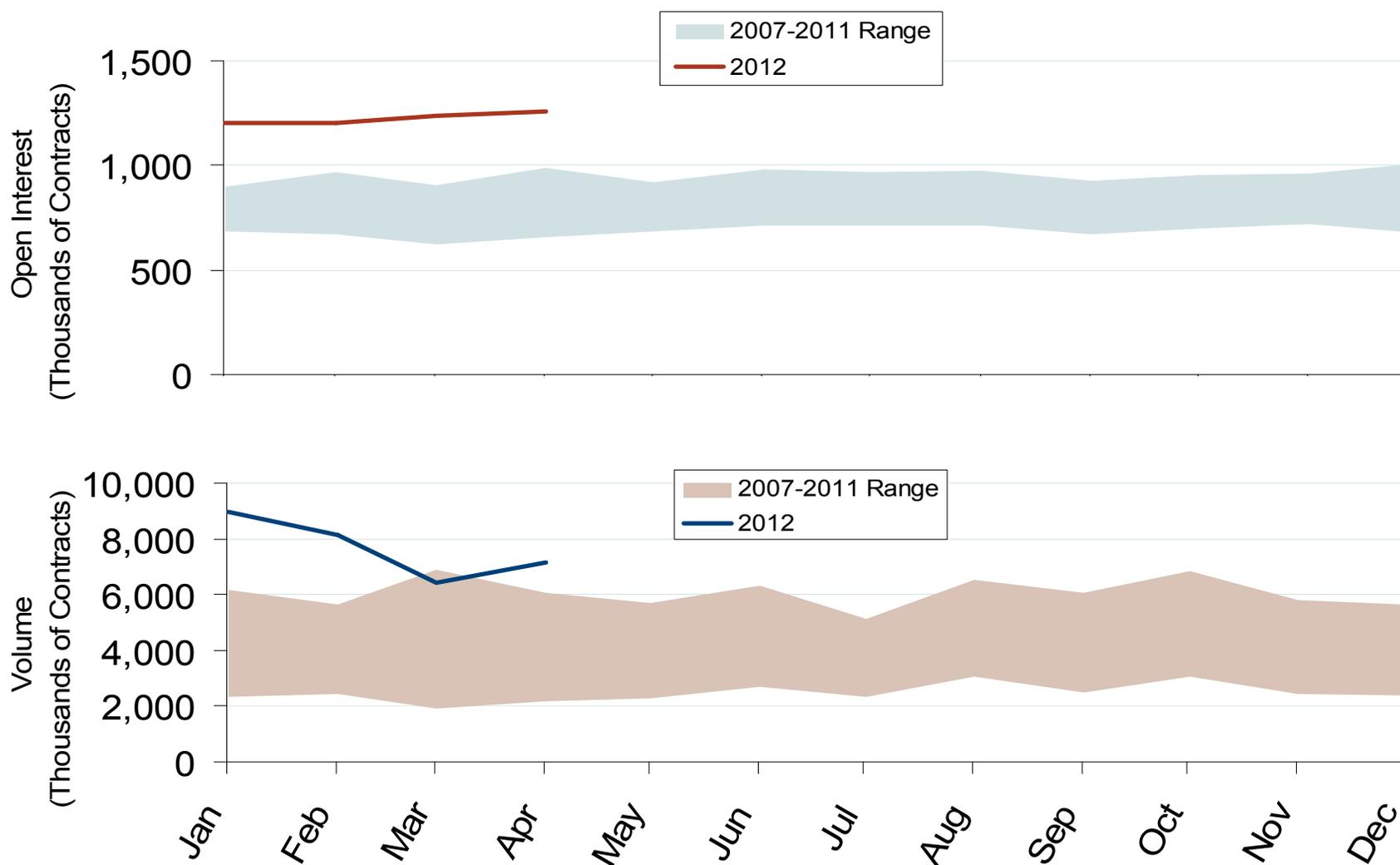
# UNG's value falls 85%



Source: Bloomberg

Updated: May 10, 2012

## Natural Gas Trading: Futures Open Interest and Volume

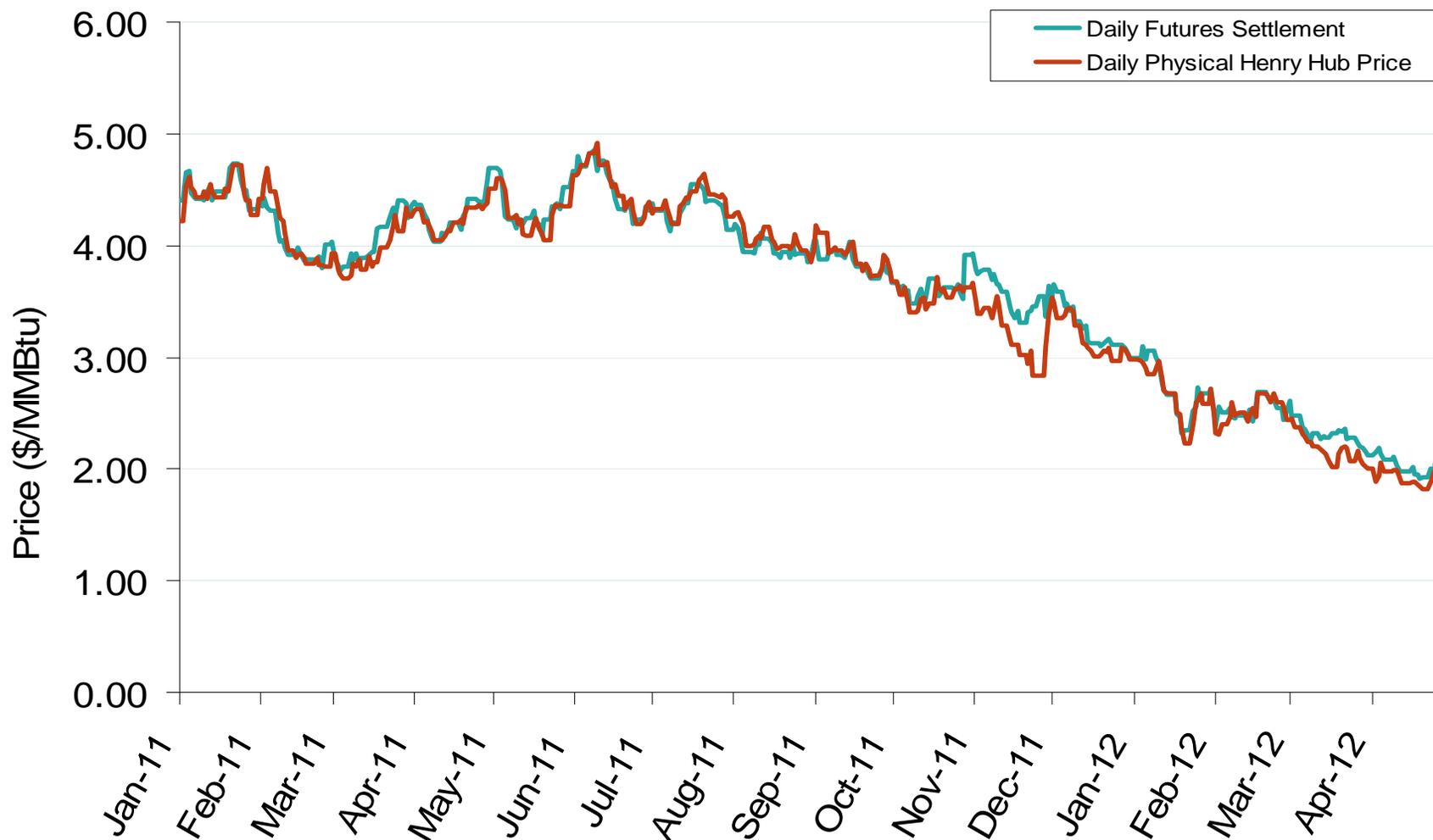
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Nymex NG Futures Month-End Open Interest and Monthly Volume**Source: Derived from *Nymex* data

May 2012 Southeast Snapshot Report

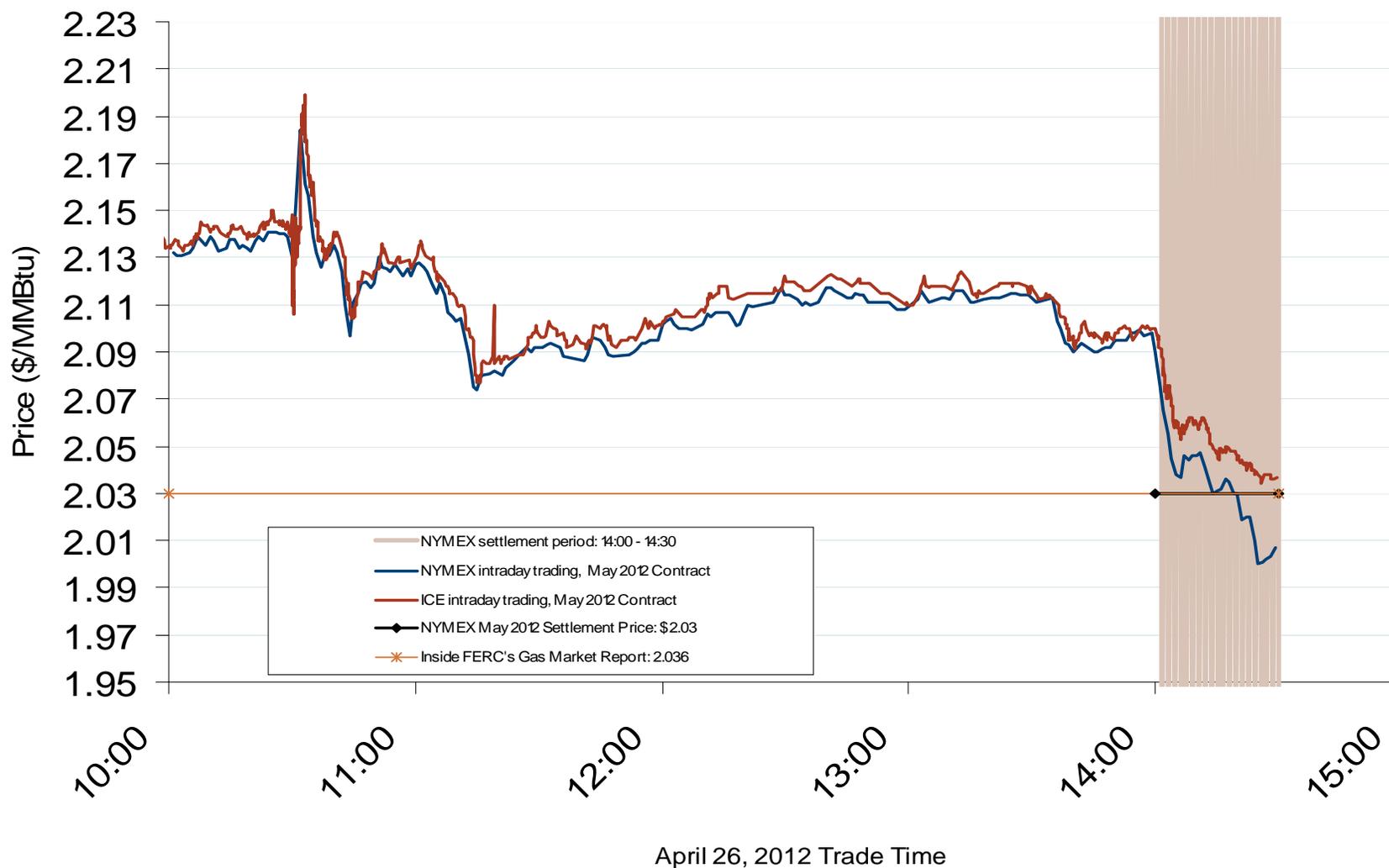
Updated: May 15, 2012

2010

## Natural Gas Trading: Physical and Futures Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Daily Physical Index Price & Daily Futures Settlement Price**

## Gas Futures Trading: Nymex Contract and ICE Look-alike Settlement

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Nymex and ICE Contract Final Settlement - May 2012**

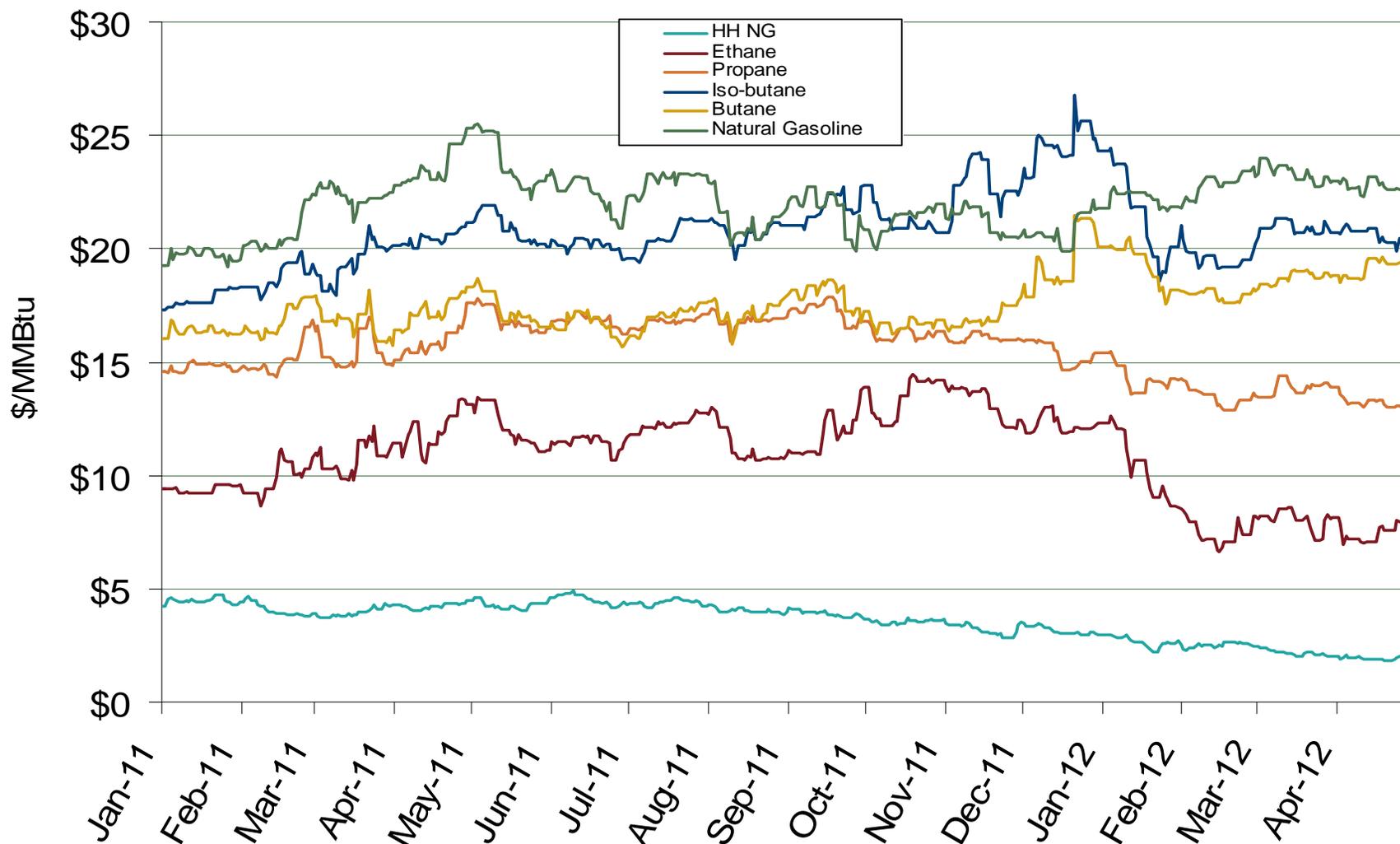
Notes: The final settlement day for this Nymex contract is three business days before the start of the contract term (which is the 1st day of the month)

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

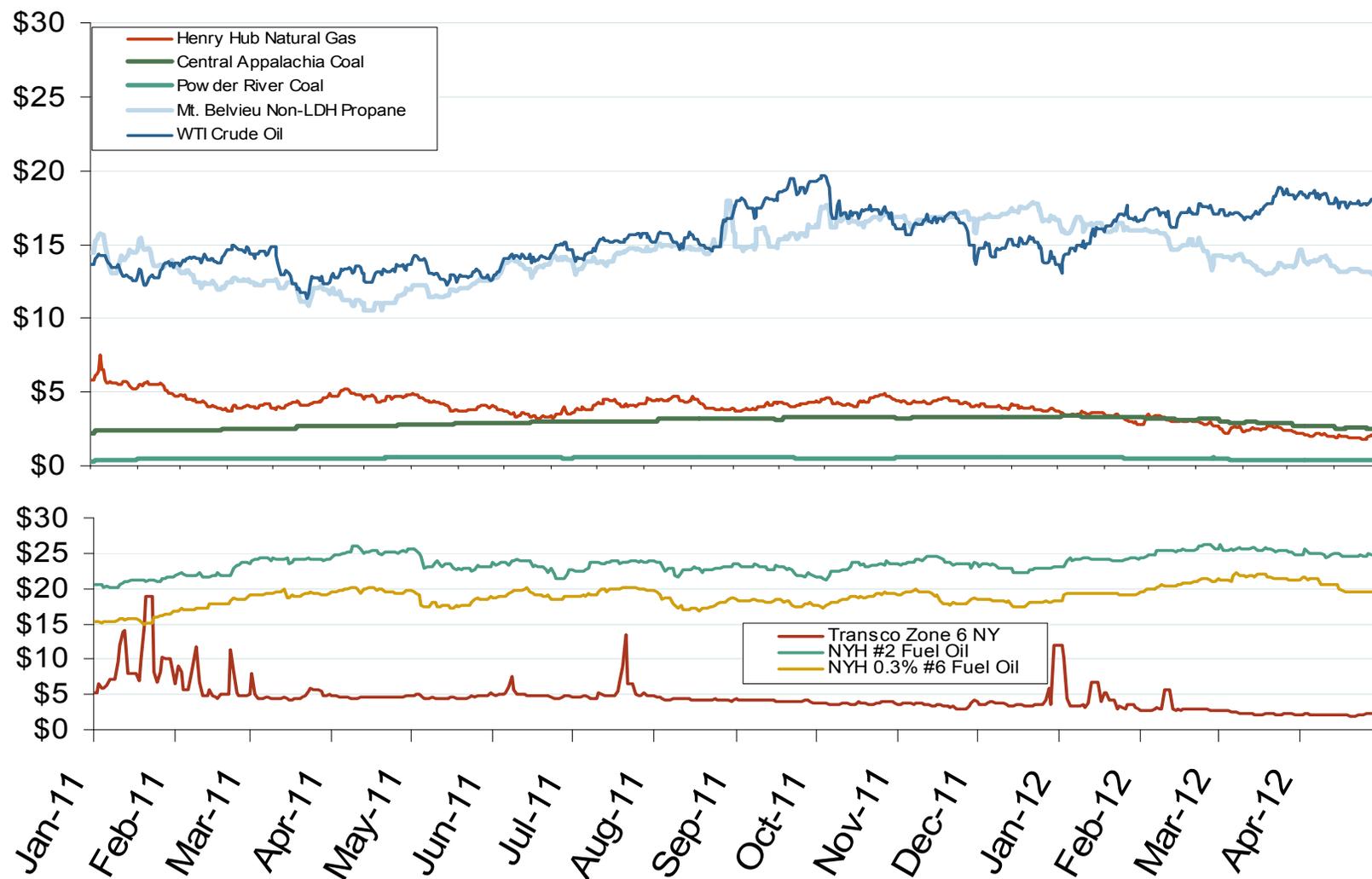
May 2012 Southeast Snapshot Report

Updated: May 23, 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**

## Other Fuels Market: Fossil Fuel Prices

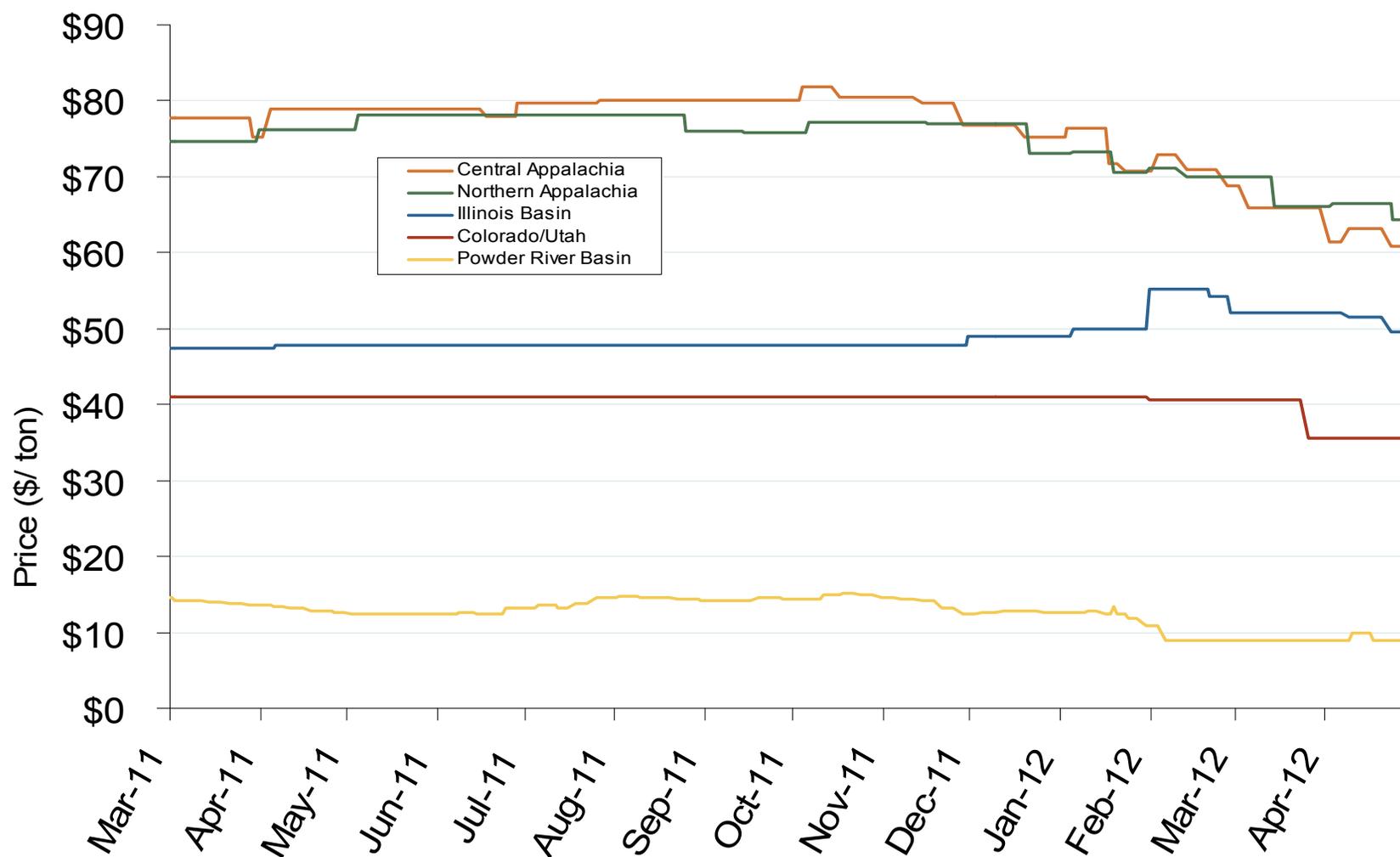
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Oil, Coal, Natural Gas and Propane Daily Spot Prices**

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: May 15, 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

Updated: May 15, 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**