

# OE ENERGY MARKET SNAPSHOT

## Northeast States Version – September 2011 Data

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- **Weather**
- **Electricity Markets**
- **Natural Gas and Fuel Markets**

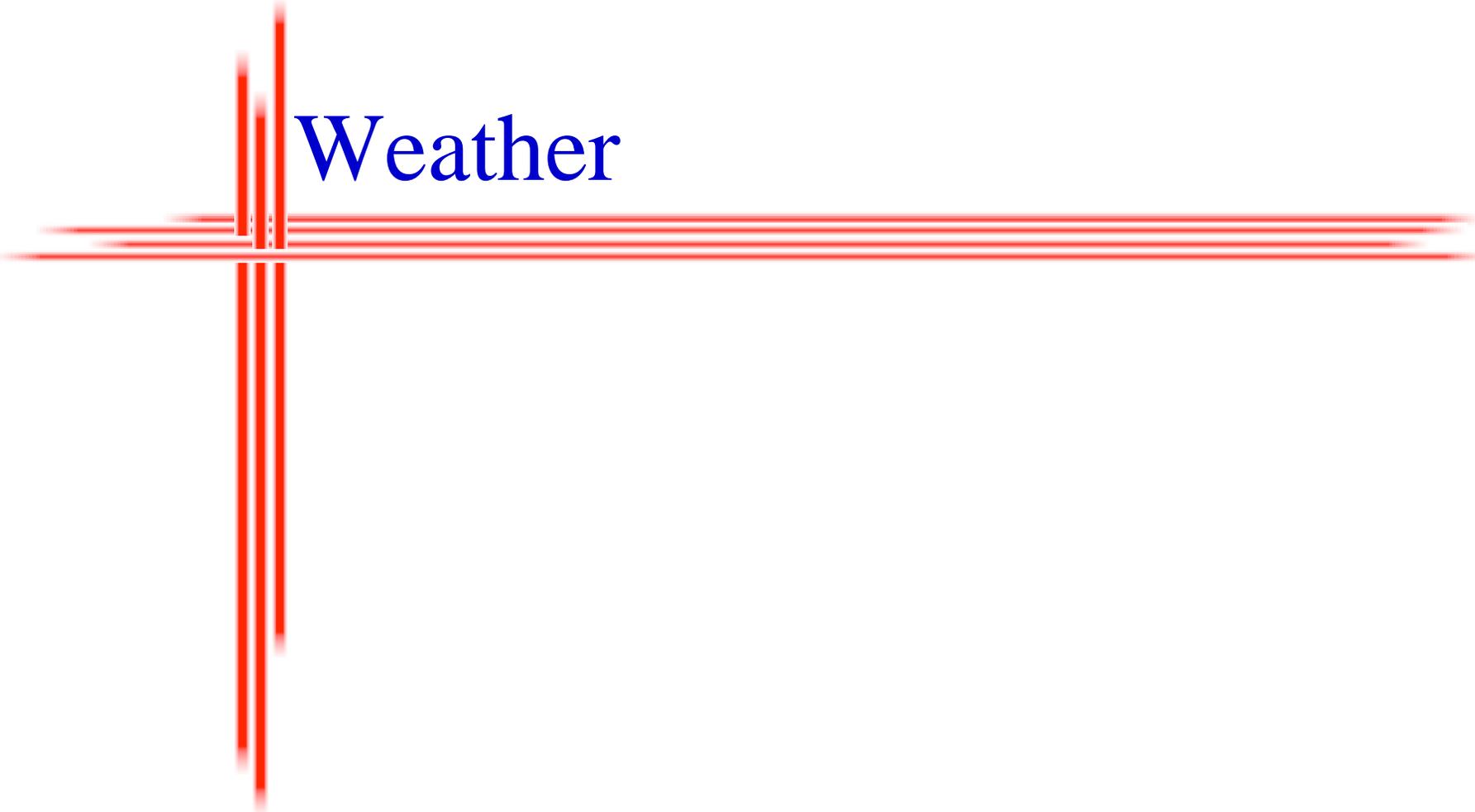
Office of Enforcement  
Federal Energy Regulatory Commission  
October 2011



# Infrastructure Report

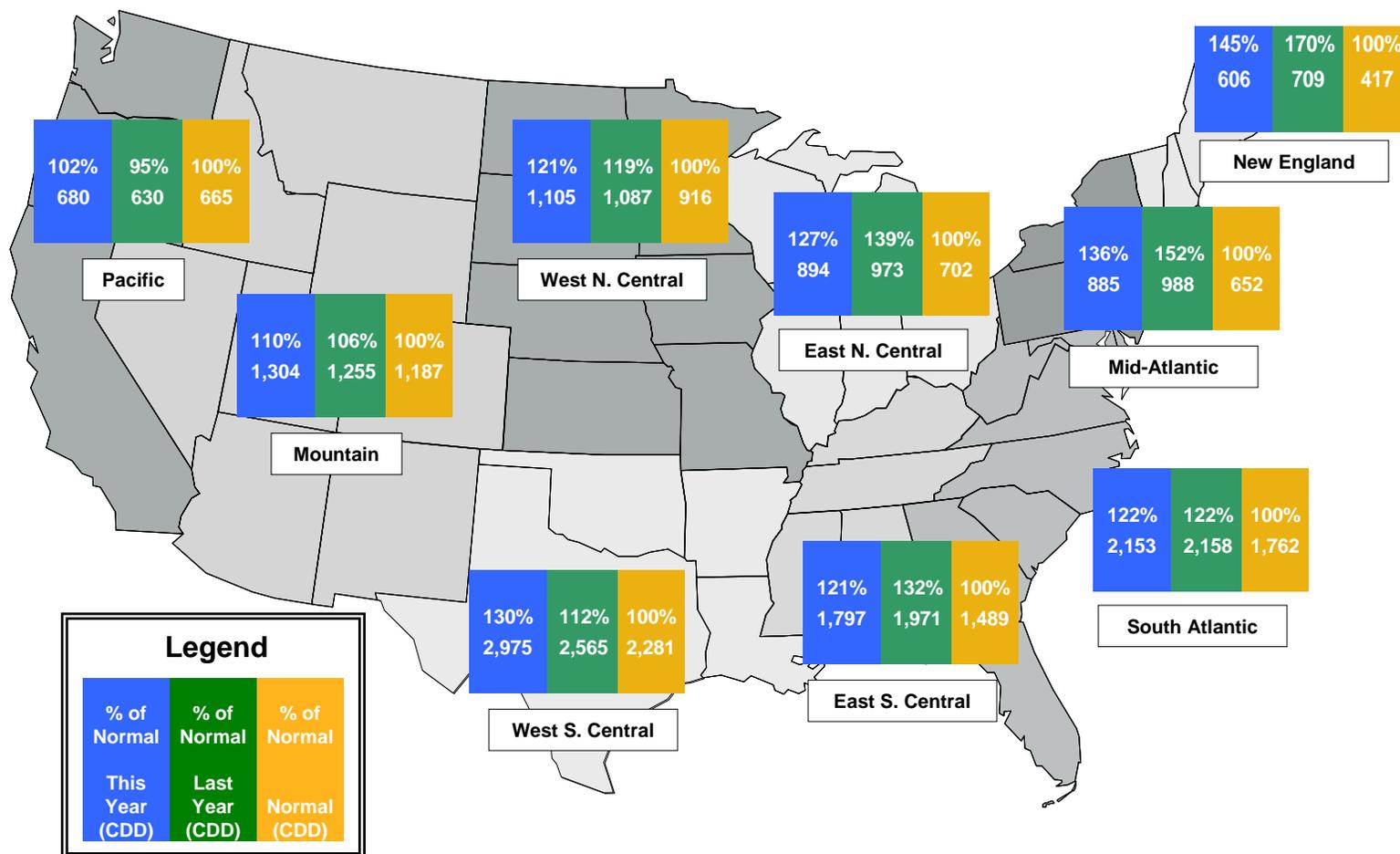
## Infrastructure Report

<http://www.ferc.gov/legal/staff-reports/09-19-11-energy-infrastructure.pdf>



# Weather

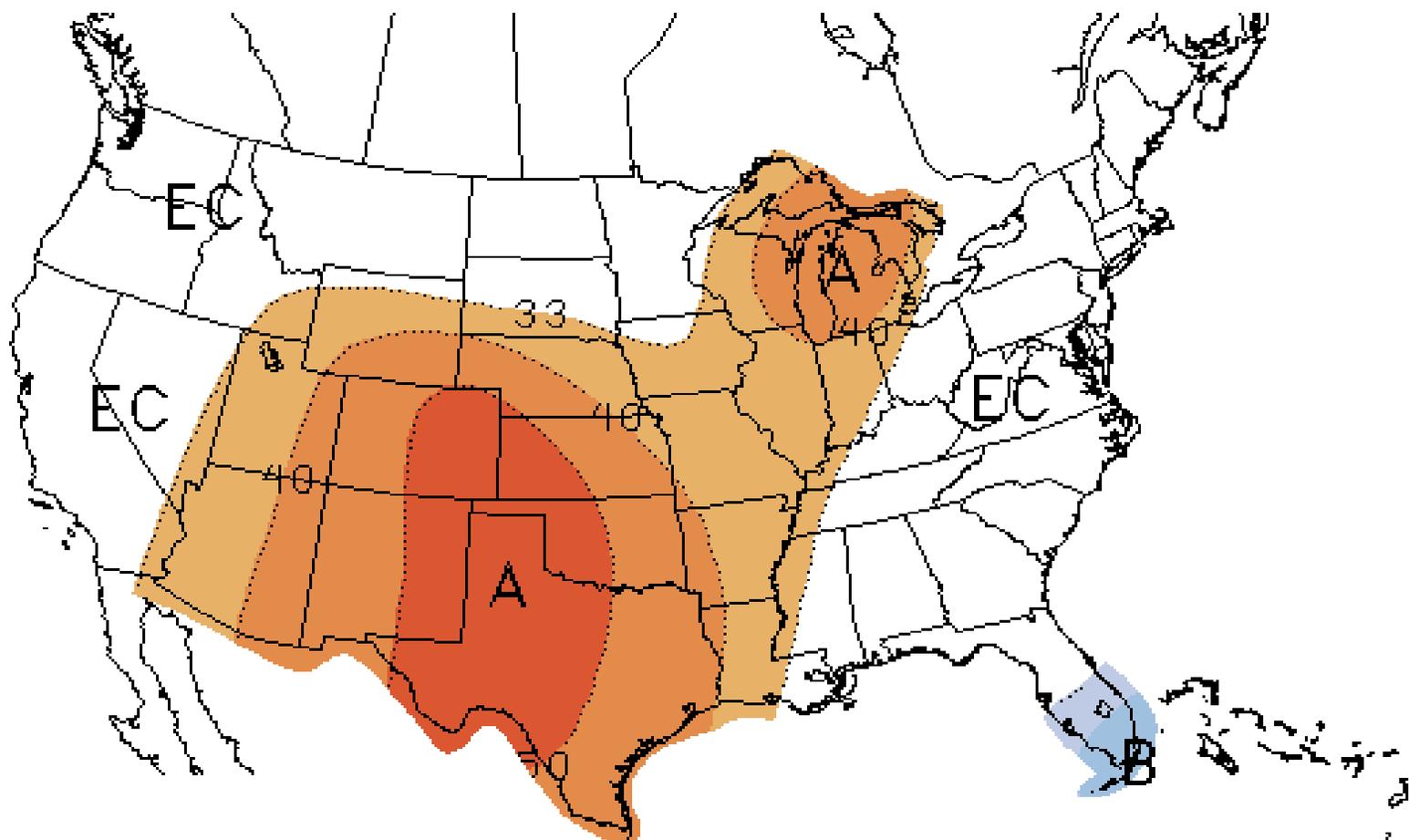
## Regional Cooling Degree Days – January Through September 2011



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

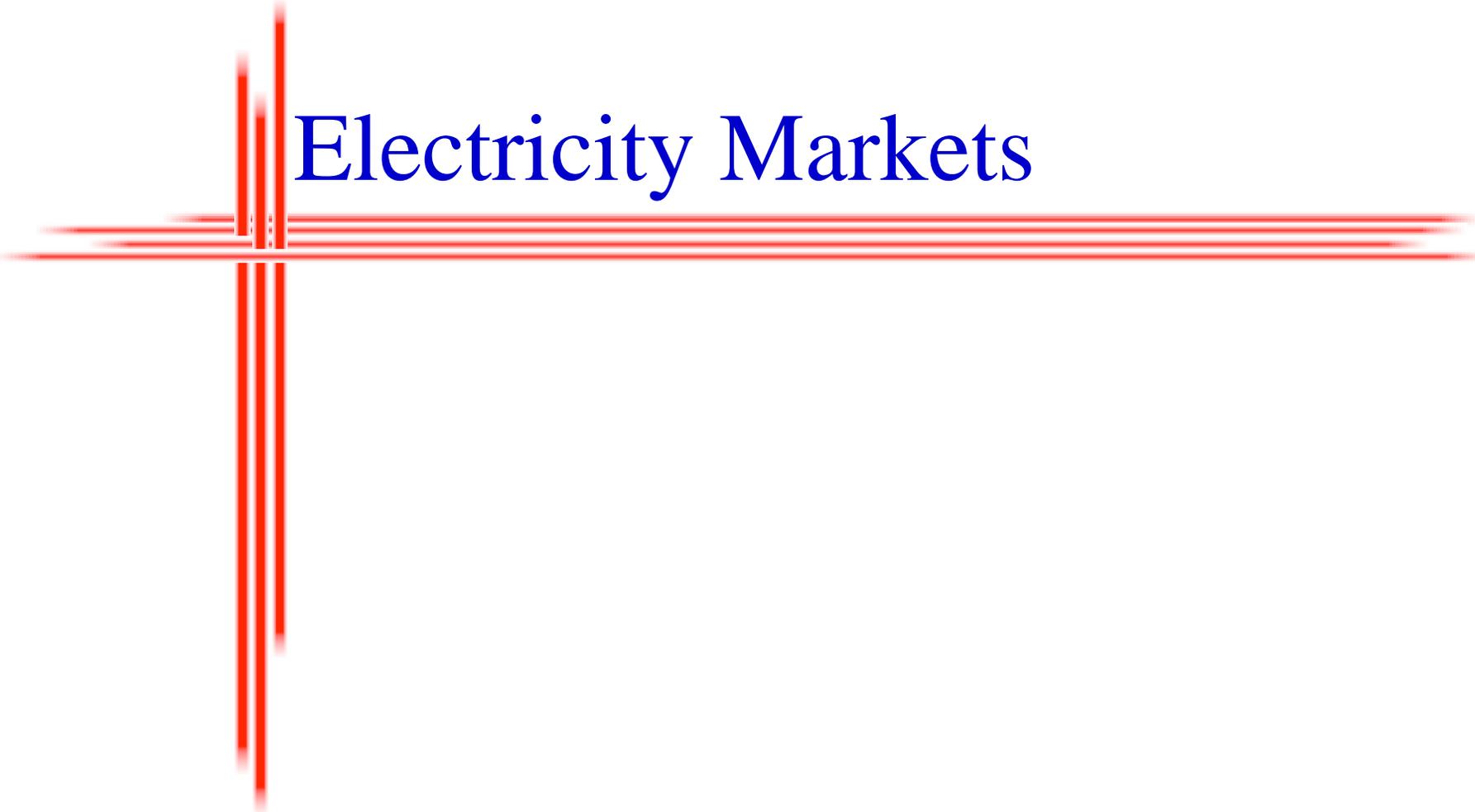
Updated October 4, 2011

## NOAA's 3 Month Temperature Forecast Made September 15, 2011, Valid for Oct – Dec 2011



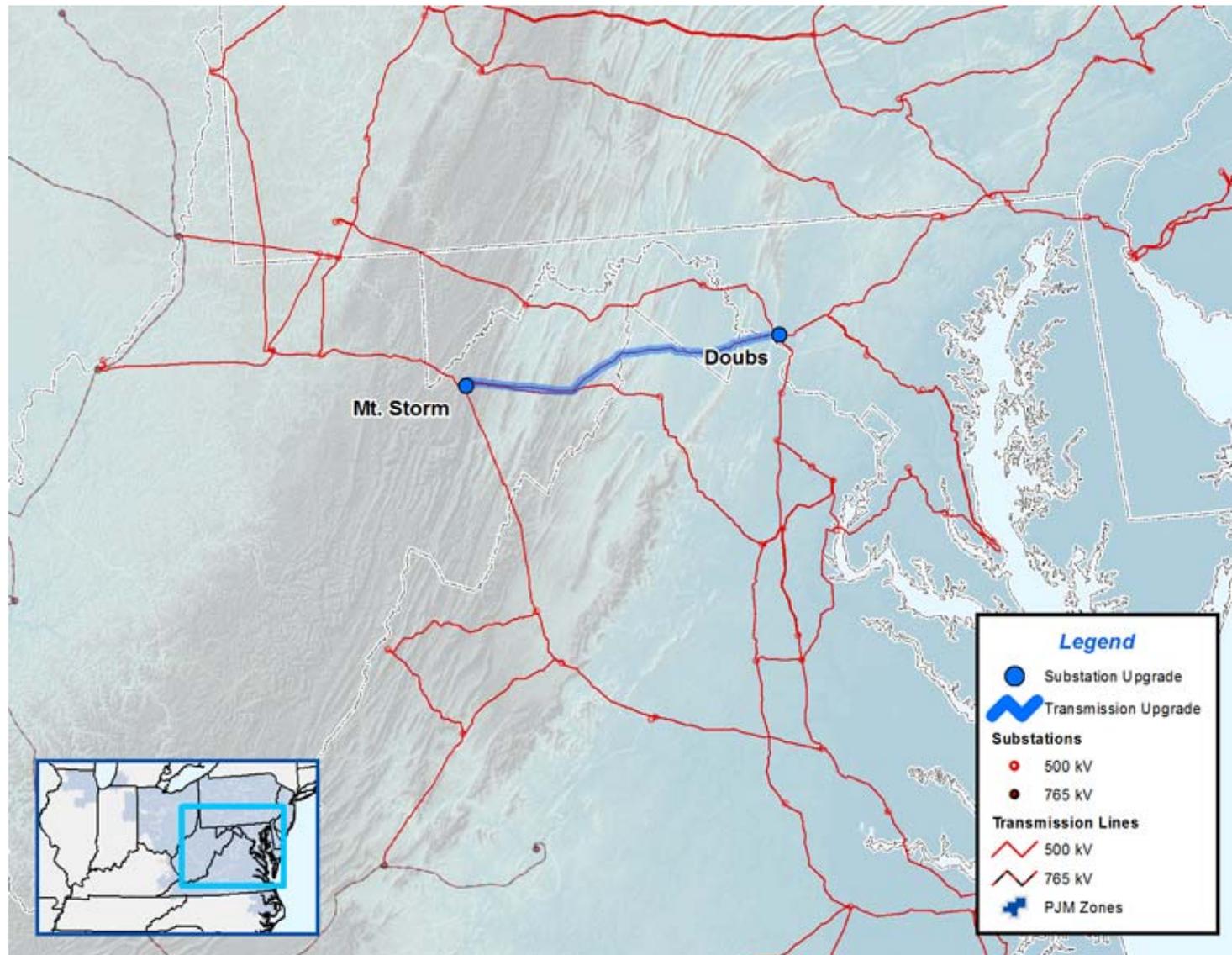
Note: "A" areas are above normal, "B" areas are below normal and "EC" means equal chance. Normal is based on the last 30 years of data.  
Source: Derived from NOAA data.

Updated October 4, 2011

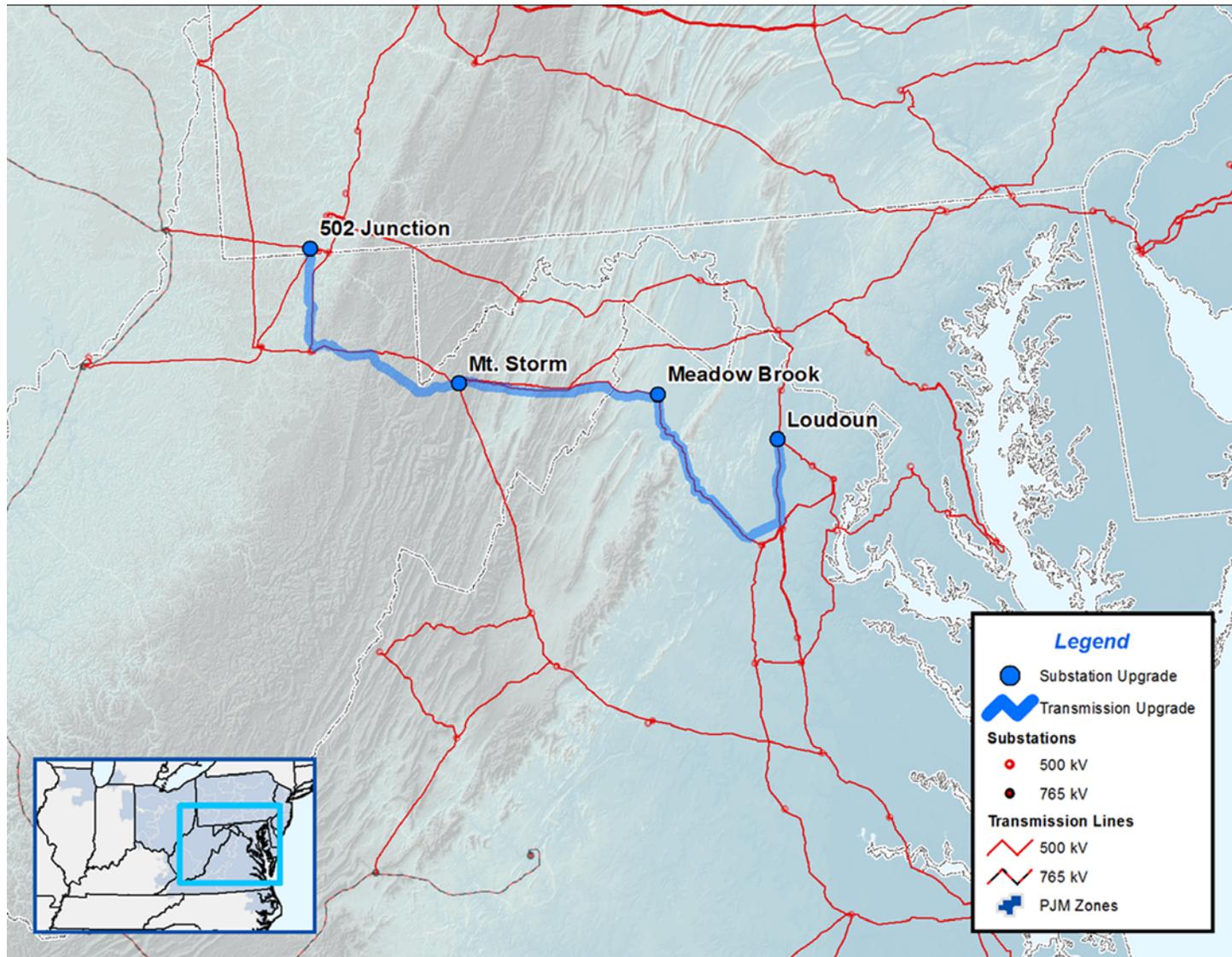


# Electricity Markets

## Mt Storm Doubs Is a Major PJM Transmission Path

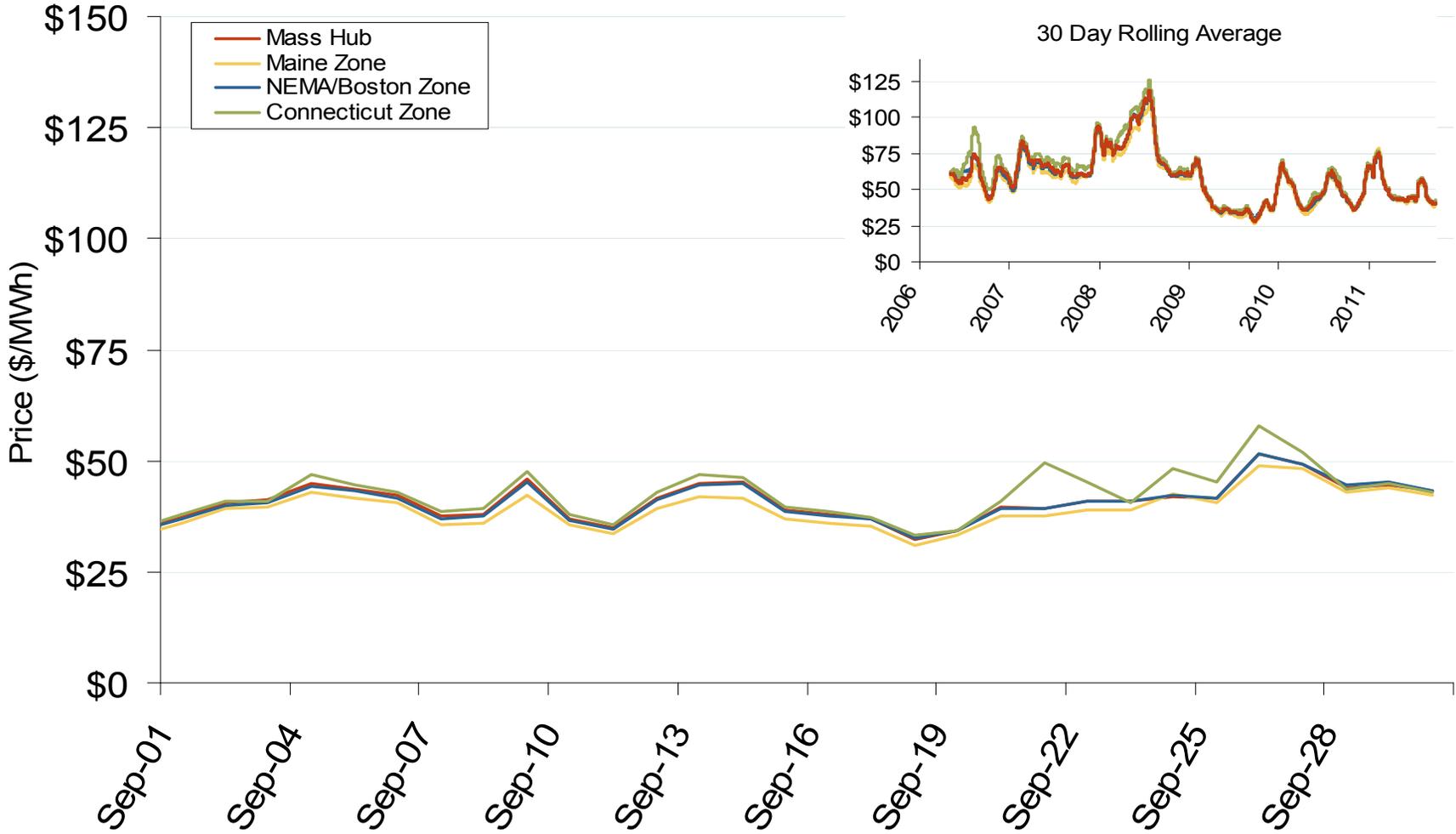


## TrAIL Parallels Mt. Storm Doubs Line



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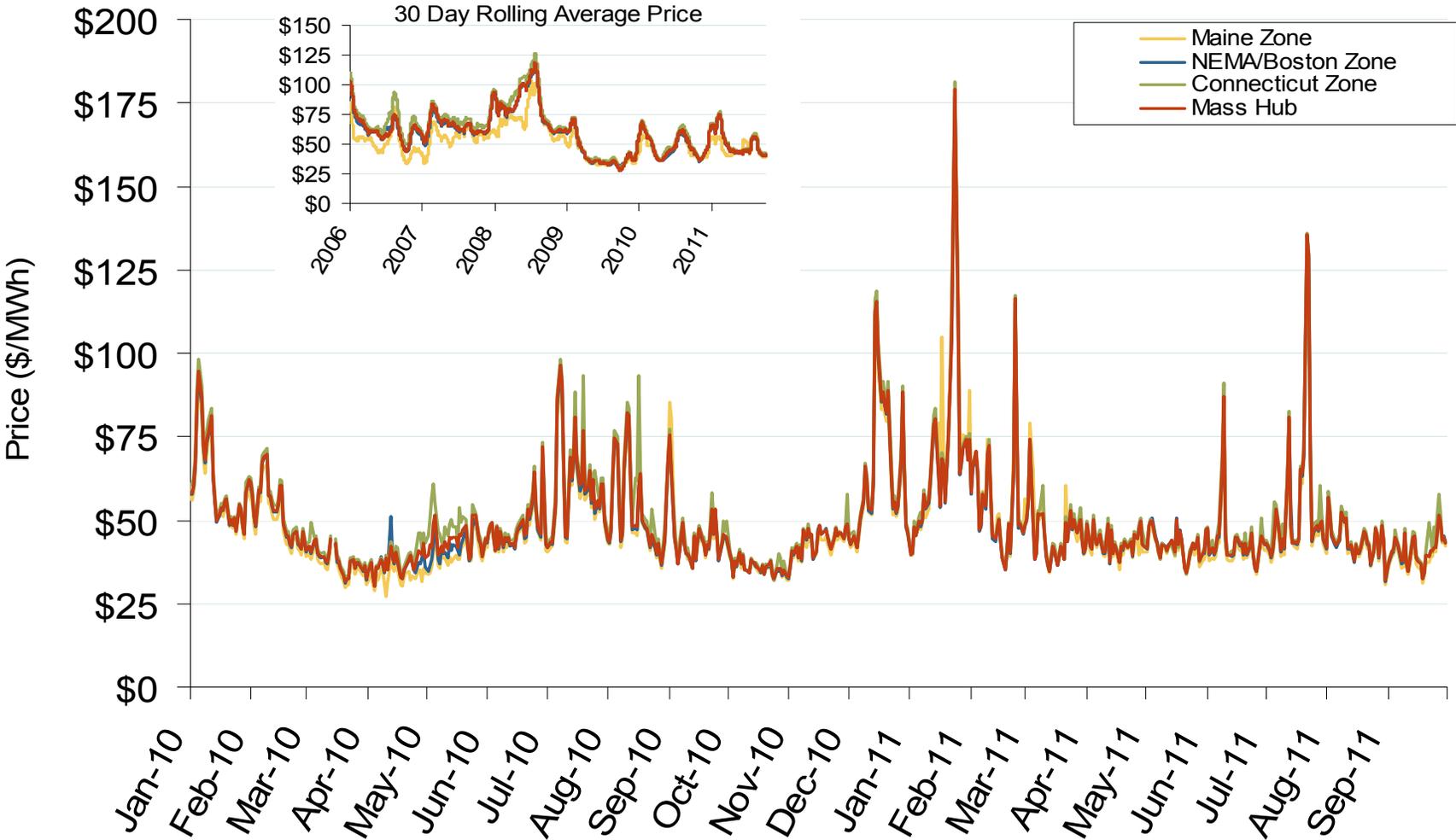
# Daily Average of ISO-NE Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

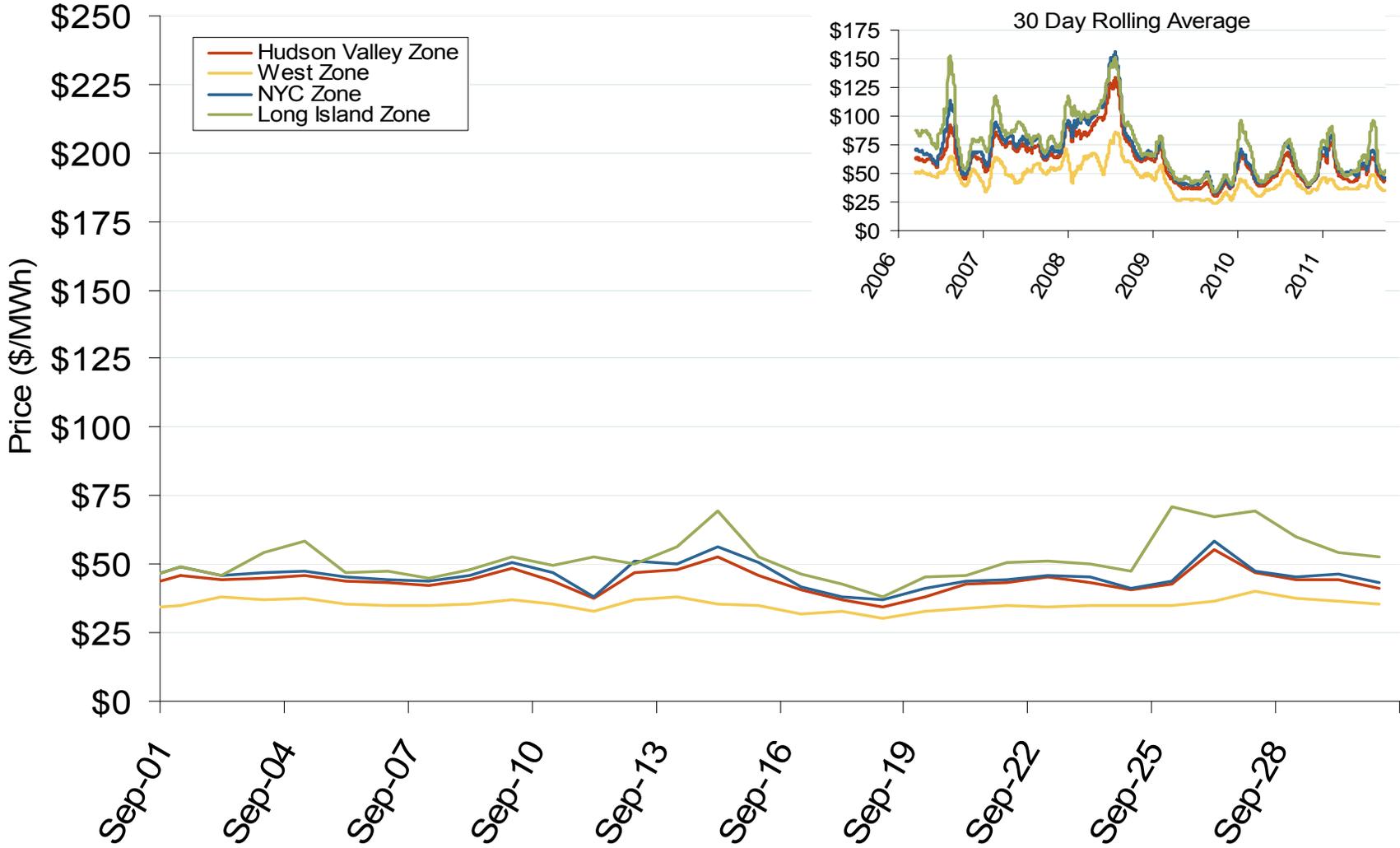
### Daily Average of ISO-NE Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

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



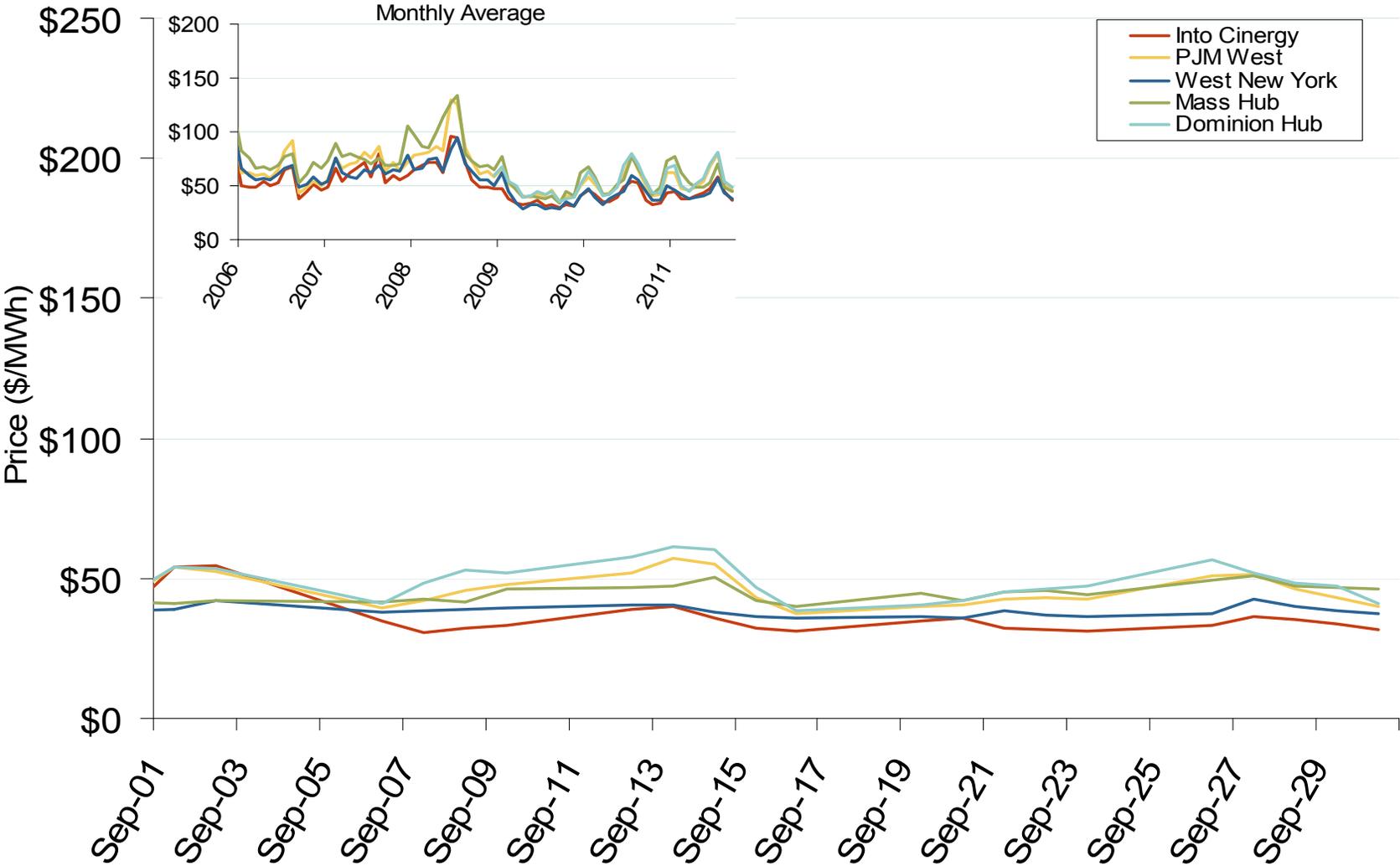
Source: Derived from Bloomberg data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

New England Electric Market: Last Month's Eastern Bilateral Prices

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

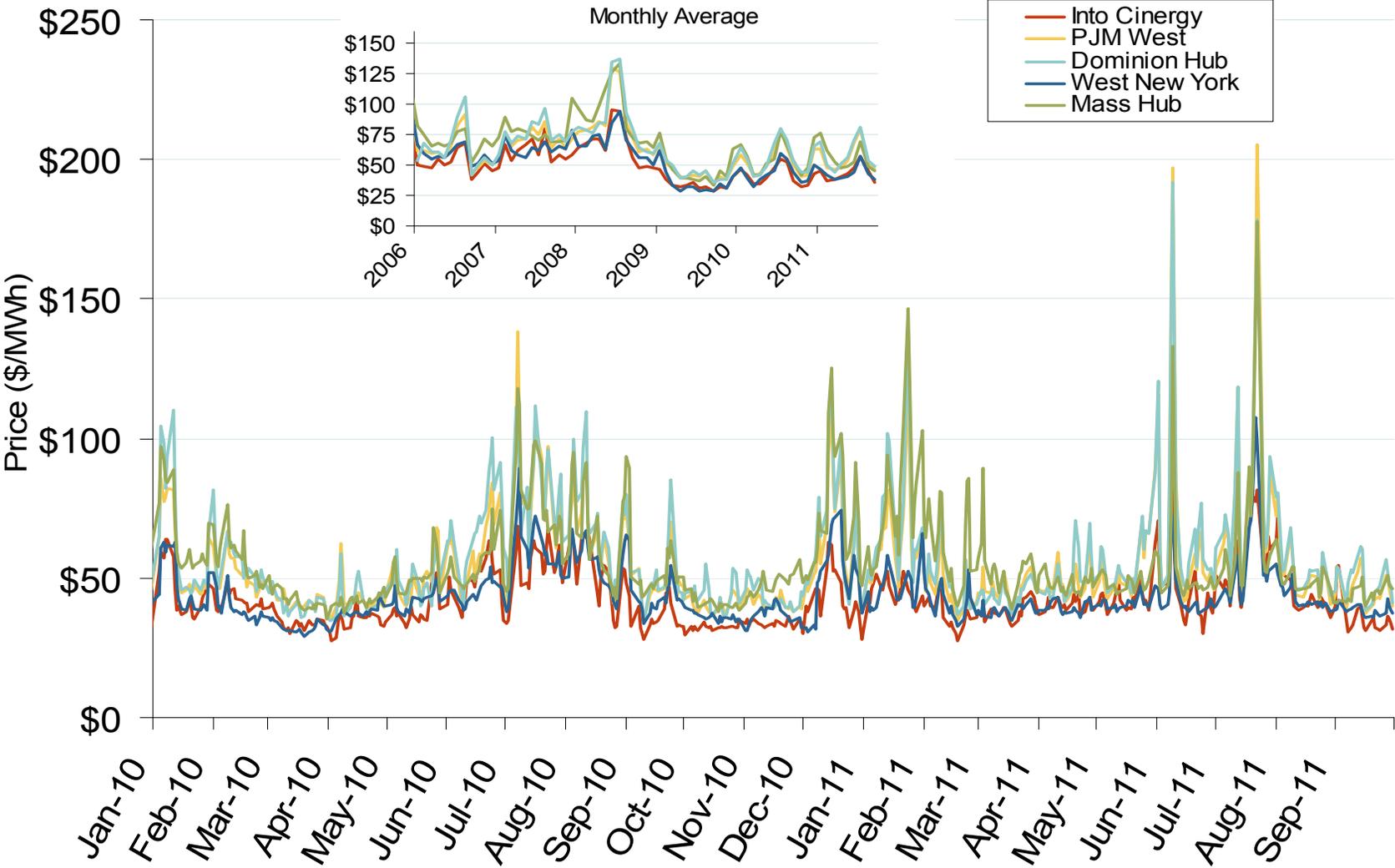
### Eastern Daily Bilateral Day-Ahead On-Peak Prices



Source: Derived from Platts data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

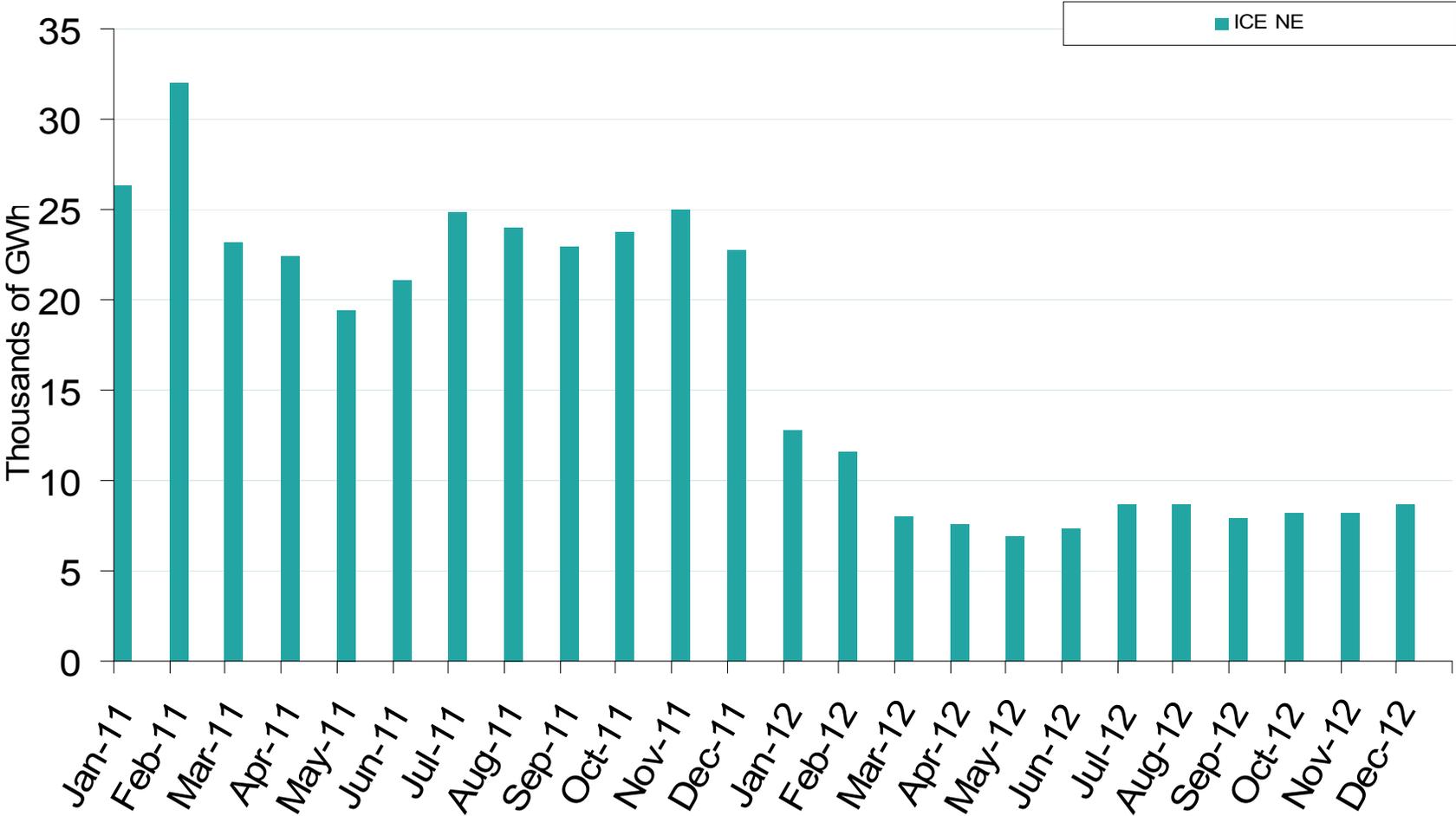
# Eastern Daily Bilateral Day-Ahead On-Peak Prices



Source: Derived from *Platts* data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

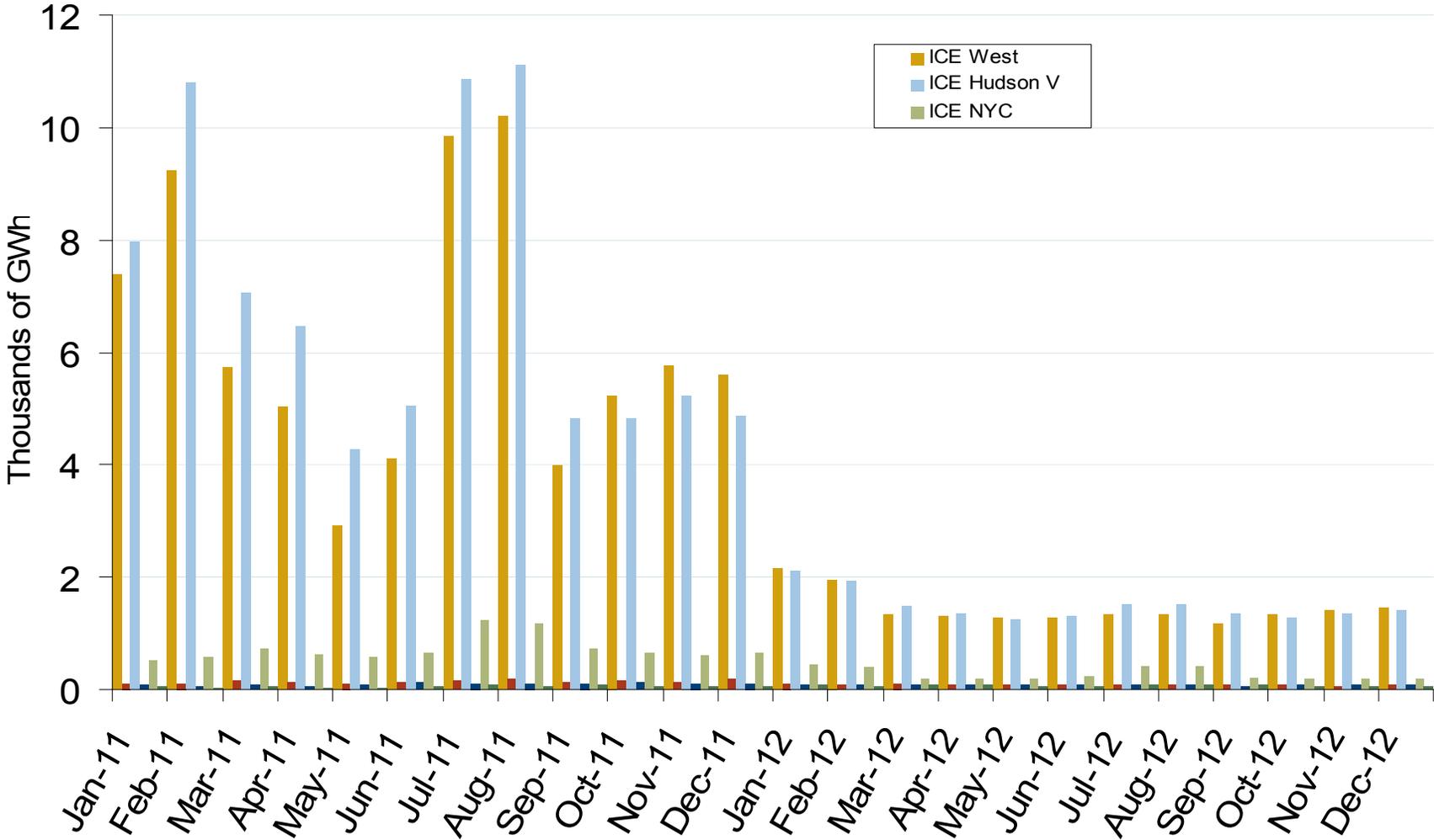
# New England Forward and Swap Volumes



Source: Derived from ICE data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

### Various New York Swap Volumes



Notes: ICE on-peak swaps (financial) volume are for zones A, G and J and include monthly, dual monthly, quarterly, and calendar year contracts traded for each month

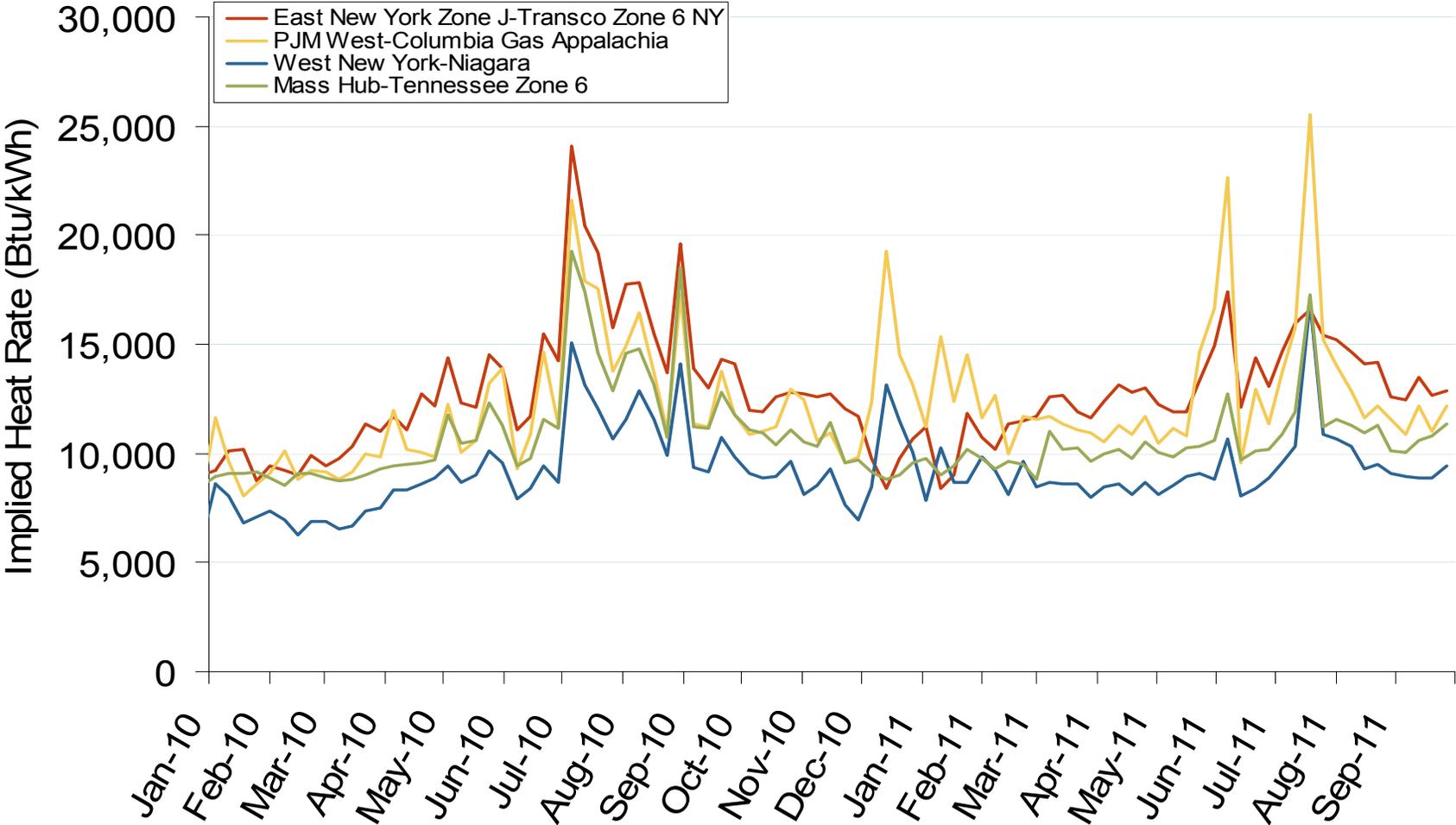
Source: Derived from ICE data

October 2011 Northeast Snapshot

Updated: October 05, 2011

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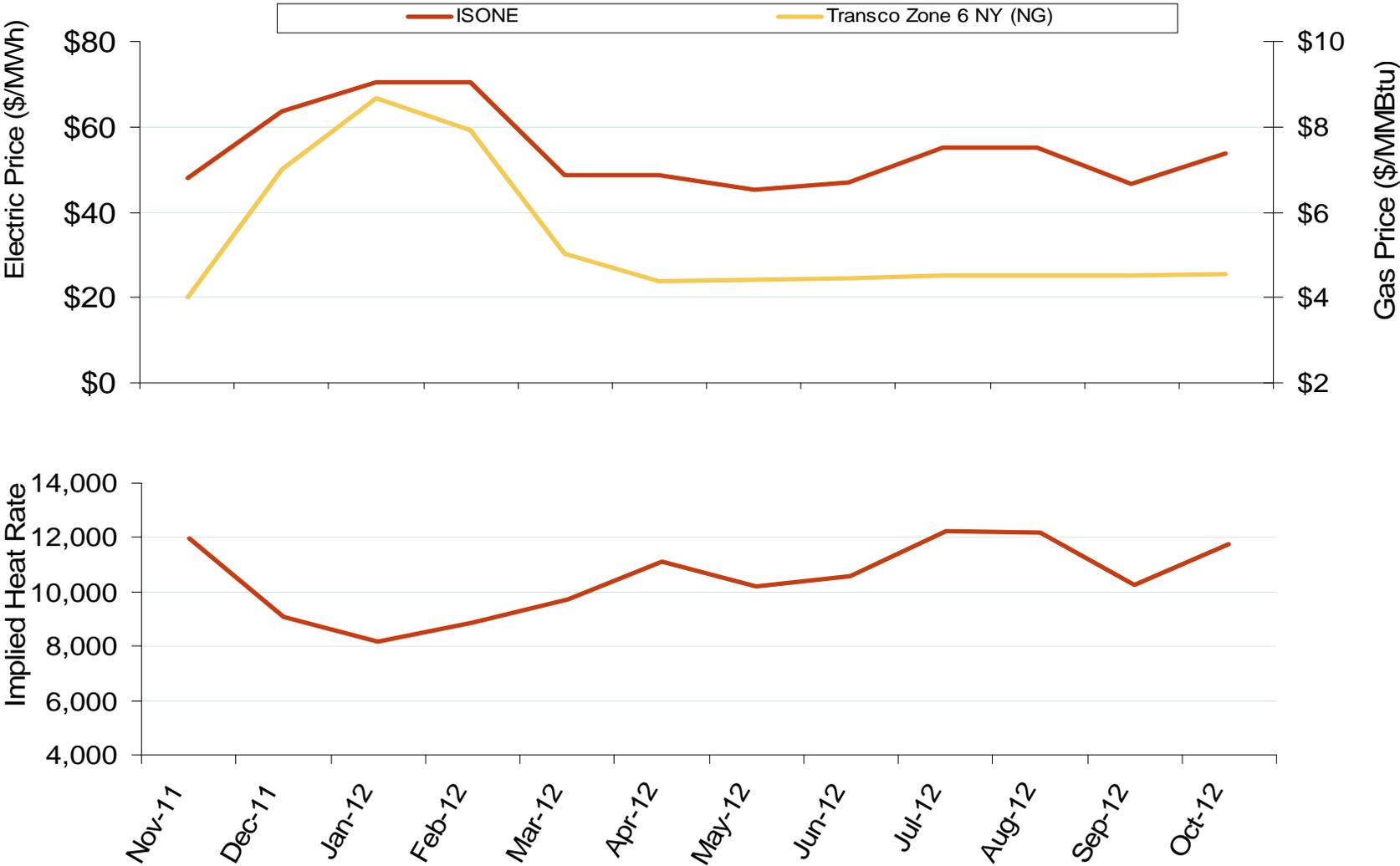
### Implied Heat Rates at Eastern Trading Points - Weekly Avgs.



Source: Derived from Platts on-peak electric and natural gas price data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

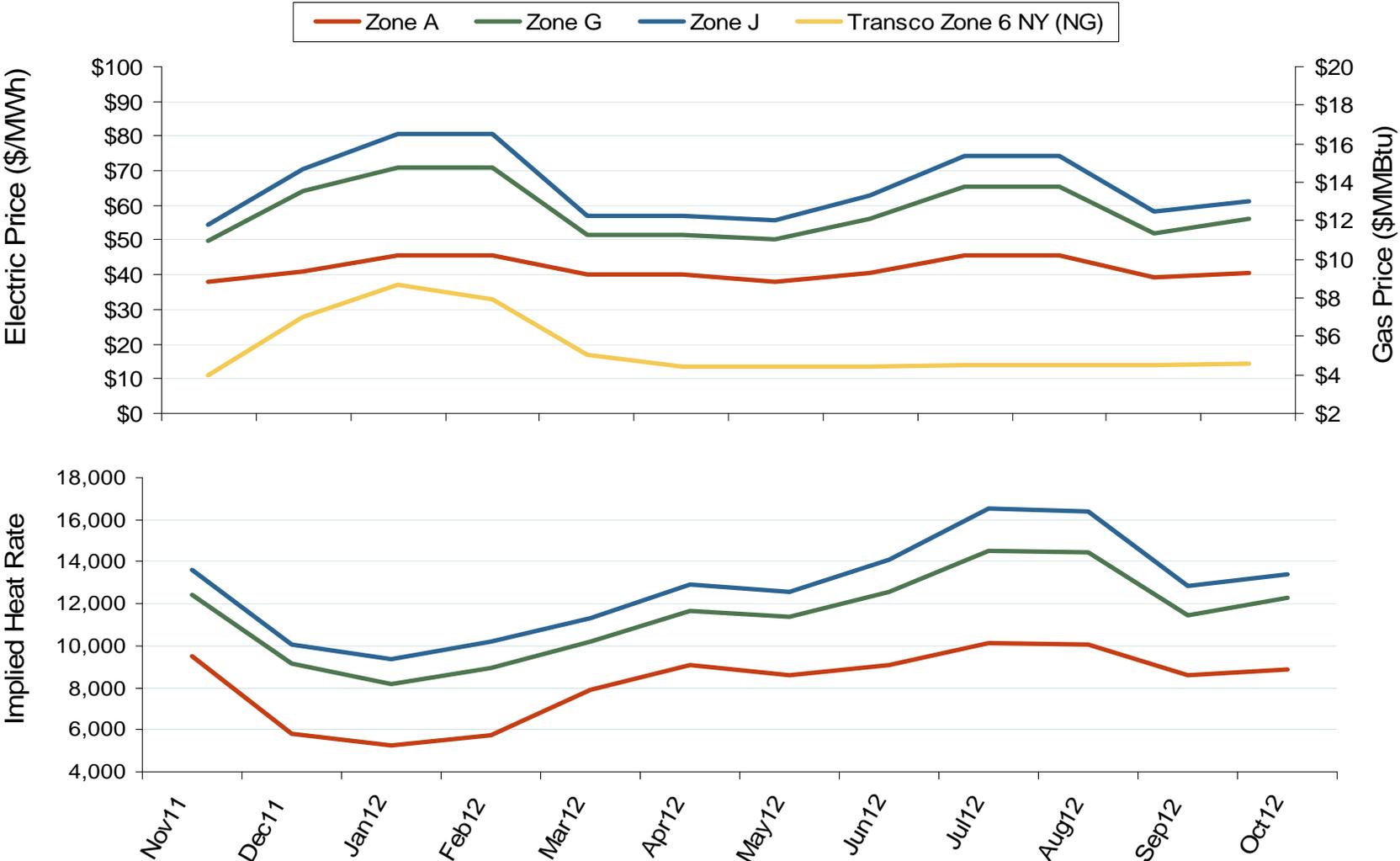
# New England Electric Forward Price Curves and Implied Heat Rate



Source: Derived from Nymex data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

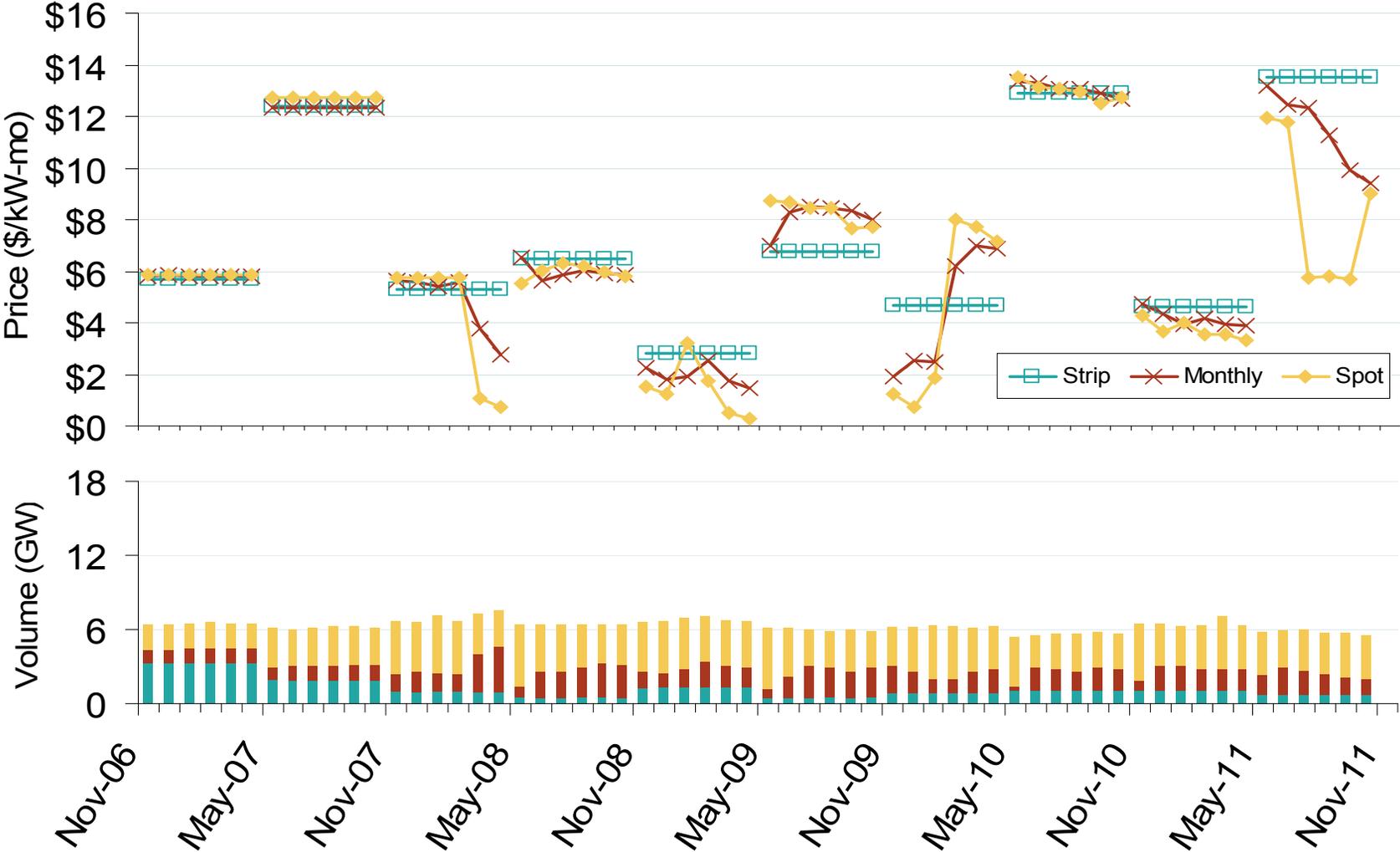
# New York Electric Forward Price Curves and Implied Heat Rates



Source: Derived from Nymex data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

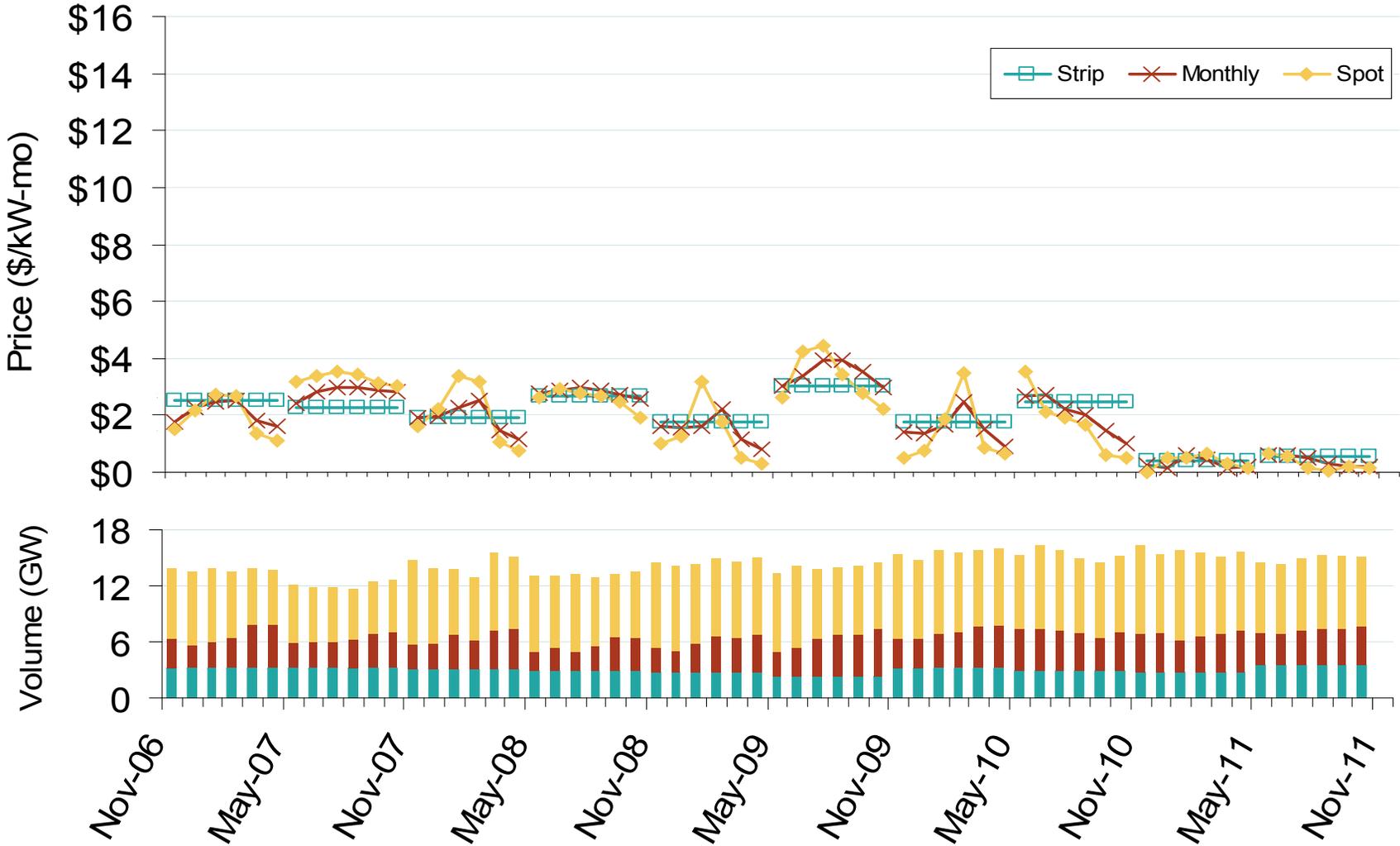
### Wtd. Avg. ICAP Prices & Volumes: NYC



Source: Derived from NYISO data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

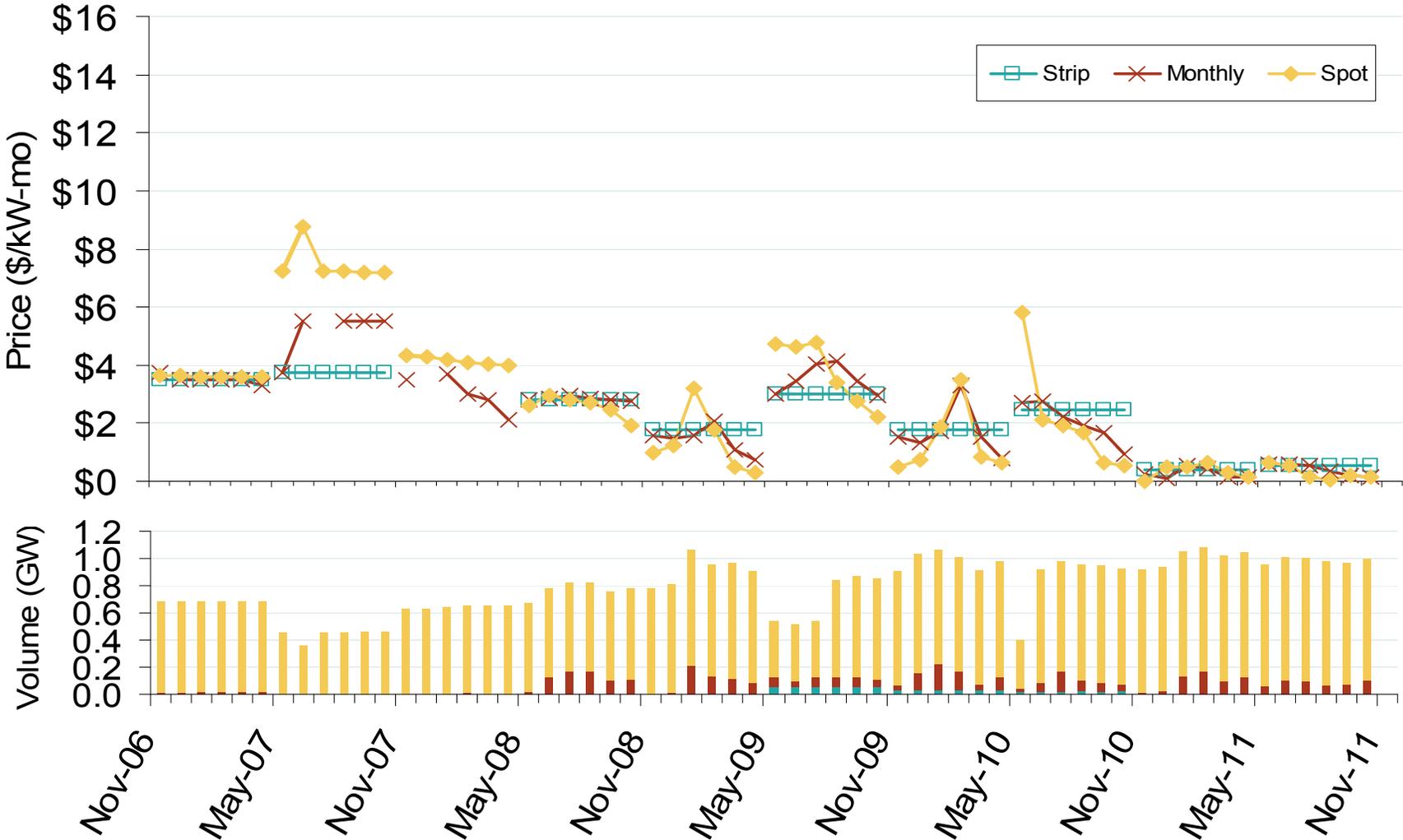
# Wtd. Avg. ICAP Prices & Volumes: New York State, excluding NYC



Source: Derived from NYISO data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

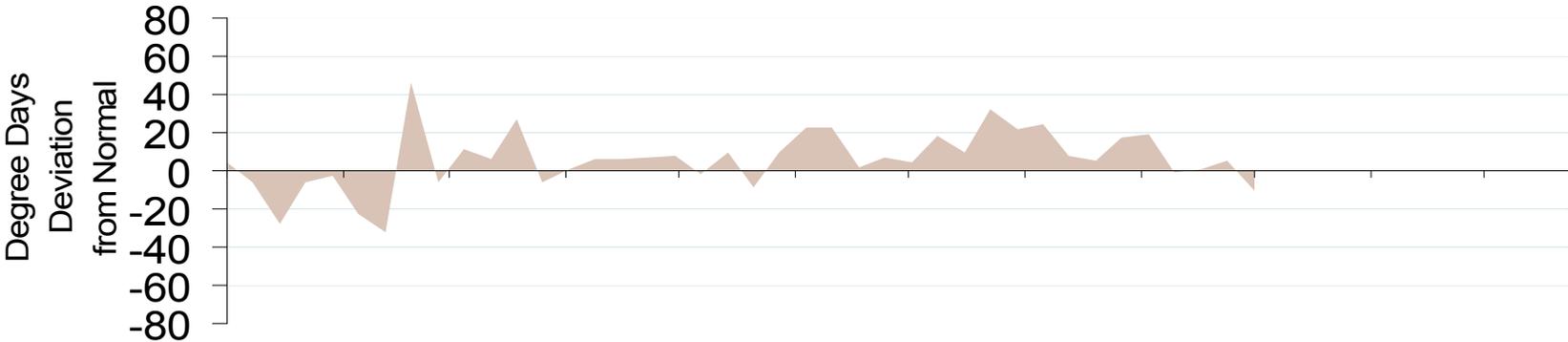
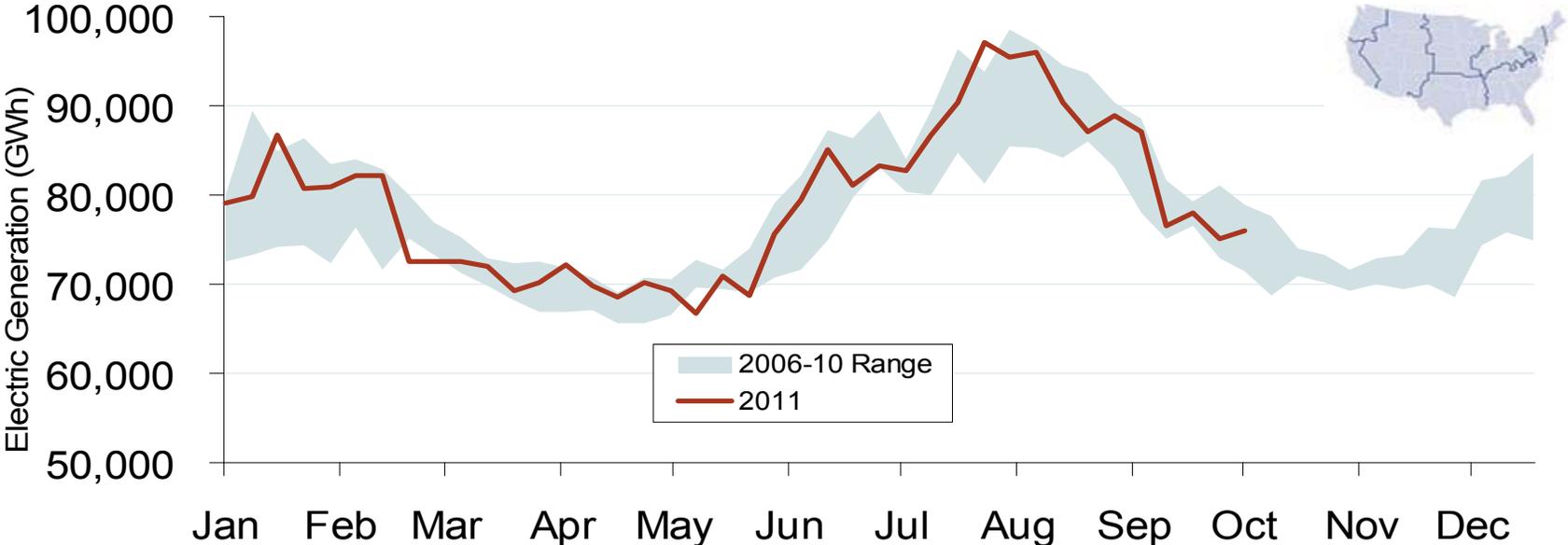
# Weighted Average ICAP Clearing Prices and Volumes: Long Island



Source: Derived from NYISO data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

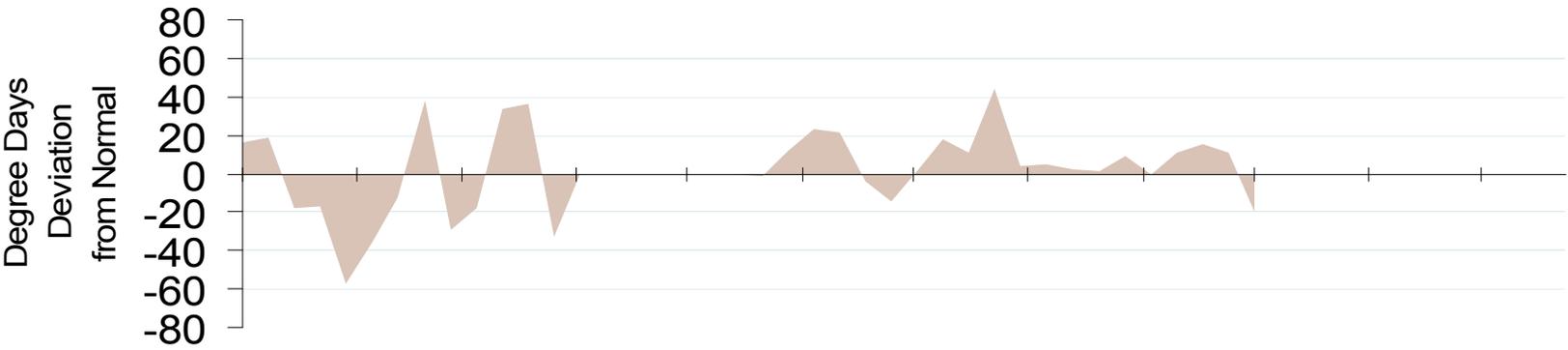
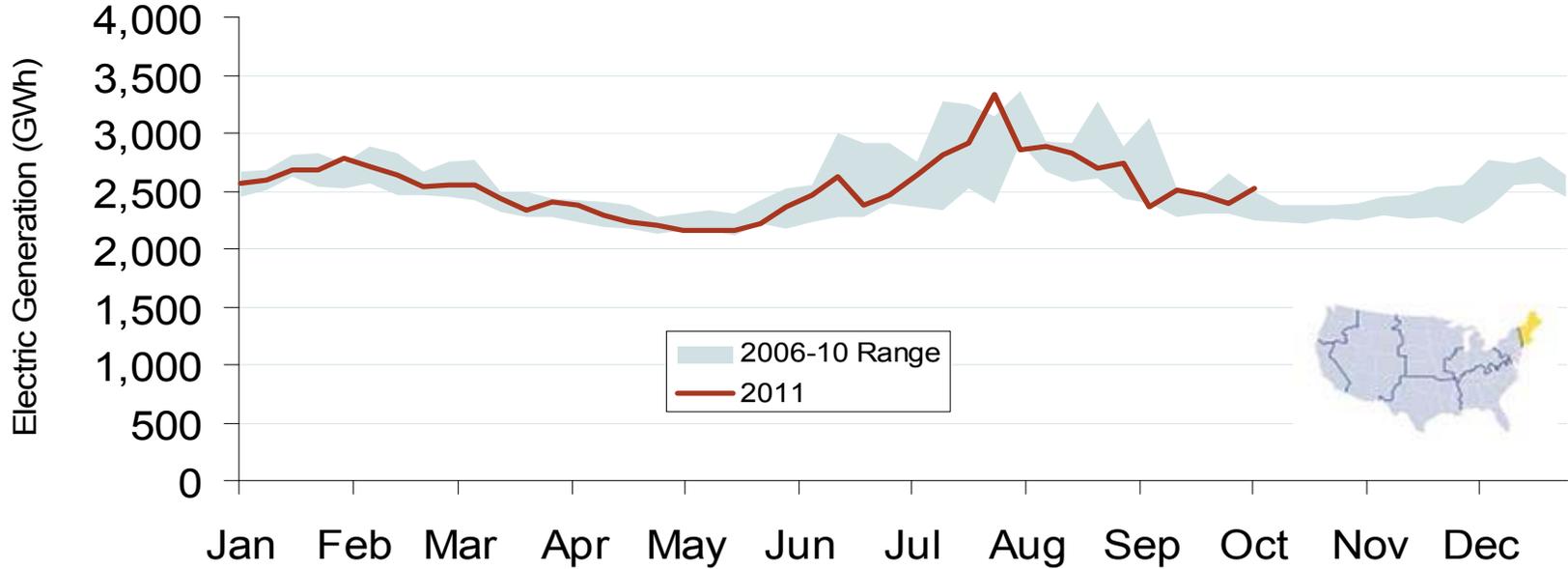
# Weekly U.S. Electric Generation Output and Temperatures



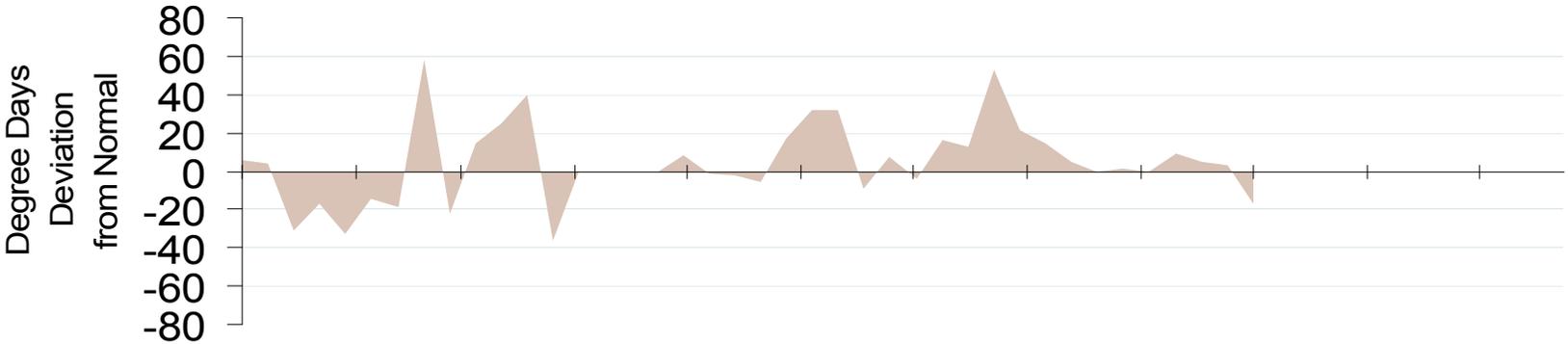
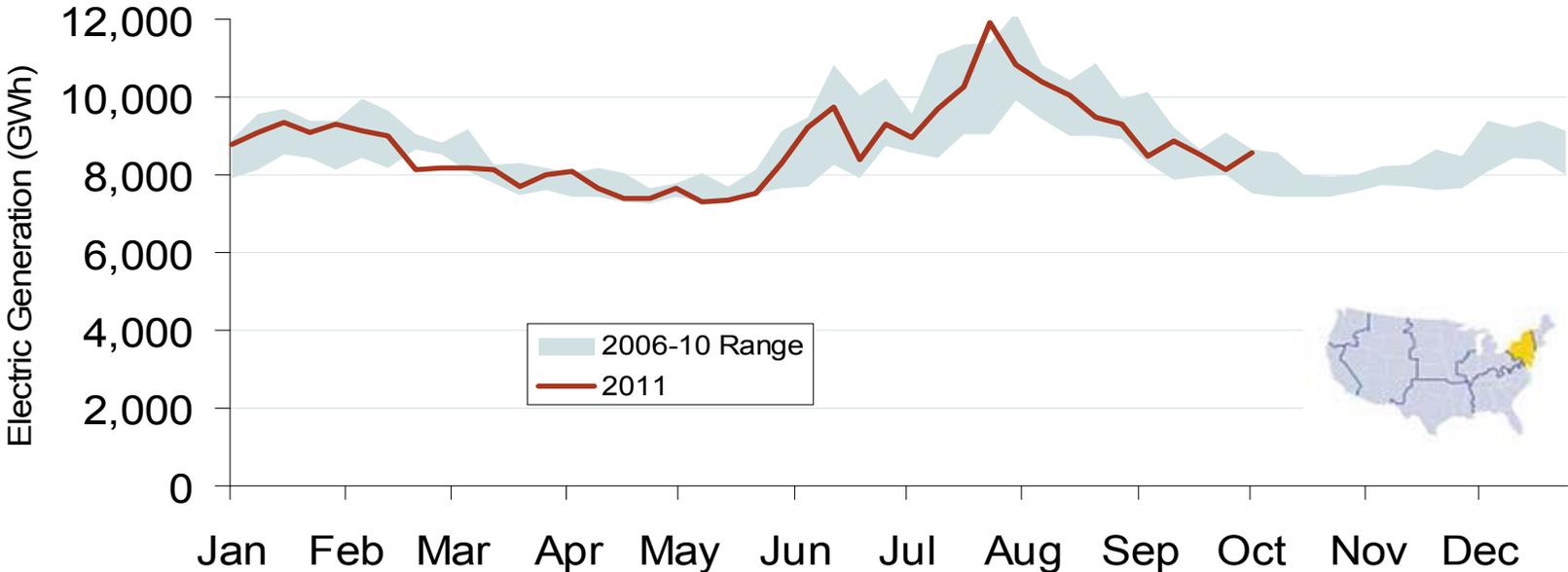
Source: Derived from EEI and NOAA data  
October 2011 Northeast Snapshot

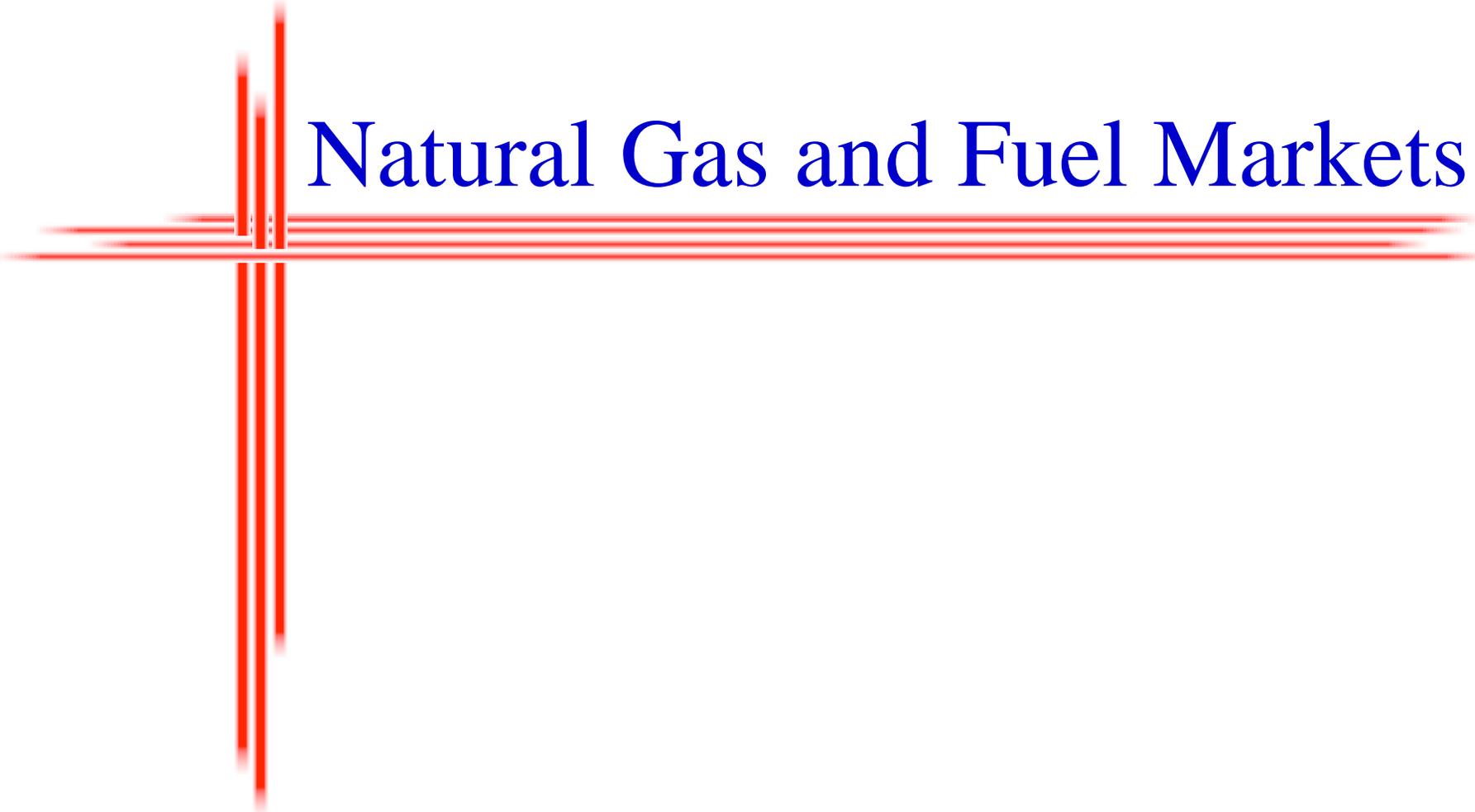
Updated: October 06, 2011

# Weekly Generation Output and Temperatures New England



### Weekly Power Generation & Temps. - Mid Atlantic

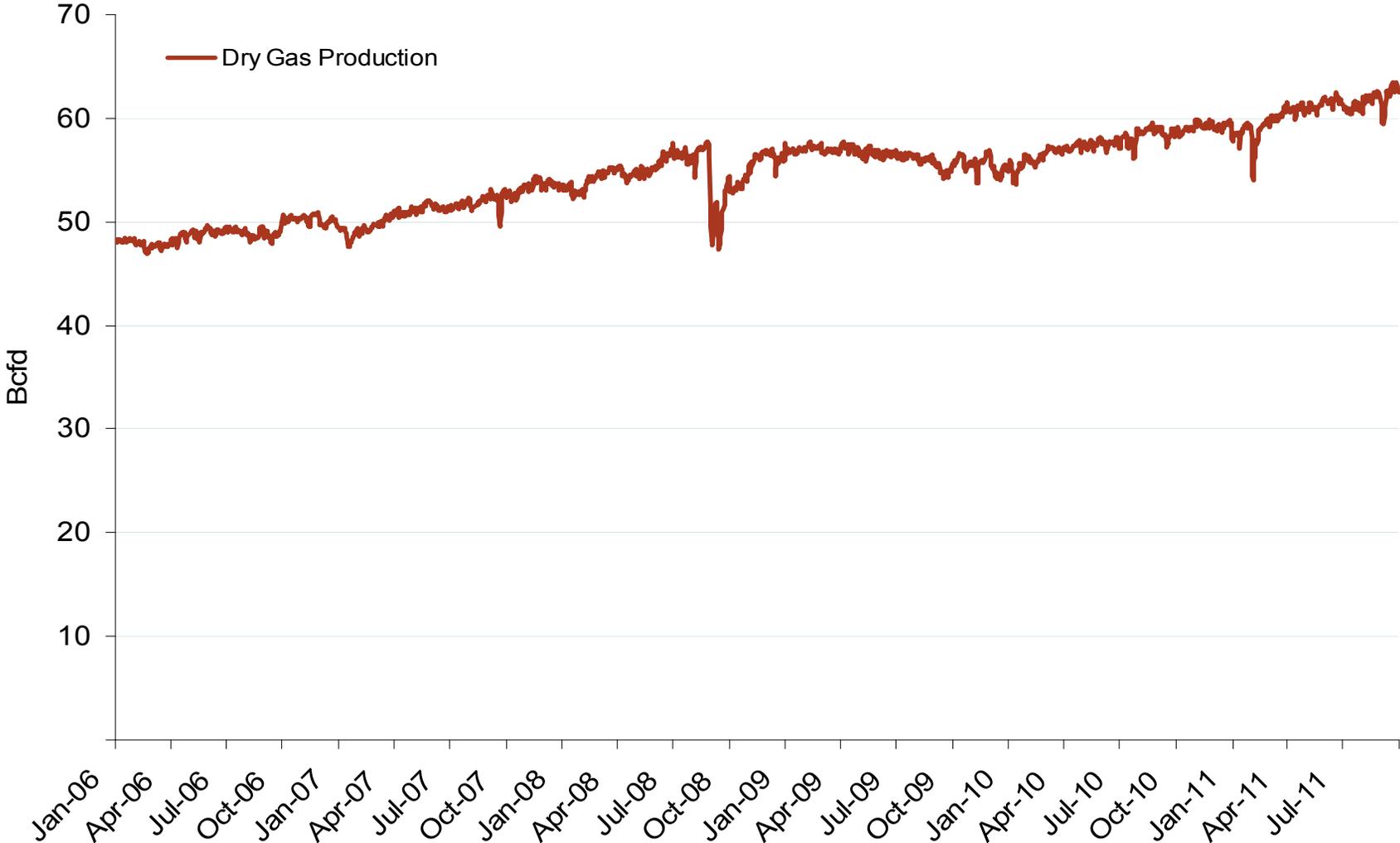




# Natural Gas and Fuel Markets

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

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



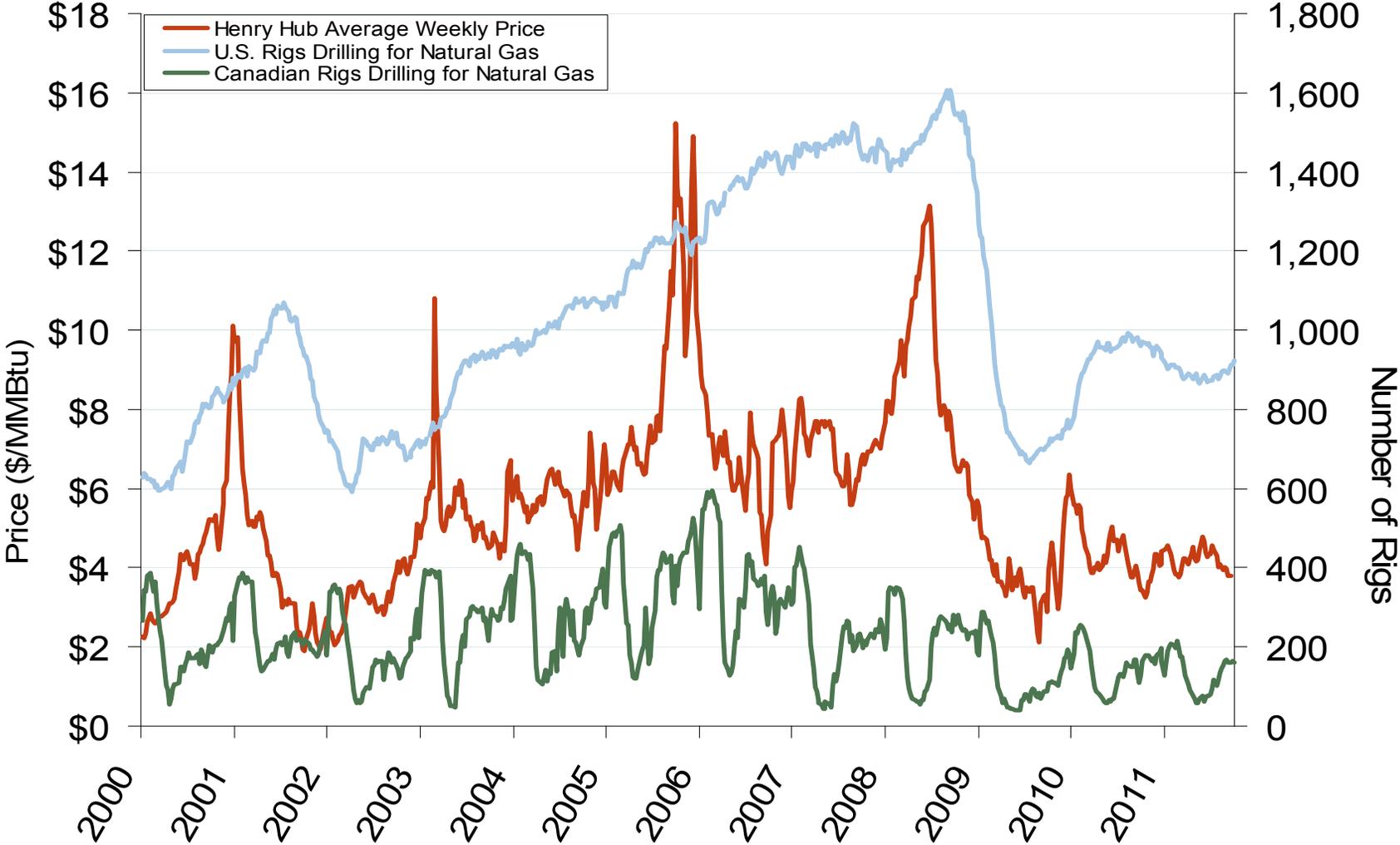
Note: Prior to July 2010, chart was derived from a combination of EIA and Bentek Energy data

Source: Derived from Bentek Energy data

October 2011 Northeast Snapshot

Updated: October 05, 2011

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



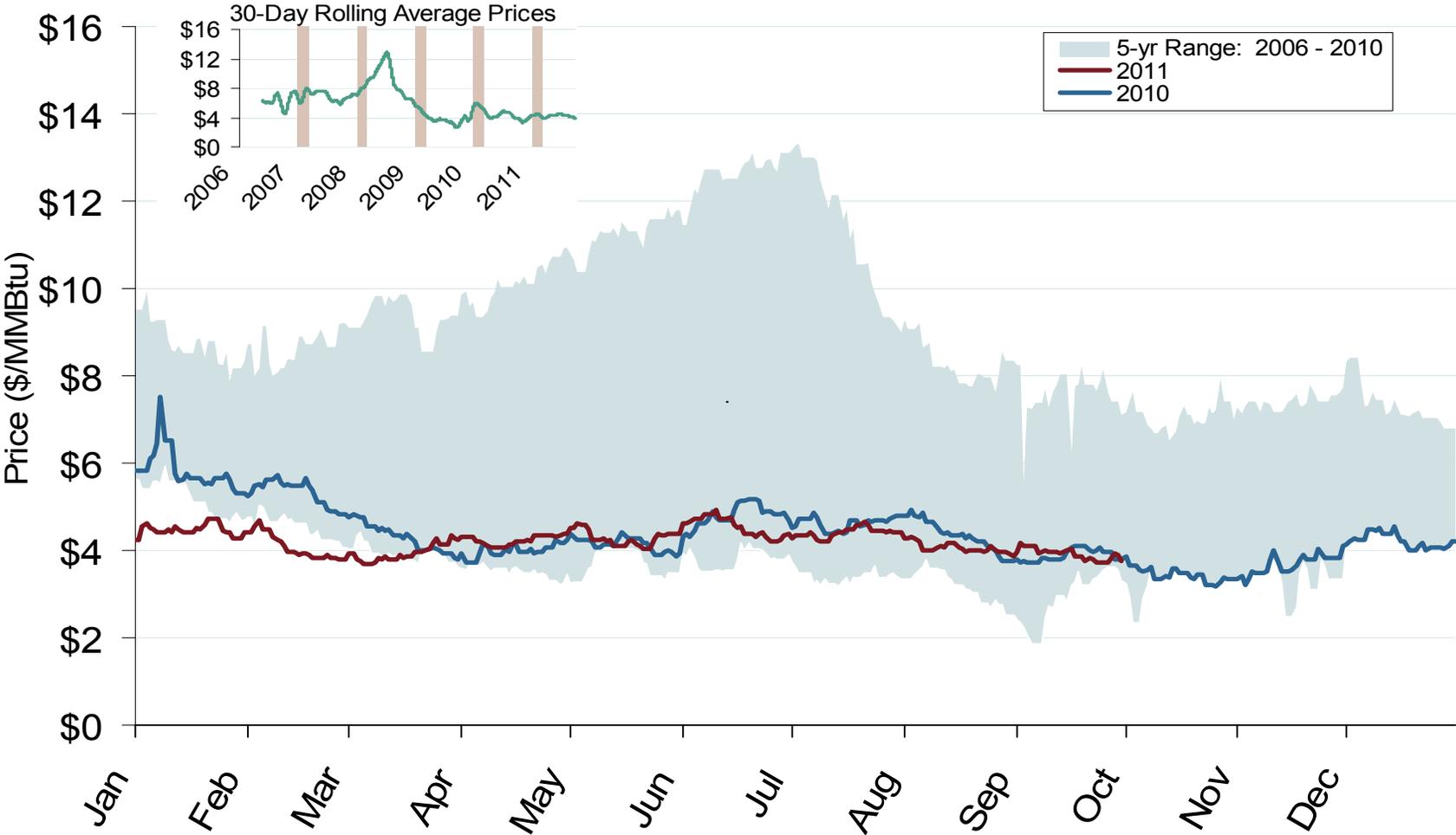
Source: Derived from *Platts* and *Baker Hughes* data  
October 2011 Northeast Snapshot

Updated: October 04, 2011

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)

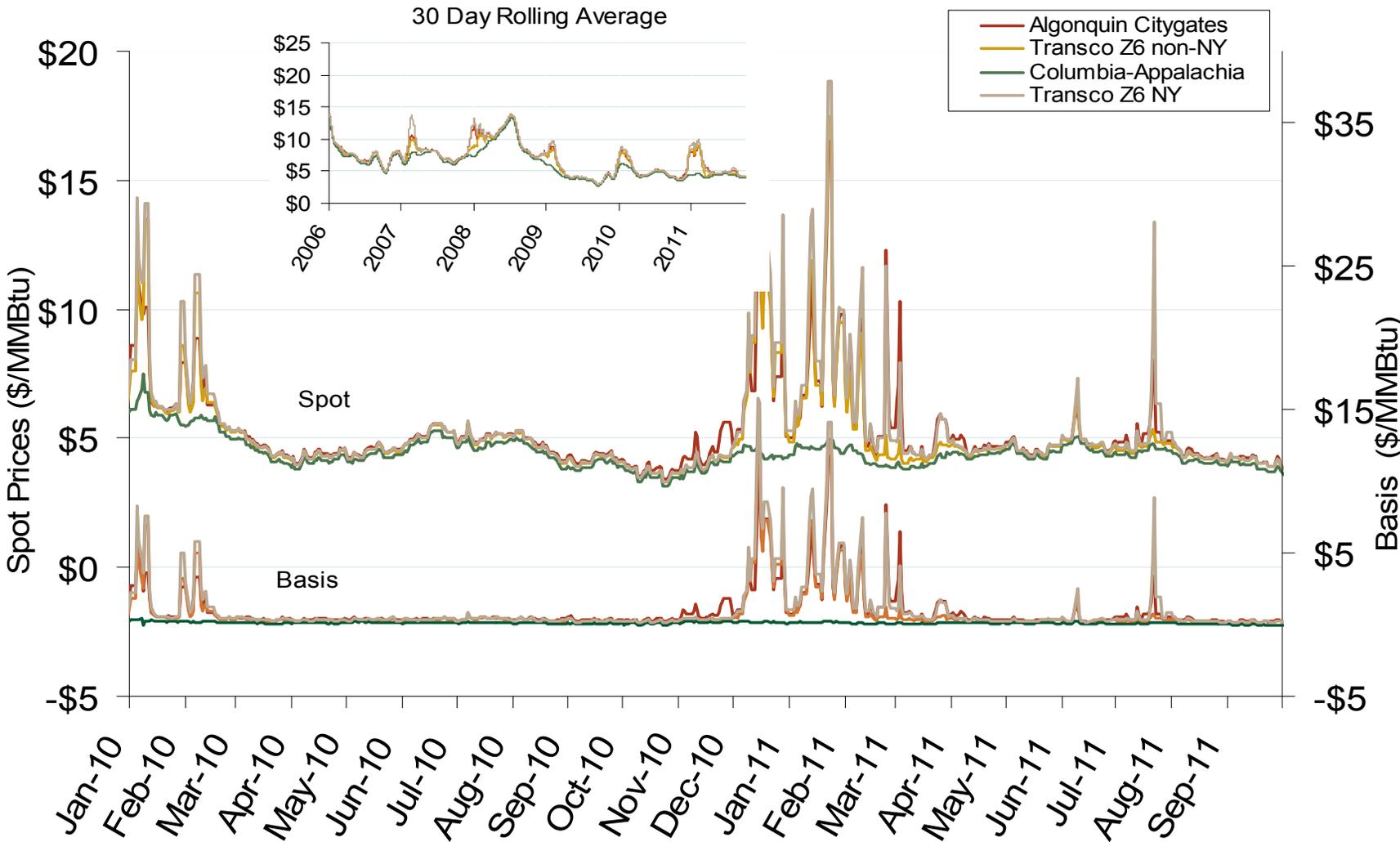
# Henry Hub Natural Gas Daily Spot Prices



Source: Derived from Platts data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

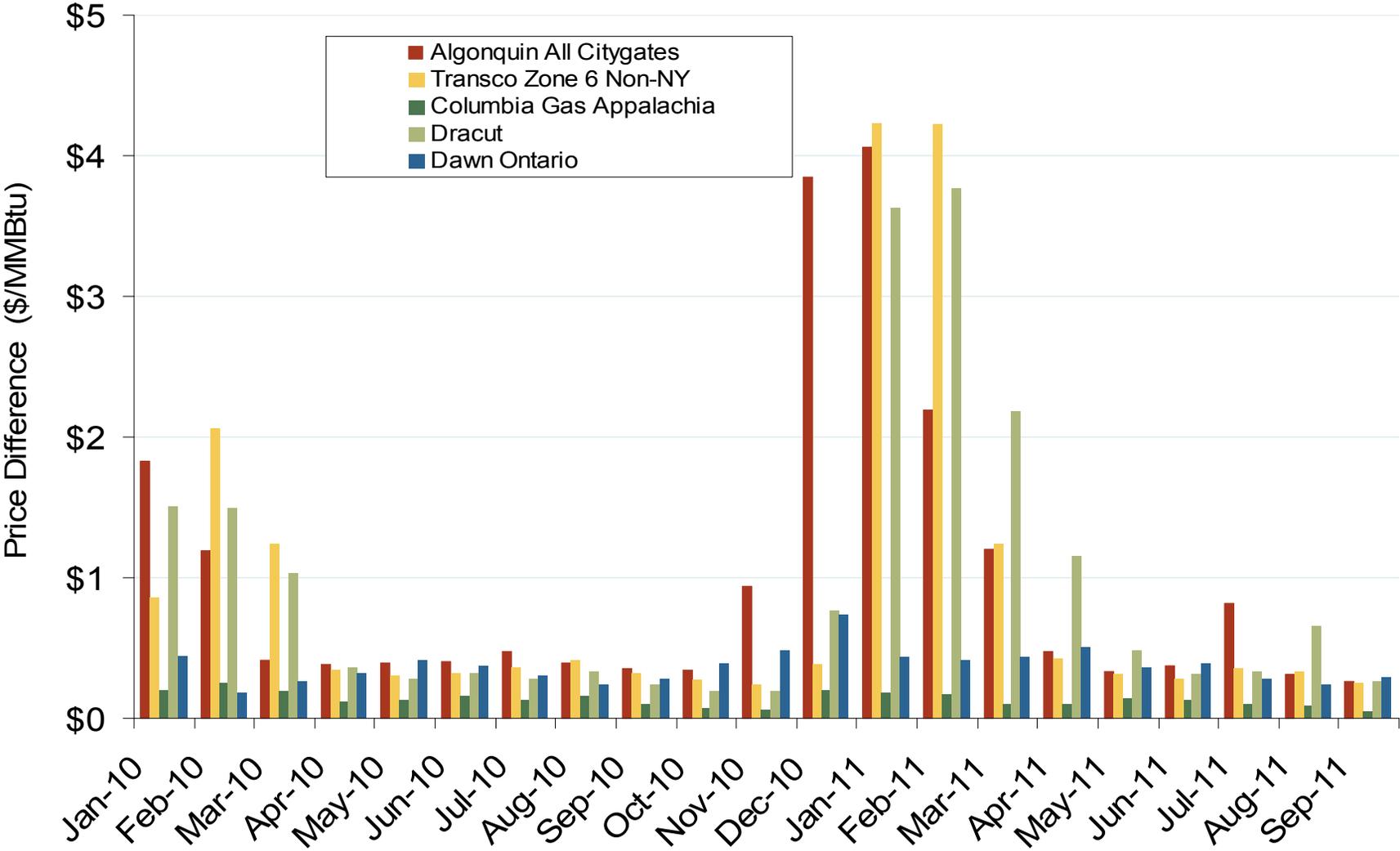
### Northeastern Spot Prices and Basis



Source: Derived from Platts data  
October 2011 Northeast Snapshot

Updated: October 04, 2011

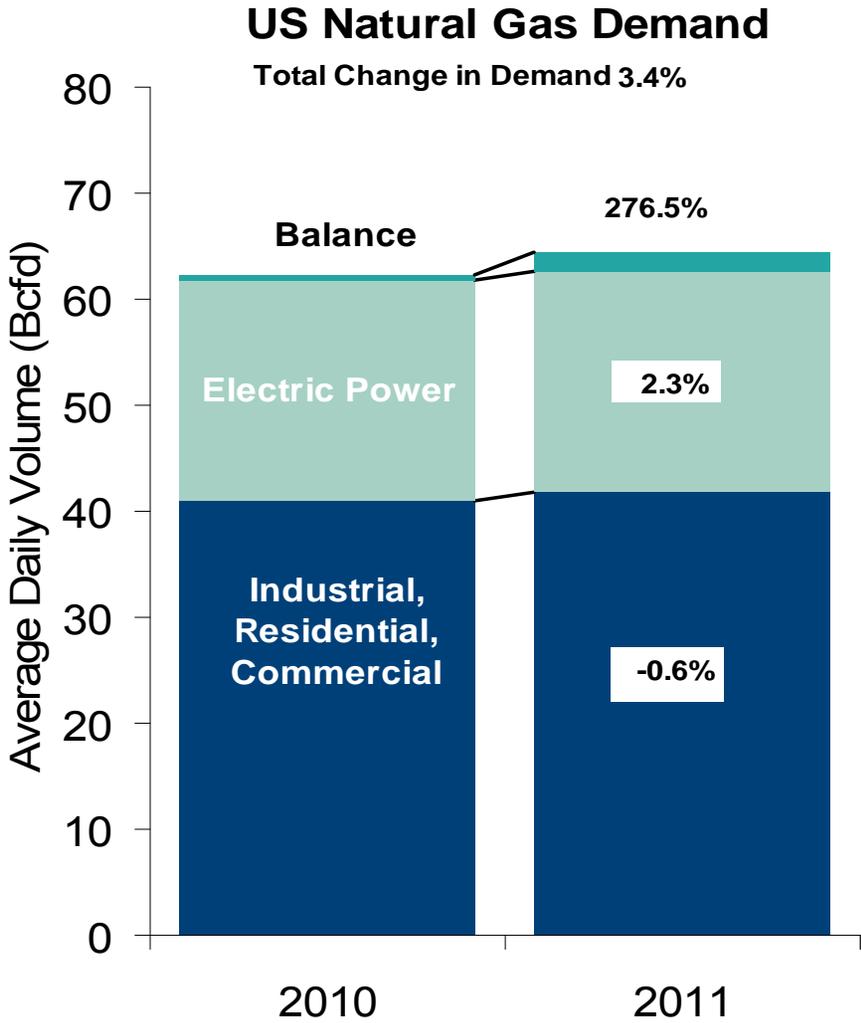
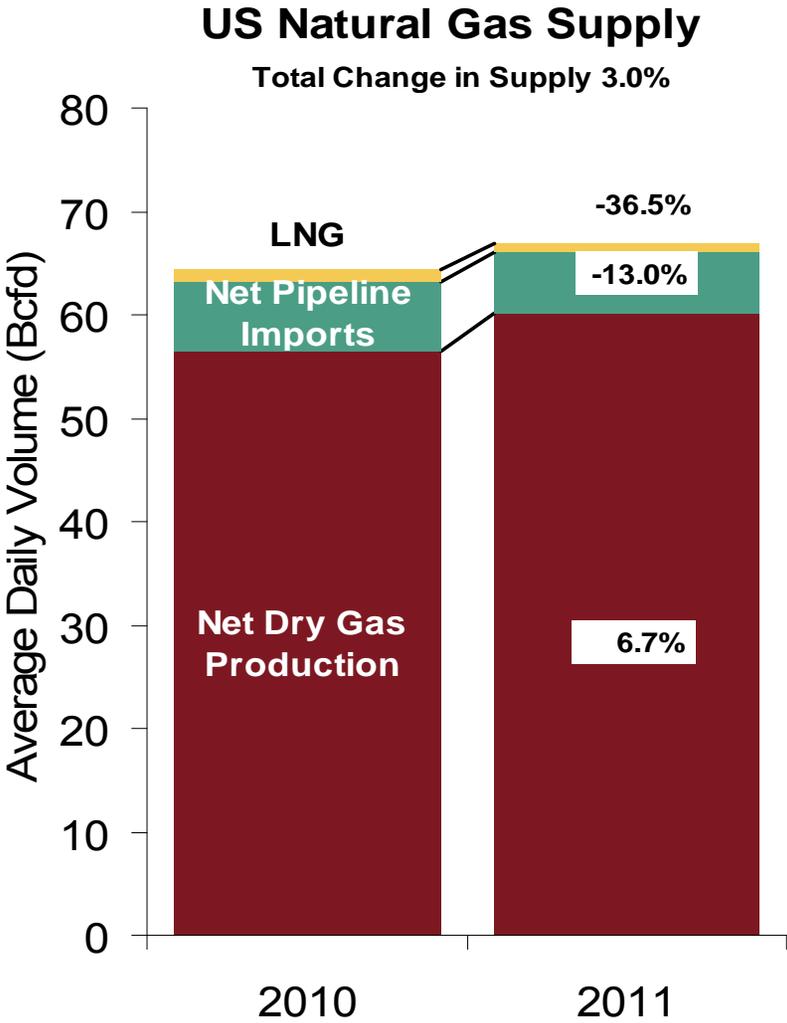
# Northeastern Monthly Average Basis Value to Henry Hub



Source: Derived from Platts data  
October 2011 Northeast Snapshot

Updated: October 03, 2011

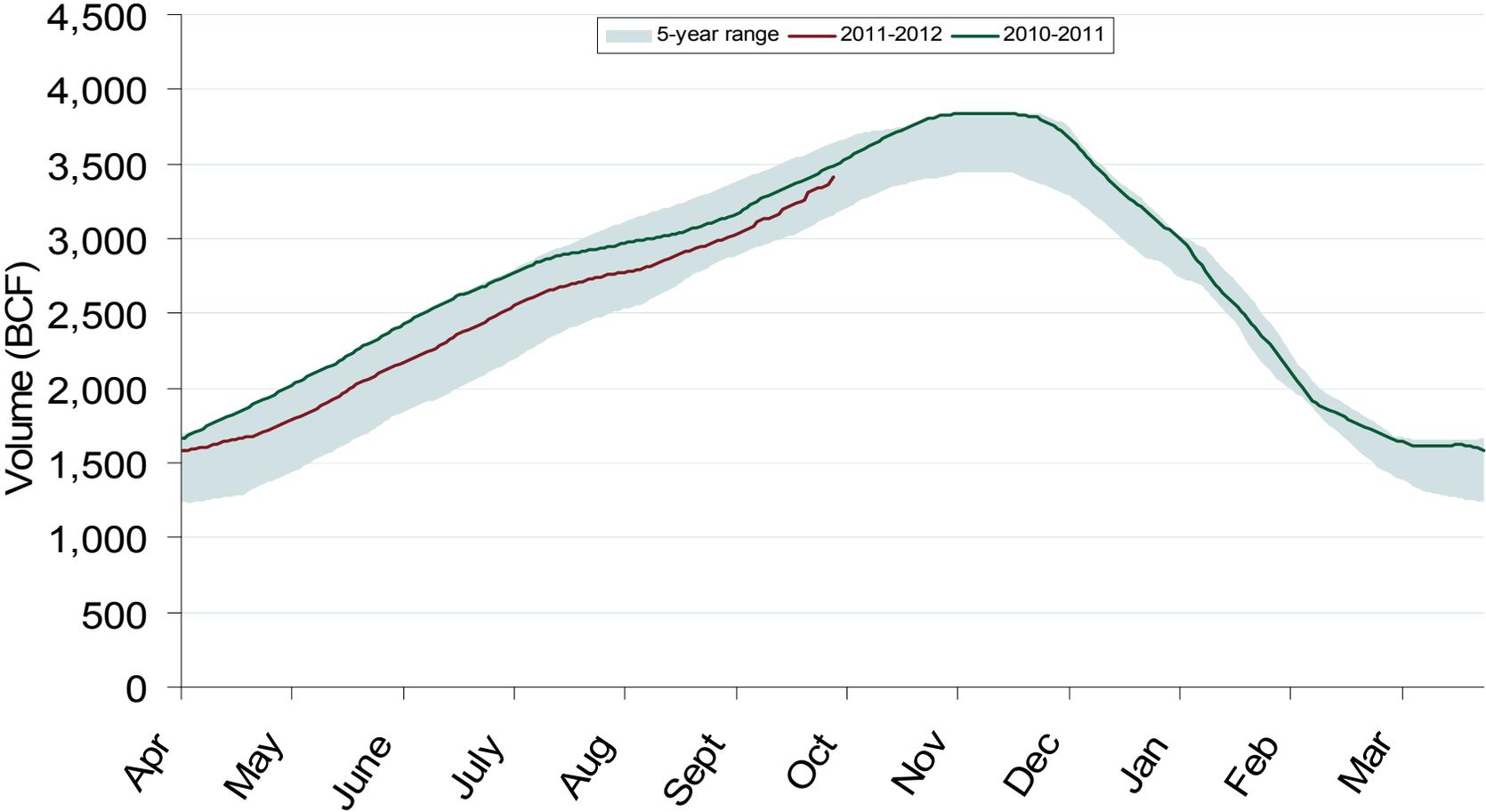
# U.S. NG Supply and Demand 2010 vs. 2011: January - September



Source: Derived from *Bentek Energy* data  
October 2011 Northeast Snapshot

Updated: October 11, 2011

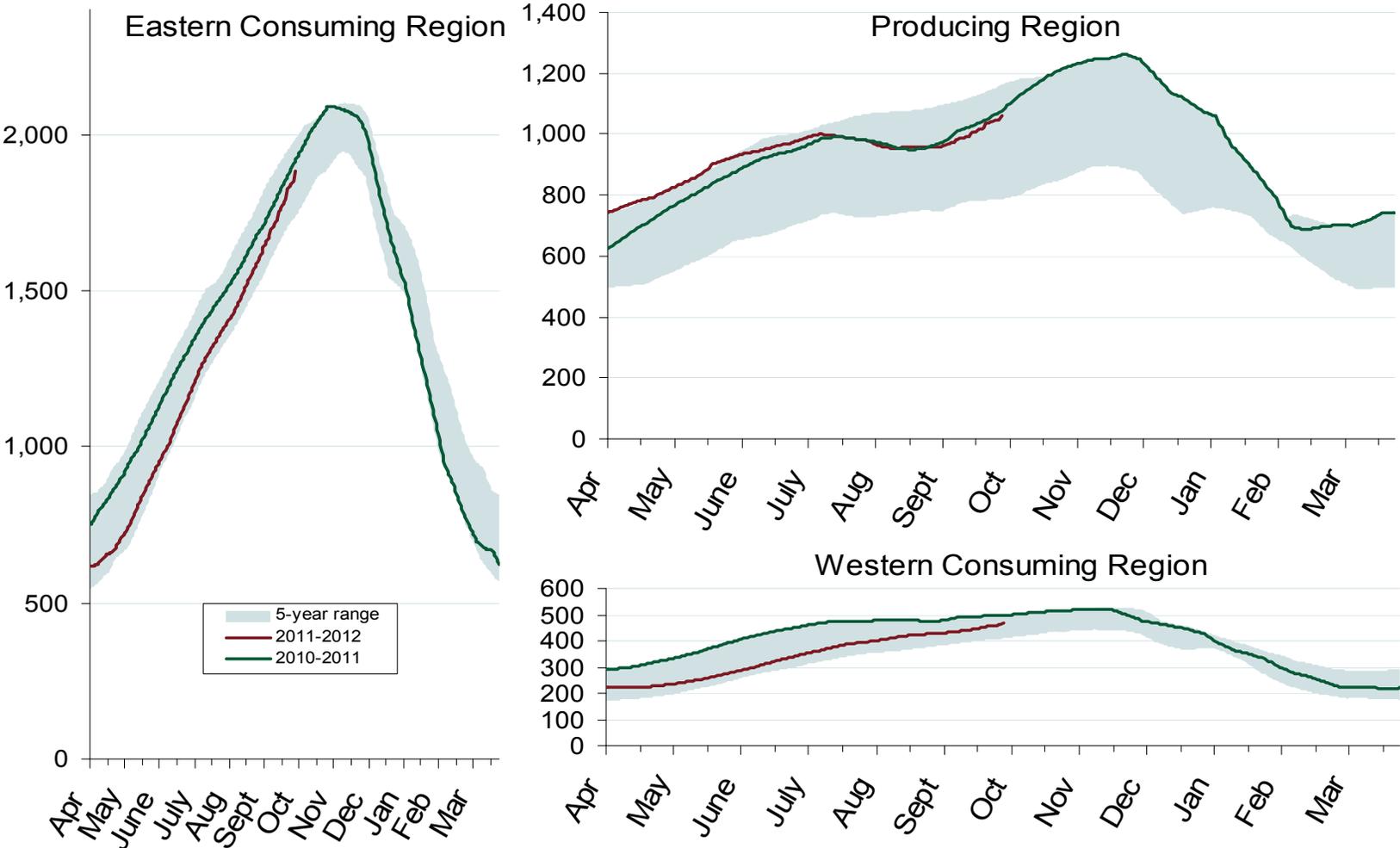
### Total U.S. Working Gas in Storage



Source: Derived from EIA data  
October 2011 Northeast Snapshot

Updated: October 06, 2011

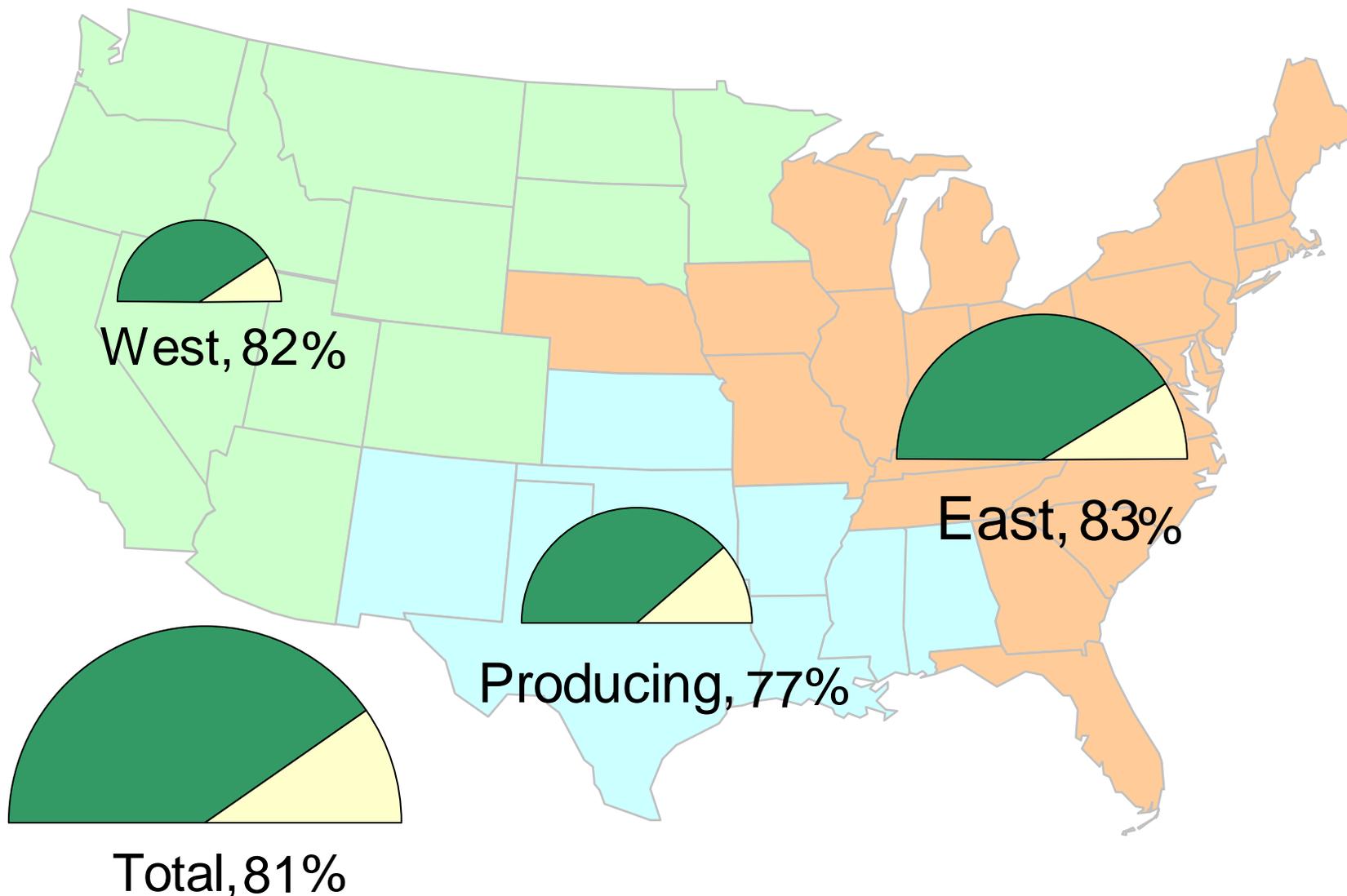
# Regional Totals of Working Gas in Storage



Source: Derived from EIA data  
October 2011 Northeast Snapshot

Updated: October 06, 2011

## Natural Gas Storage Inventories – September 23, 2011



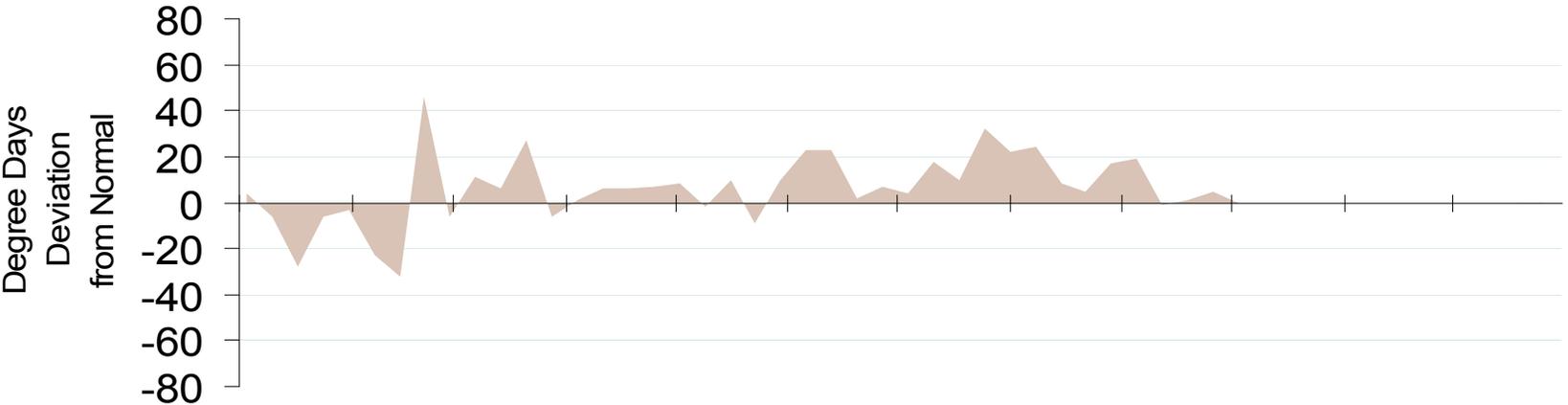
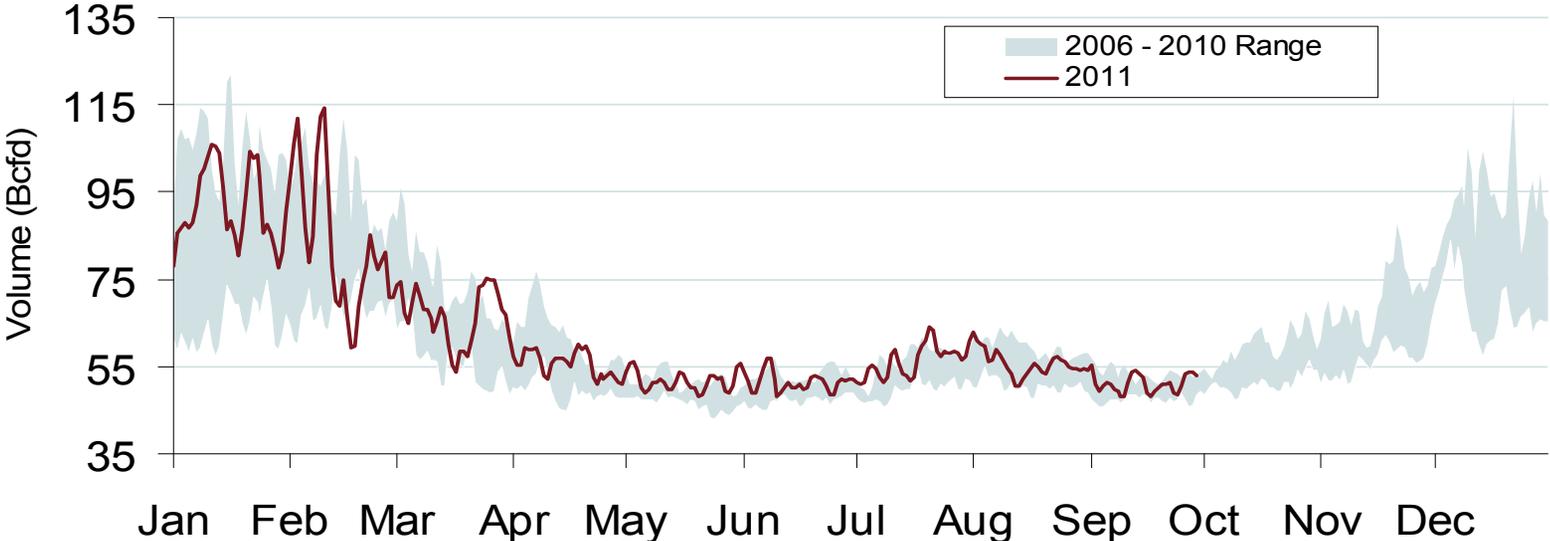
Source: Derived from *EIA Storage* and *Estimated Working Gas Capacity* data

October 2011 Northeast Snapshot

Updated October 4, 2011

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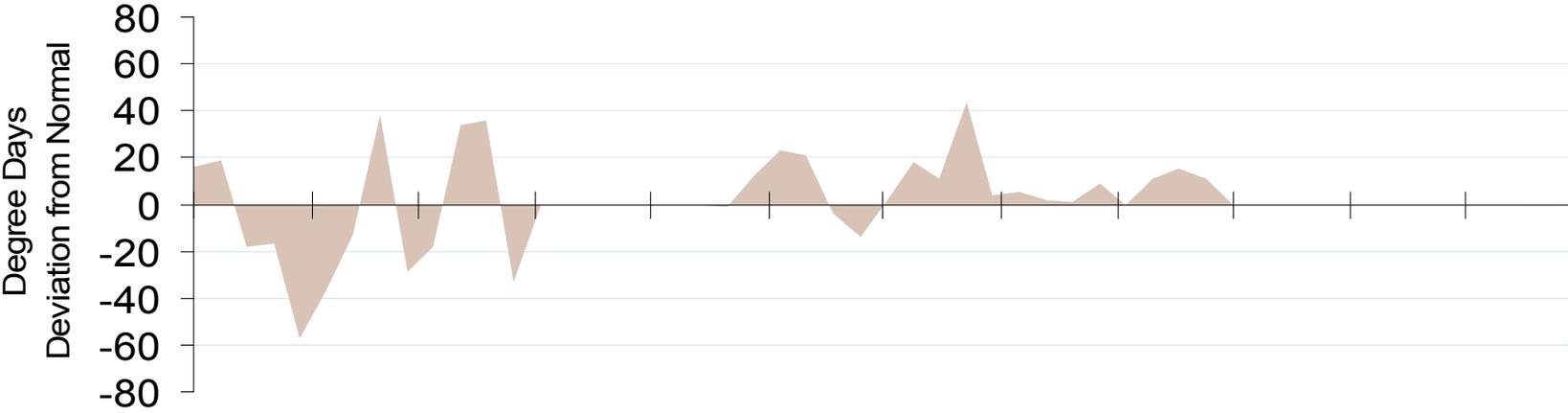
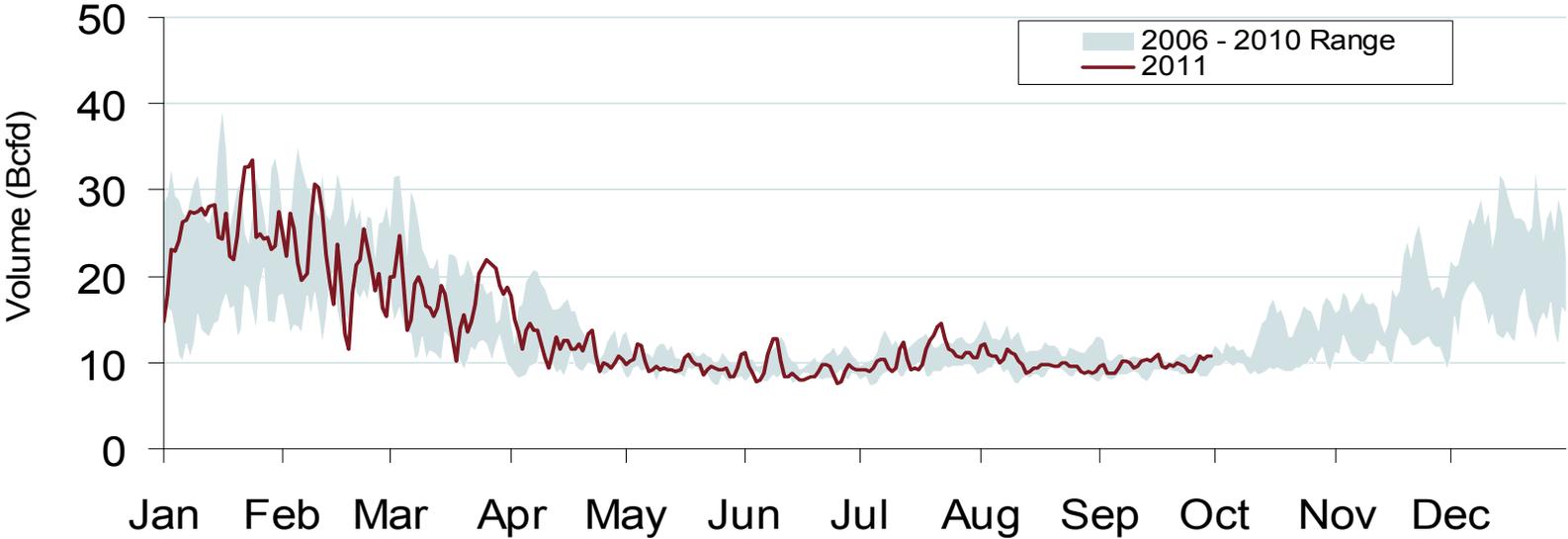
# Total U.S. Natural Gas Demand (All Sectors) and Temperatures



Source: Derived from *Bentek Energy* and *Weekly NOAA* data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

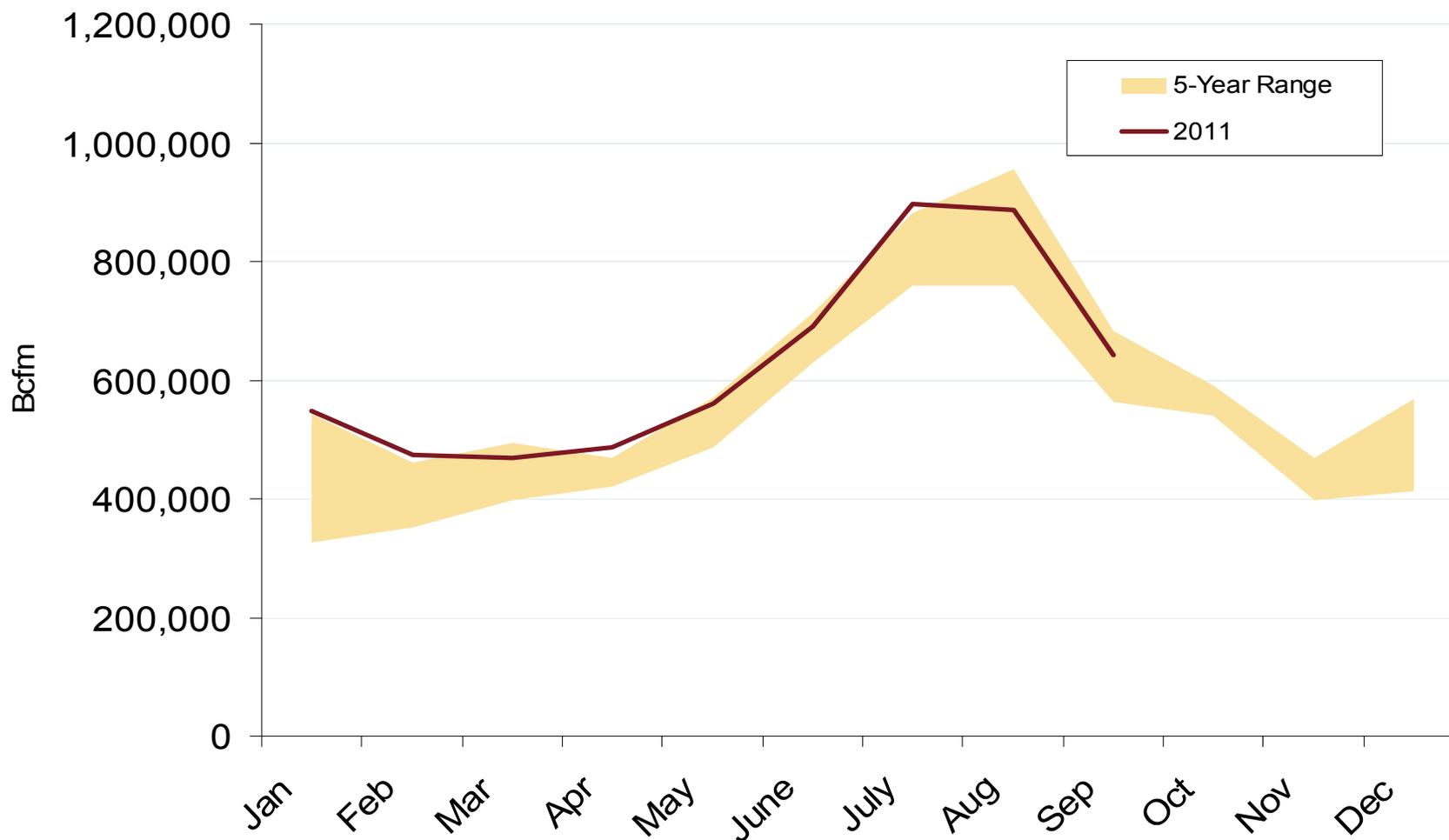
### Daily Northeast Natural Gas Demand All Sectors



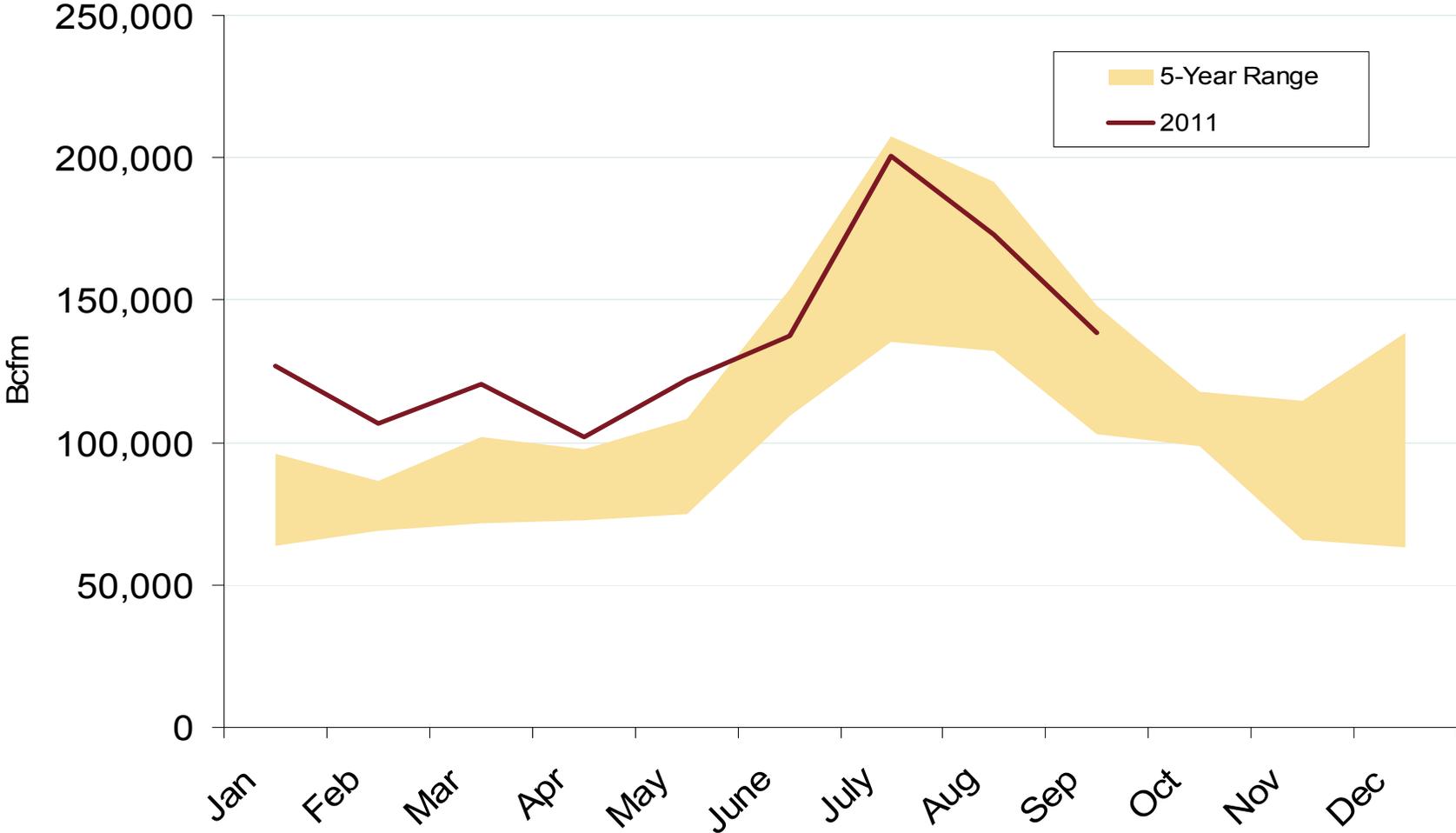
Source: Derived from *Bentek Energy* and Weekly NOAA data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

## 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**

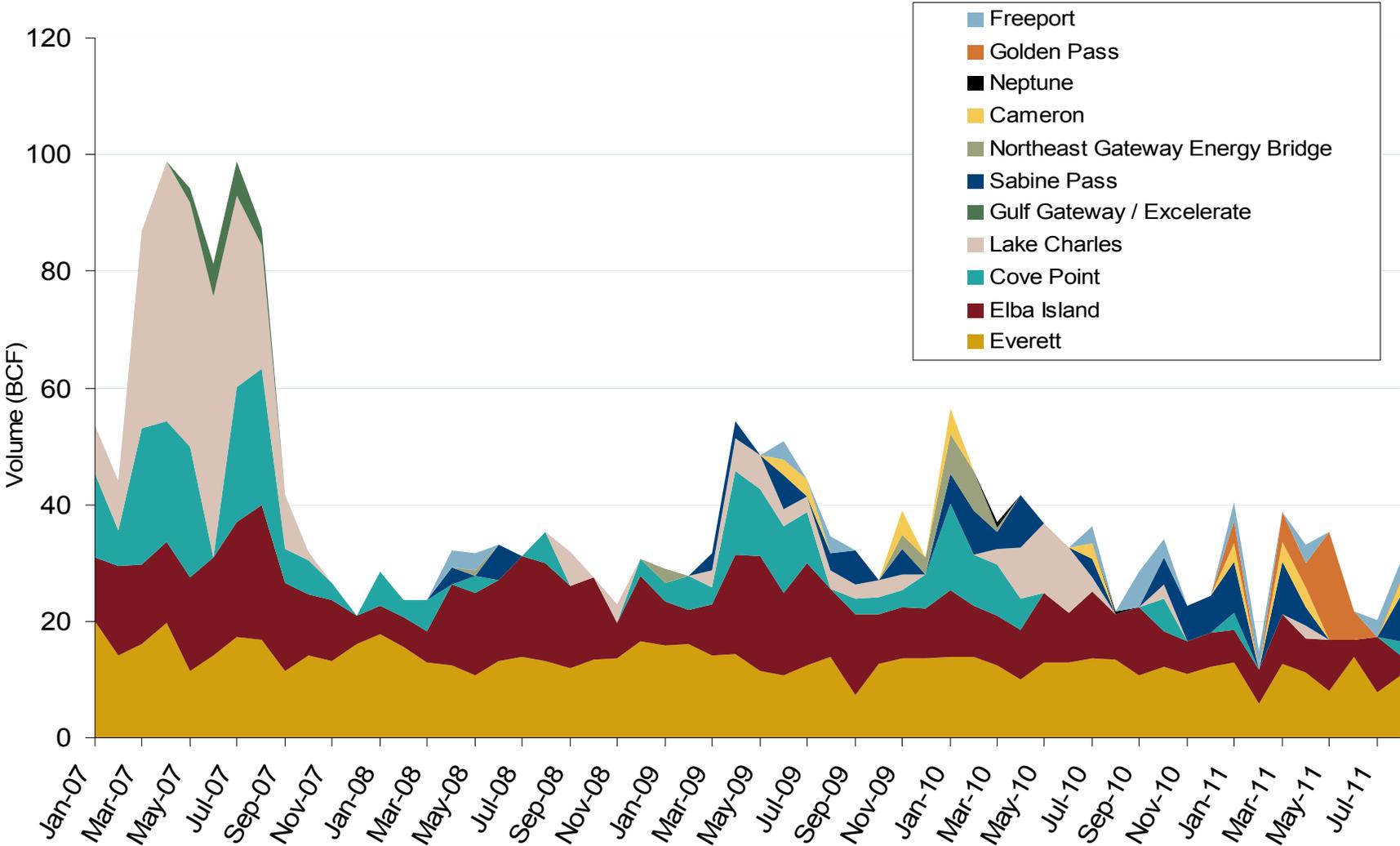
# Northeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

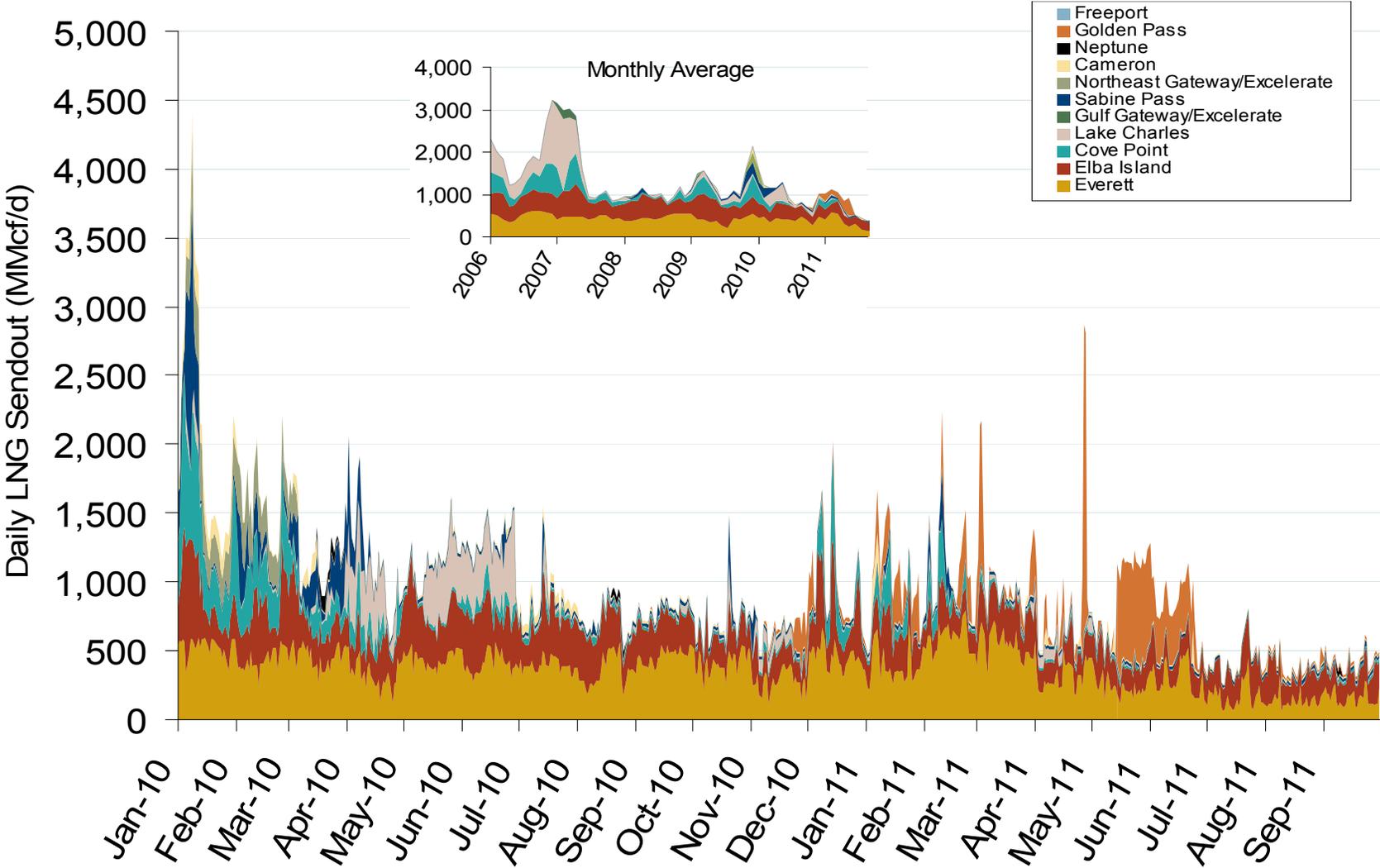
# Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data  
October 2011 Northeast Snapshot

Updated: October 04, 2011

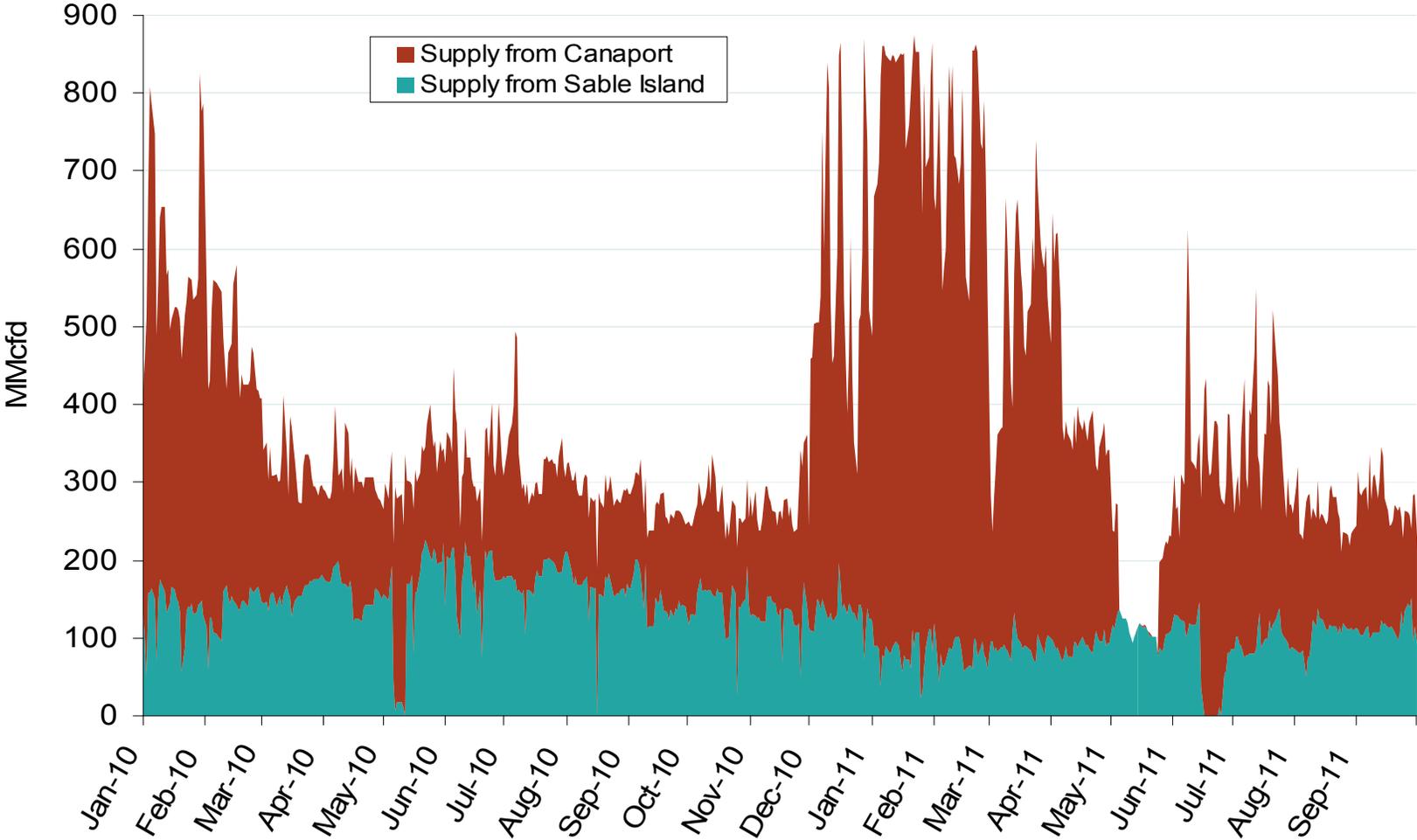
### Daily Gas Sendout from Existing LNG Facilities



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

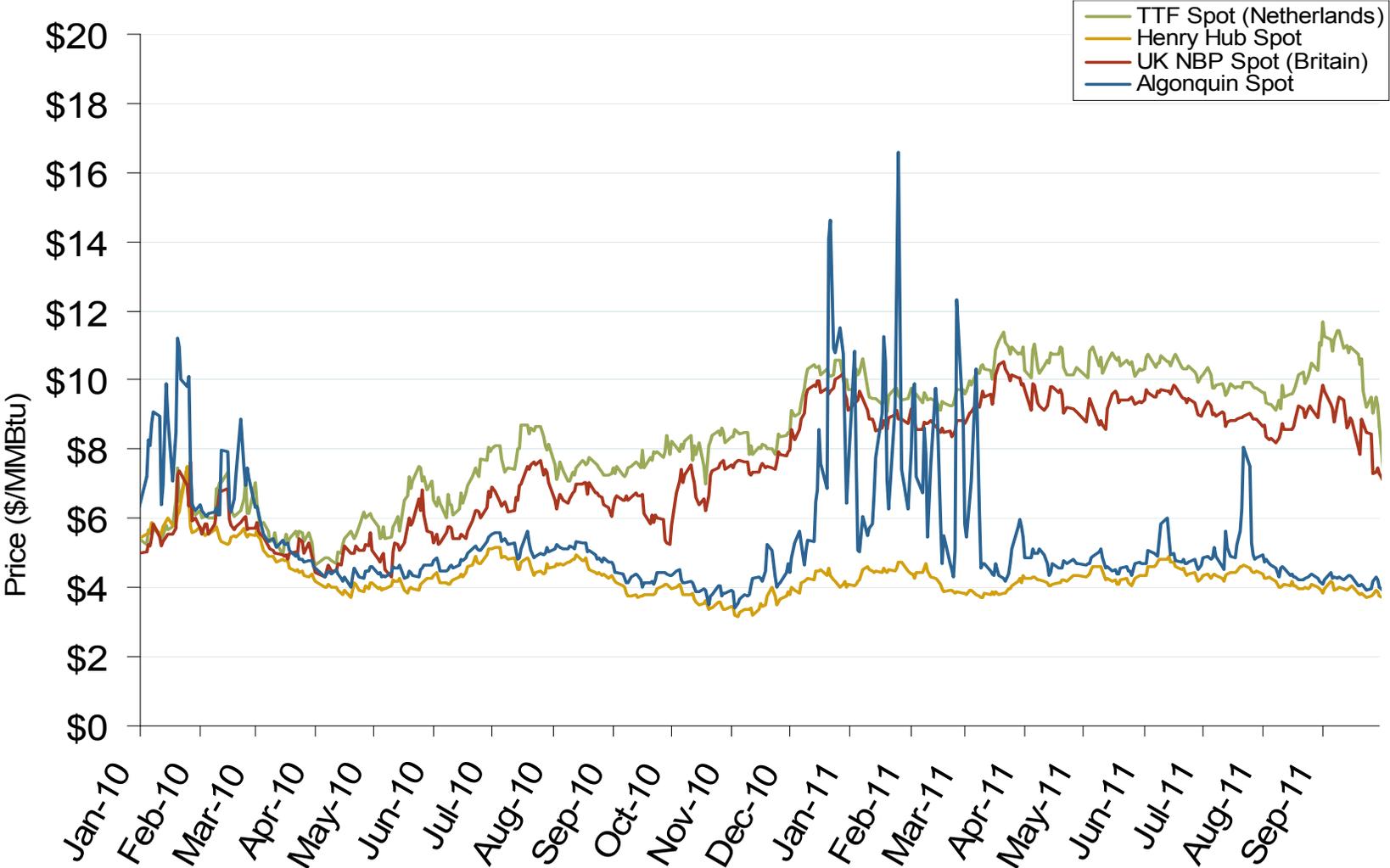
# Maritimes Pipeline Flows



Source: Derived from *Bentek Energy* data  
October 2011 Northeast Snapshot

Updated: October 06, 2011

# Atlantic Basin European and US Spot Natural Gas Prices



Source: Derived from *Bloomberg* and *ICE* data  
October 2011 Northeast Snapshot

Updated: October 05, 2011

# World LNG Estimated November 2011 Landed Prices



Source: Waterborne Energy, Inc. Data in \$US/MMBtu  
October 2011 Northeast Snapshot

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

