

# OE ENERGY MARKET SNAPSHOT

## Northeast States Version – June 2008 Data

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- **Market Fundamentals**
- **Prices and Market Analysis**

Office of Enforcement  
Federal Energy Regulatory Commission  
July 2008



## Increasing Costs in Electric Markets

- Item No.: A-3
- June 19, 2008

<http://www.ferc.gov/legal/staff-reports/06-19-08-cost-electric.pdf>

## Electric Power Markets in the West and Southeast



**JULY 1, 2008**

PRESENTATION BY THE  
**OFFICE OF ENFORCEMENT**

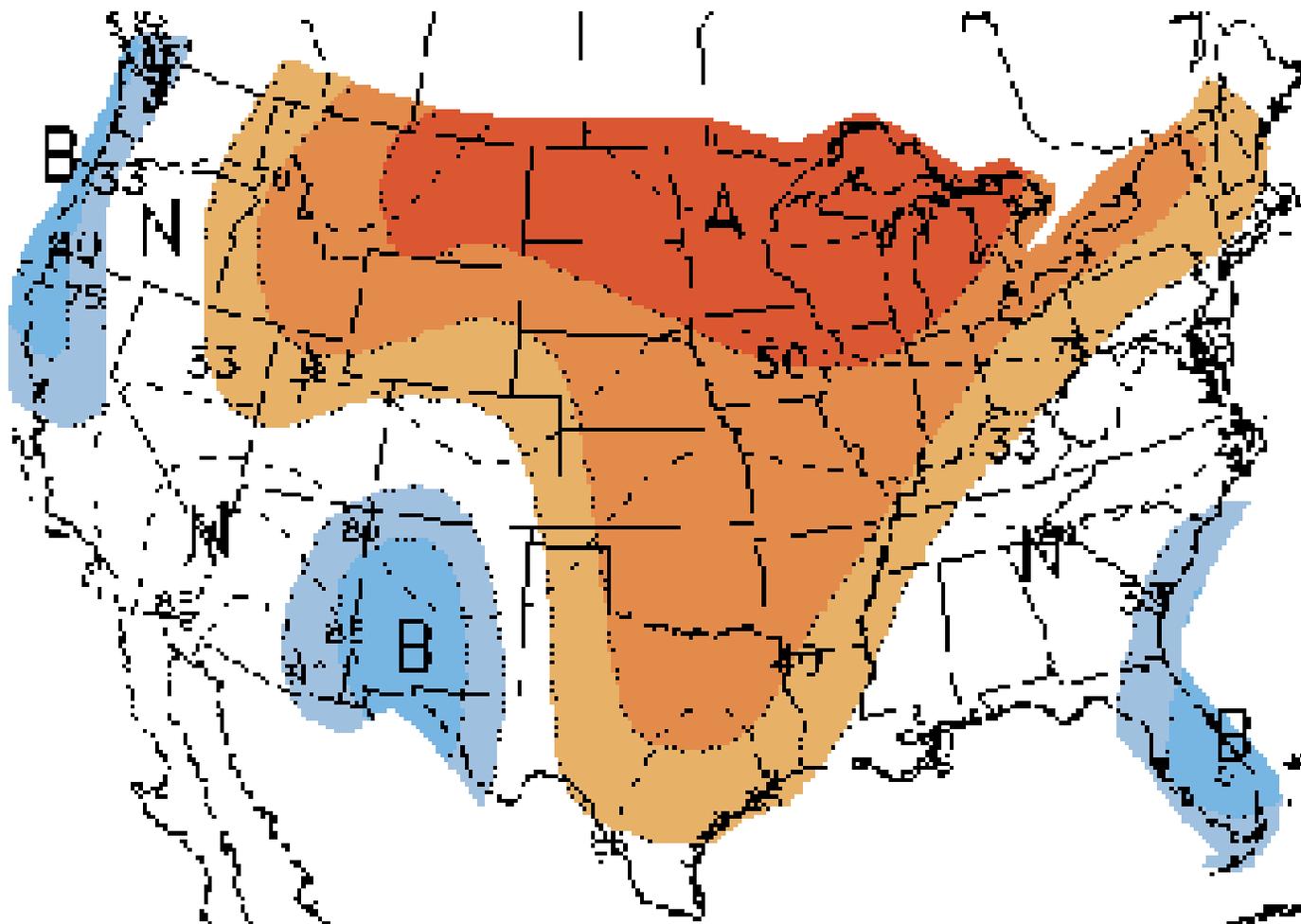
**CHARLES WHITMORE**  
DIVISION OF ENERGY MARKET OVERSIGHT

<http://www.ferc.gov/EventCalendar/Files/20080701154408-FERC.pdf>



# Market Fundamentals

## NOAA's 8 to 14 Day Temperature Forecast Made July 8, Valid for July 16 – July 22, 2008



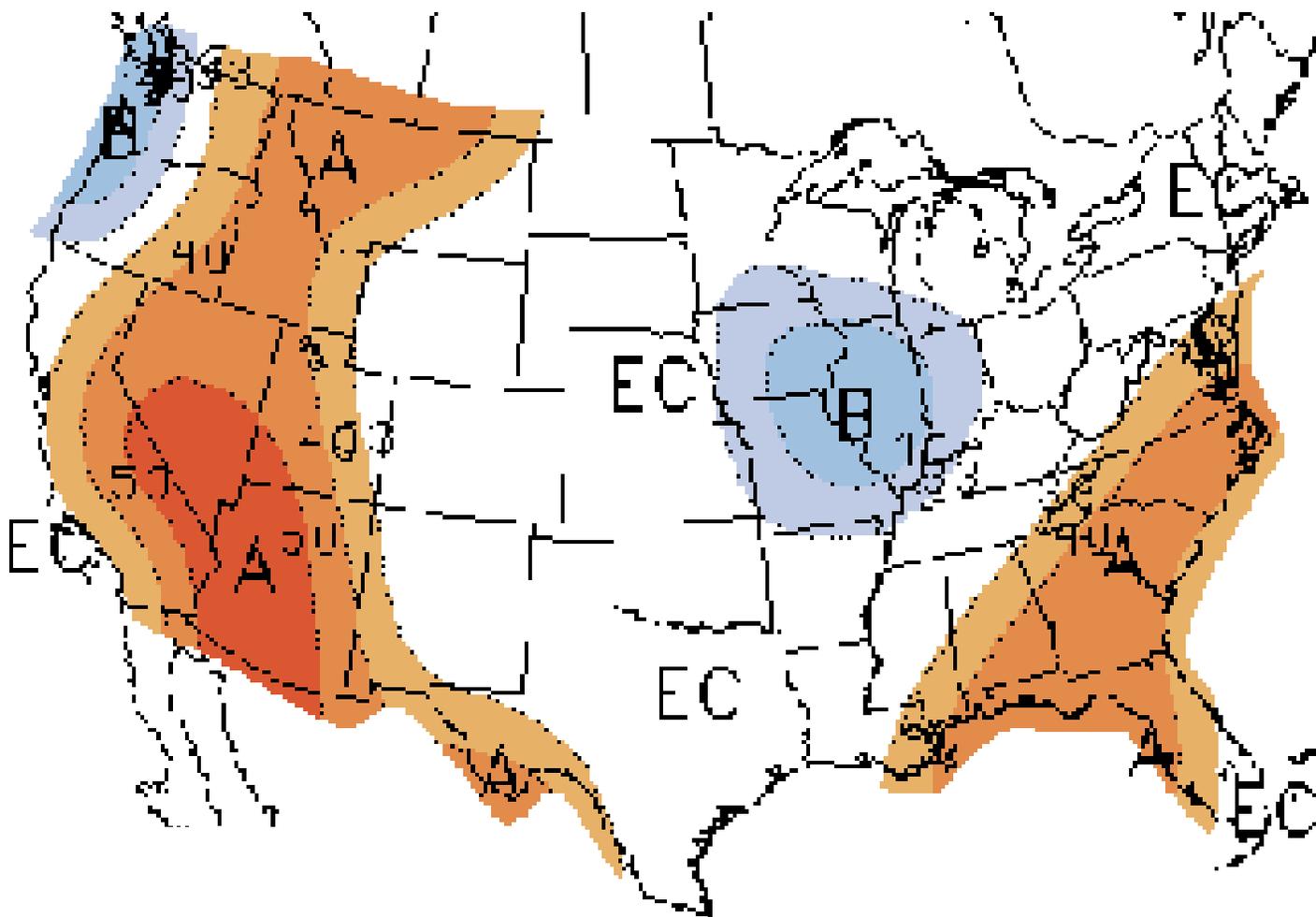
Note: "A" areas are above normal and "B" areas are below normal. Normal is based on the last 30 years of data.

Source: NOAA

Updated July 9, 2008

3012

## NOAA's Monthly Temperature Forecast Made June 30, Valid for July 2008



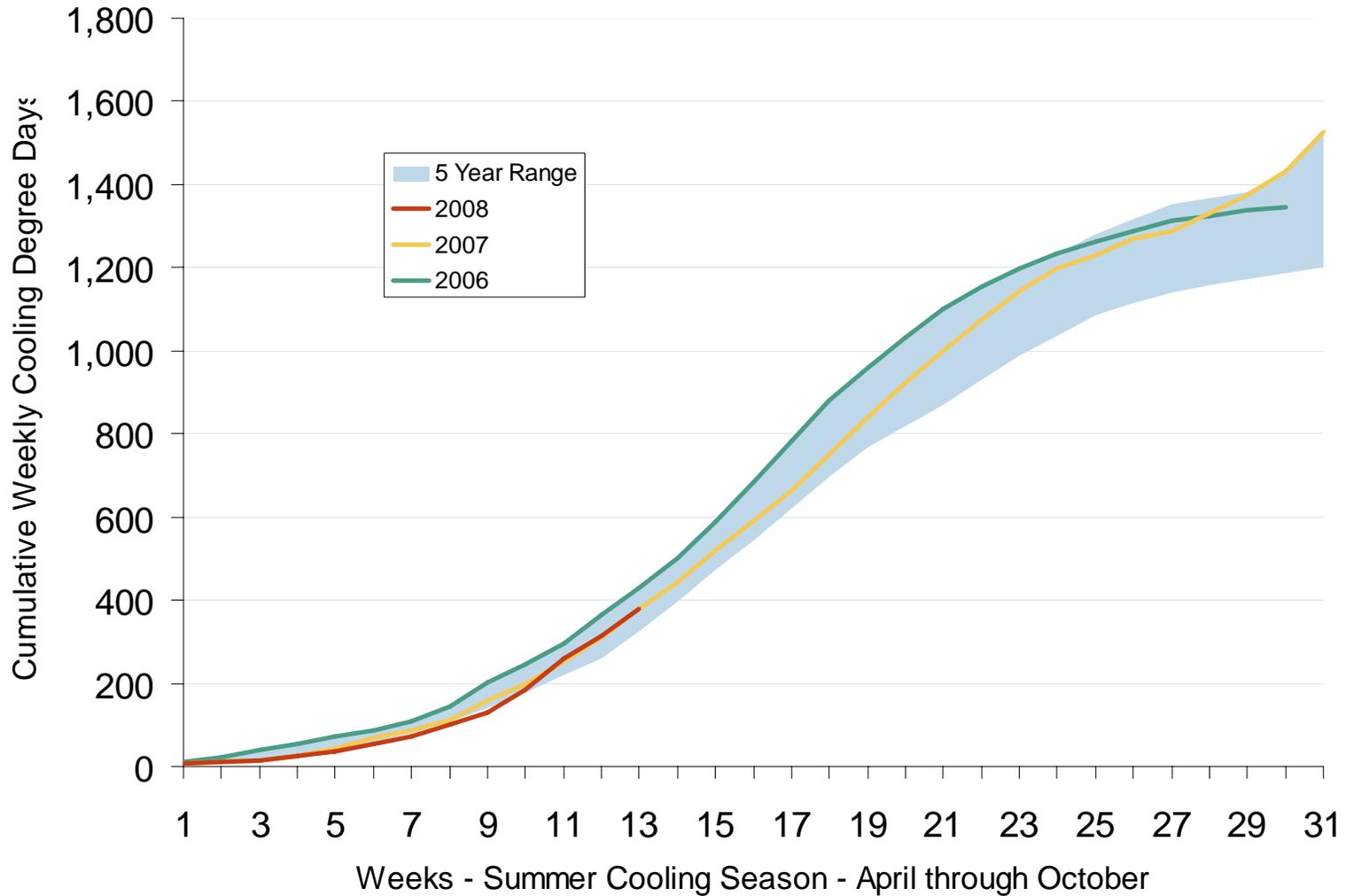
Note: "A" areas are above normal, "B" areas are below normal and "EC" means equal chance. Normal based on the last 30 years of data.

Source: NOAA

Updated July 9, 2008

3012

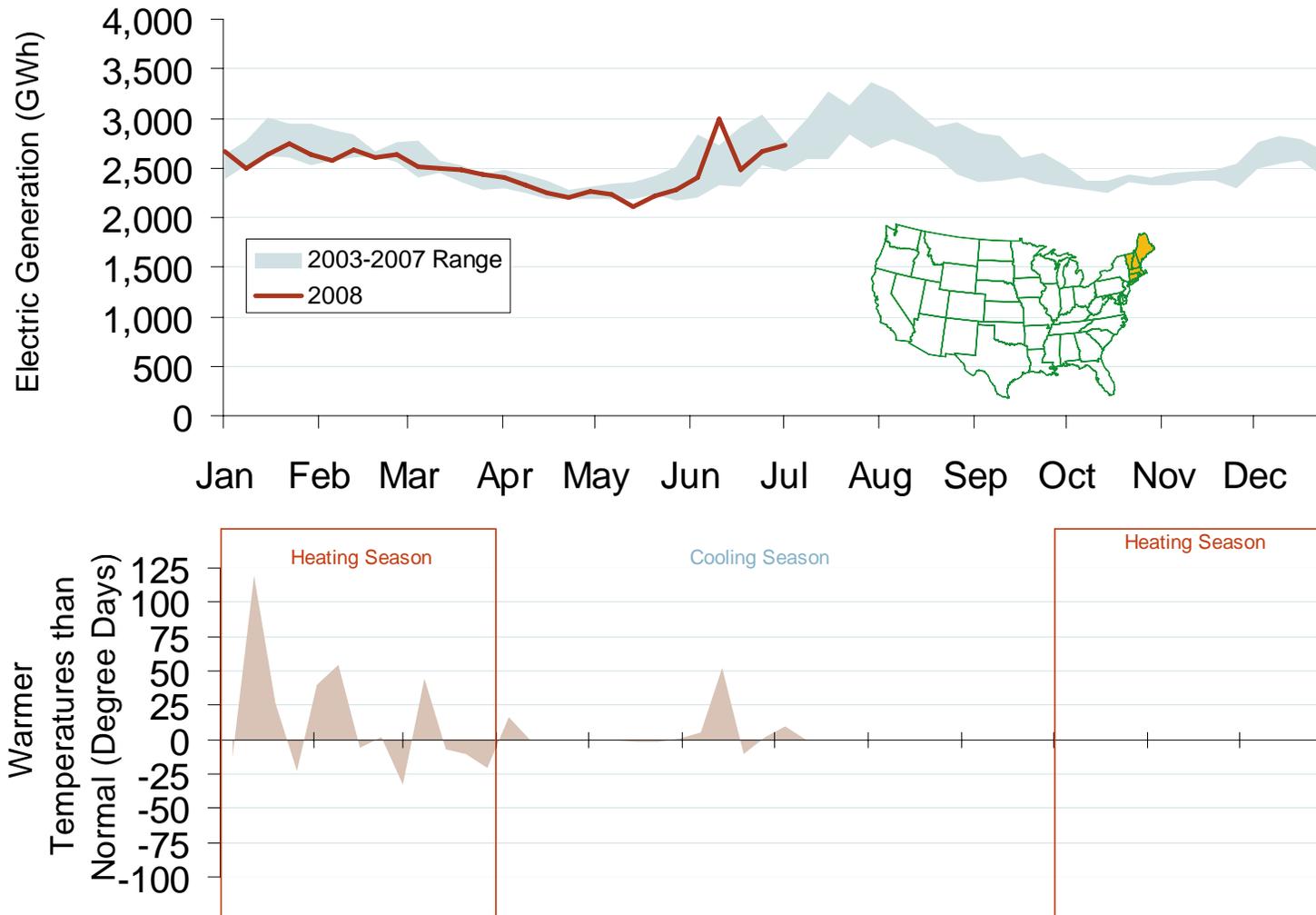
# U. S. Summer Cumulative Cooling Degree Days



Source: Derived from NOAA data.

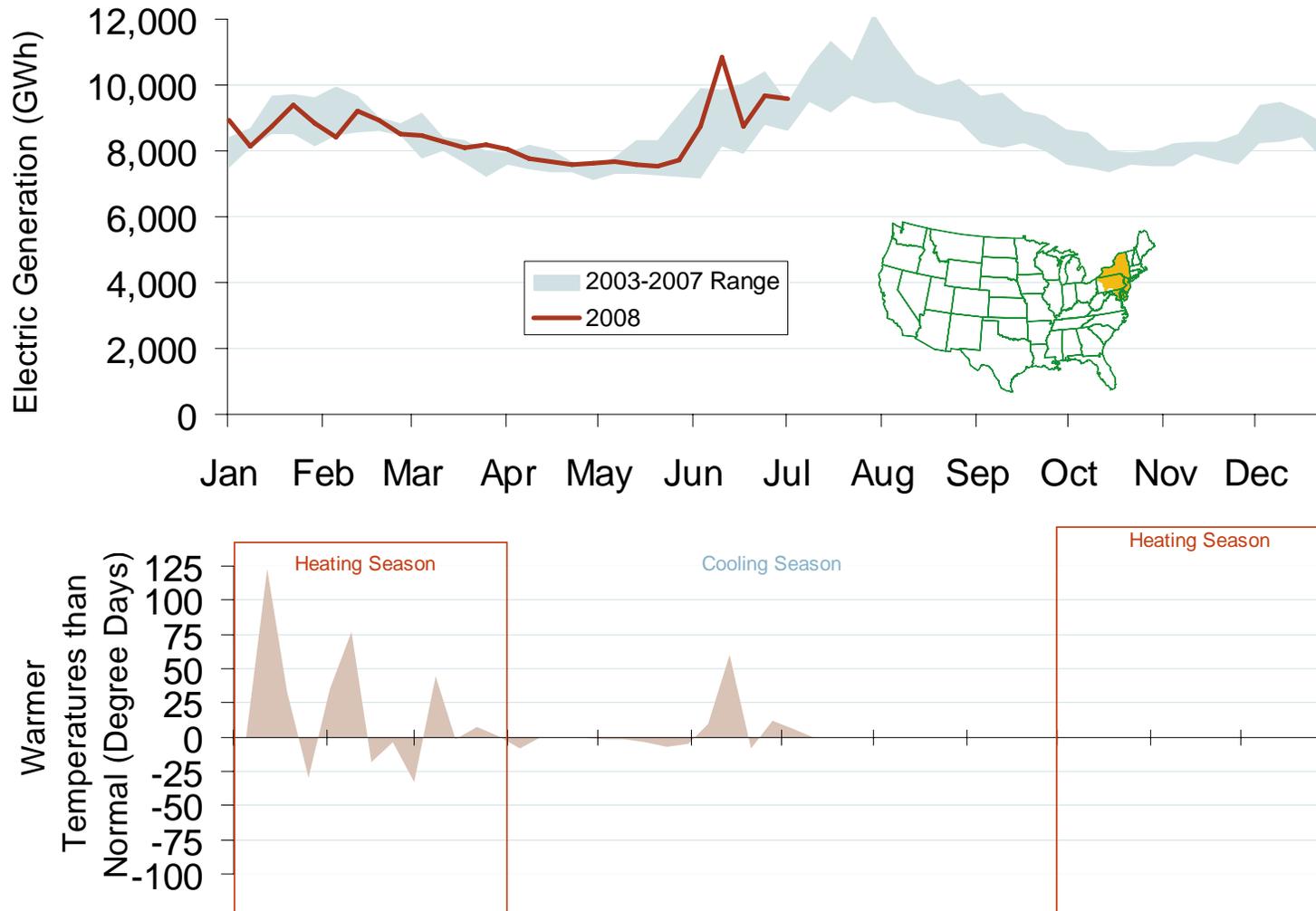
Updated July 9, 2008

# Weekly Electric Generation Output and Temperatures New England



Source: Derived from *EEl* and *NOAA* data.

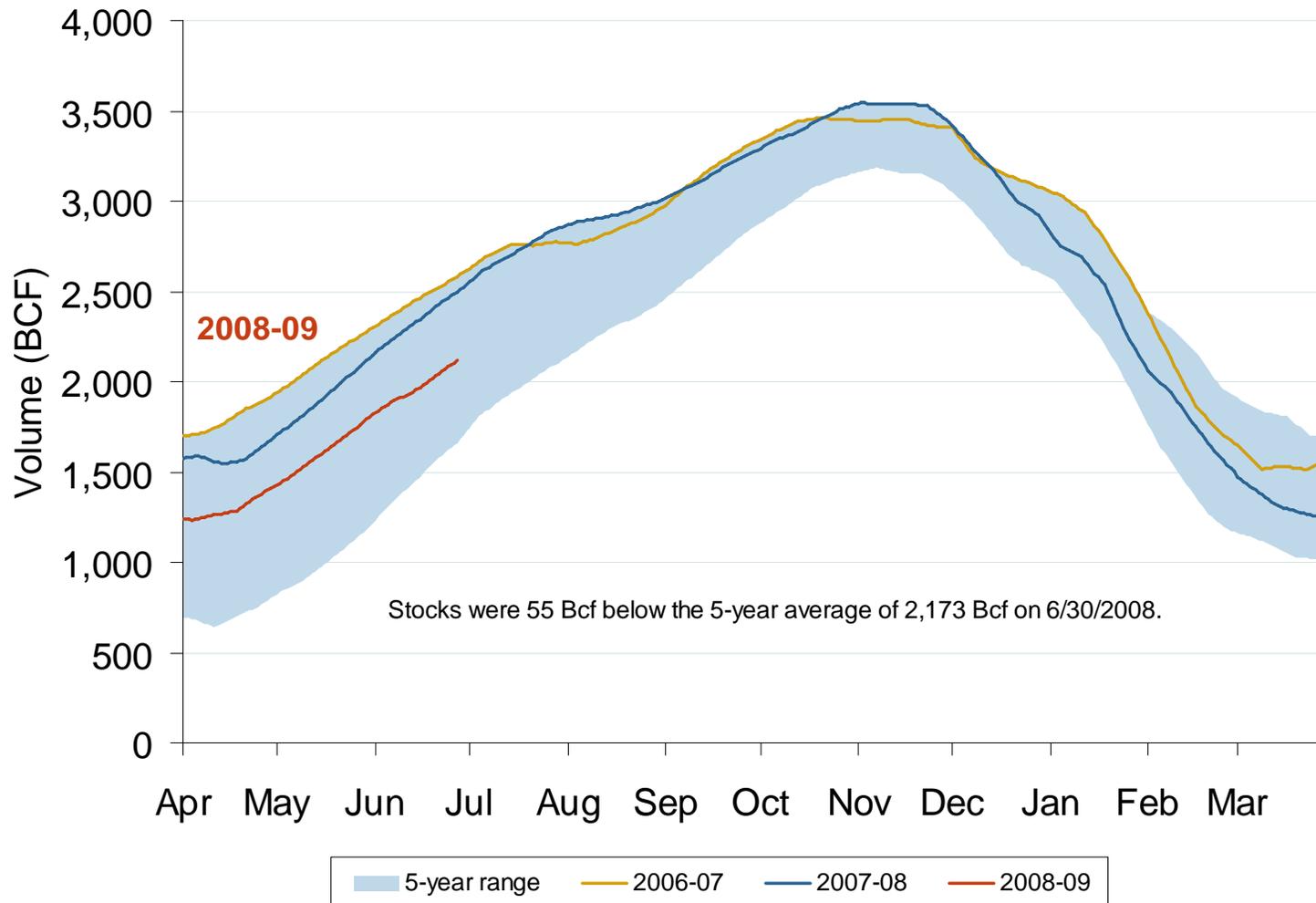
# Weekly Electric Generation Output and Temperatures Mid Atlantic Region



Source: Derived from *EEl* and *NOAA* data.

Updated July 9, 2008

## Total U.S. Working Gas in Storage

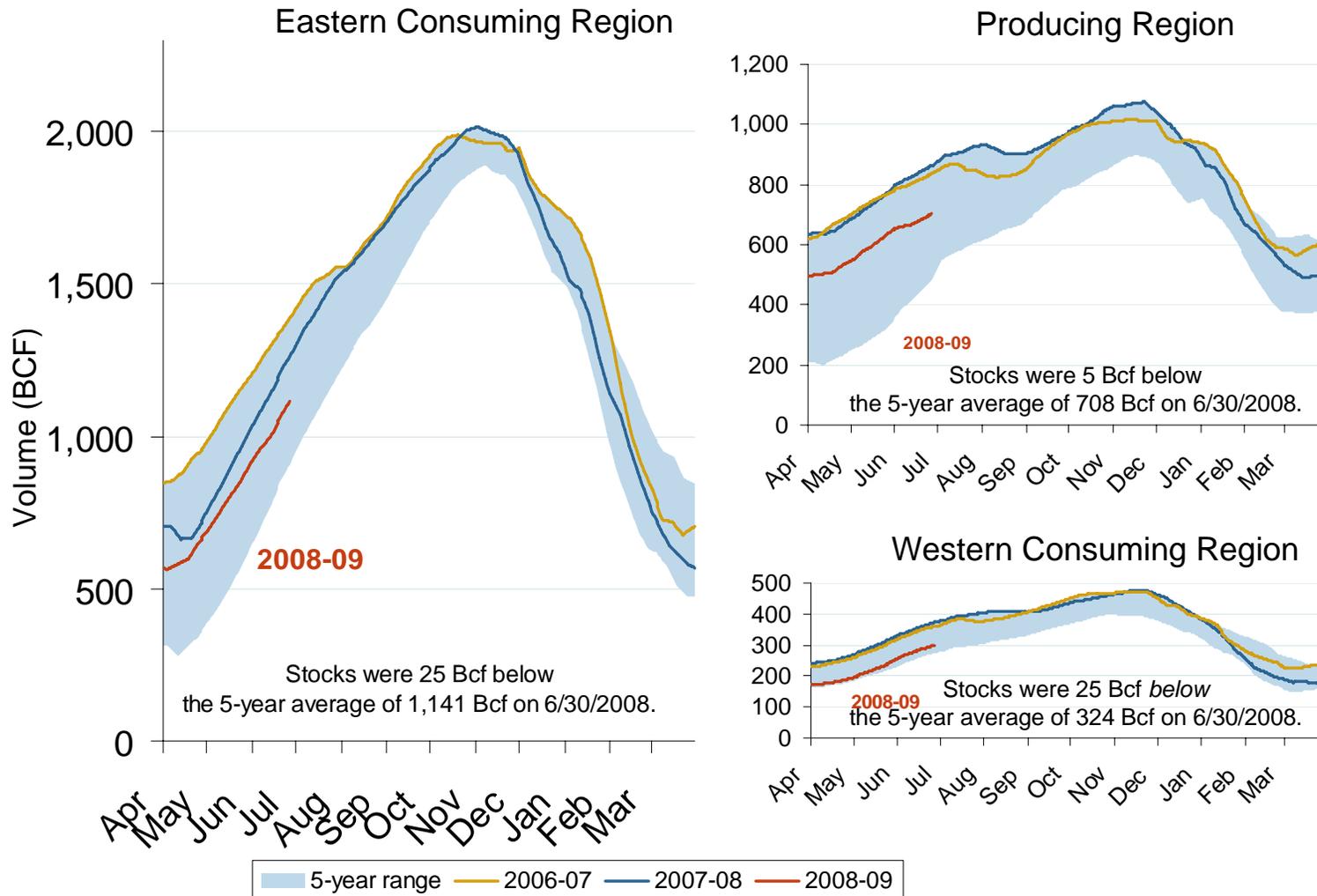


Source: Derived from EIA data.

Updated July 9, 2008

2003

## Regional Totals of Working Gas in Storage

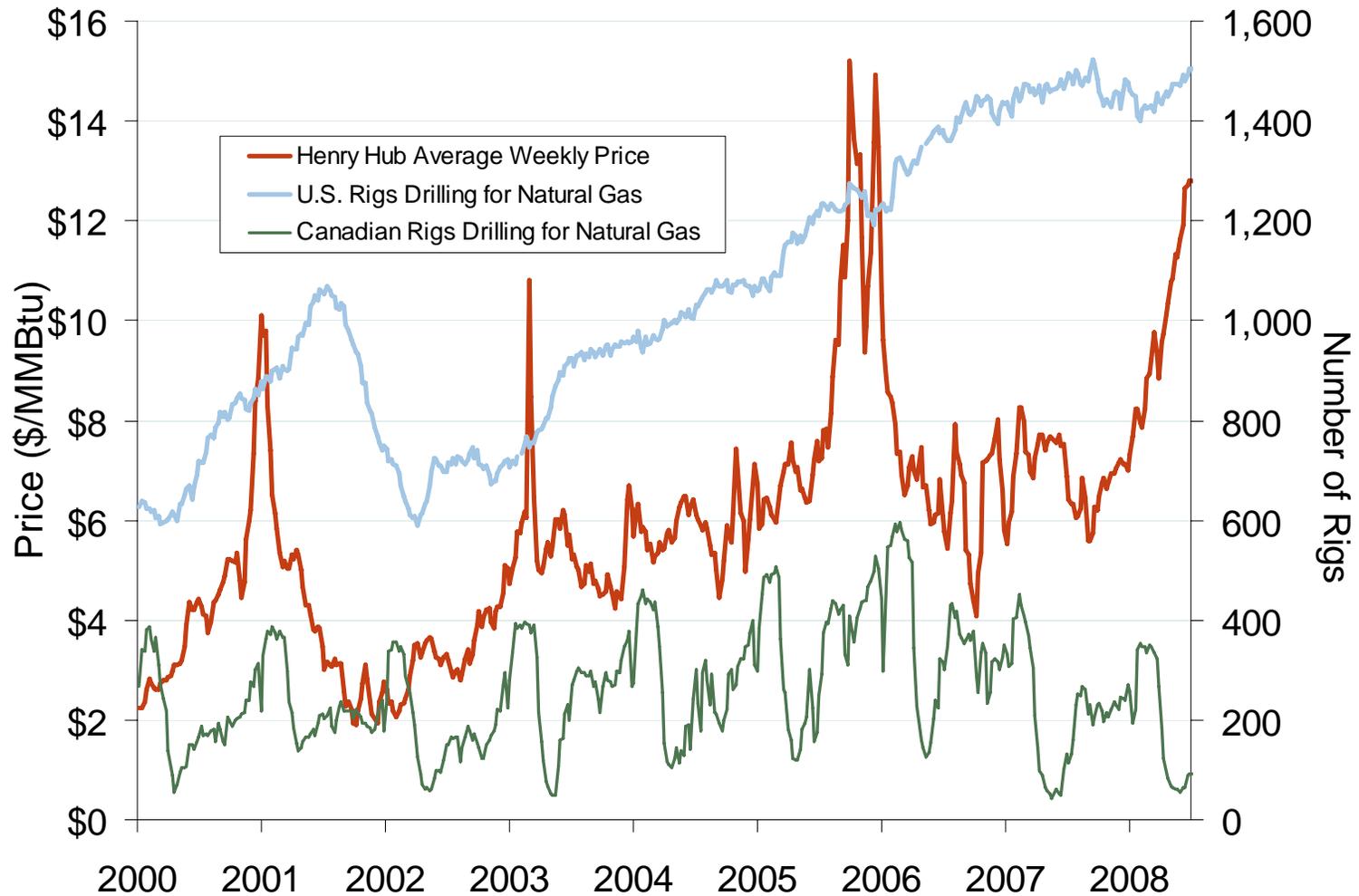


Source: Derived from EIA data.

Updated July 9, 2008

2004

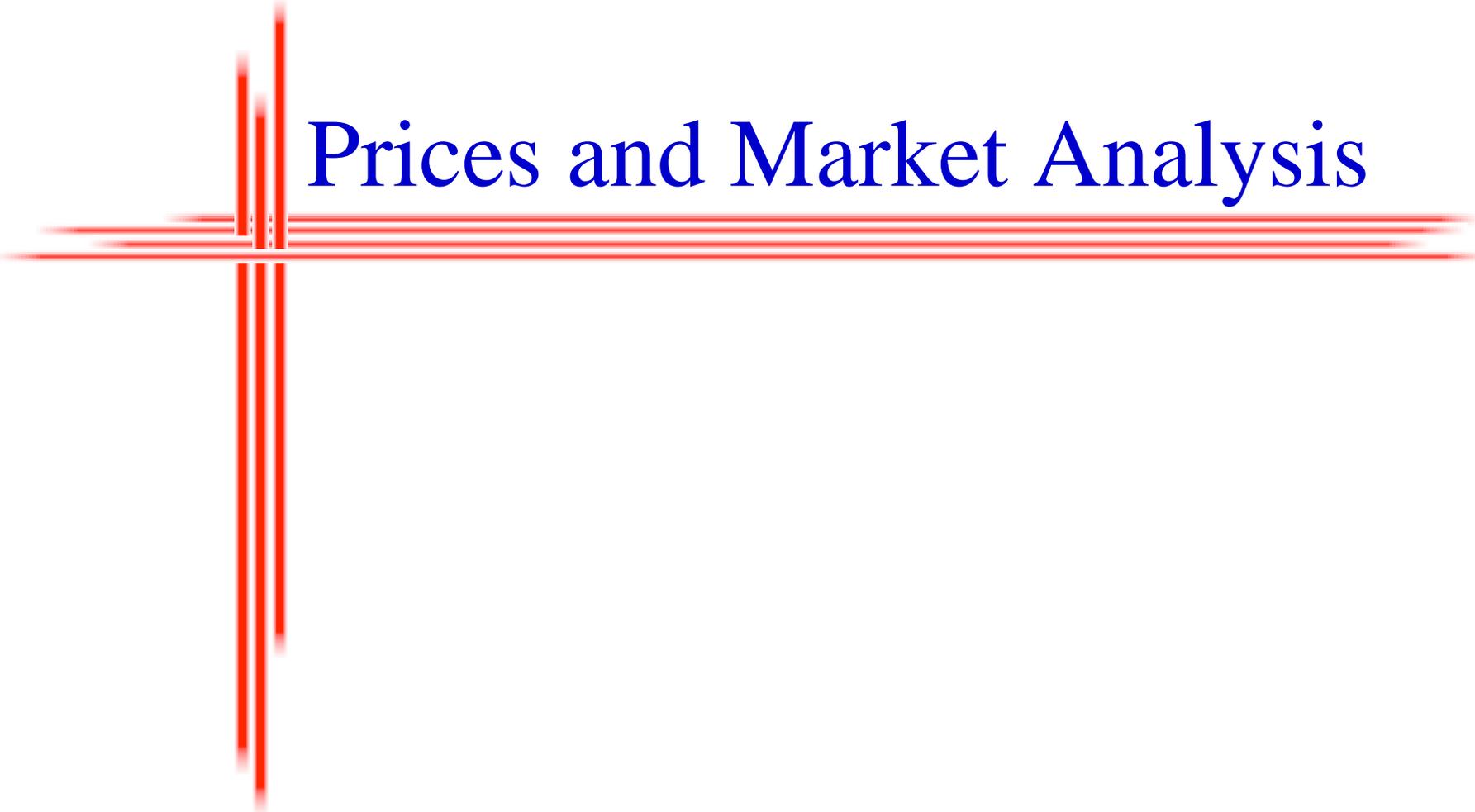
## U.S. and Canadian Natural Gas Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data.

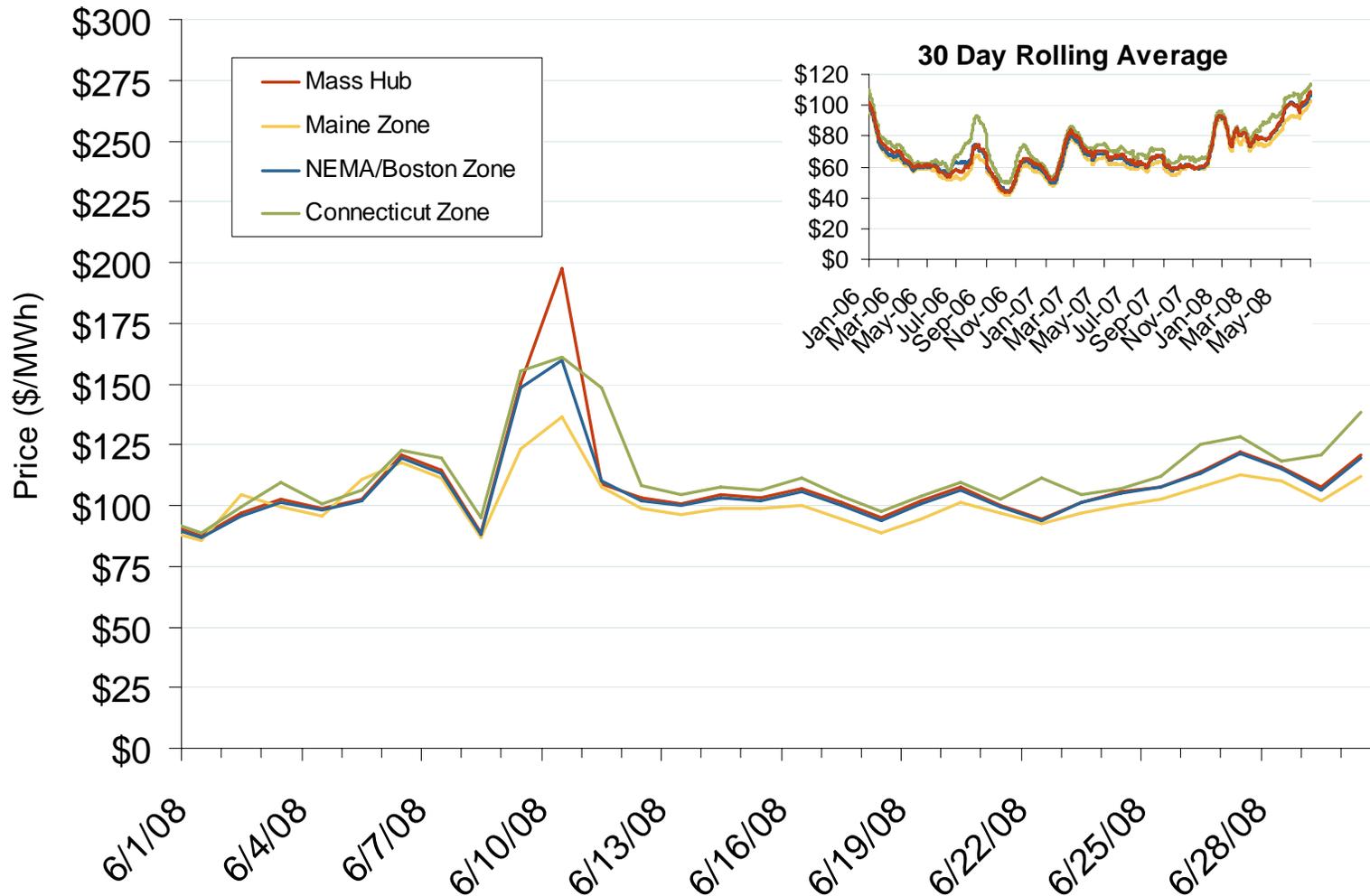
Updated July 9, 2008

2007



# Prices and Market Analysis

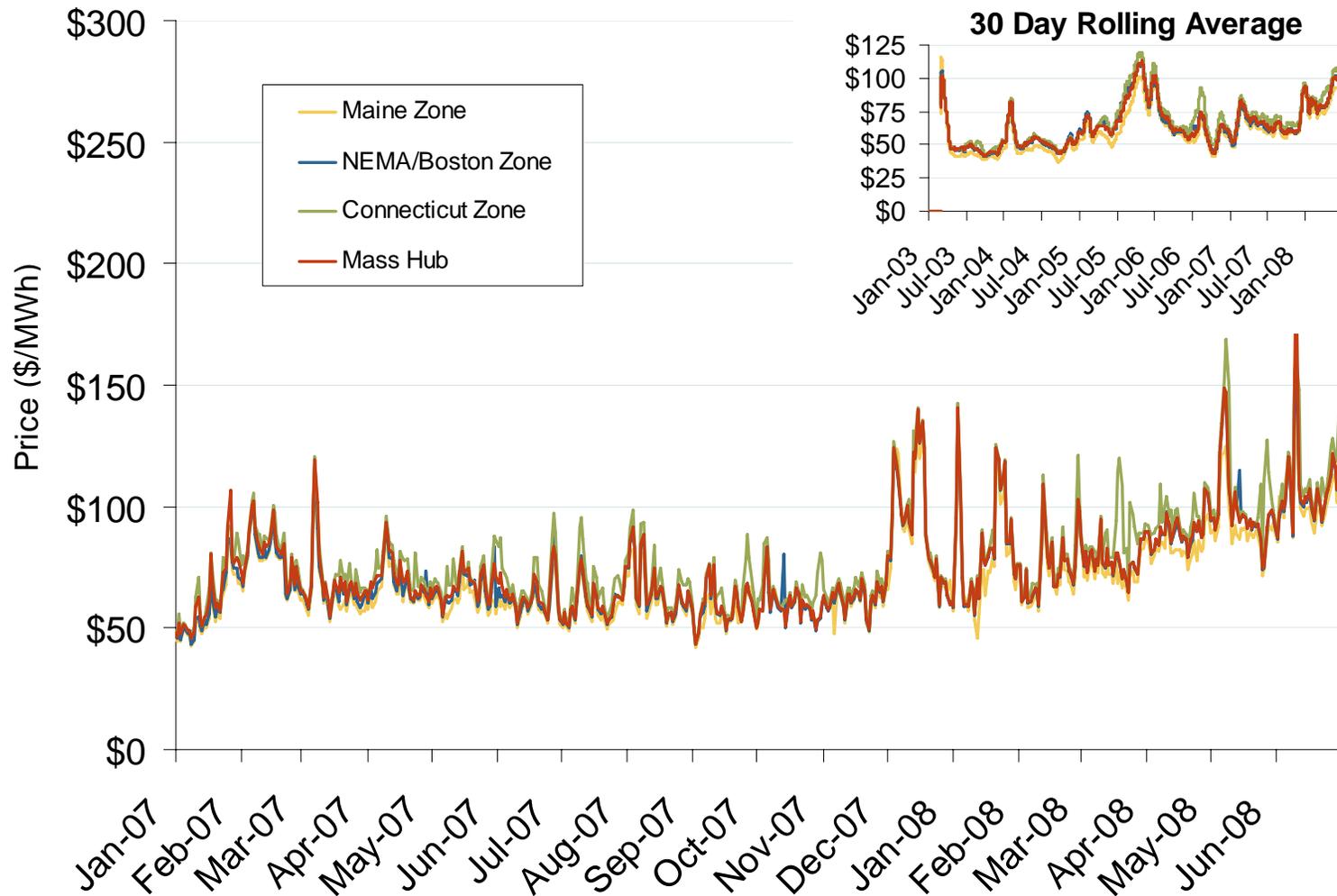
# Daily Average of ISO-NE Day-Ahead Prices - All Hours



Source: Derived by Bloomberg from ISO-NE data as reported by Bloomberg.

Updated July 9, 2008 1129

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

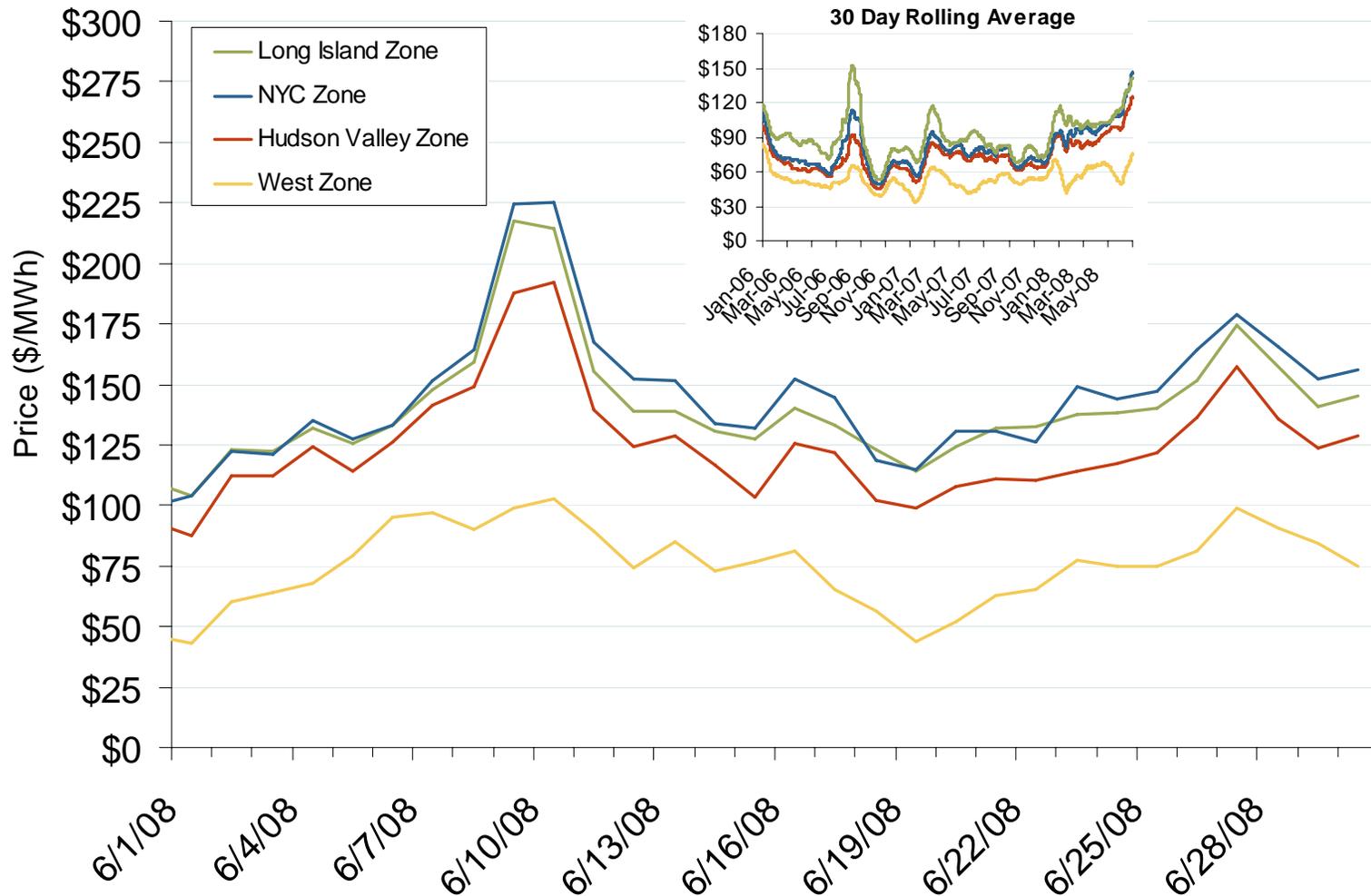


Source: Derived by *Bloomberg* from *ISO-NE* data as reported by *Bloomberg*.

Updated July 9, 2008

1021

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

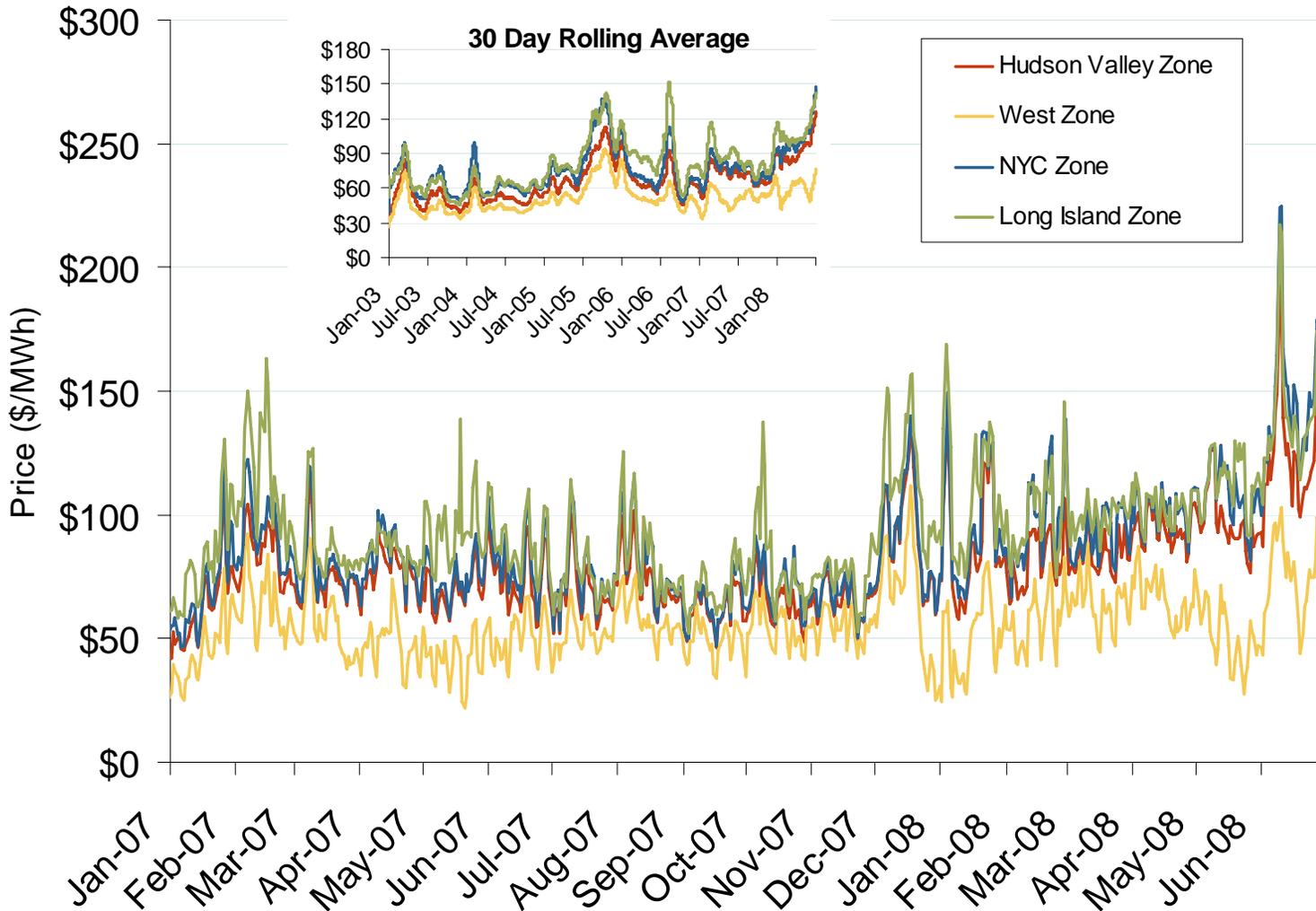


Source: Derived by Bloomberg from NYISO data as reported by Bloomberg.

Updated July 9, 2008

1130

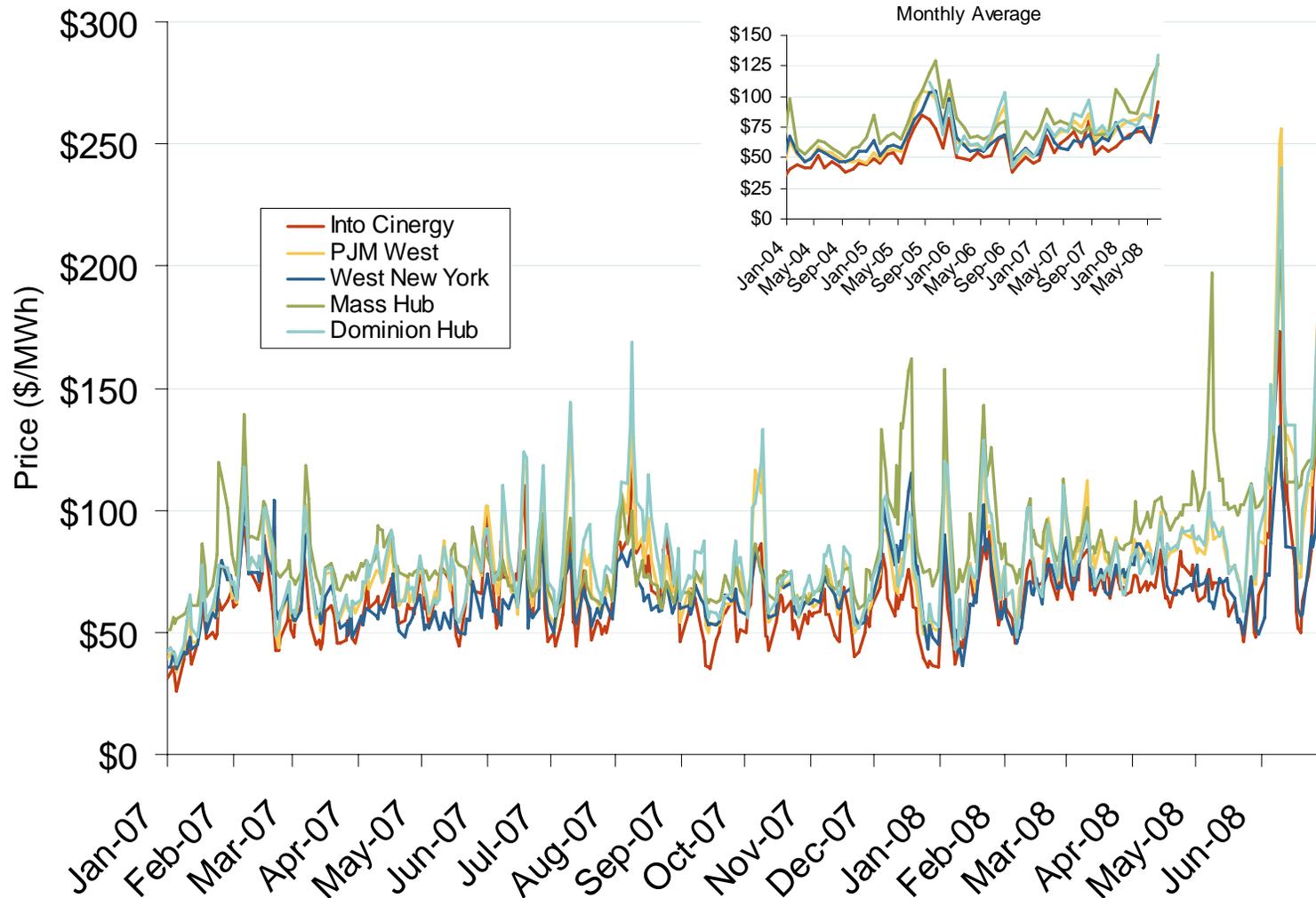
# Daily Average of NYISO Day-Ahead Prices - All Hours



Source: Derived by *Bloomberg* from NYISO data as reported by *Bloomberg*.

Updated July 9, 2008 1030

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

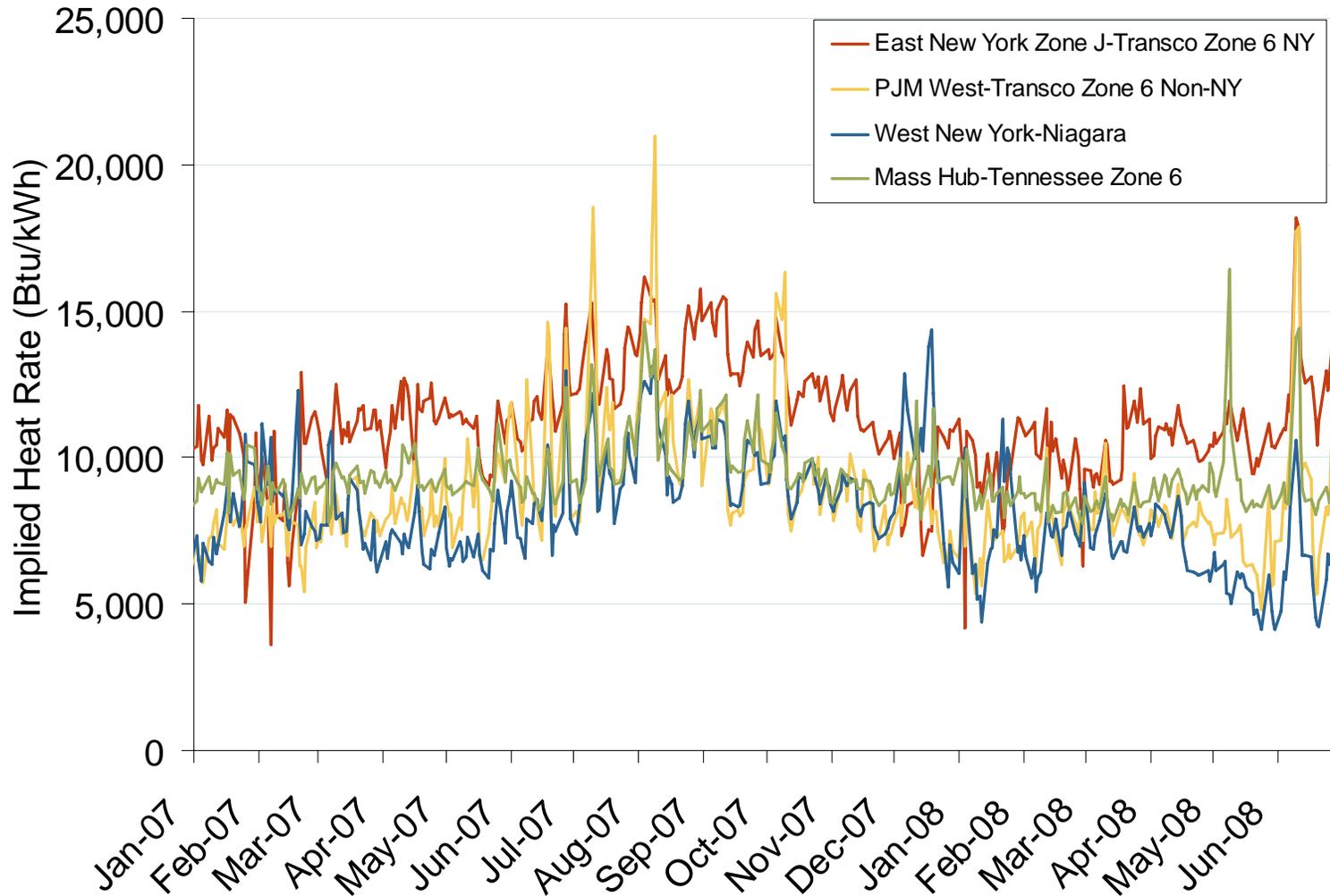


Source: Derived from *Platts* data.

Updated July 9, 2008

1031

## Implied Heat Rates at Eastern Trading Points

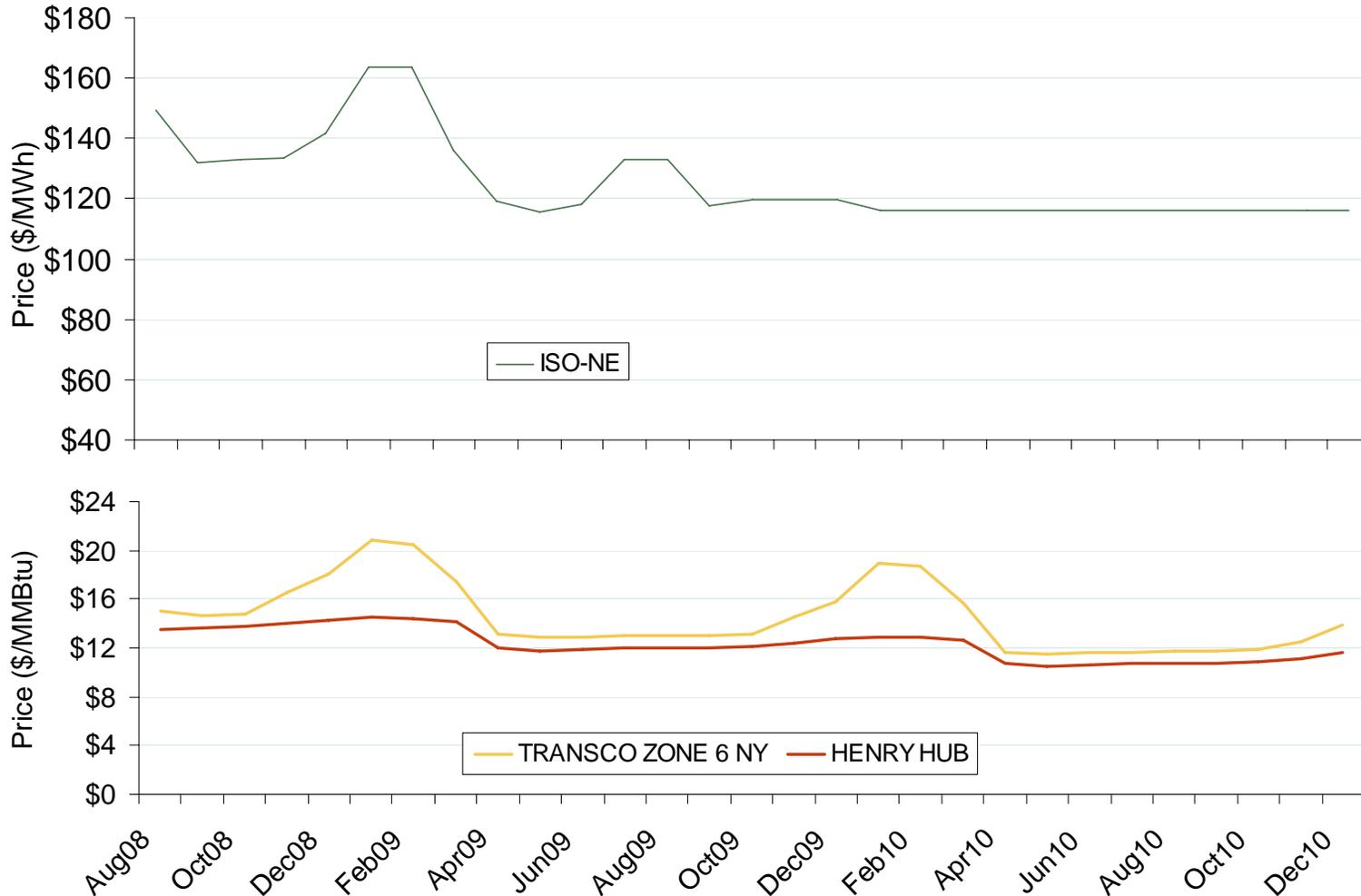


Source: Derived from *Platts* data

Updated July 9, 2008

1136

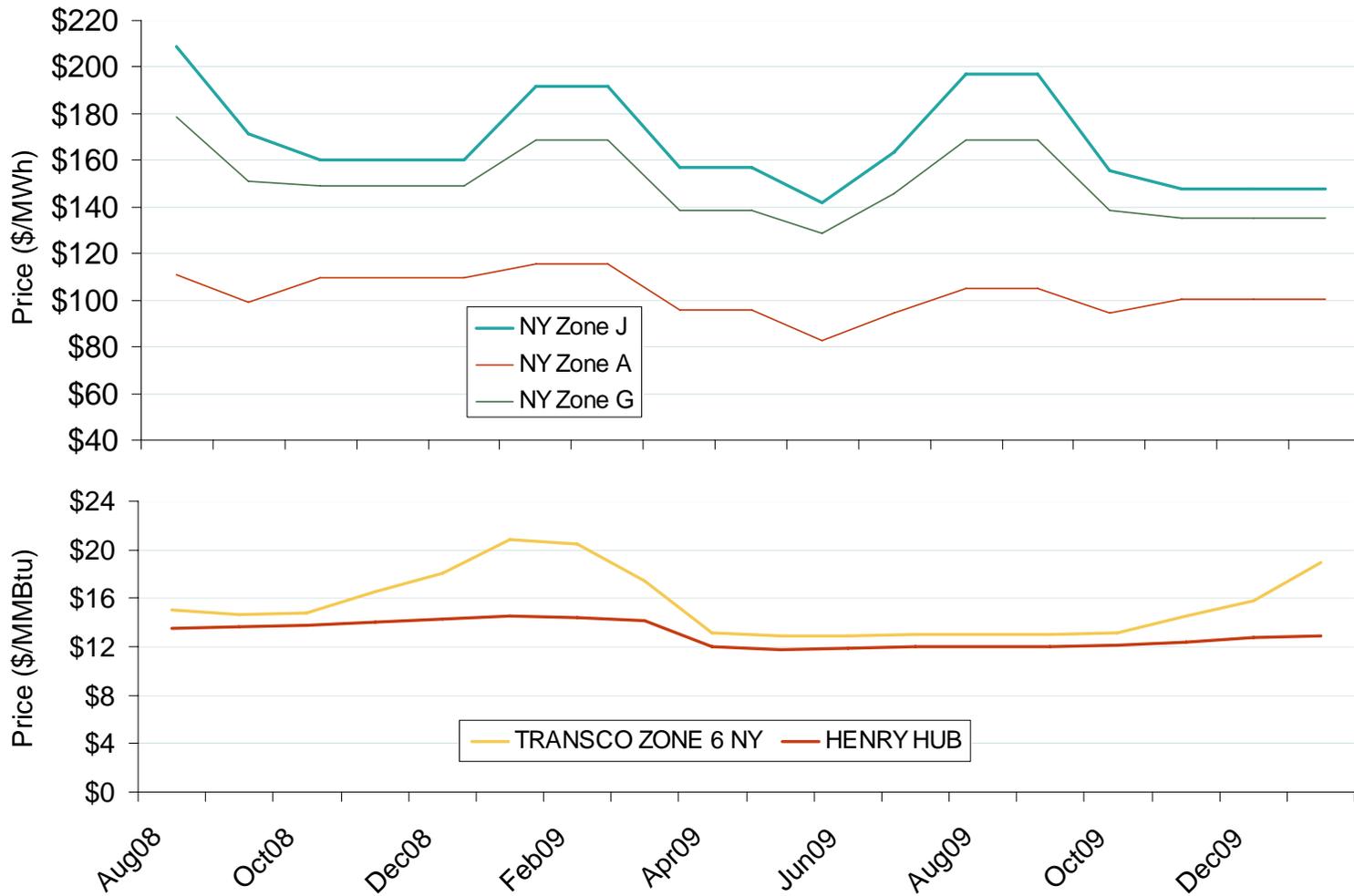
# New England Electric Forward Price Curve and New York and Henry Hub Natural Gas Forward Curves



Source: Derived from Nymex data.

Updated July 9, 2008

# New York Electric Forward Price Curves and New York and Henry Hub Natural Gas Forward Curves



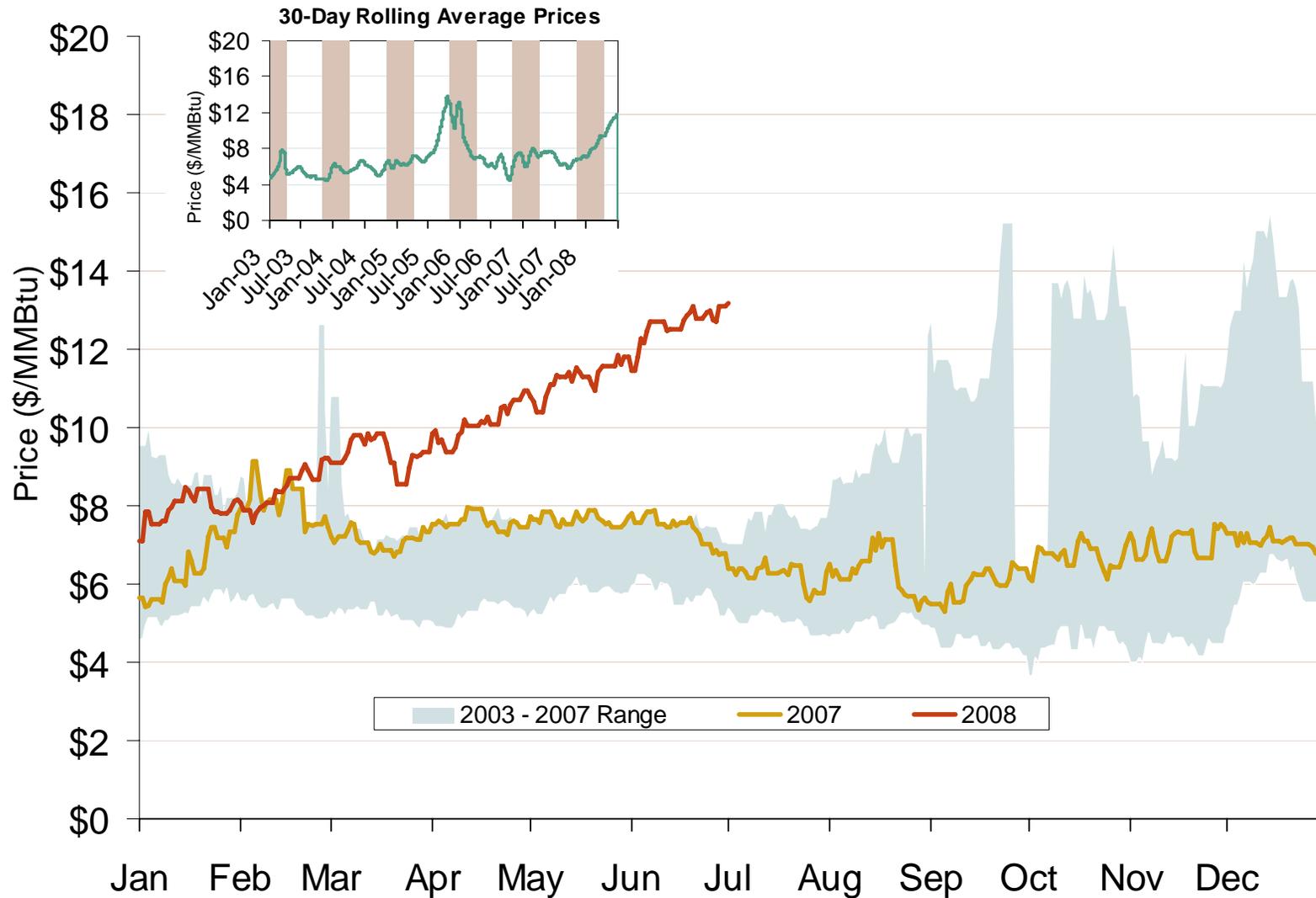
Source: Derived from Nymex data.

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1150

Federal Energy Regulatory Commission • Market Oversight @ FERC.gov

# Henry Hub Natural Gas Daily Spot Prices 2007, 2008 and 2003-2007 Year Range

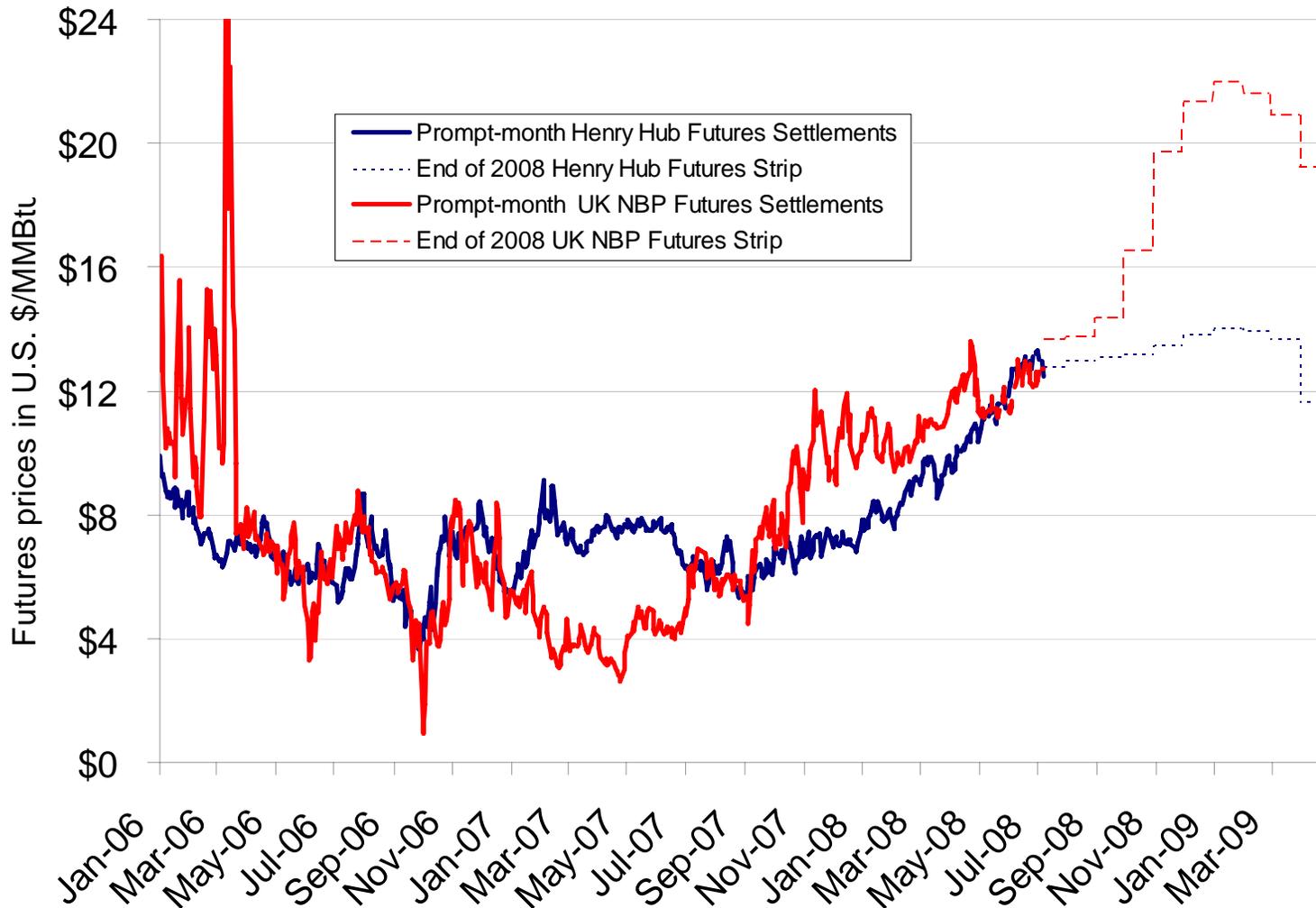


Source: Derived from *Platts* data.

Updated July 9, 2008

2085

## US and UK Gas Futures Prices

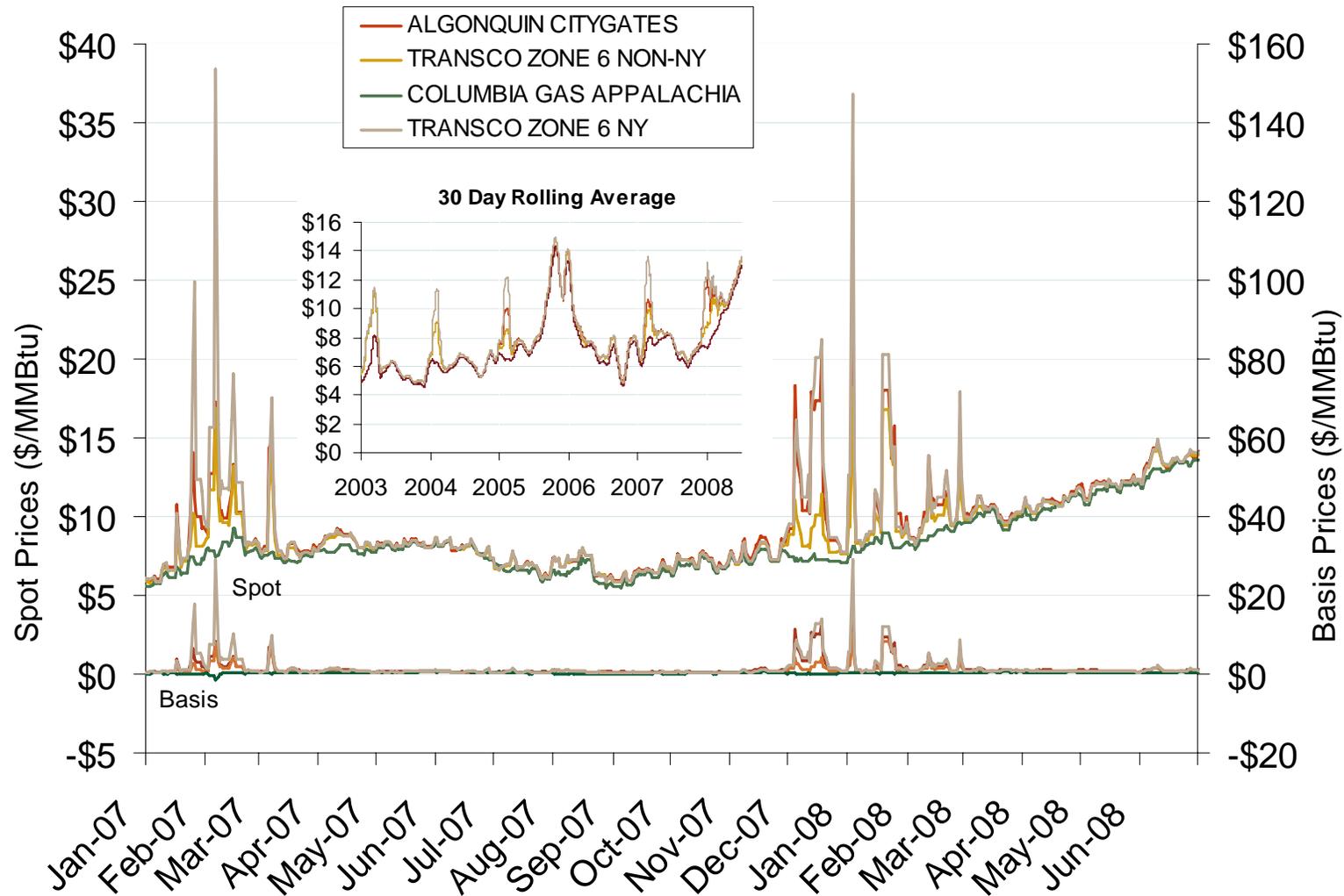


Source: Derived from NYMEX and ICE data.

Updated July 9, 2008

2177

## Northeastern Spot Prices and Basis

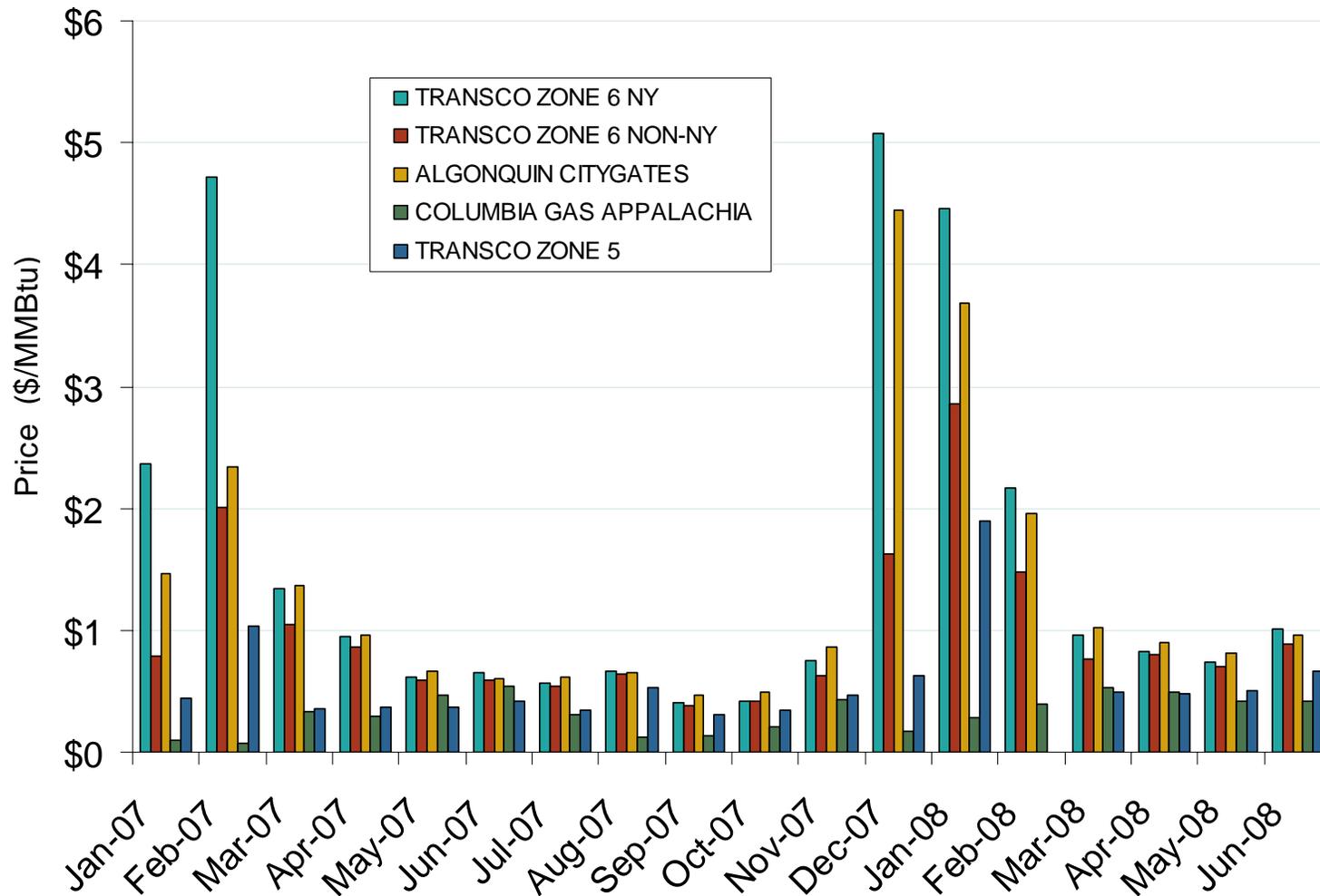


Source: Derived from *Platts* data.

Updated July 9, 2008

2030

# Northeastern Monthly Average Basis Value to Henry Hub

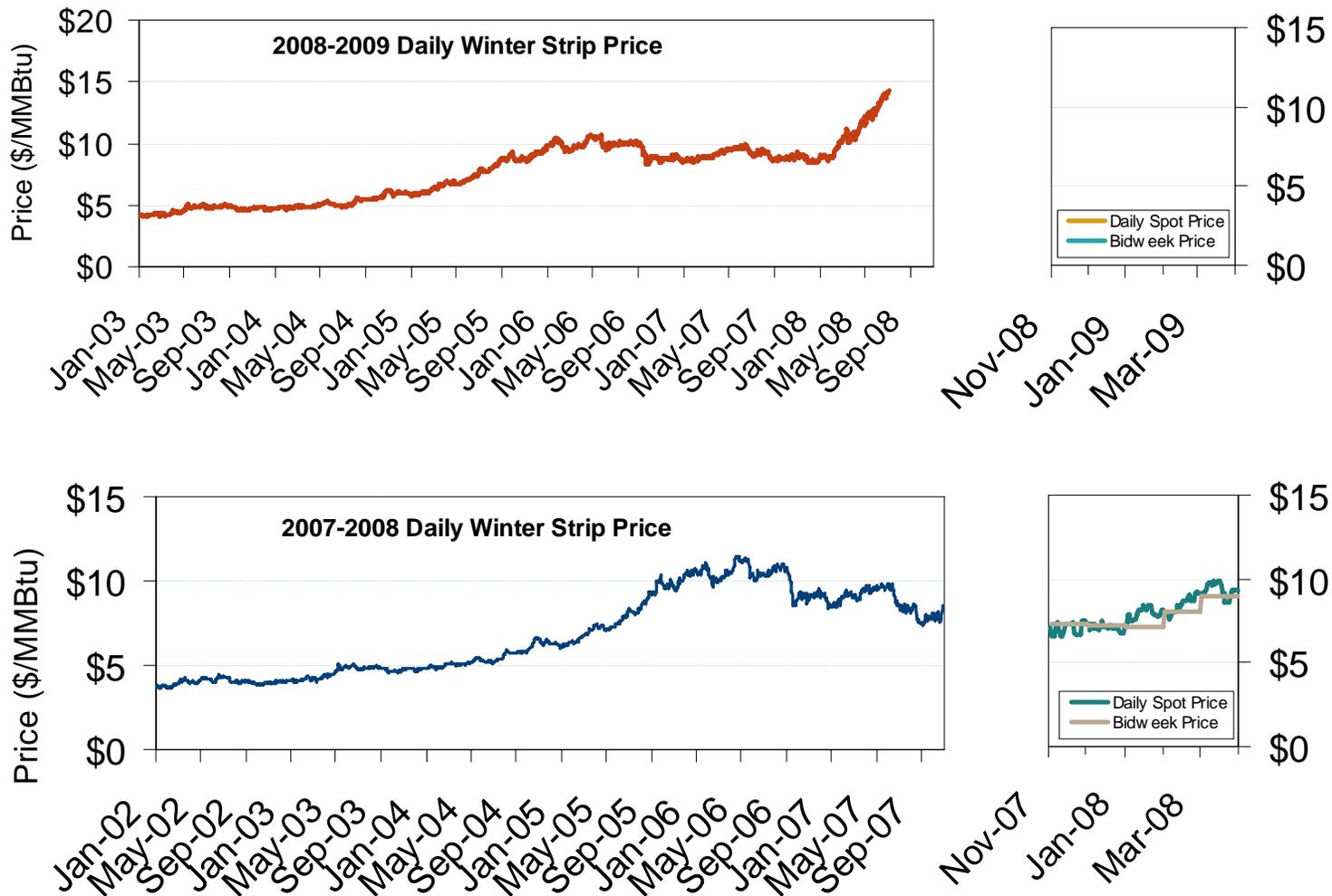


Source: Derived from *Platts* data.

Updated July 9, 2008

2031

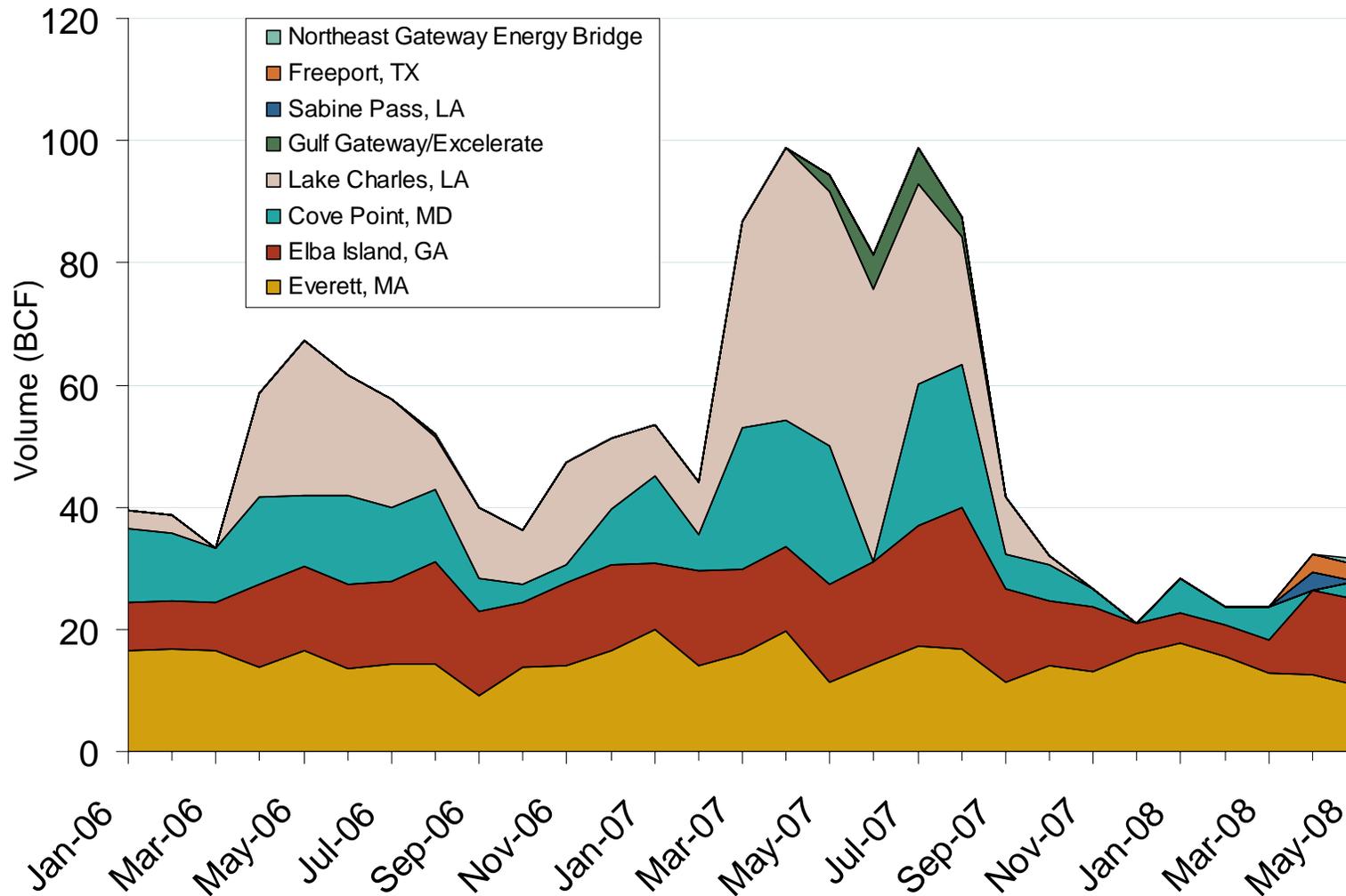
## Natural Gas Winter Futures Strip and Daily Henry Hub Spot and Bidweek Prices



Source: Derived from *Platts* and *Nymex* data.

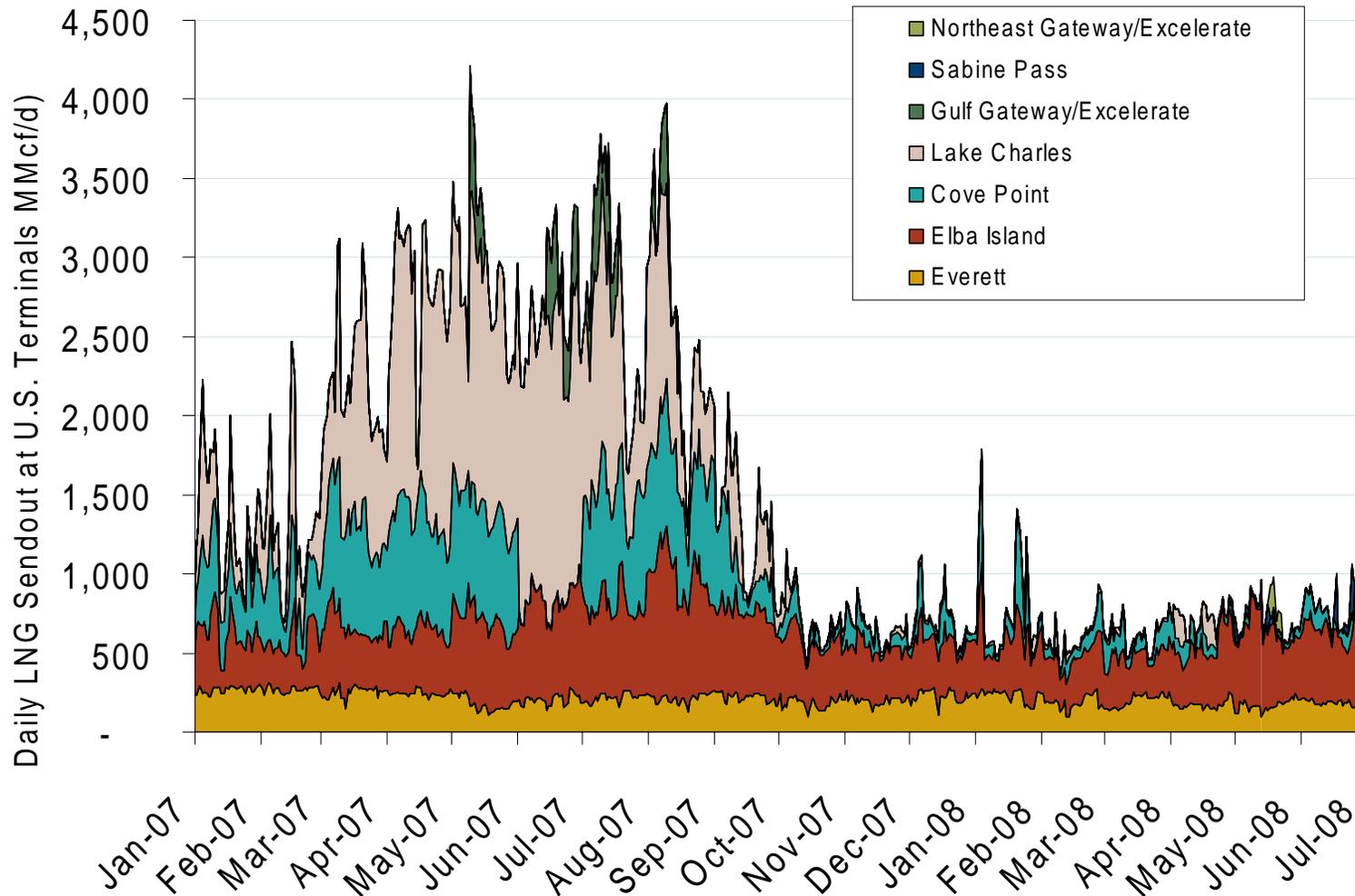
Updated July 9, 2008

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



Source: Derived from DOE Office of Fossil Energy data.

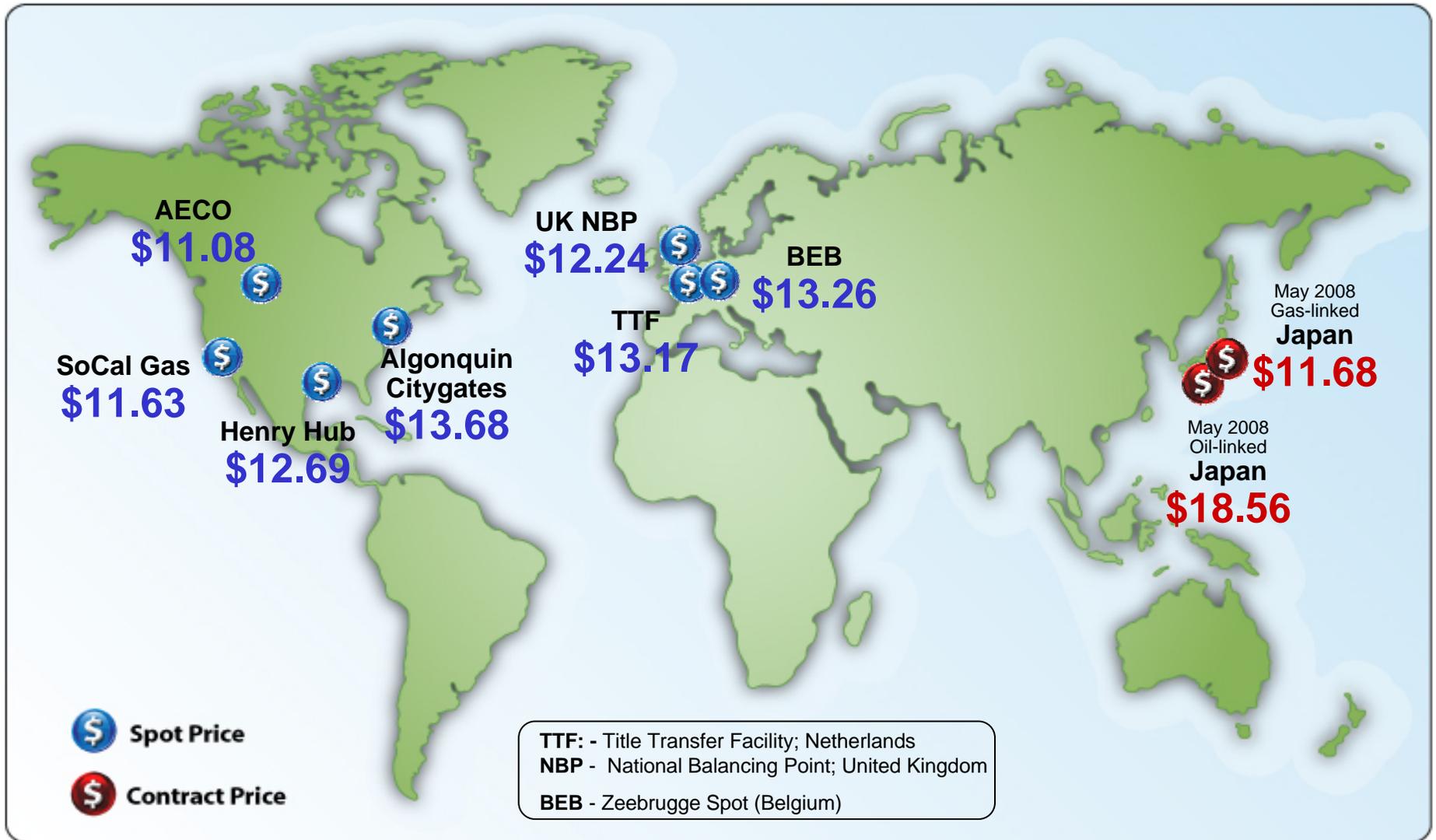
## Daily Gas Sendout from Existing U.S. LNG Facilities



Source: Derived from *Bentek* data. Excludes Everett LNG delivered via truck and consumed by the Mystic plant as well as Freeport LNG which flows via intrastate pipelines.

Updated July 14, 2008 3007

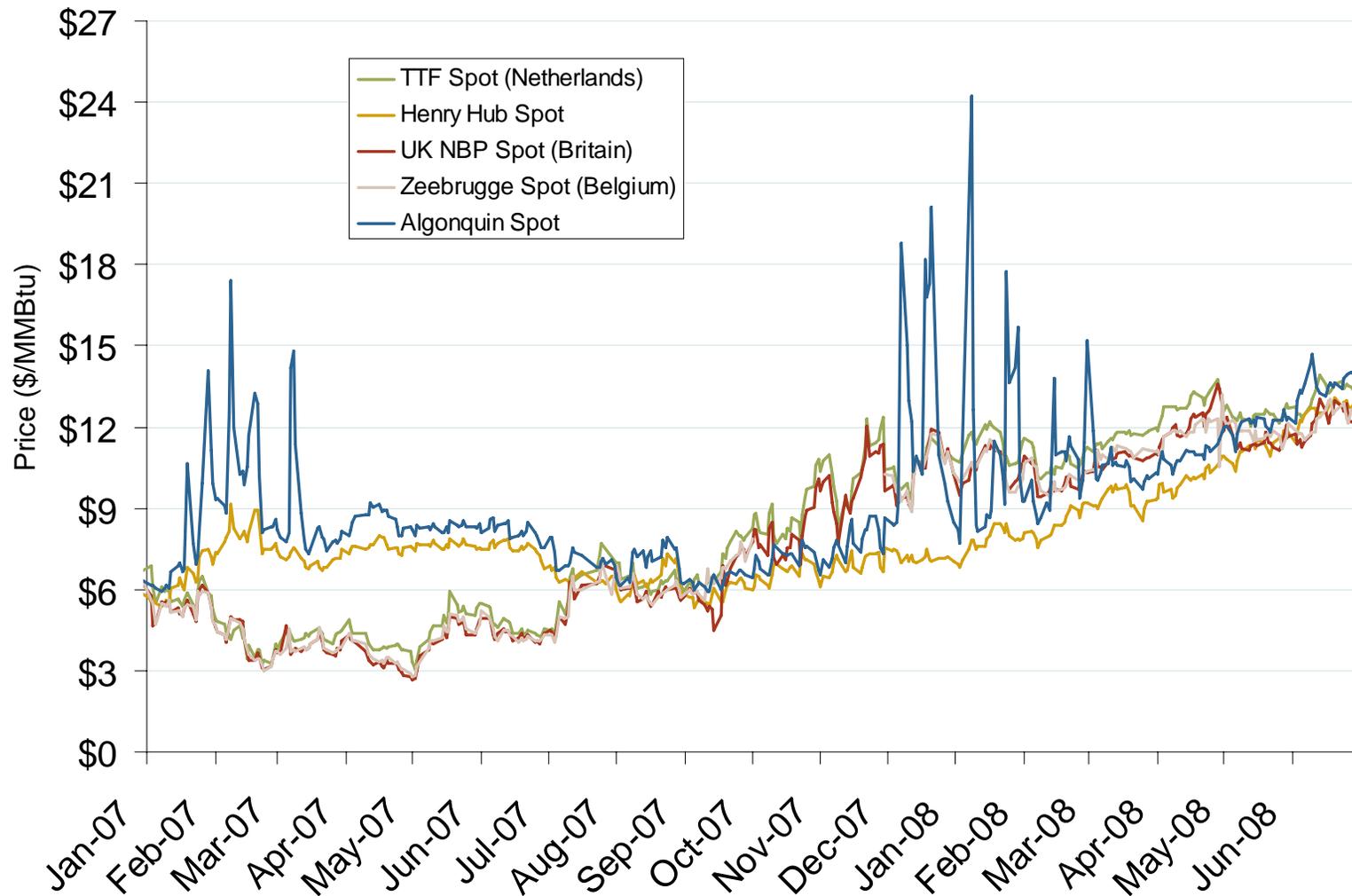
## World Natural Gas Prices for June 2008



Source: Derived from *Bloomberg, ICE, ICAP and LNG Japan Corp.* data. Spot Price is a monthly average of daily prices. Contract Price is a monthly price. All prices in \$US/MMBtu.

Updated July 9, 2008

## Atlantic Basin European and US Spot Natural Gas Prices

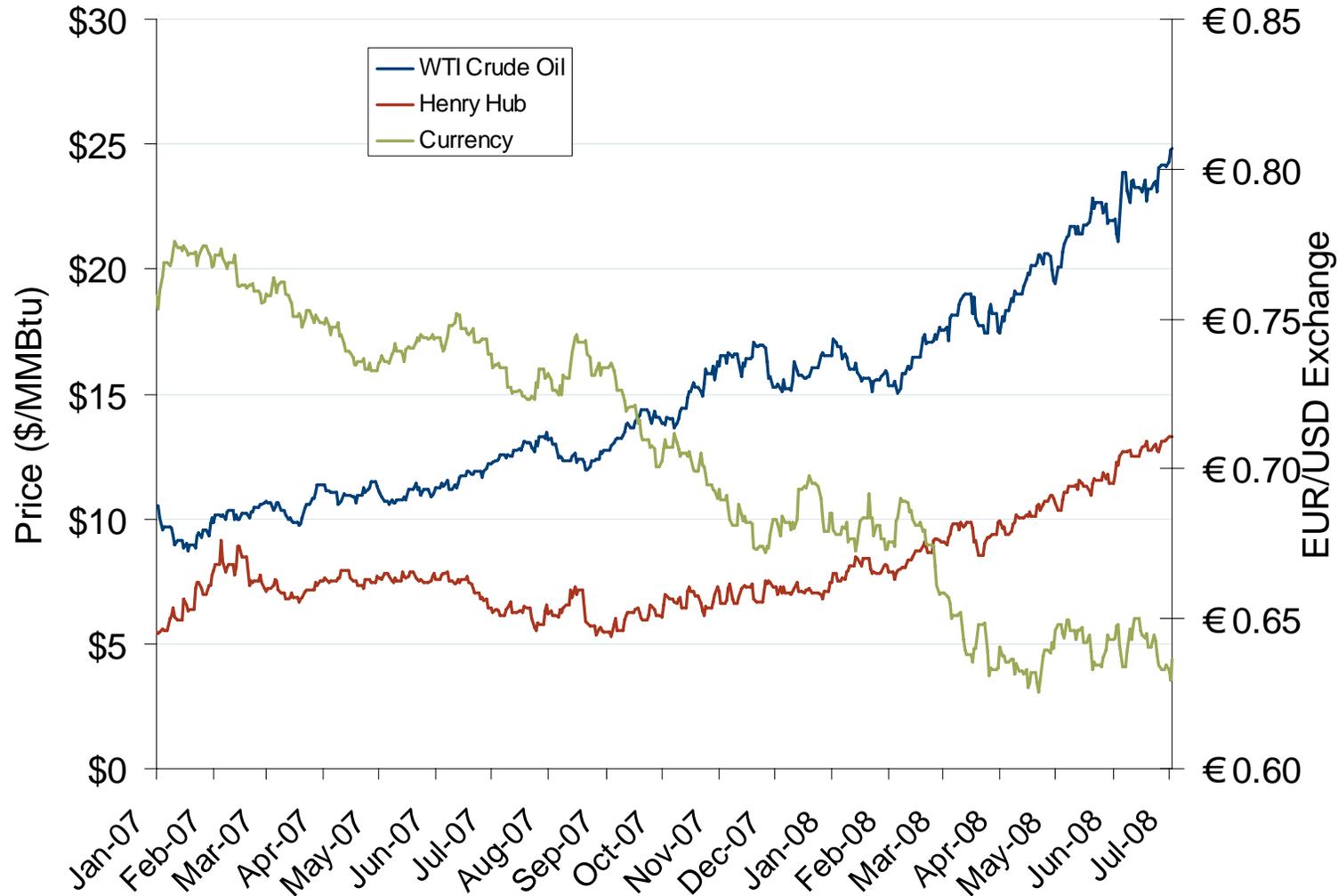


Source: Derived from *Bloomberg* and *ICE* data.

Updated July 9, 2008

3008

## Oil, Natural Gas and Currency Spot Prices

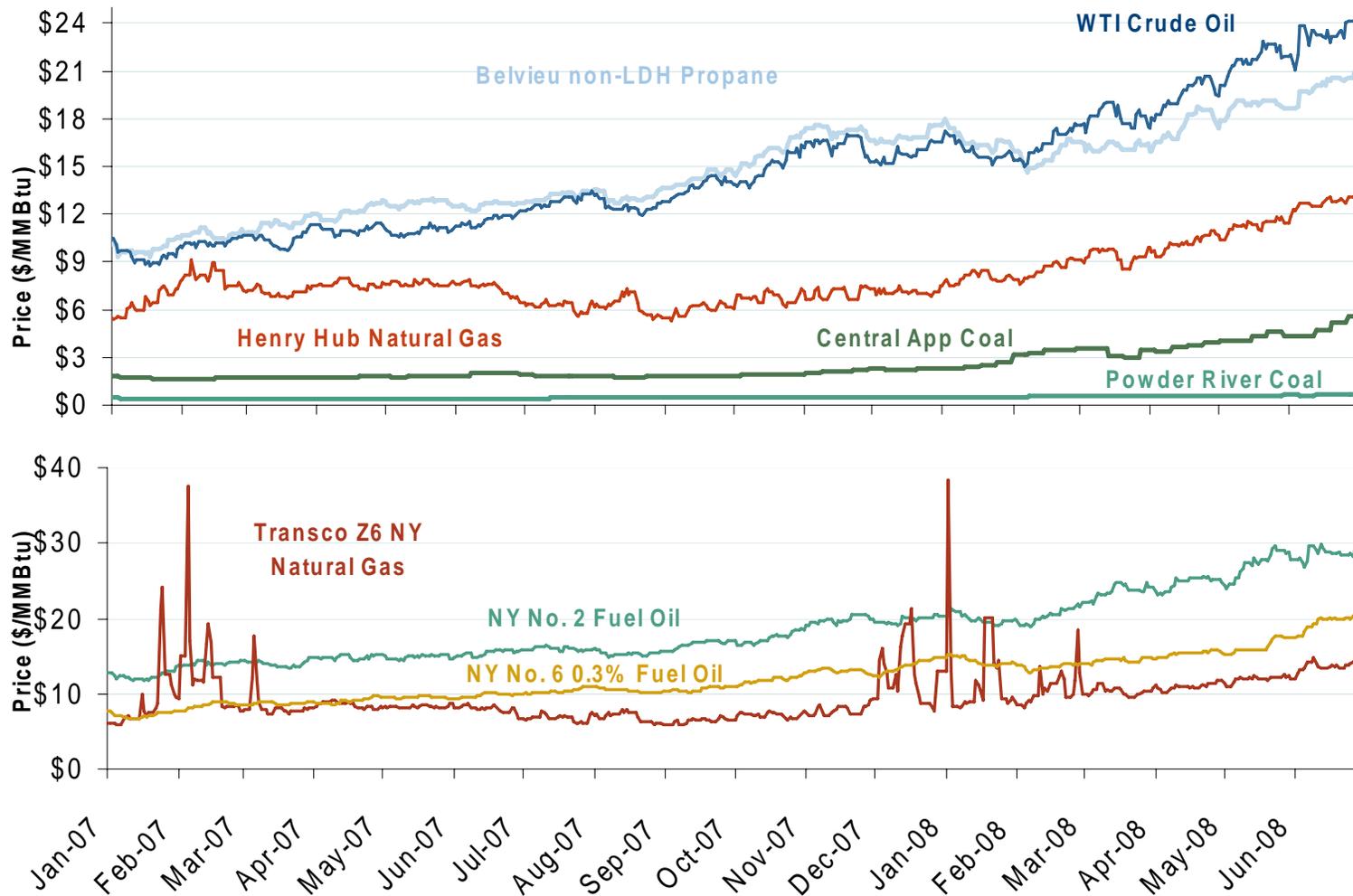


Source: Derived from *Bloomberg* data.

Updated July 9, 2008

3009

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

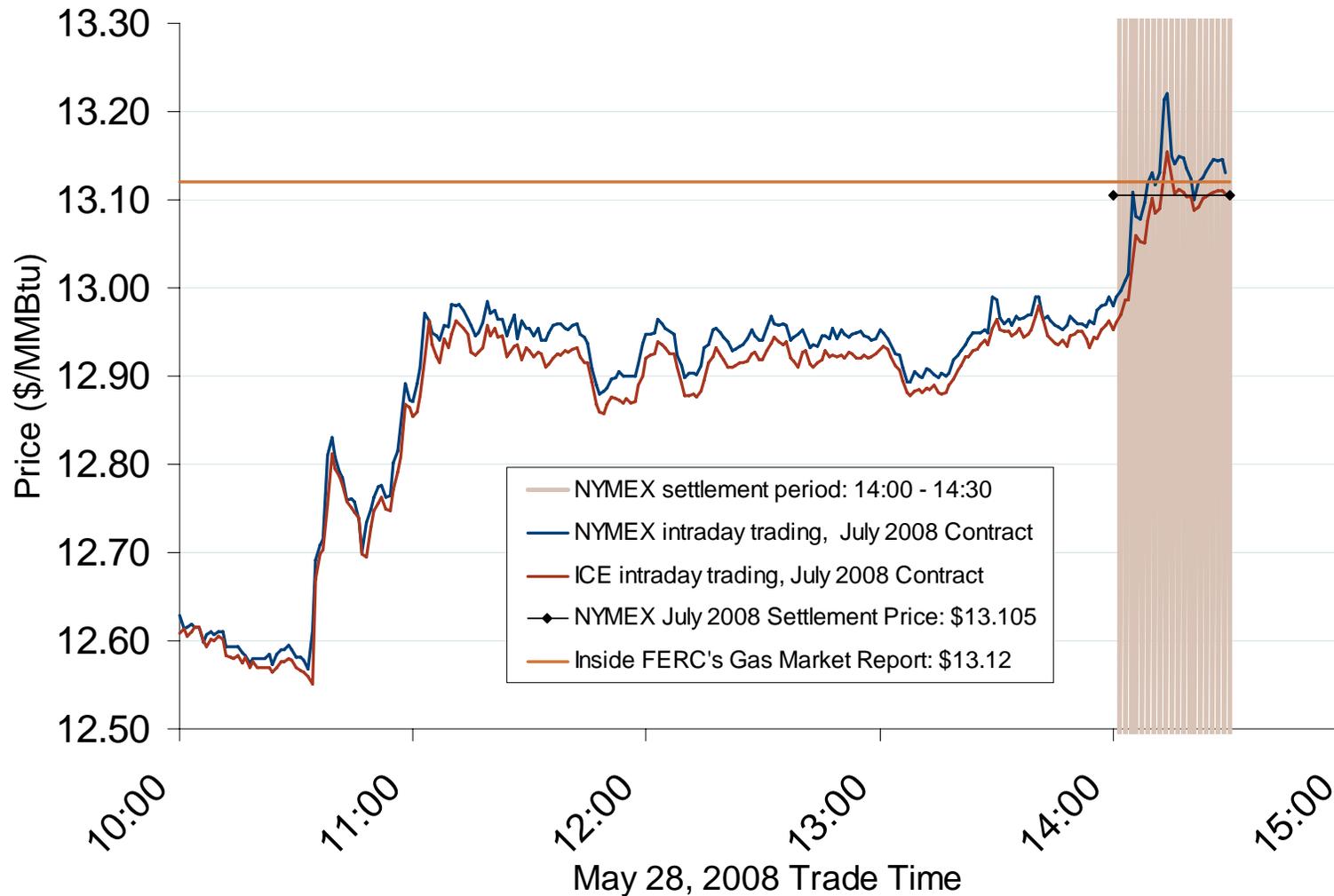


Source: Derived from ICE and Bloomberg data.

Note: 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.

Updated July 14, 2008

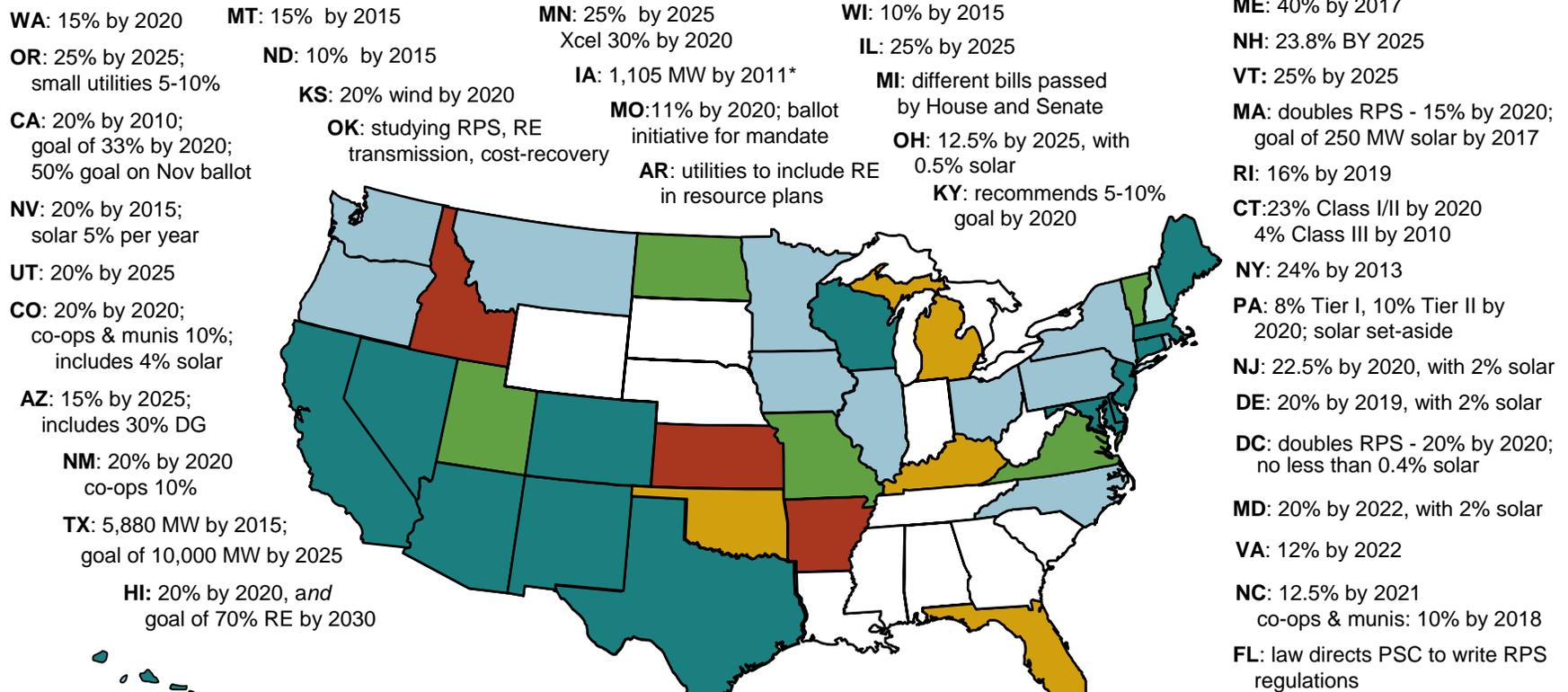
## July 2008 NYMEX and ICE Contract Final Settlement Day



Source: Derived from *Nymex and ICE* data.

Updated July 2, 2008

# Renewable Energy Portfolio Standards (RPS)



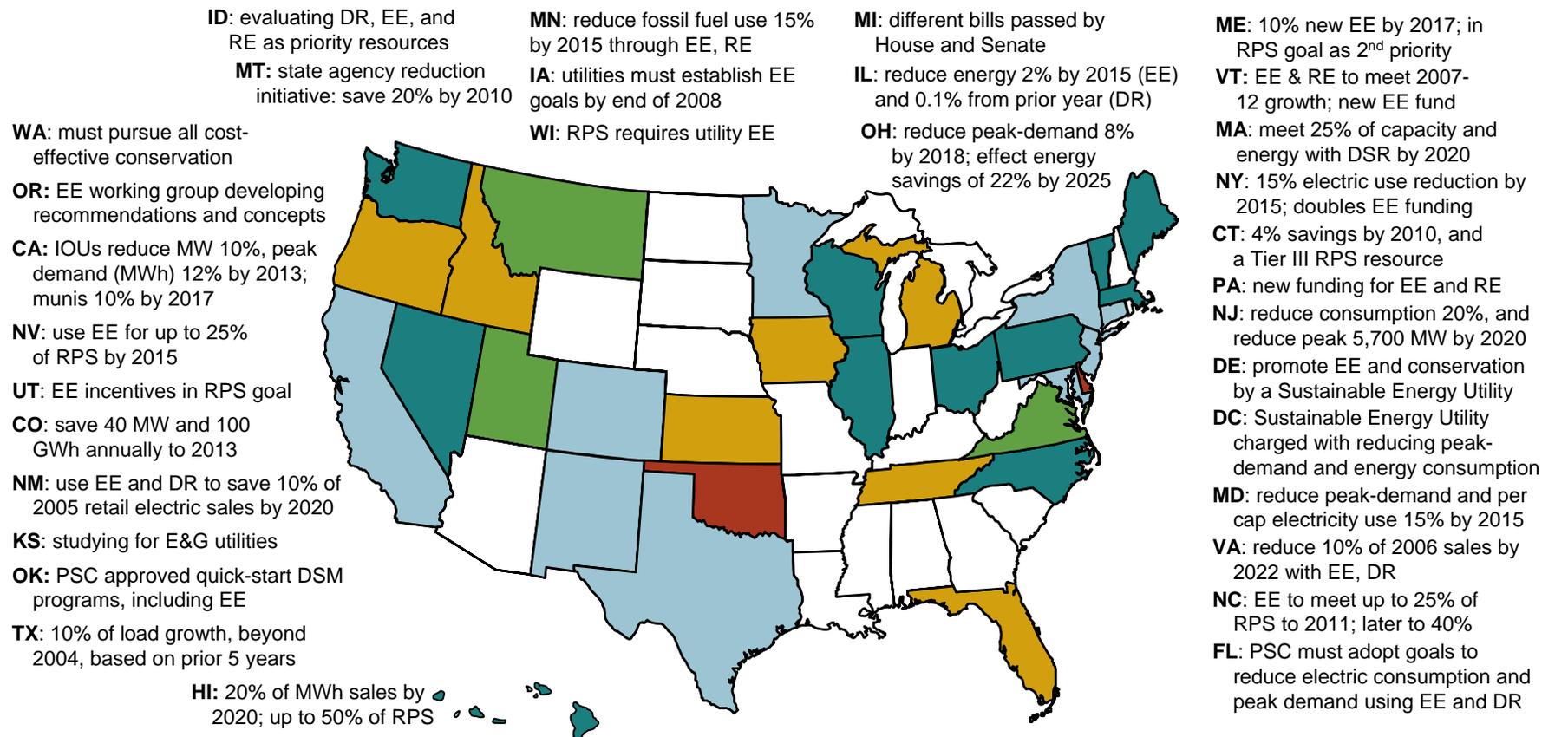
- RPS
- Strengthened/ amended RPS
- Voluntary standards or goals
- Proposed RPS or studying RPS
- Other renewable energy goal

Updates at: <http://www.ferc.gov/market-oversight/mkt-electric/overview/elec-ovr-rps.pdf>

**Notes:** Alaska has no RPS; DG is distributed generation; \* Iowa has a goal of 1,000 MW of wind by 2010  
**Sources:** Derived from data in: EEI, EIA, LBNL, PUCs, State legislative tracking services, Database of State Incentives for Renewables and Efficiency, and the Union of Concerned Scientists.

Updated July 17, 2008

# Energy Efficiency Resource Standards (EERS)



Updates at: <http://www.ferc.gov/market-oversight/mkt-electric/overview/elec-ovr-eeeps.pdf>

Abbreviations: CHP – Combined heat & power; DR - demand response; DSM - demand side management; DSR – demand-side resources; EE - energy efficiency; E&G: electric and gas utilities; RPS: Renewable Portfolio Standard

Sources: ACEEE, EPA, Regulatory Assistance Project, Union of Concerned Scientists, State regulatory and legislative sites, trade press

- EERS by regulation or law (separate from RPS)
- Energy efficiency part of an RPS law, rule, or goal
- Voluntary standards (in or out of RPS)
- Energy efficiency goal proposed / being studied
- Other energy efficiency or demand-side rule or goal