OE ENERGY MARKET SNAPSHOT

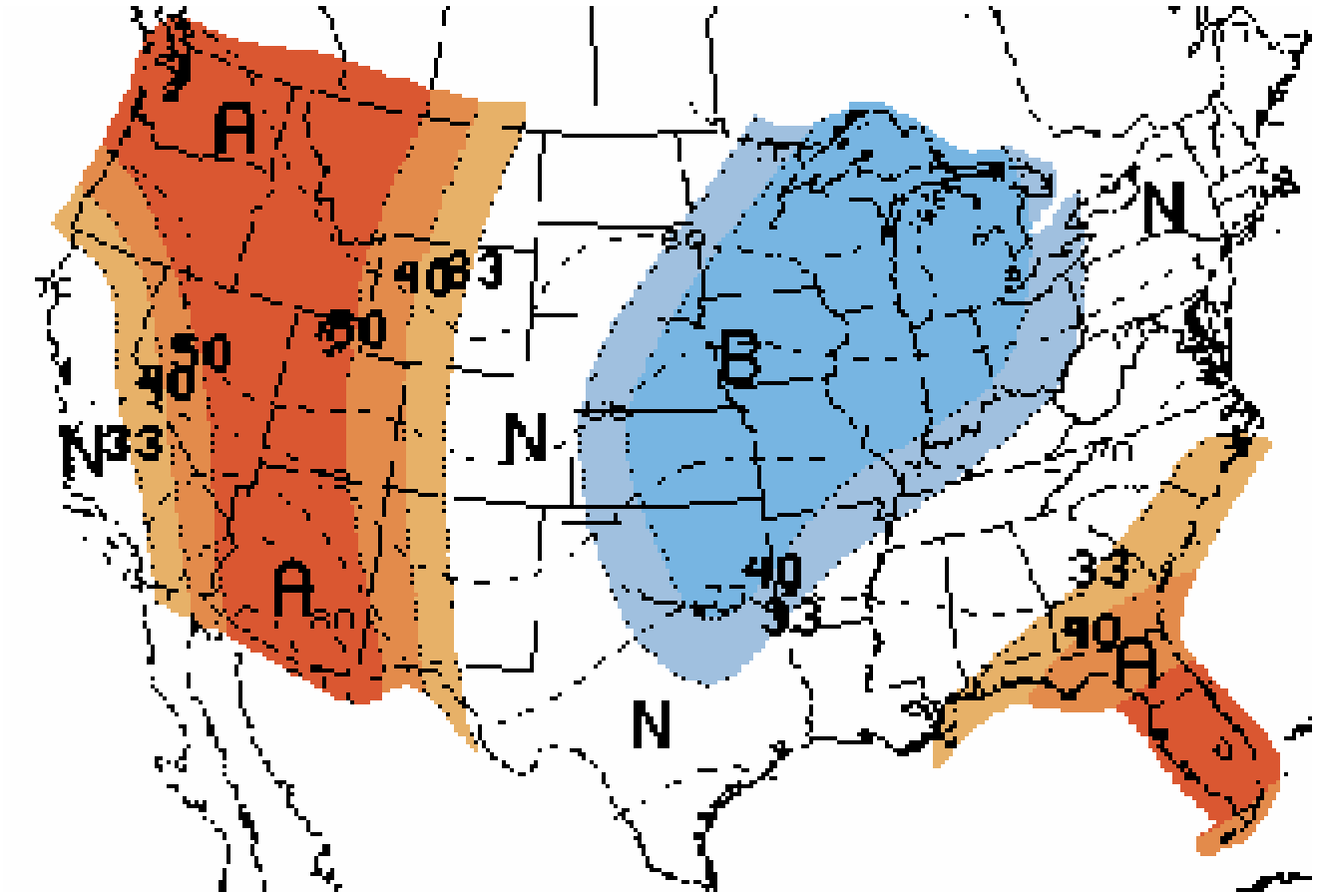
Mid-Atlantic States Version – August 2007 Data

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

Office of Enforcement
Federal Energy Regulatory Commission
September 2007

Market Fundamentals

NOAA's 8 to 14 Day Temperature Forecast
Made September 6, Valid for September 14-20, 2007

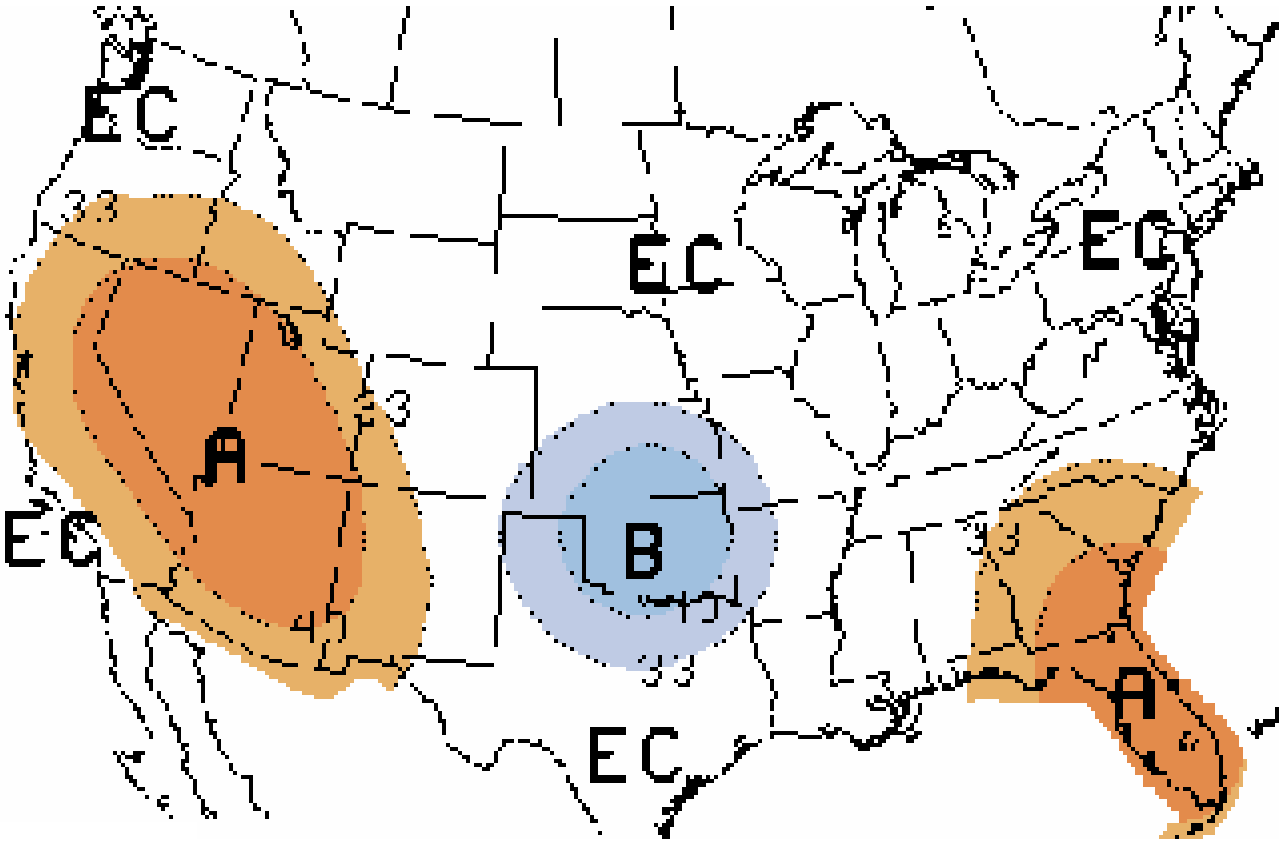


Note: "A" areas are above normal and "B" areas are below normal.

Source: NOAA

Updated September 7, 2007

NOAA's Monthly Temperature Forecast Made August 31, Valid for September 2007



Note: "A" areas are above normal, "B" areas are below normal and "EC" means equal chance.

Source: NOAA

Updated September 7, 2007

3012

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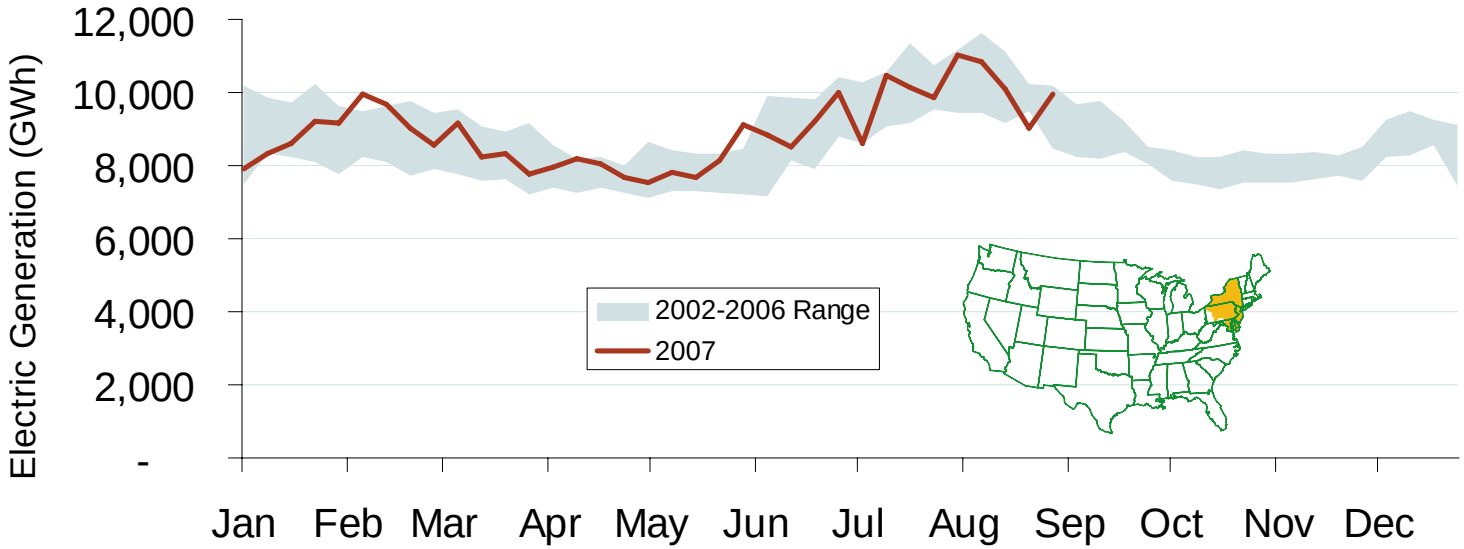
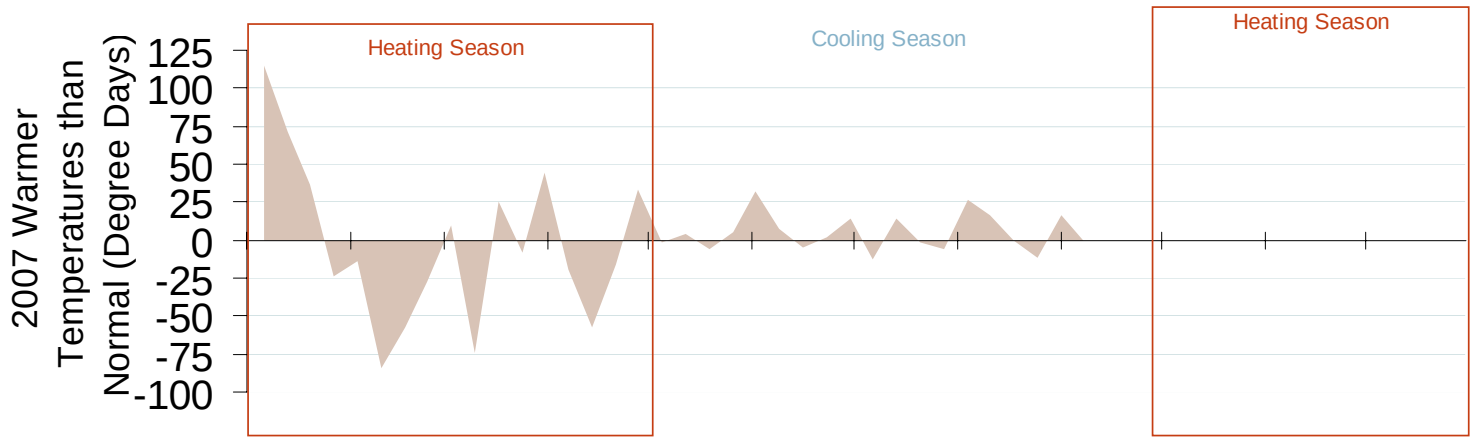
Weekly Electric Generation Output and Temperatures Mid Atlantic Region





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

Updated September 7, 2007

1113

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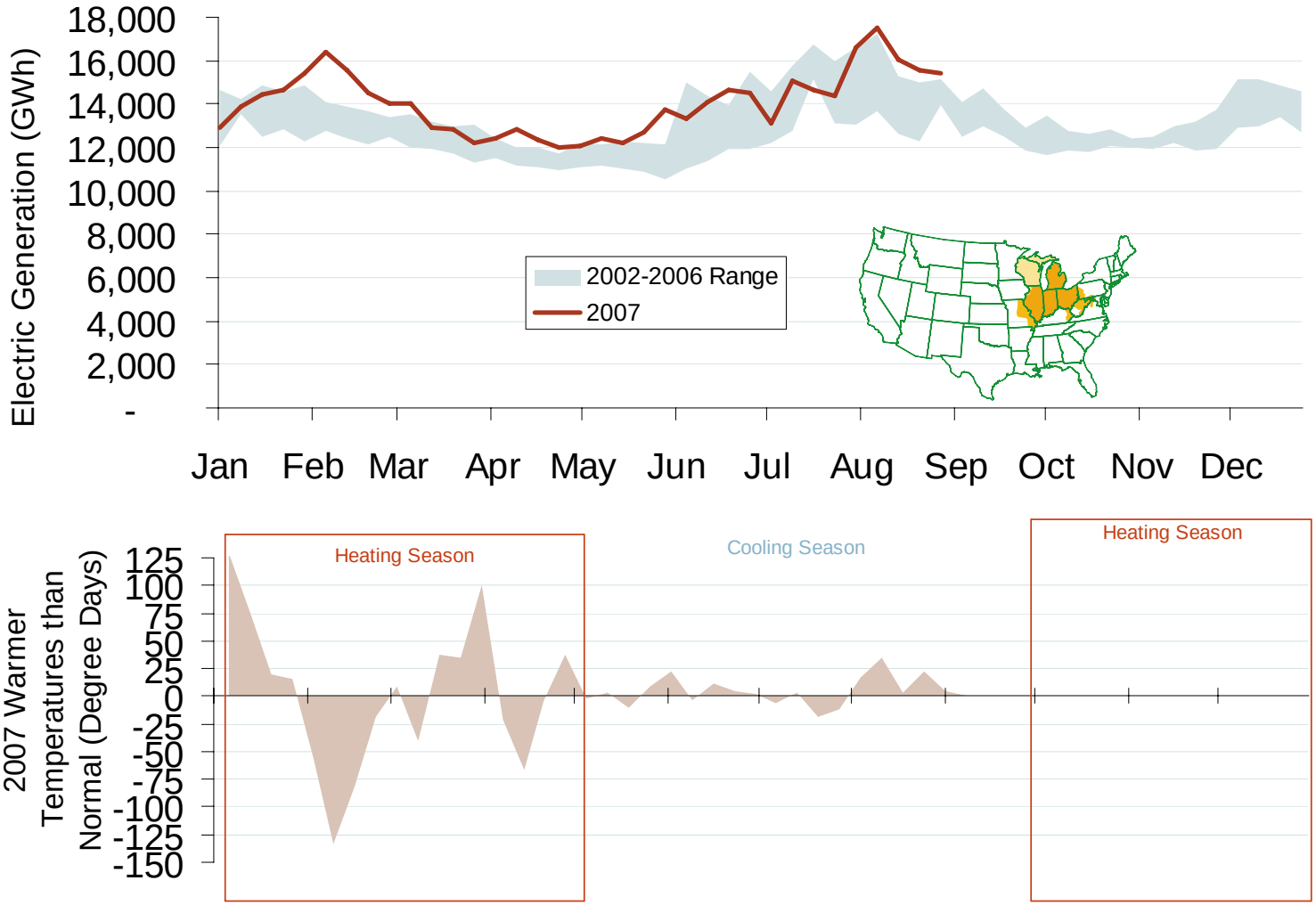
Weekly Electric Generation Output and Temperatures
Central Industrial Region



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

Updated September 7, 2007

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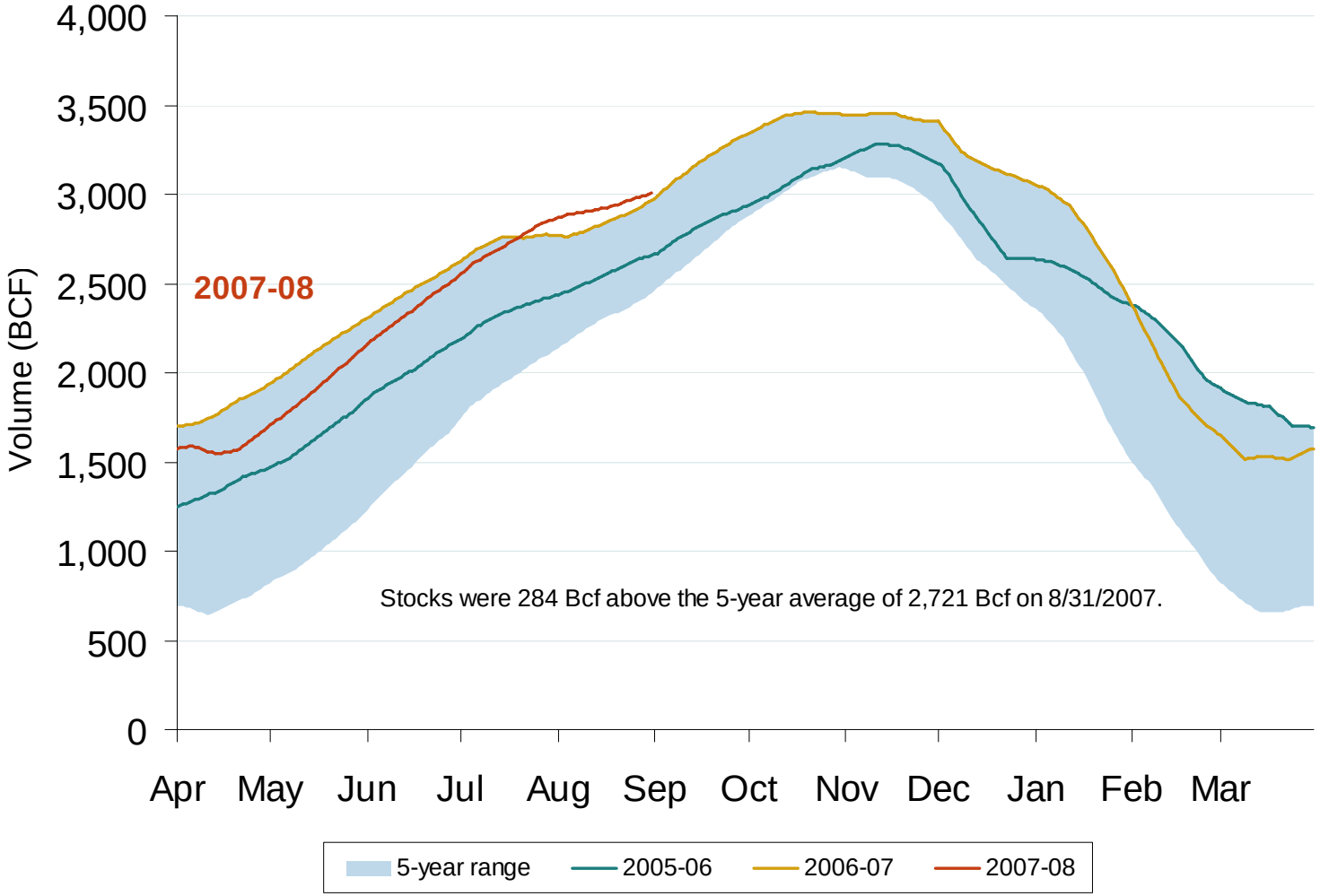
Total U.S. Working Gas in Storage

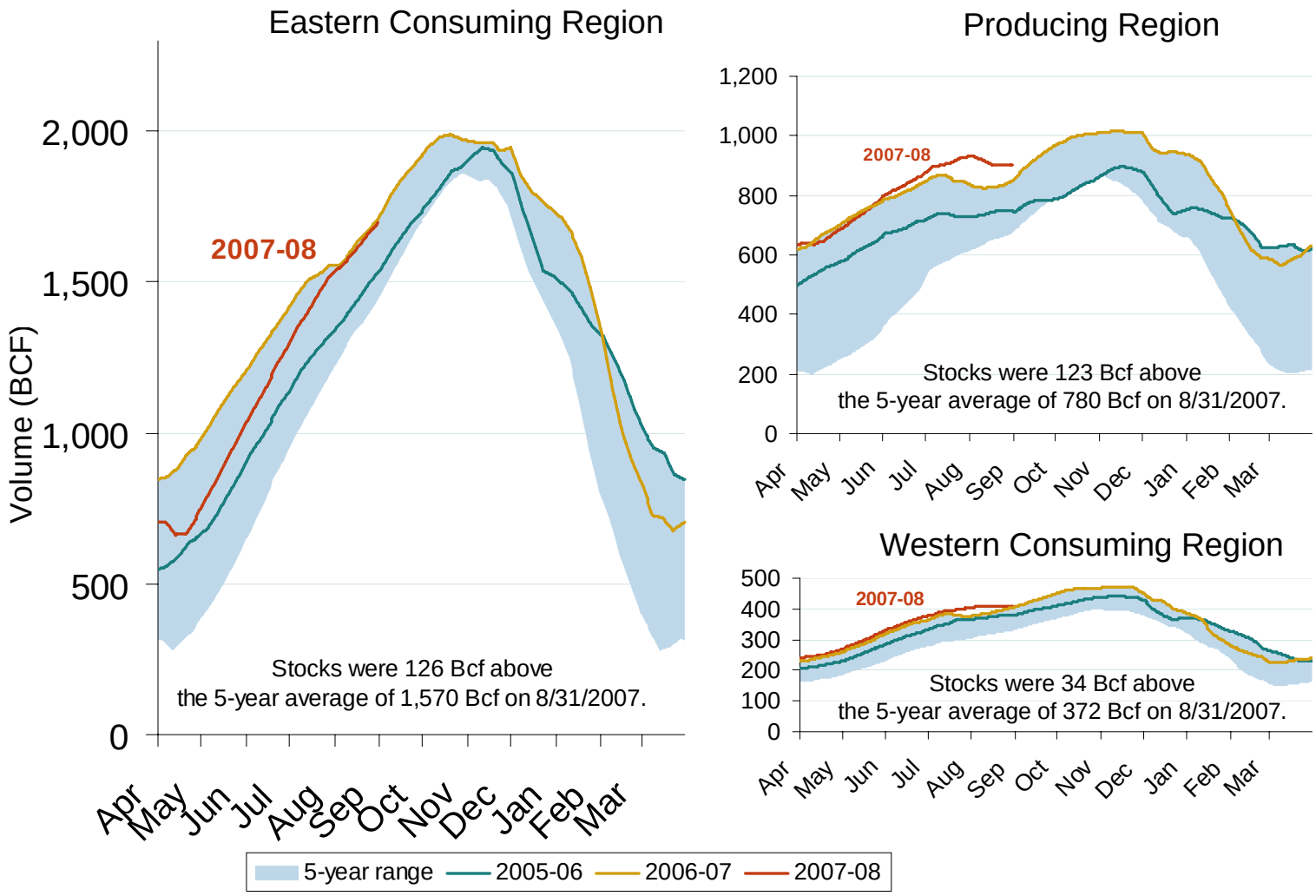


Source: Derived from *EIA* data.

Updated September 7, 2007

2003

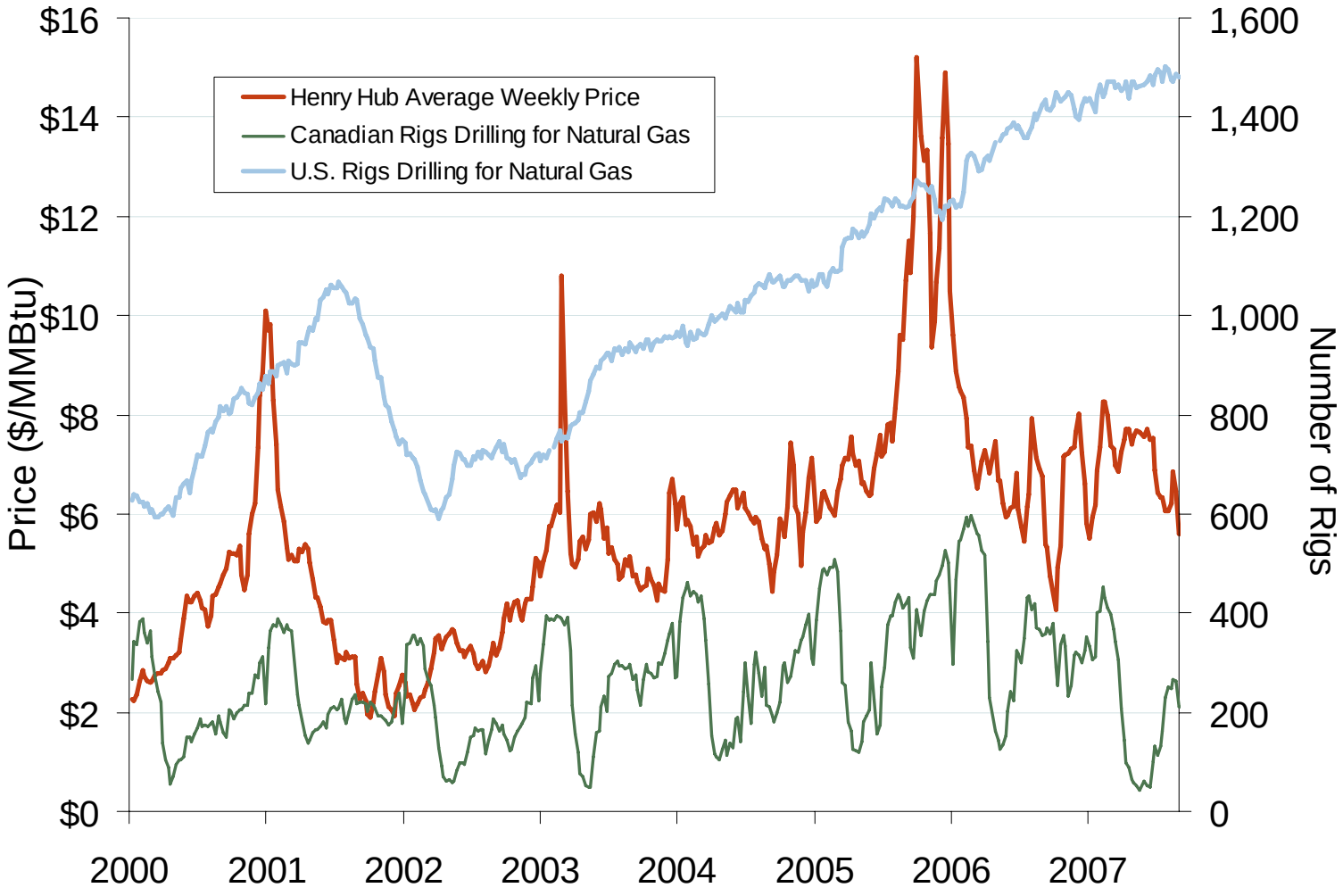
Regional Totals of Working Gas in Storage



Source: Derived from *EIA* data.

Updated September 7, 2007

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

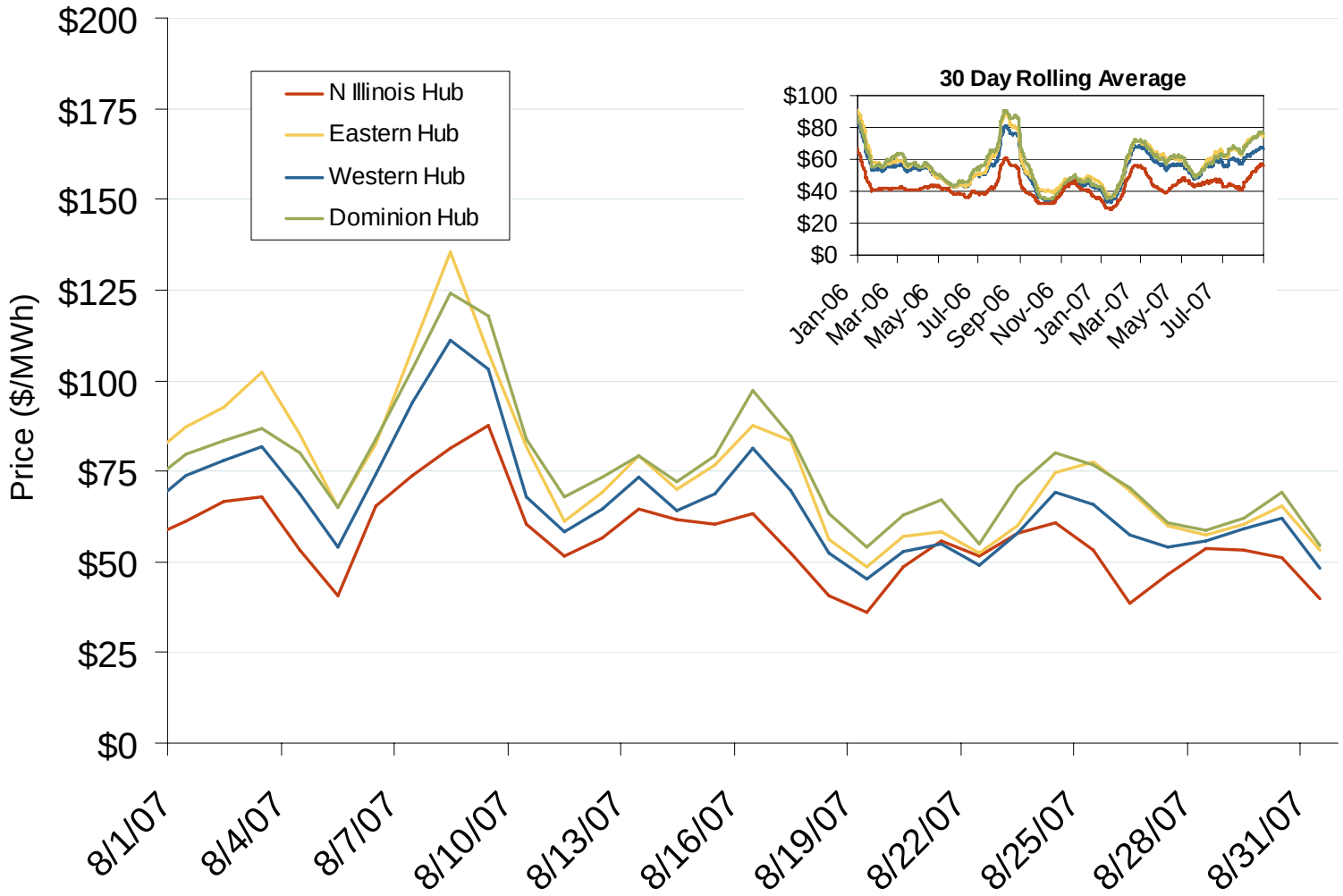


Source: Derived from *Platts* and *Baker Hughes* data.

Updated September 7, 2007

Prices and Market Analysis

Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from *PJM* data.

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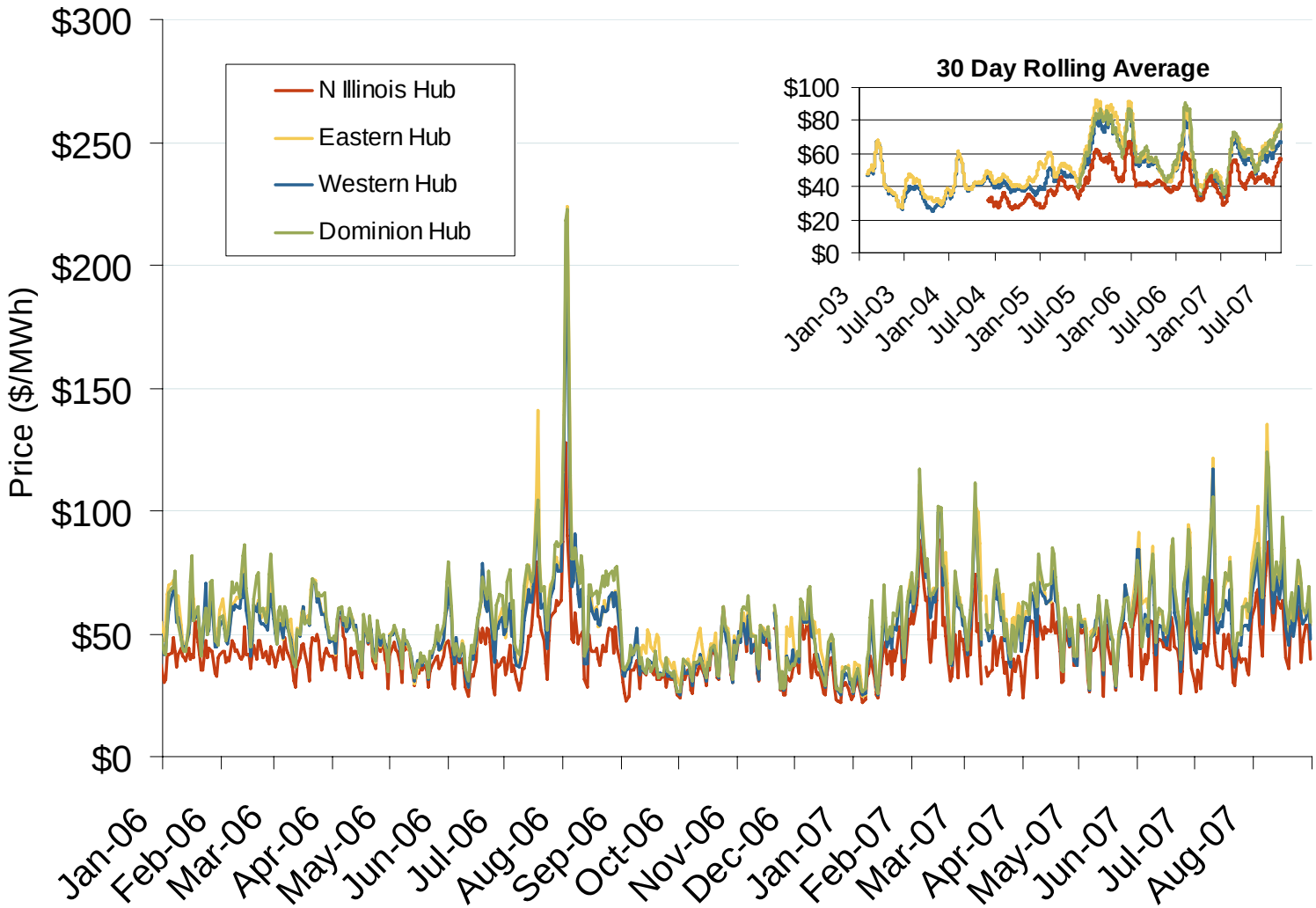
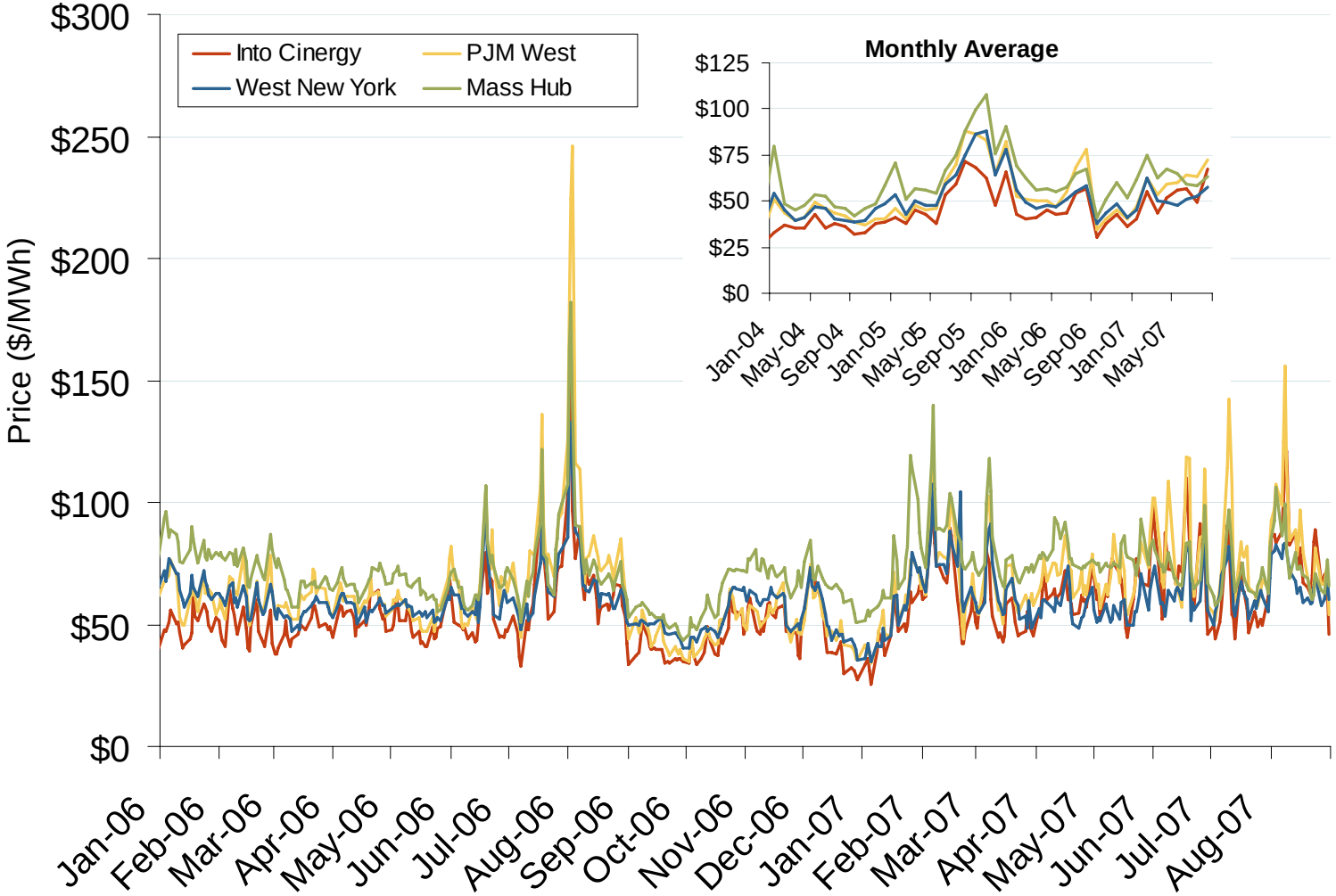
Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from *PJM* data.

Updated September 7, 2007

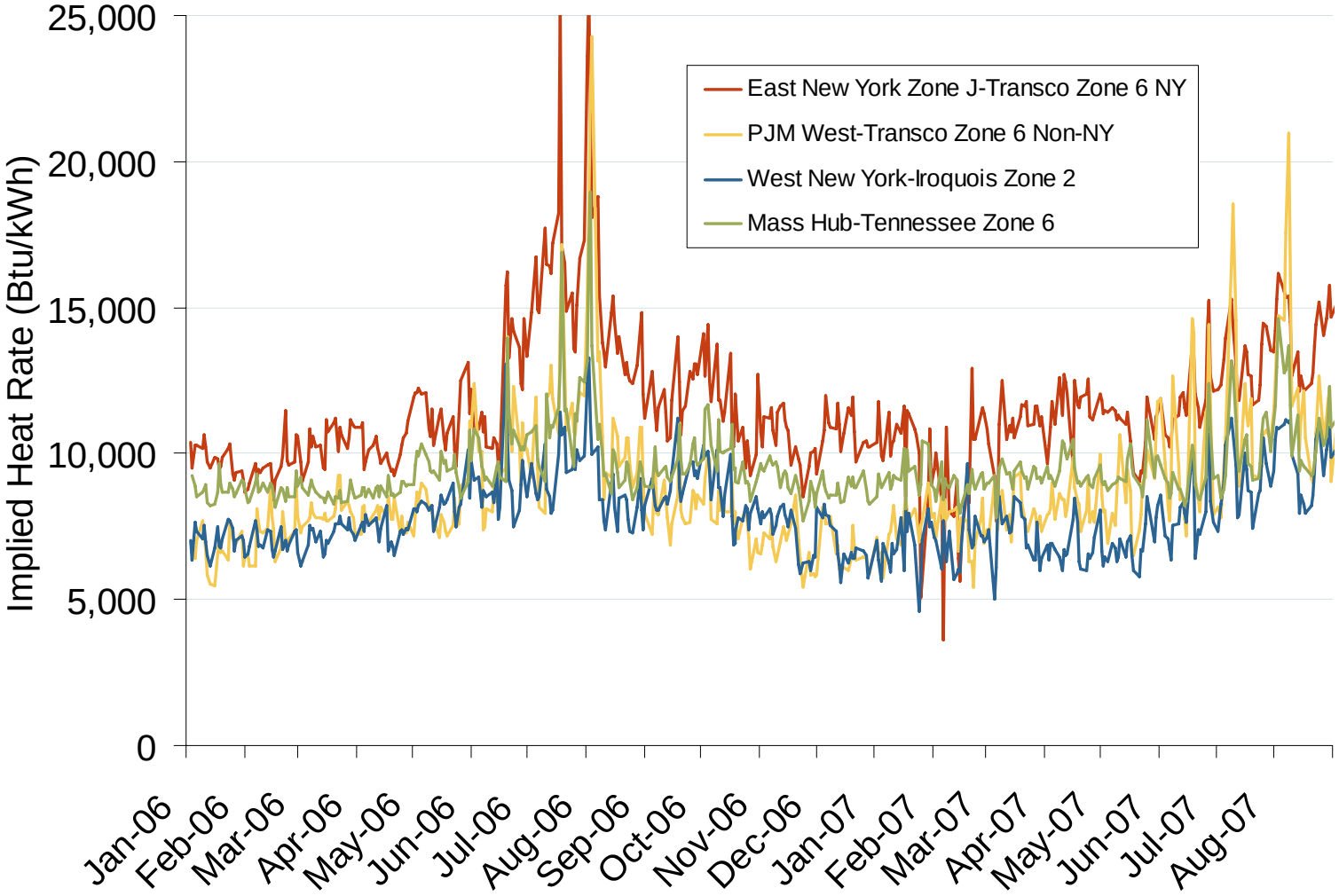
Eastern Daily Bilateral Day-Ahead On-Peak Prices



Source: Derived from *Platts* data.

Updated September 7, 2007

Implied Heat Rates at Eastern Trading Points



Source: Derived from *Platts* data

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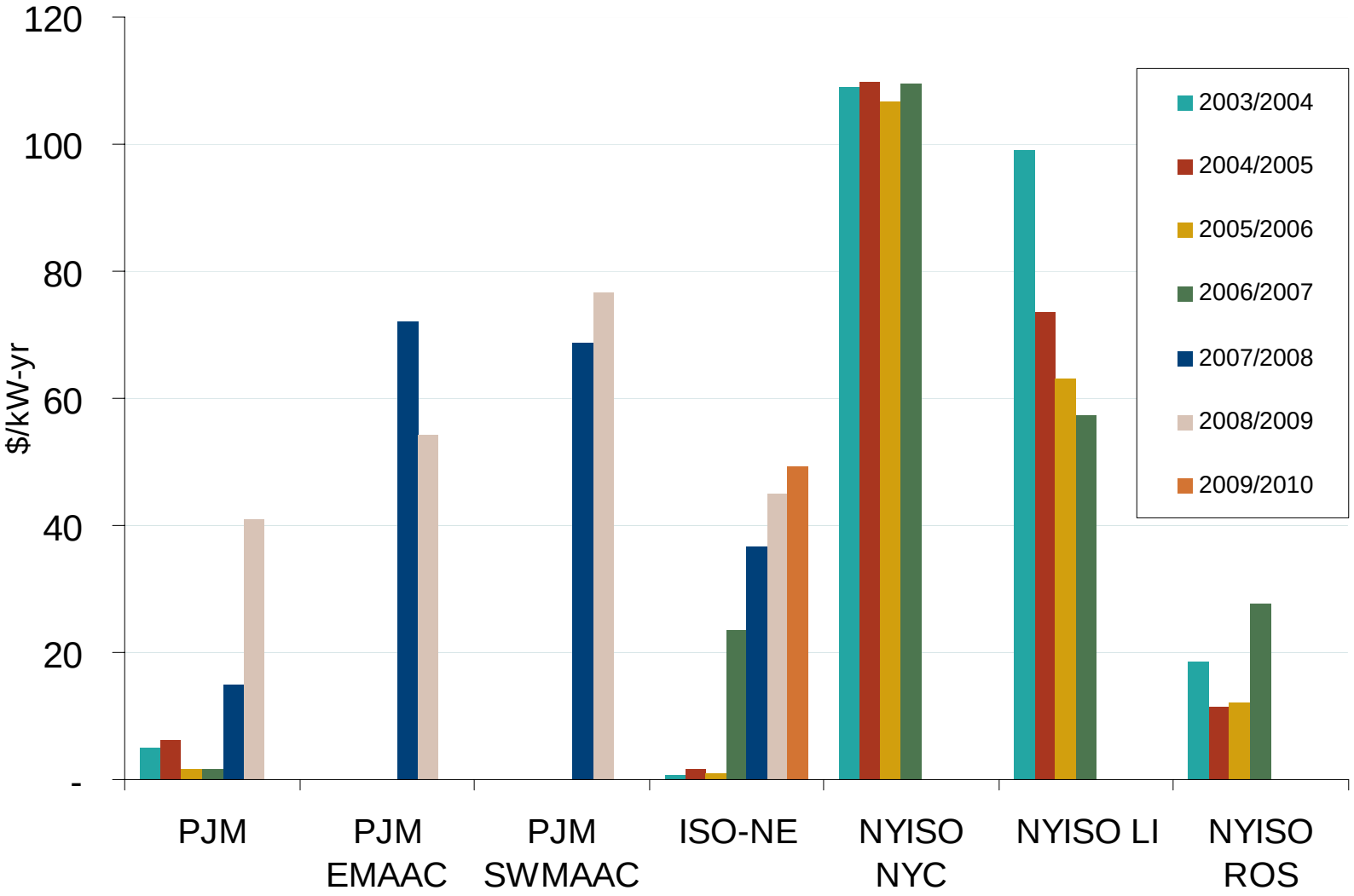
PJM, NYISO and ISO-NE Capacity Auction Prices

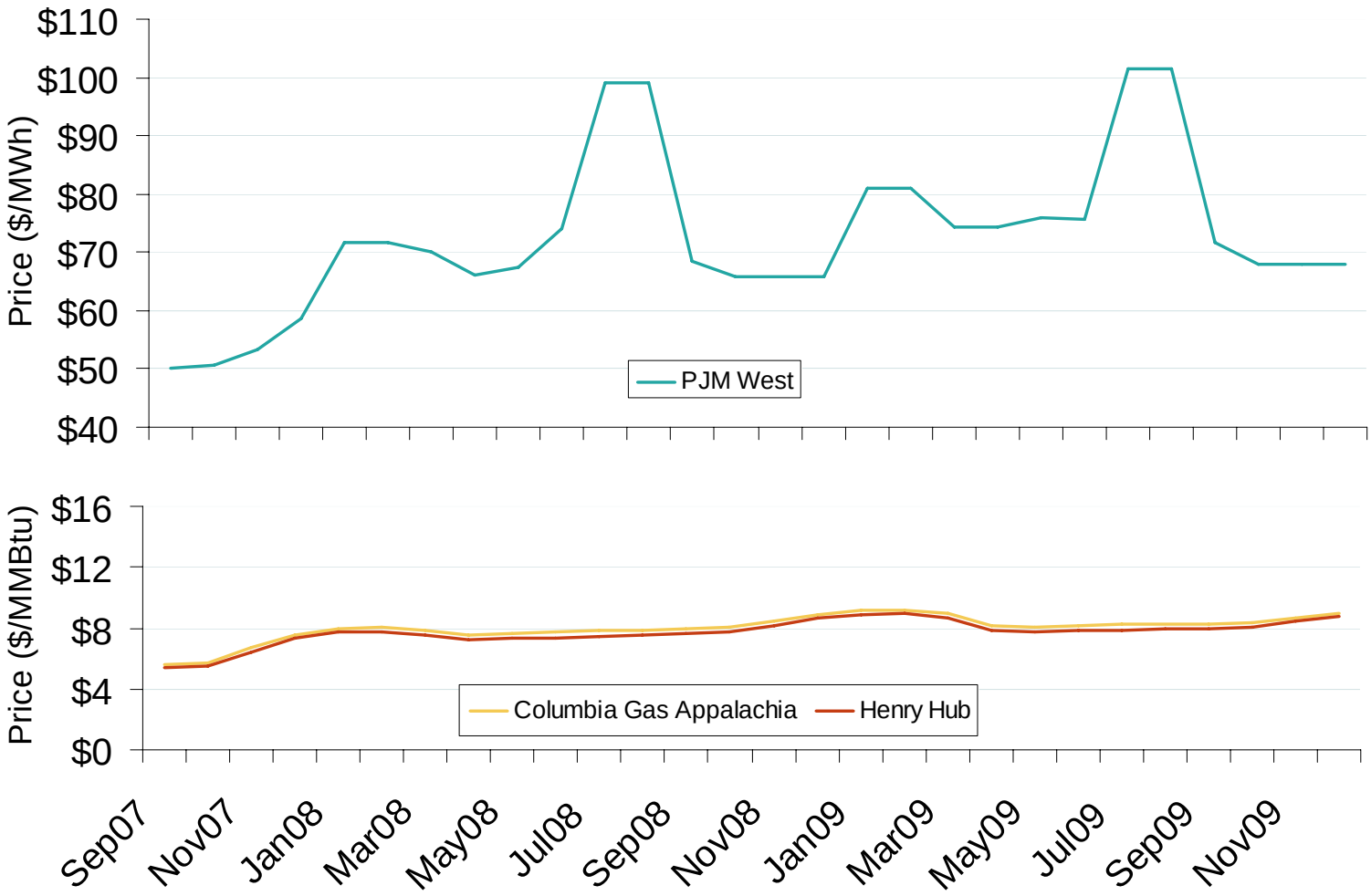


Source: Derived from *PJM, NYISO and ISO-NE* data

Created August 3, 2007

1146

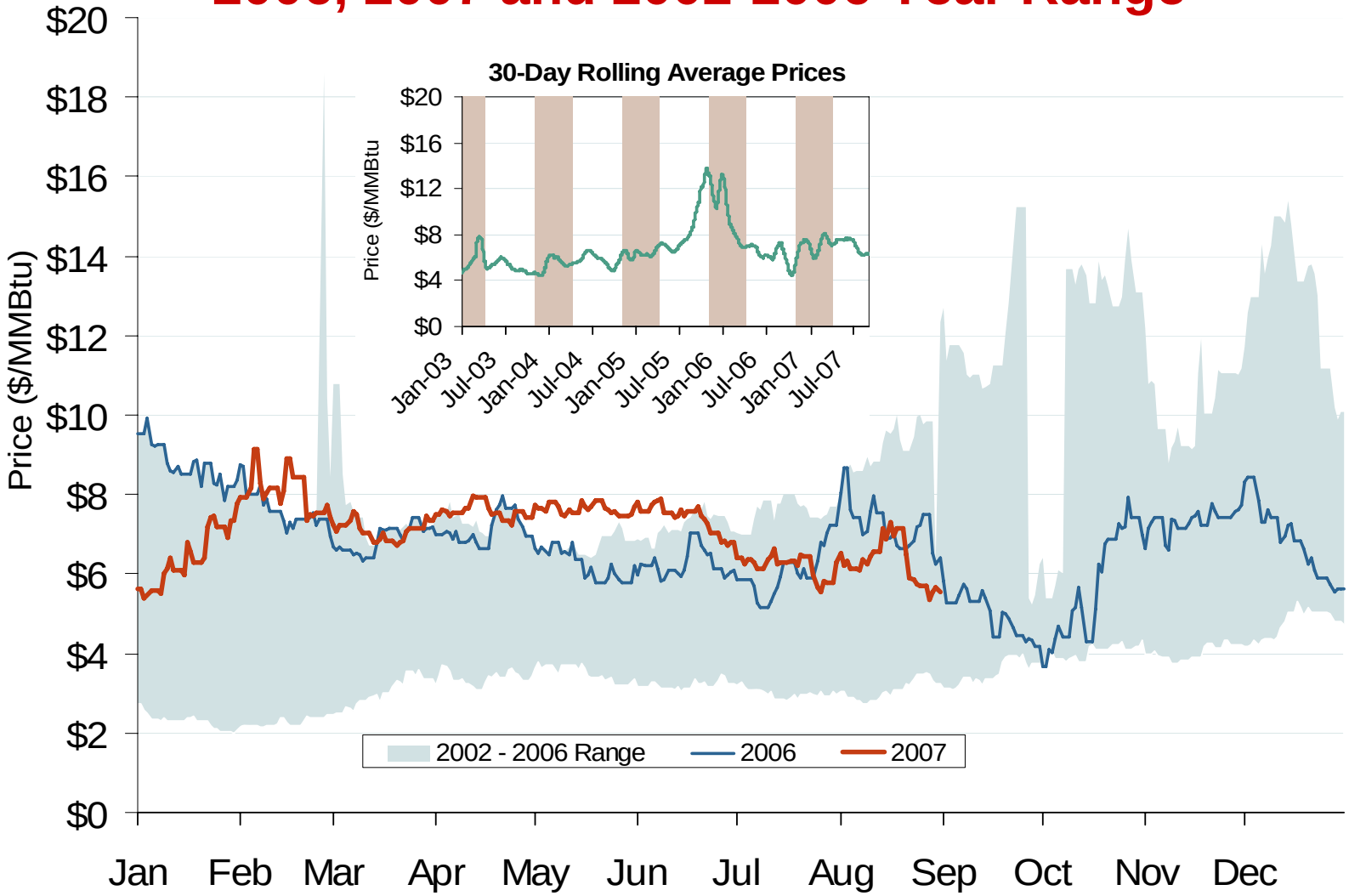
PJM West Electric Forward Price Curve and Selected Natural Gas Forward Curves



Source: Derived from *Nymex* data.

Updated September 7, 2007

Henry Hub Natural Gas Daily Spot Prices 2006, 2007 and 2002-2006 Year Range

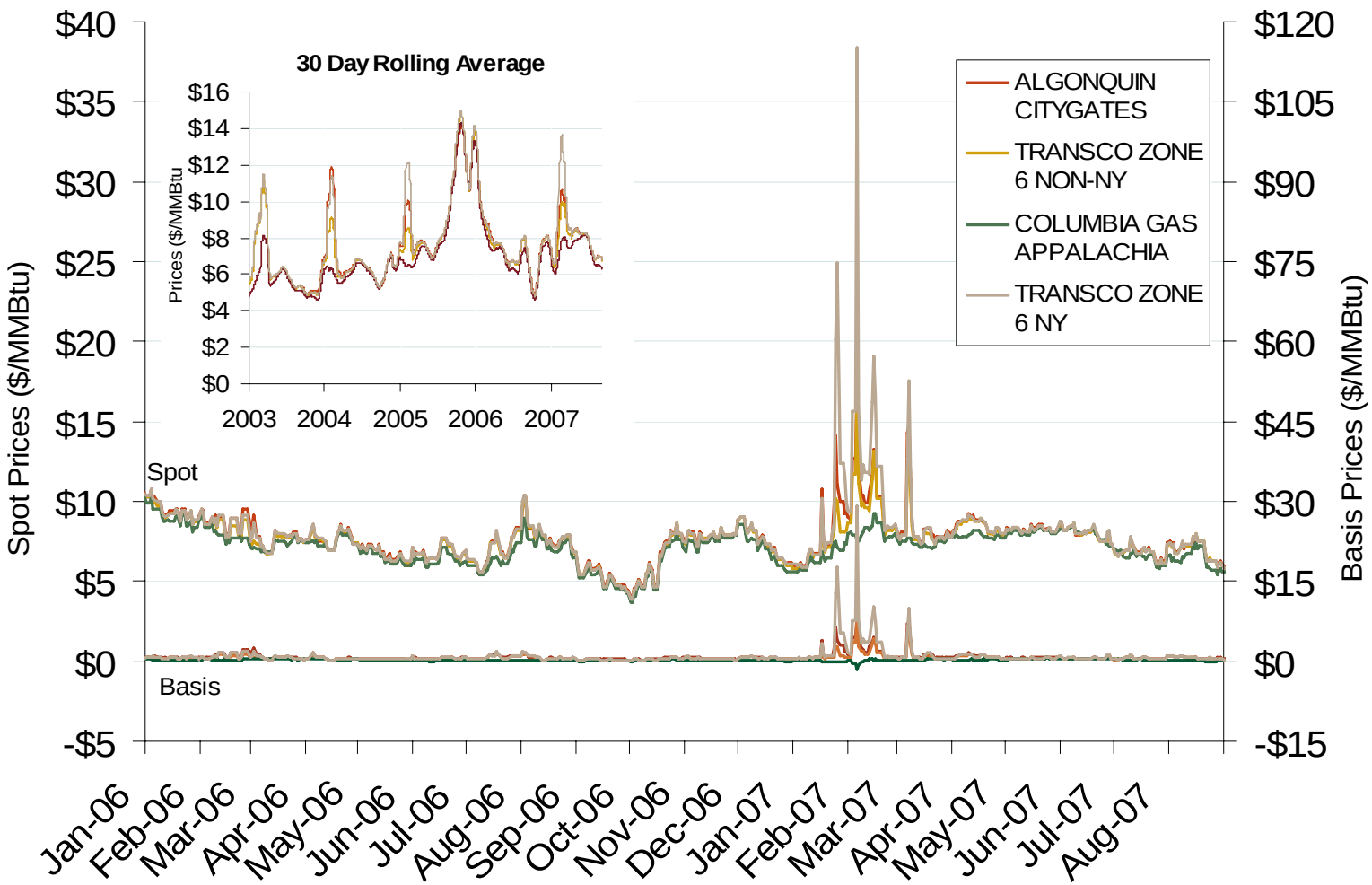


Source: Derived from *Platts* data.

Updated September 7, 2007

2085

Northeastern Spot Prices and Basis

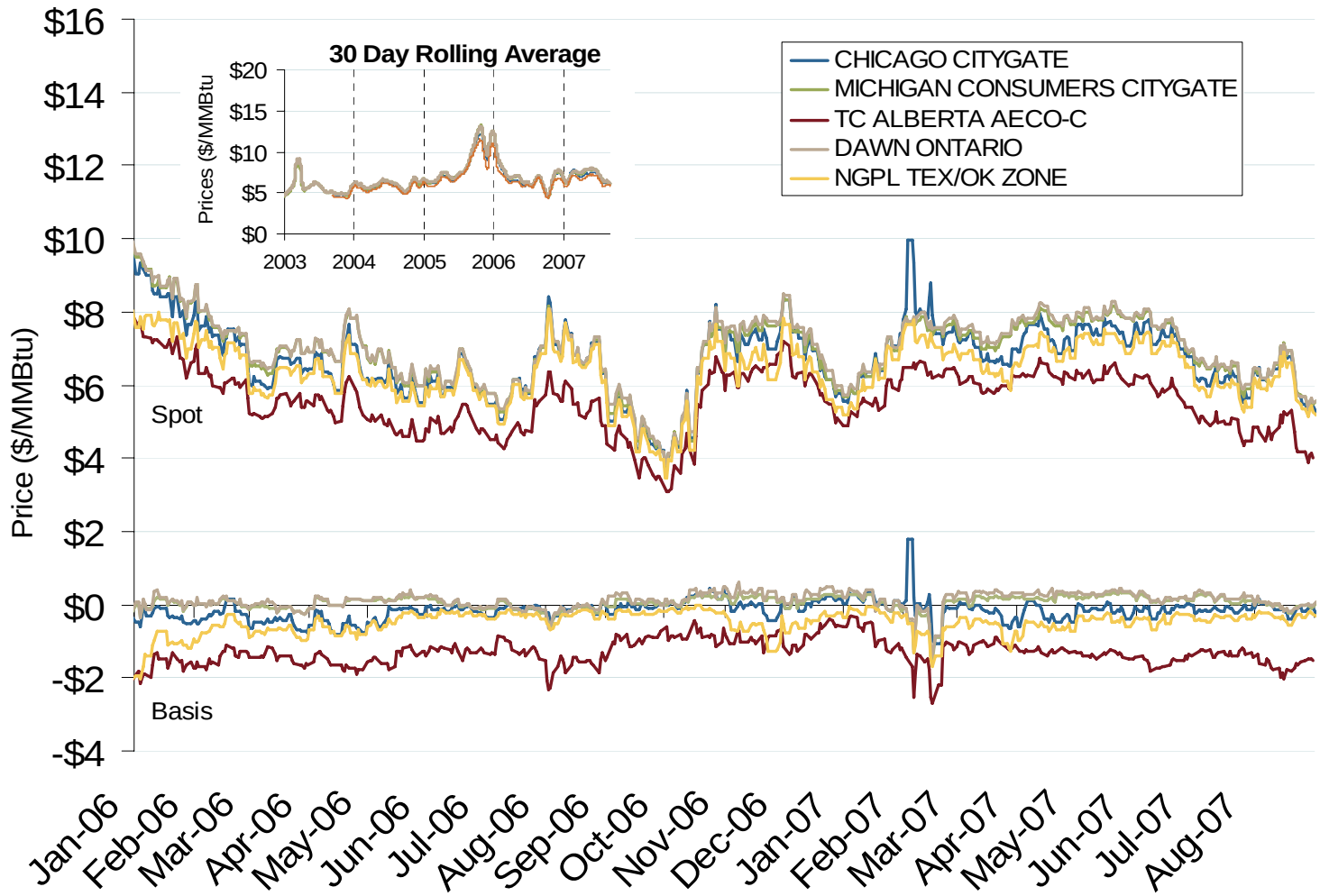


Updated September 7, 2007

Source: Derived from *Platts* data.

2030

Midwestern Day-Ahead Hub Spot Prices and Basis

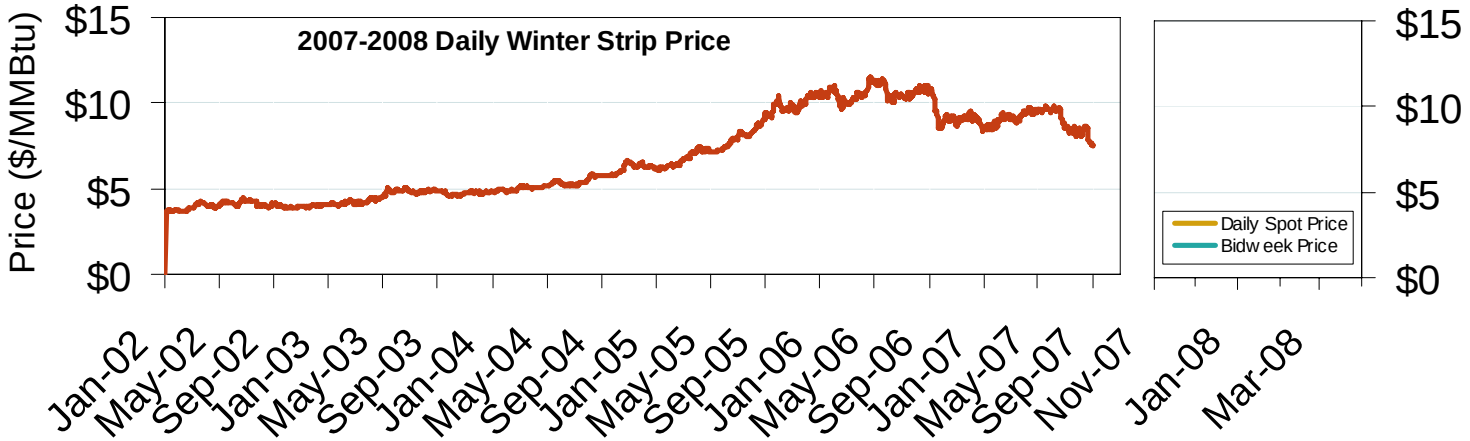


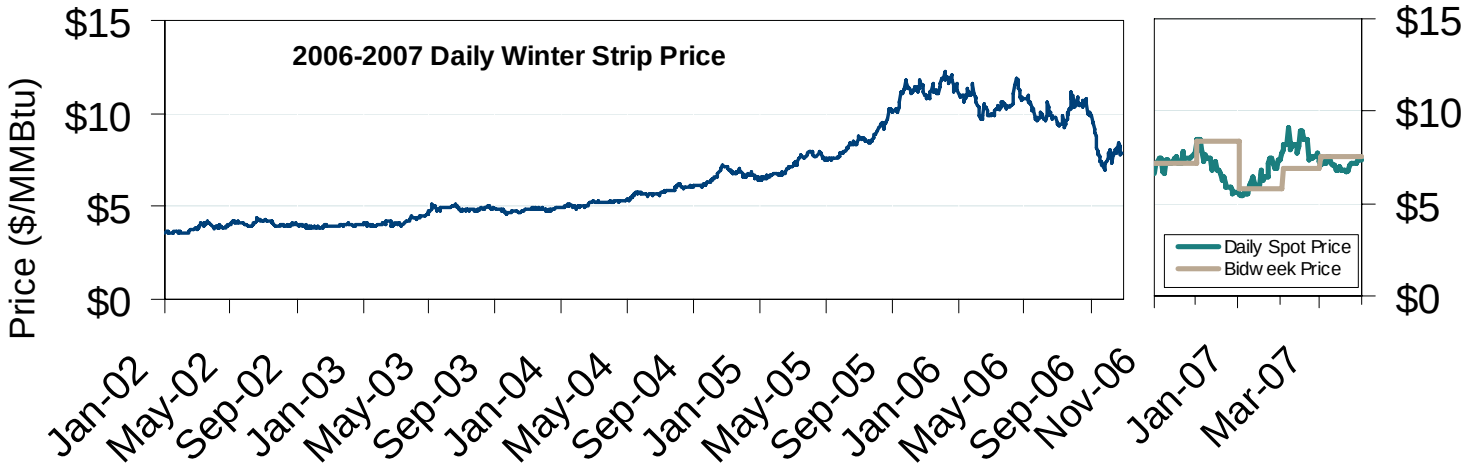
Source: Derived from *Platts* data.

Updated September 7, 2007

2016

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

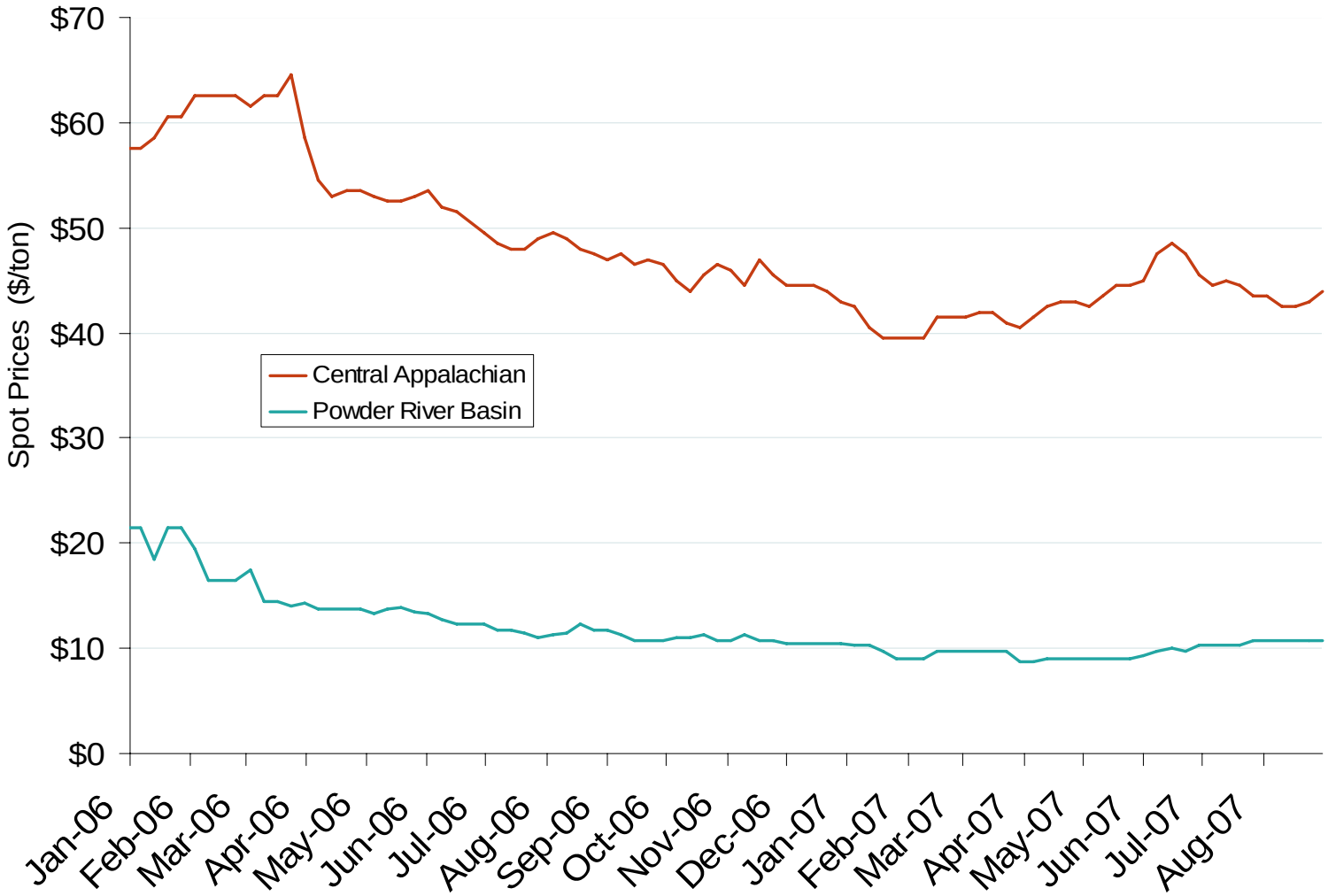




Source: Derived from *Platts* and *Nymex* data.

Updated September 7, 2007

Central Appalachian and Powder River Basin Coal Prices

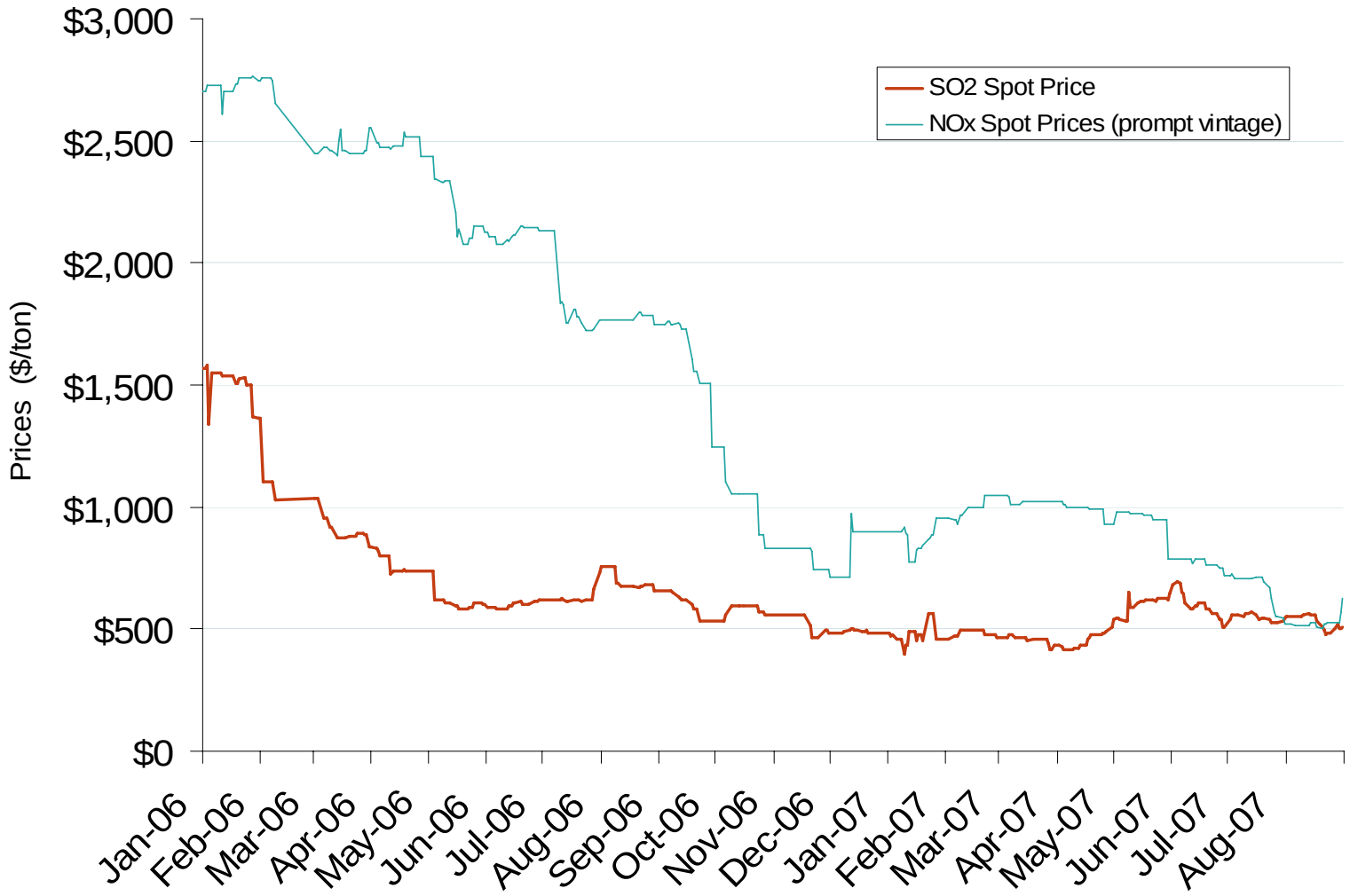


Source: Derived from *Bloomberg* data.

Updated September 7, 2007

3002

SO_2 and NO_x Allowance Spot Prices



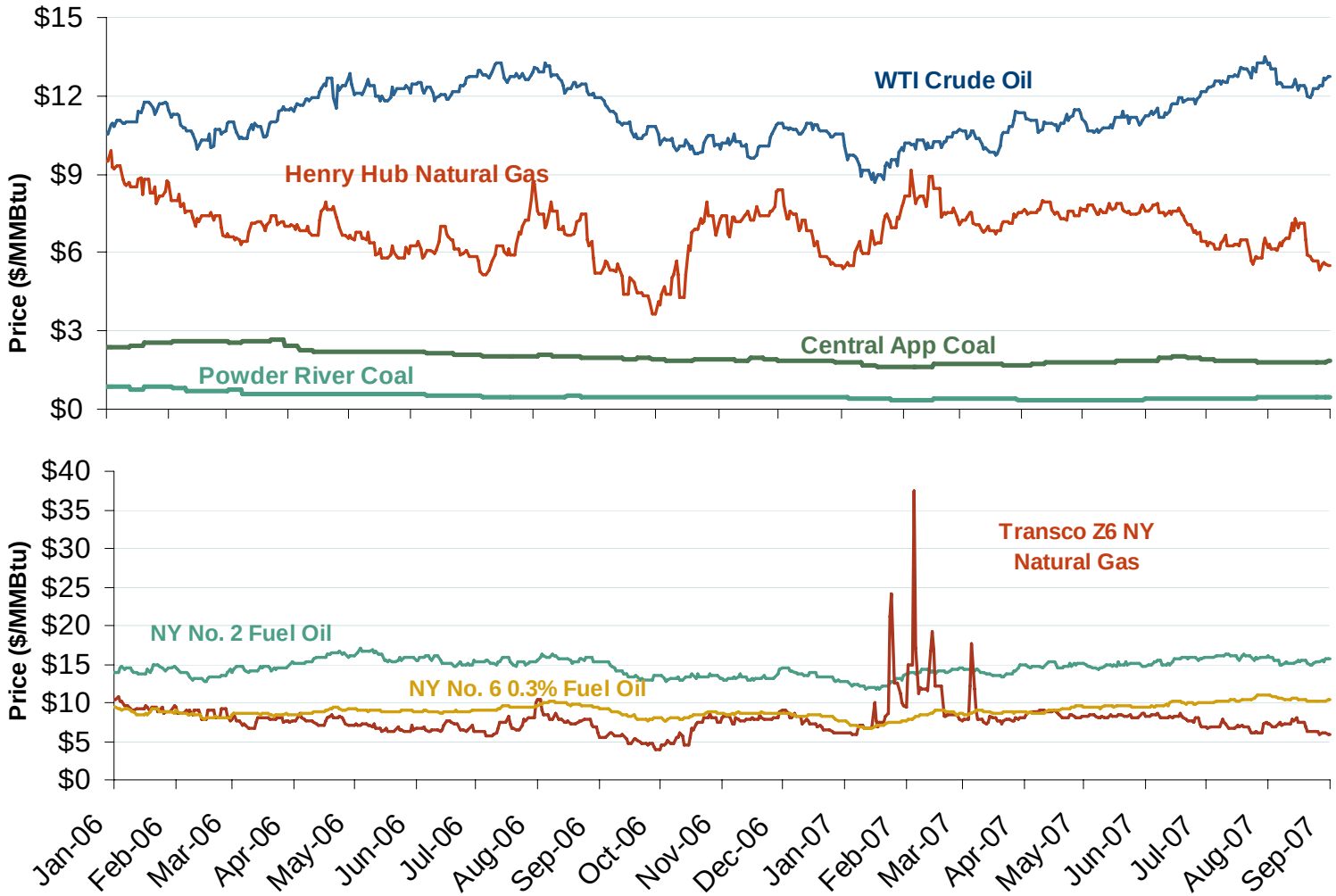
Source: Derived from *Cantor Fitzgerald* data.

See notes on following pages.

Updated September 7, 2007

3004

Oil, Coal and Natural Gas Daily Spot Prices



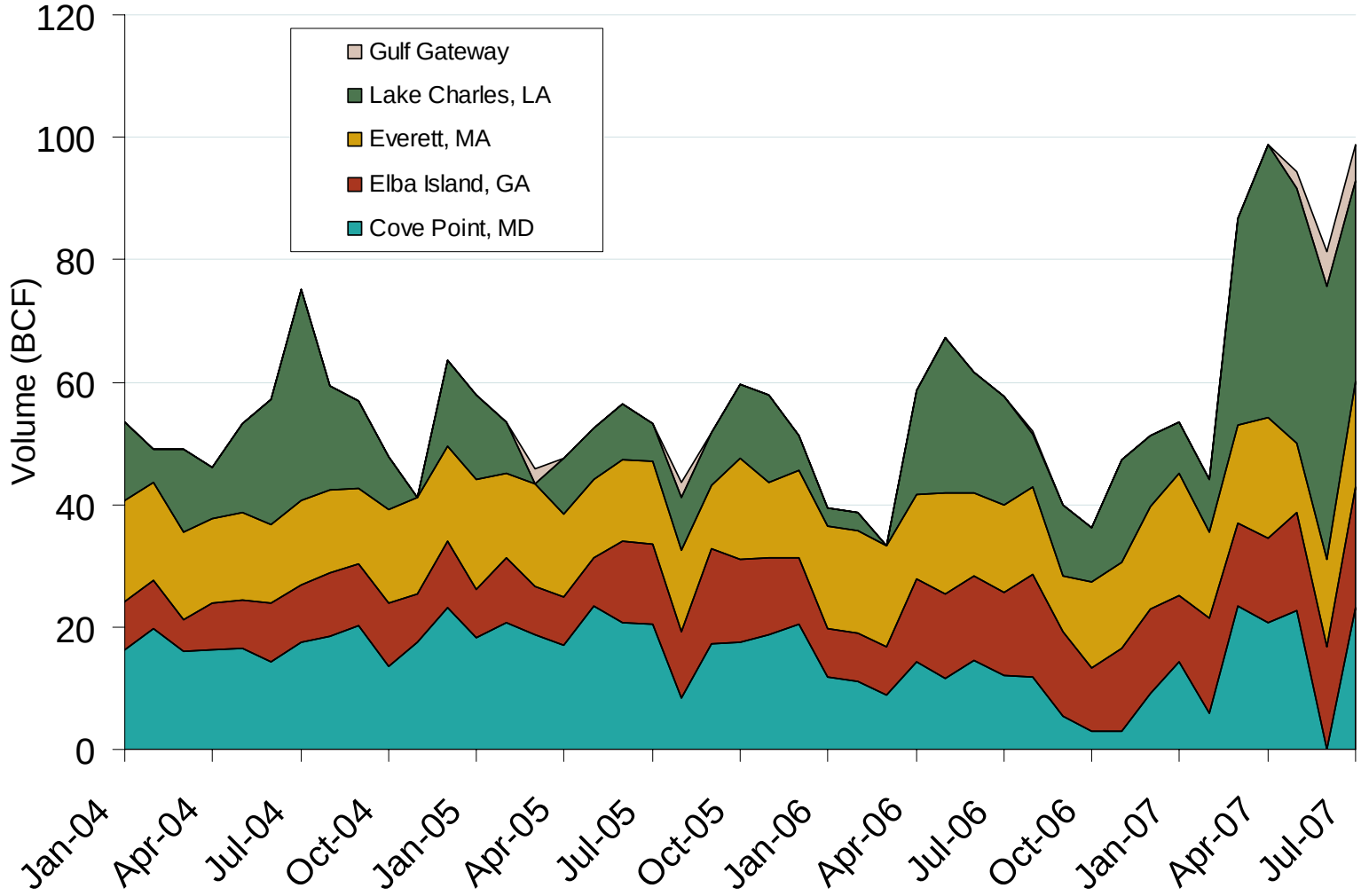
Source: Derived from *ICE* and *Bloomberg* data.

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 September 7, 2007

3001

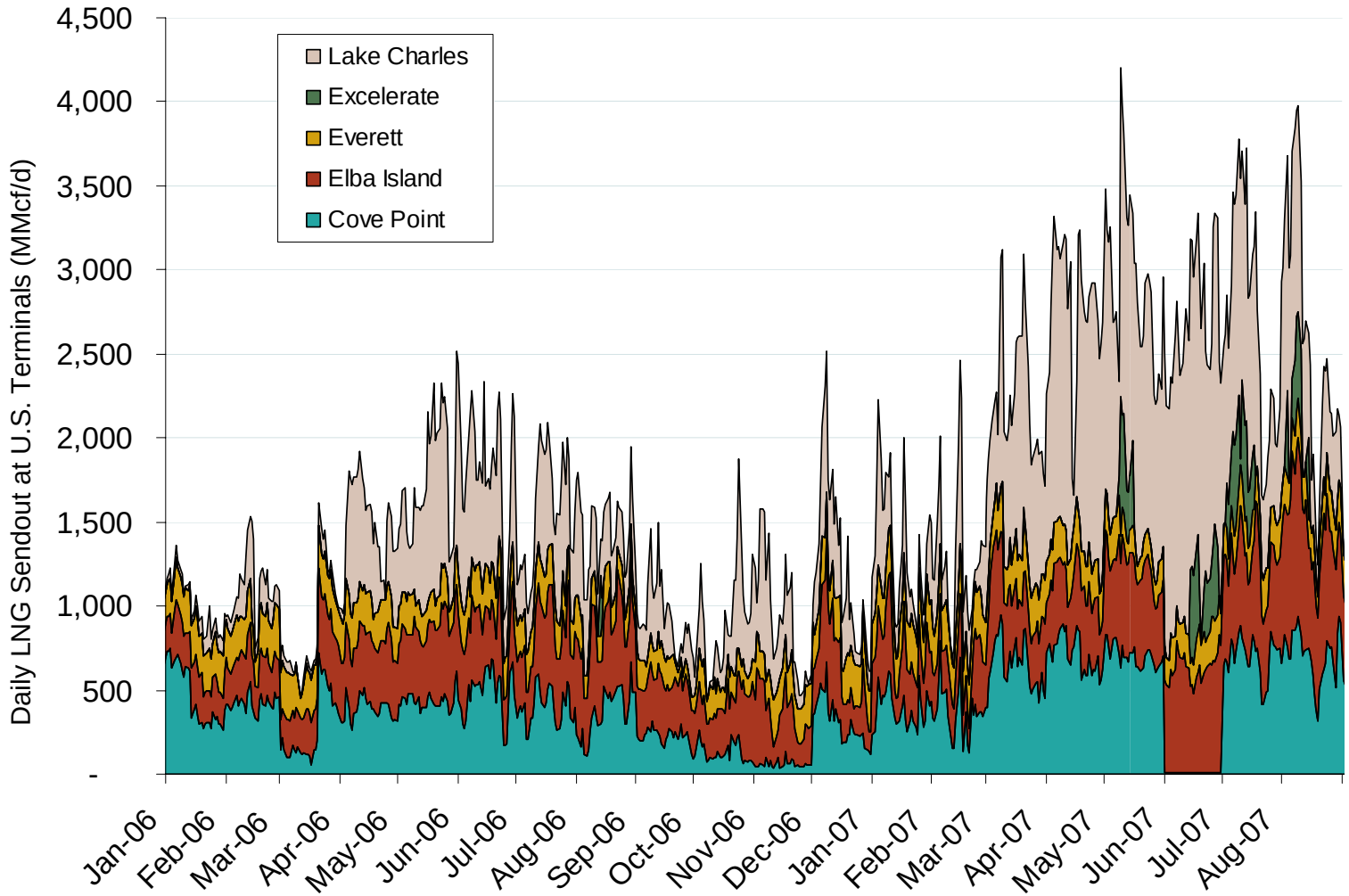
Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from *EIA* data.

Updated September 7, 2007

Daily Gas Sendout from Existing U.S. LNG Facilities

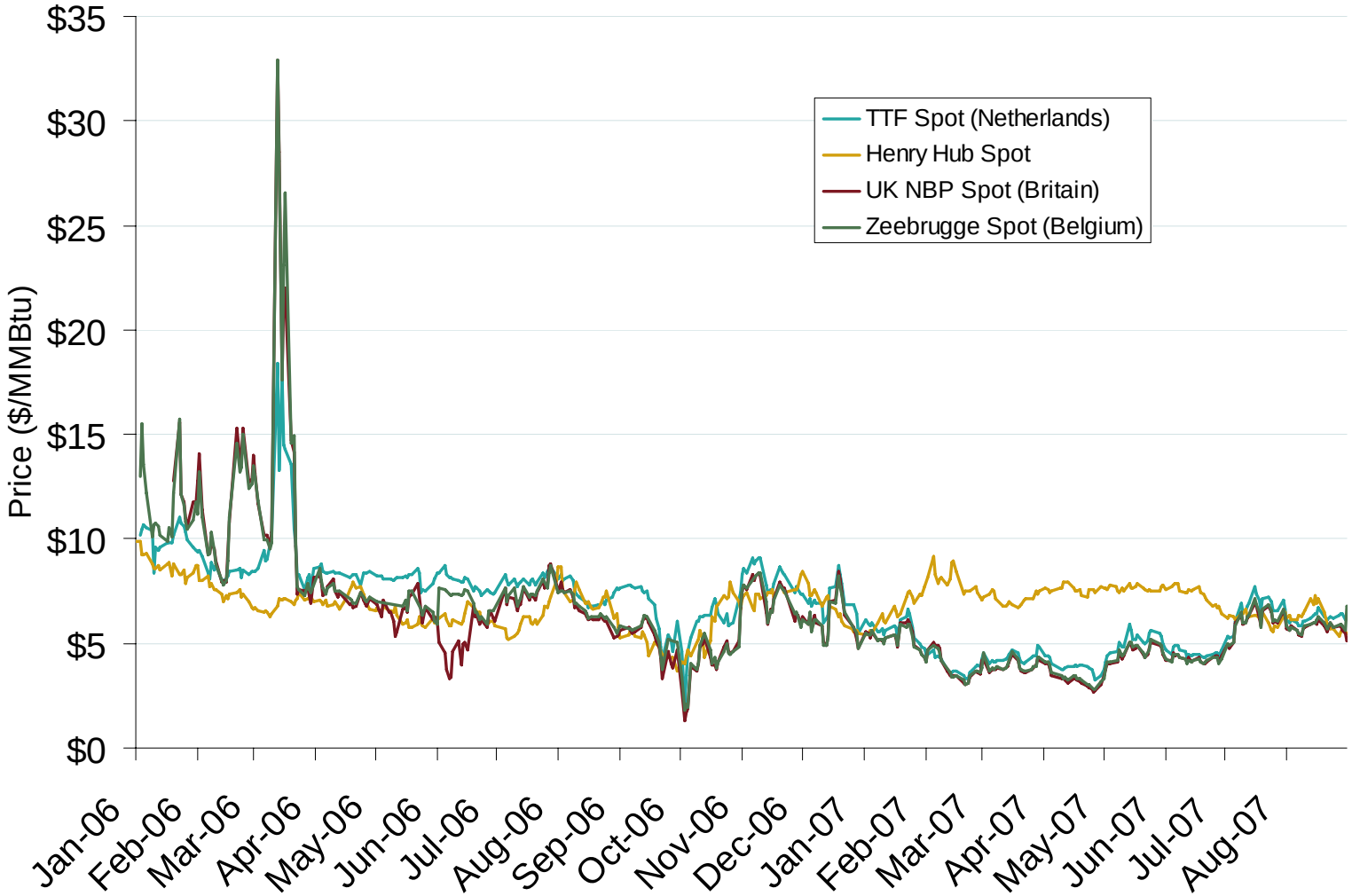


Source: Derived from *Bentek* data. Excludes Everett LNG delivered via truck and consumed by the Mystic plant.

Updated September 7, 2007

3007

European and U.S. Spot Natural Gas Prices



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

Updated September 7, 2007

3008

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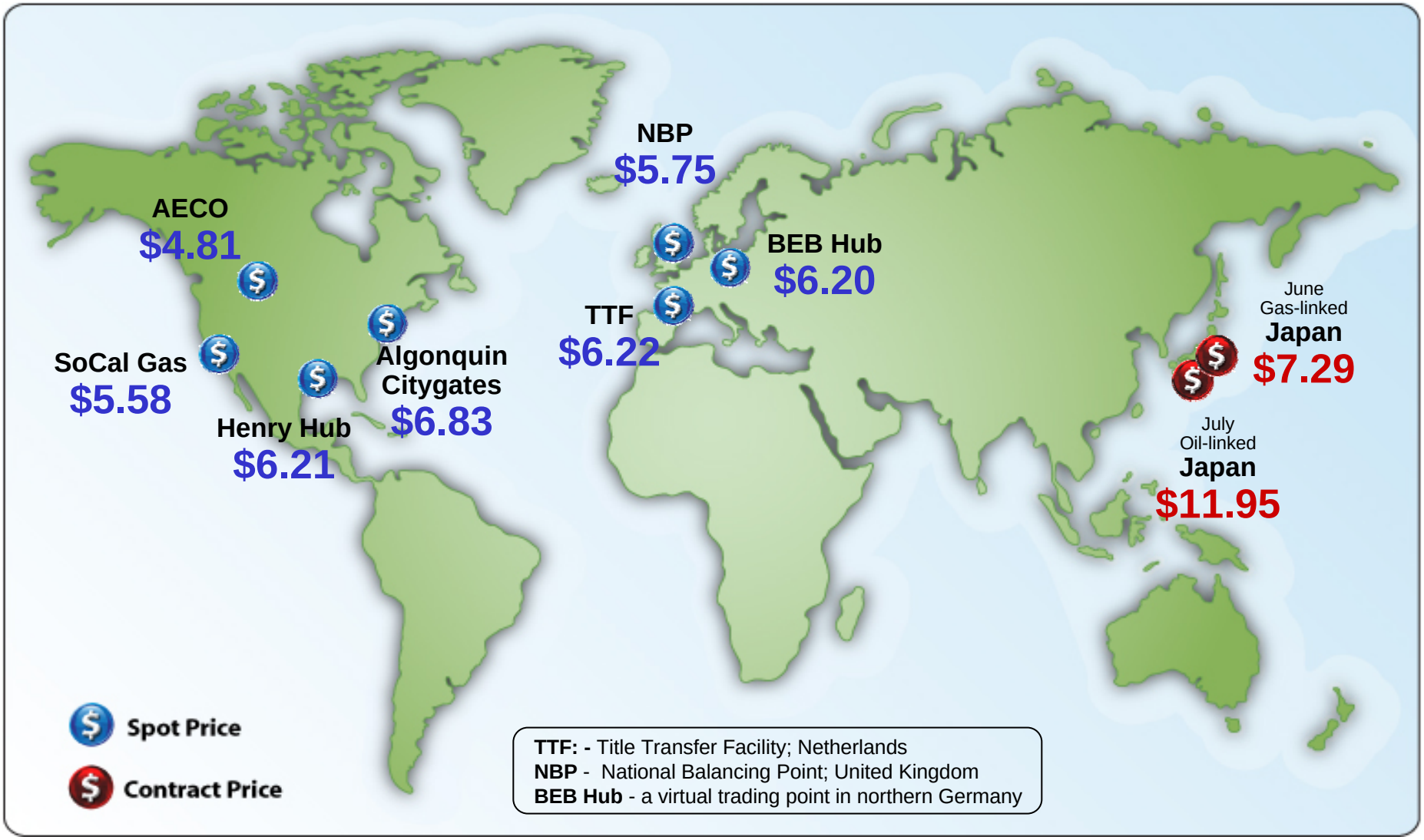
World Natural Gas Prices for August 2007



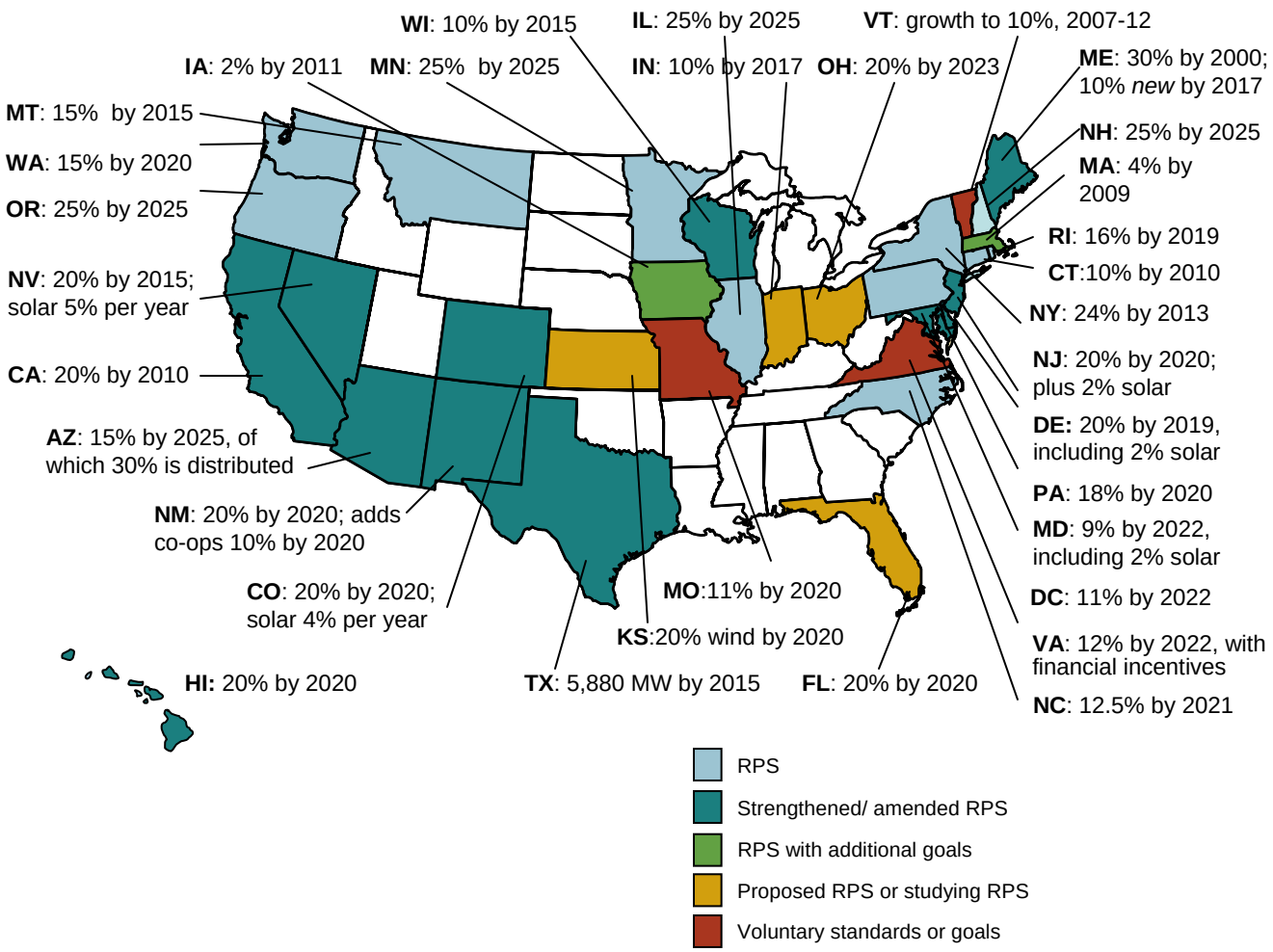
Source: Derived from *Bloomberg, ICE, ICAP and LNG Japan Corp.* data. Spot Price is a monthly average of daily prices. Contract Price is a monthly price. All prices in $US/MMBtu.

Updated September 7, 2007

2165

Renewable Energy Portfolio Standards (RPS)

- A RPS requires a percent of energy sales or installed capacity to come from renewable resources.
- 25 states and DC now have renewable energy standards. Three more have goals. This summer, North Carolina enacted an RPS, Delaware doubled its requirement, Illinois and Maine turned goals into law, and Missouri enacted a goal.
- States that adopted transmission planning and cost recovery policies to support new renewable generation include California, Colorado, Minnesota, New Mexico, and Texas.

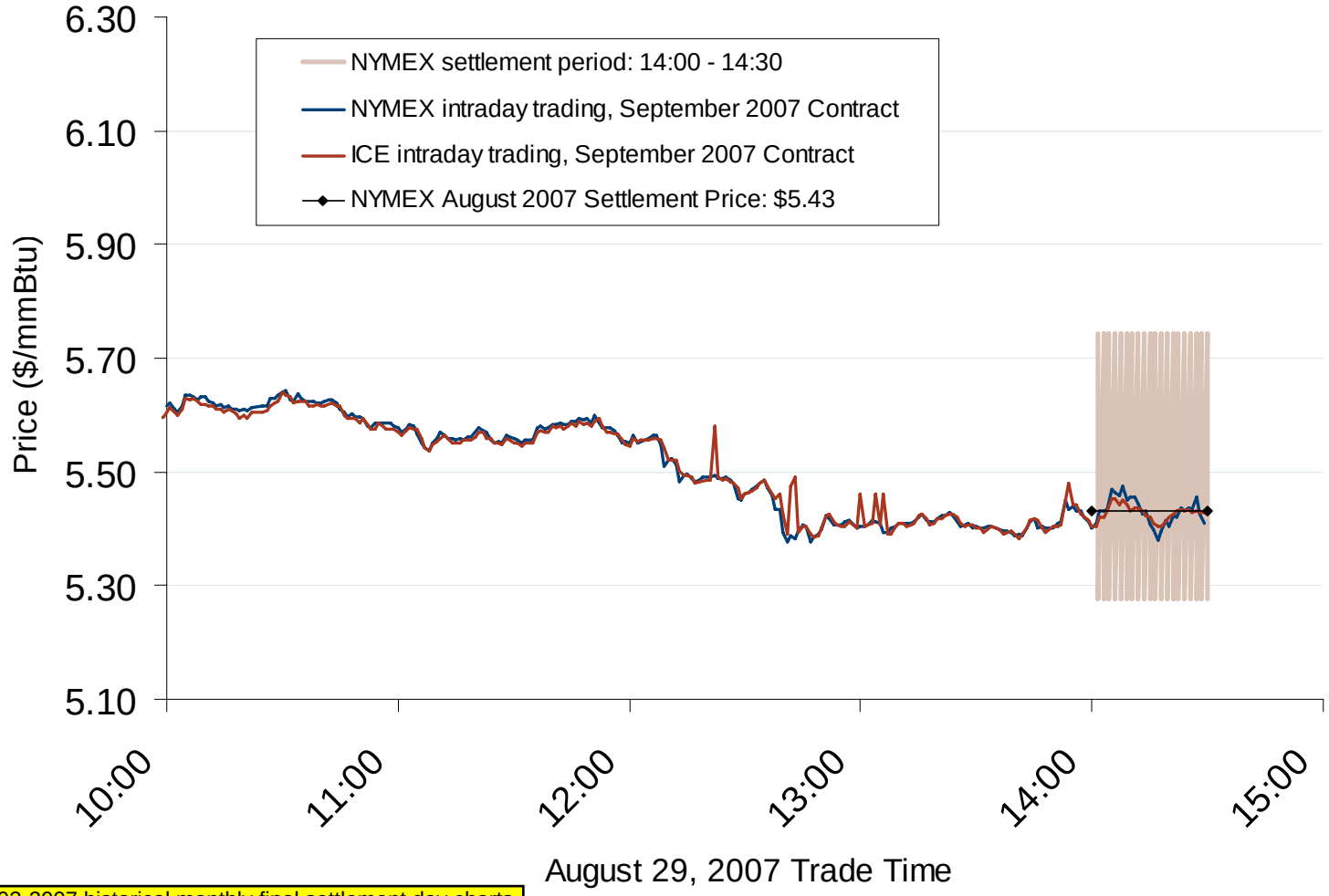


Notes: Minnesota's requirement for Xcel Energy exceeds the state's: it is 30% by 2020; Alaska has no RPS.
Sources: Derived from data in: EEI, EIA, LBNL, PUCs, State legislative tracking services, Database of State Incentives for Renewables and Efficiency, and the Union of Concerned Scientists.

Updated August 30, 2007

1109

September 2007
NYMEX and ICE Contract Final Settlement Day



See 2003-2007 historical monthly final settlement day charts.

Source: Derived from *Nymex and ICE* data.

Created September 6, 2007

2166

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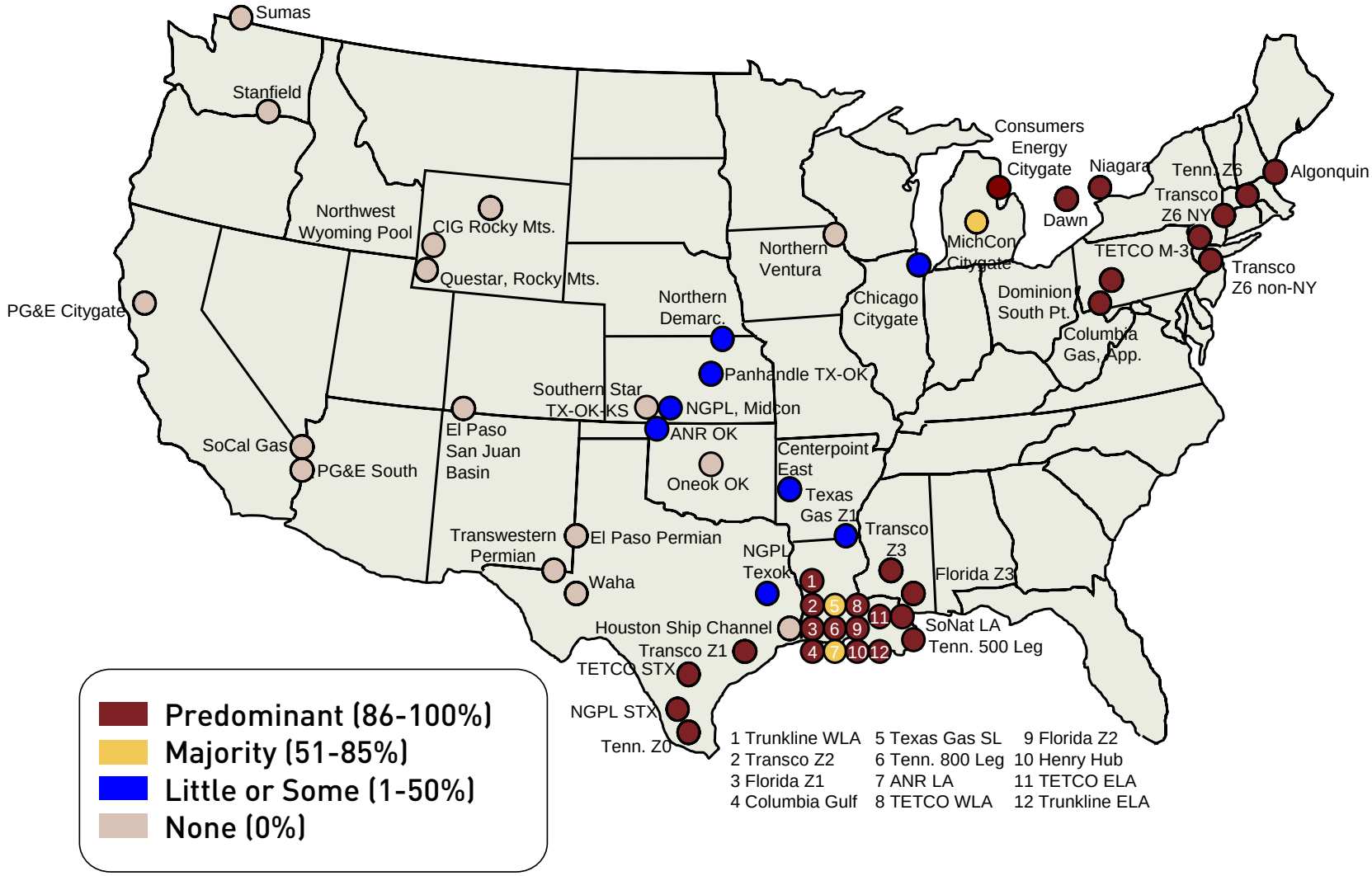
Use of Physical Basis in Natural Gas Price Indices at Major Trading Points, 2007



Source: Derived from *Platts* data for January through June 2007.

Updated July 17, 2007

2167