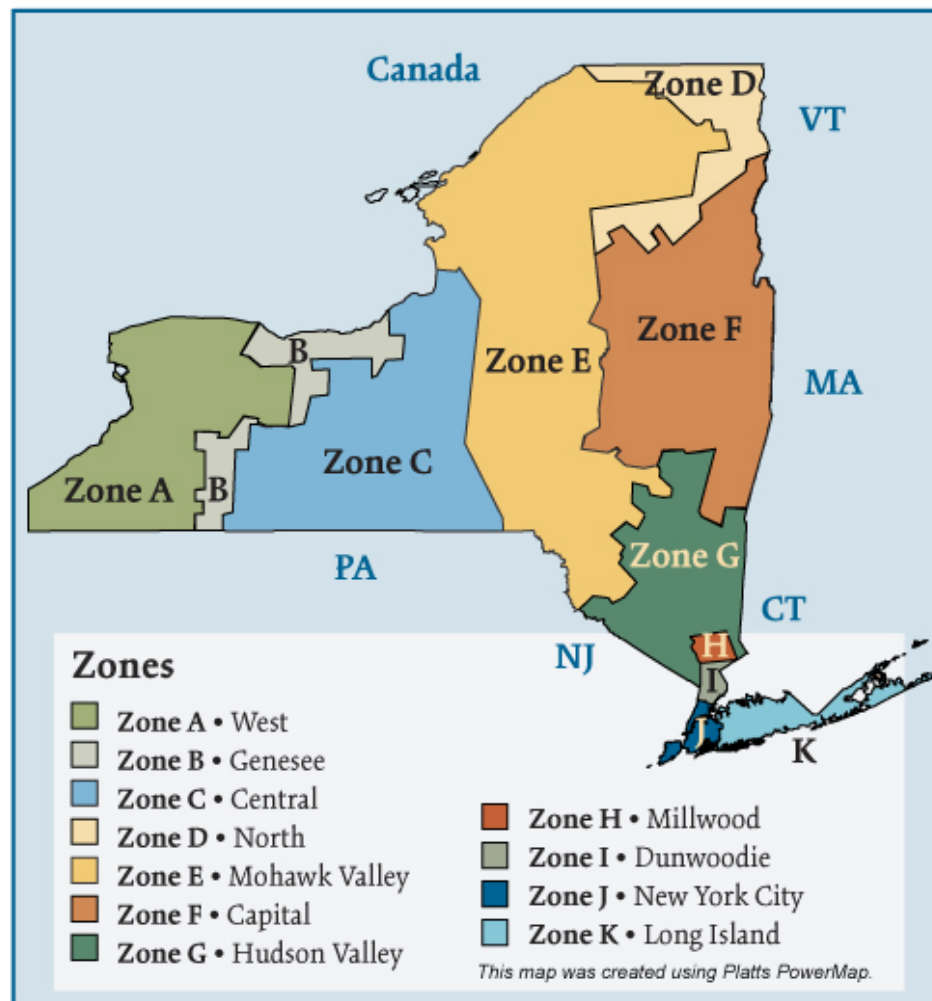


New York (NYISO) Electric Regions



Overview

Geography

State covered: New York

Reliability region: New York ISO (NYISO) sub-region of the Northeast Power Coordinating Council (NPCC)

Balancing authority: NYISO

Zones: Capital (Zone F), Central (Zone C), Dunwoodie (Zone I), Genesee (Zone B), Hudson Valley (Zone G), Long Island (Zone K), Millwood (Zone H), Mohawk Valley (Zone E), New York City (Zone J), North (Zone D), West (Zone A)

RTO/ISO

NYISO (established 1999) operates the region's power grid and wholesale electric markets:

- Energy market: two-settlement (day ahead and real-time) spot market with locational marginal pricing,
- Regional and locational capacity market, and
- Financial transmission rights market.

[NYISO 2008 State of the Markets Report](#)

Market Monitor:

Nicole Bouchez – Manager, Internal Market Monitor, New York ISO

David Patton – Independent Market Advisor, Potomac Economics, LTD.

RTO/ISO (continued)

Also, market participants trade electricity bilaterally through brokers, the Intercontinental Exchange (ICE) and the New York Mercantile Exchange's (Nymex) ClearPort, using Zone A (West) as a pricing point.

Generation/Supply

Marginal fuel type: natural gas

Generating capacity (summer 2006): 39,704 MW

Capacity reserve (summer 2006): 5,765 MW

Reserve margin (summer 2006): 17%

The New York City metropolitan area (NYC) and Long Island (LI) are areas of concentrated demand. Both localities have requirements for installed generating capacity that are more stringent than the rest of the region, to ensure reliability of service.

Demand

All time peak demand: 33,939 MW (set August 2, 2006)

In summer of 2006, demand reached record levels on several occasions due to extremely hot weather.

Peak demand growth: 5.6 % (2006-2005)

Summer Peak Demand (MW) 28,433 (2004), 32,075 (2005), 33,939 (2006) (Source: NYISO)

Load pockets: Zone J New York City and Zone K Long Island

Prices

Annual Average Day-Ahead Price

Zone J New York City

2004: \$63.16/MWh

2005: \$93.77/MWh

2006: \$70.90/MWh

Zone K Long Island

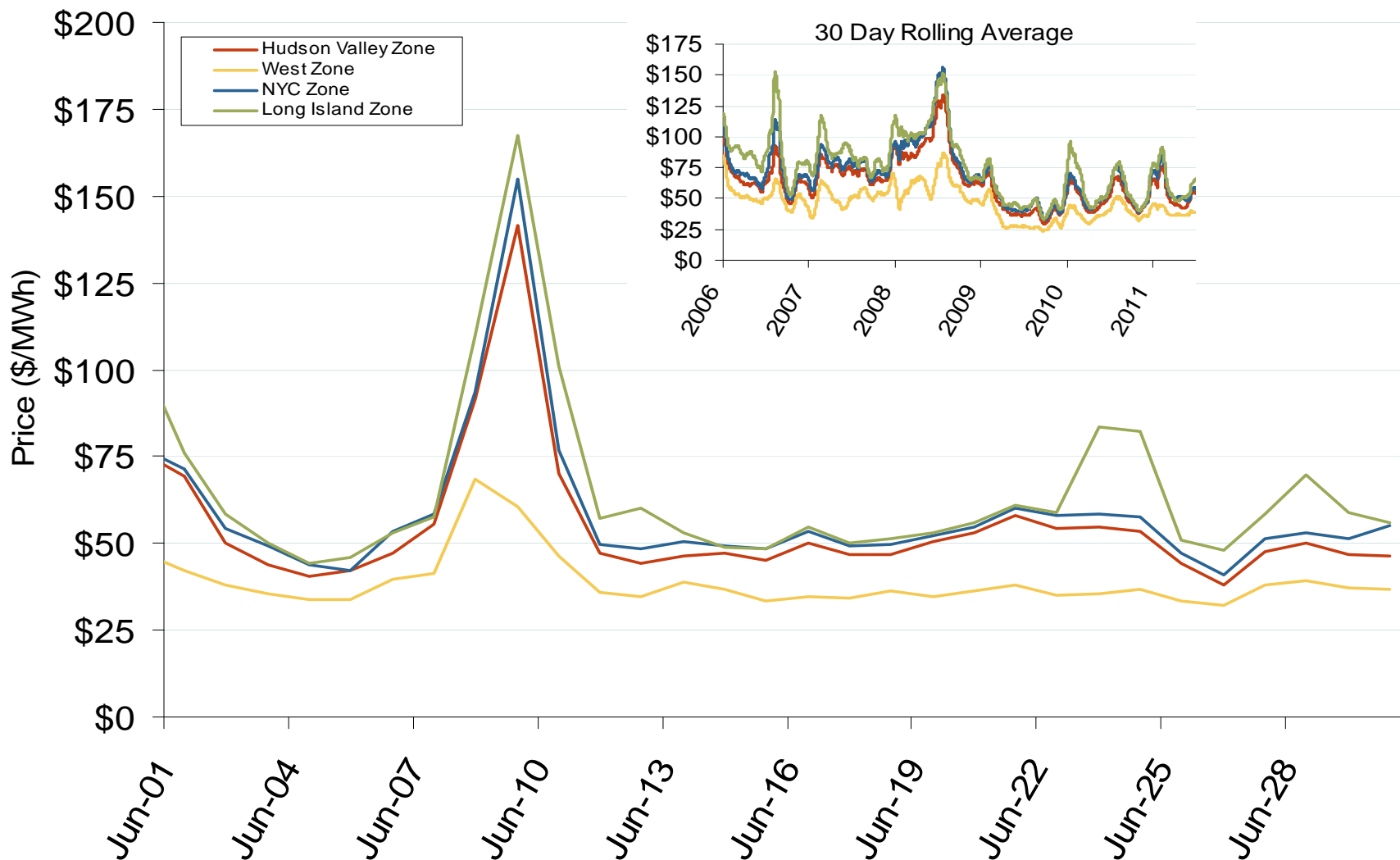
2004: \$63.20/MWh

2005: \$99.32/MWh

2006: \$86.15/MWh

Prices increased in 2005 as a result of disturbances to the natural gas market. Prices declined in 2006 as natural gas storage levels remained above historical ranges throughout the injection season (April through October).

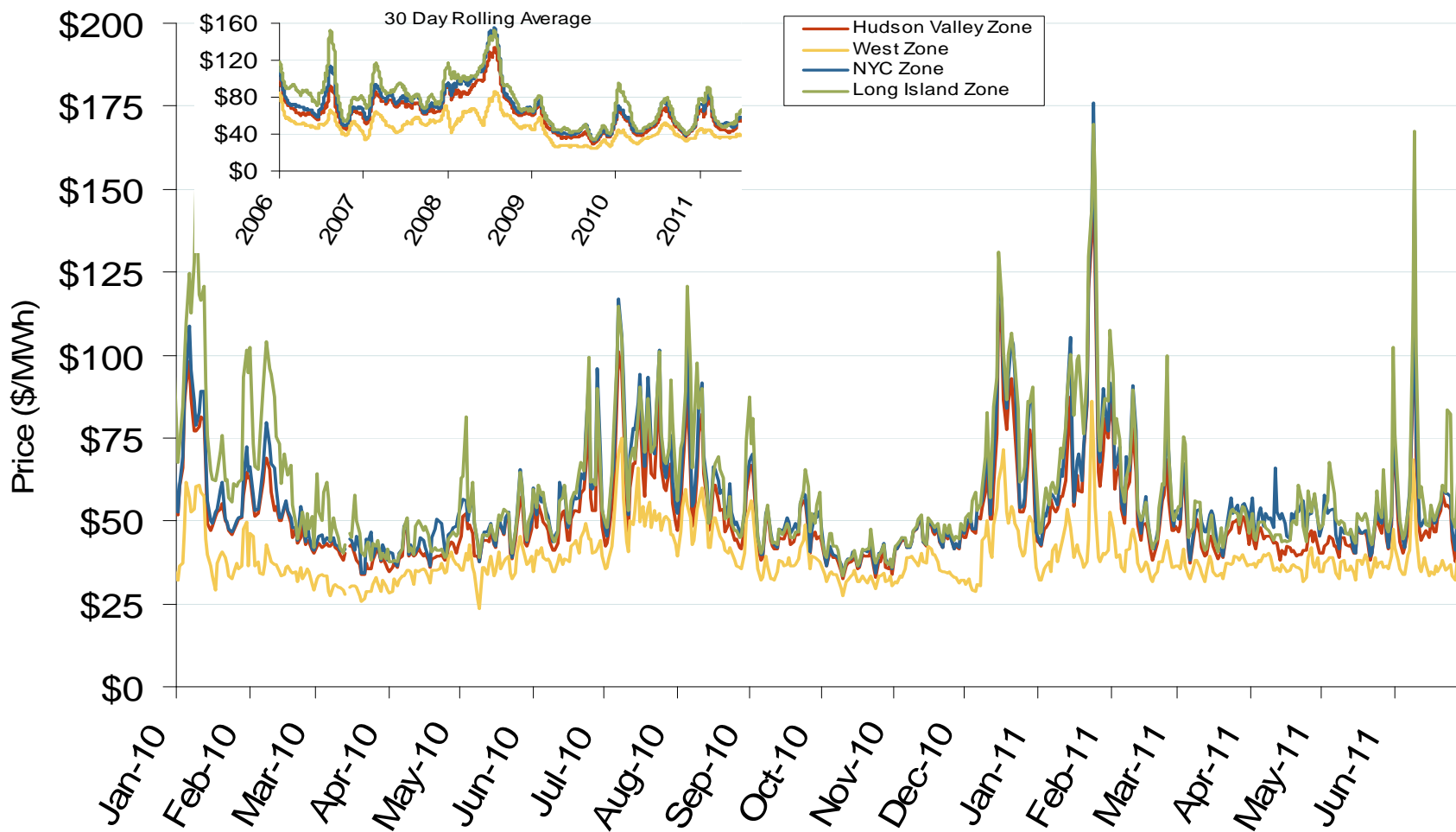
Daily Average of NYISO Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data.

Updated July 7, 2011

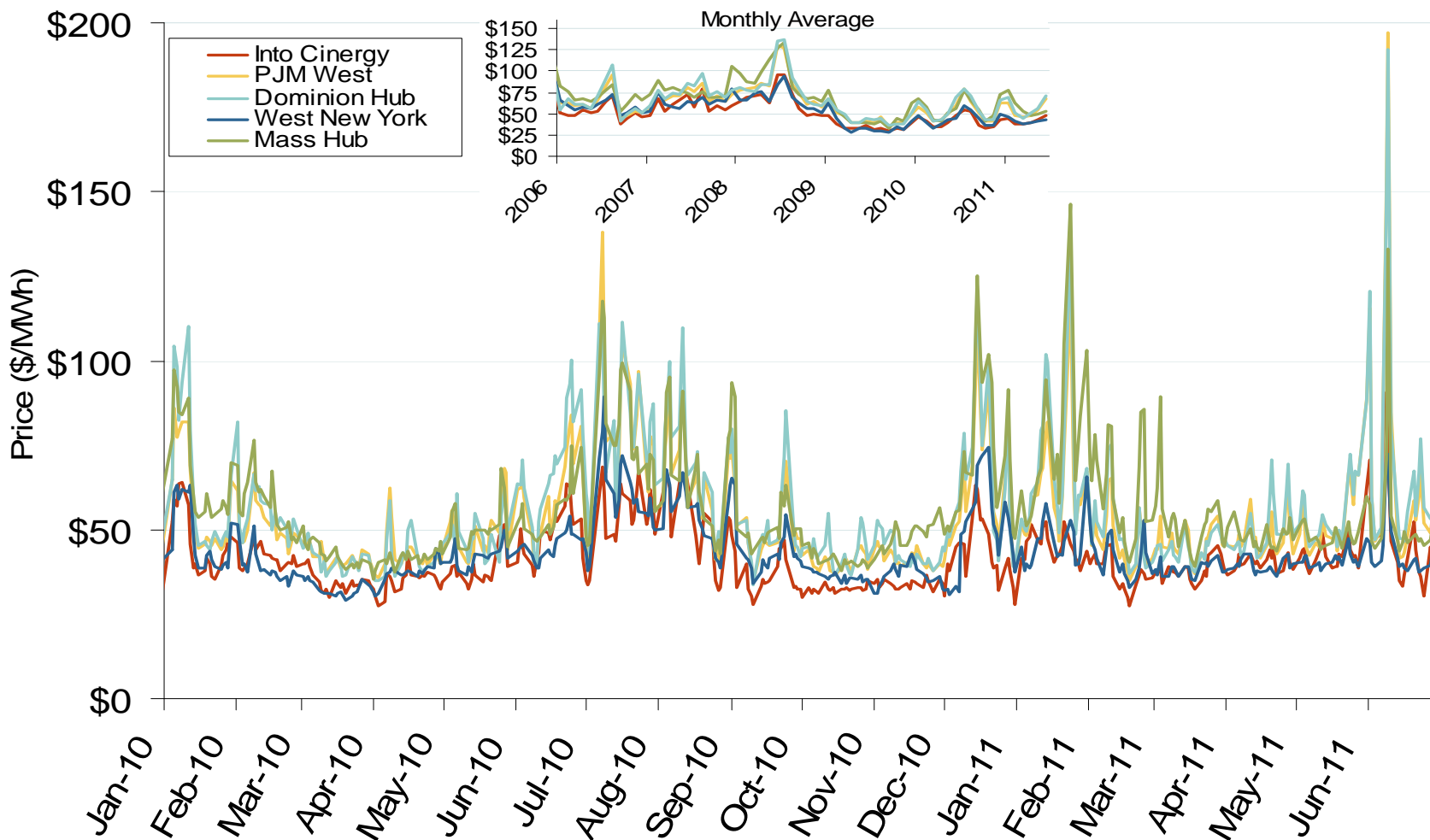
Daily Average of NYISO Day-Ahead Prices - All Hours



Source: Derived from *Bloomberg* data.

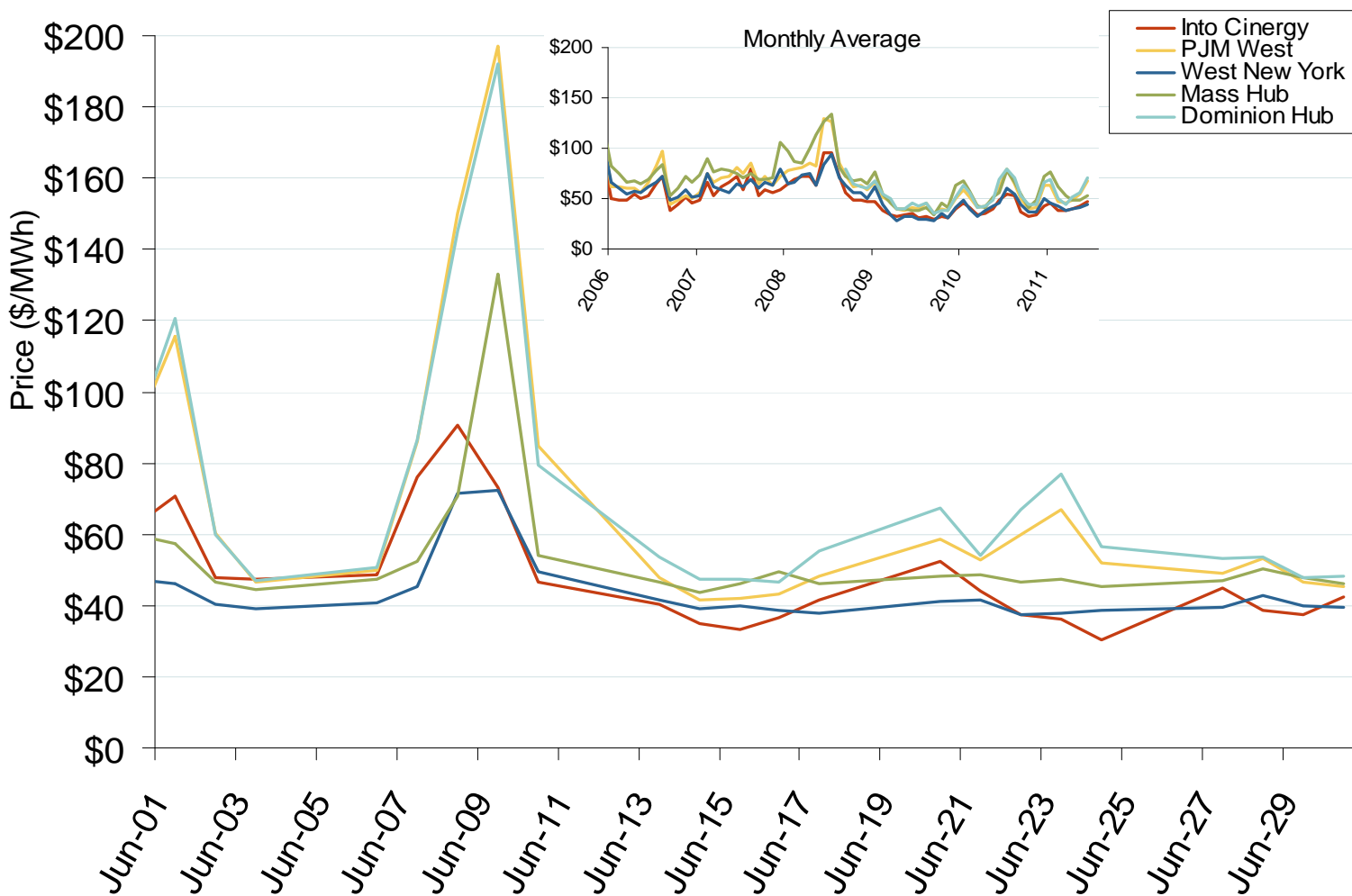
Updated July 7, 2011

Eastern Daily Bilateral Day-Ahead On-Peak Prices



Source: Derived from *Platts* data.

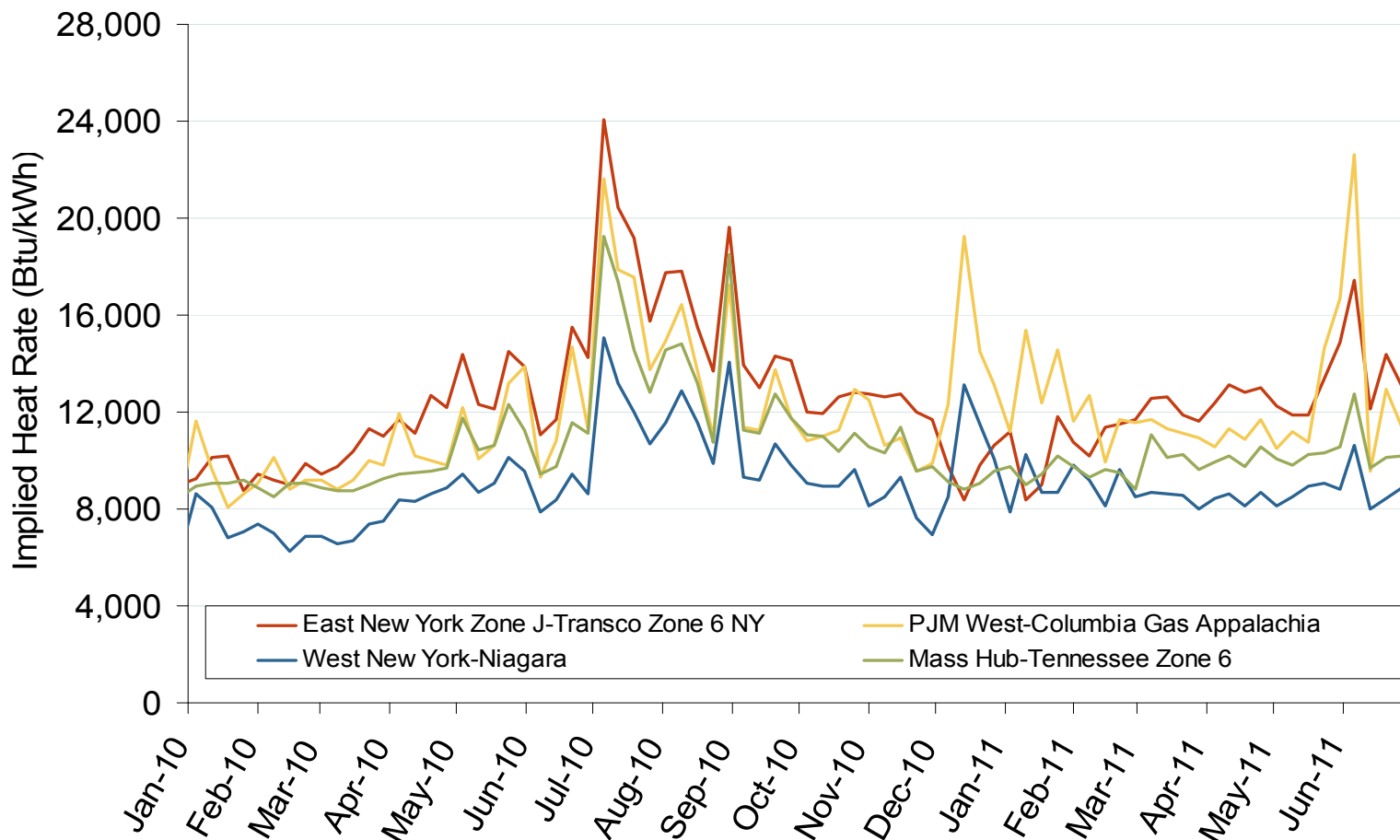
Eastern Daily Bilateral Day-Ahead On-Peak Prices



Source: Derived from *Platts* data.

Updated: July 08, 2011

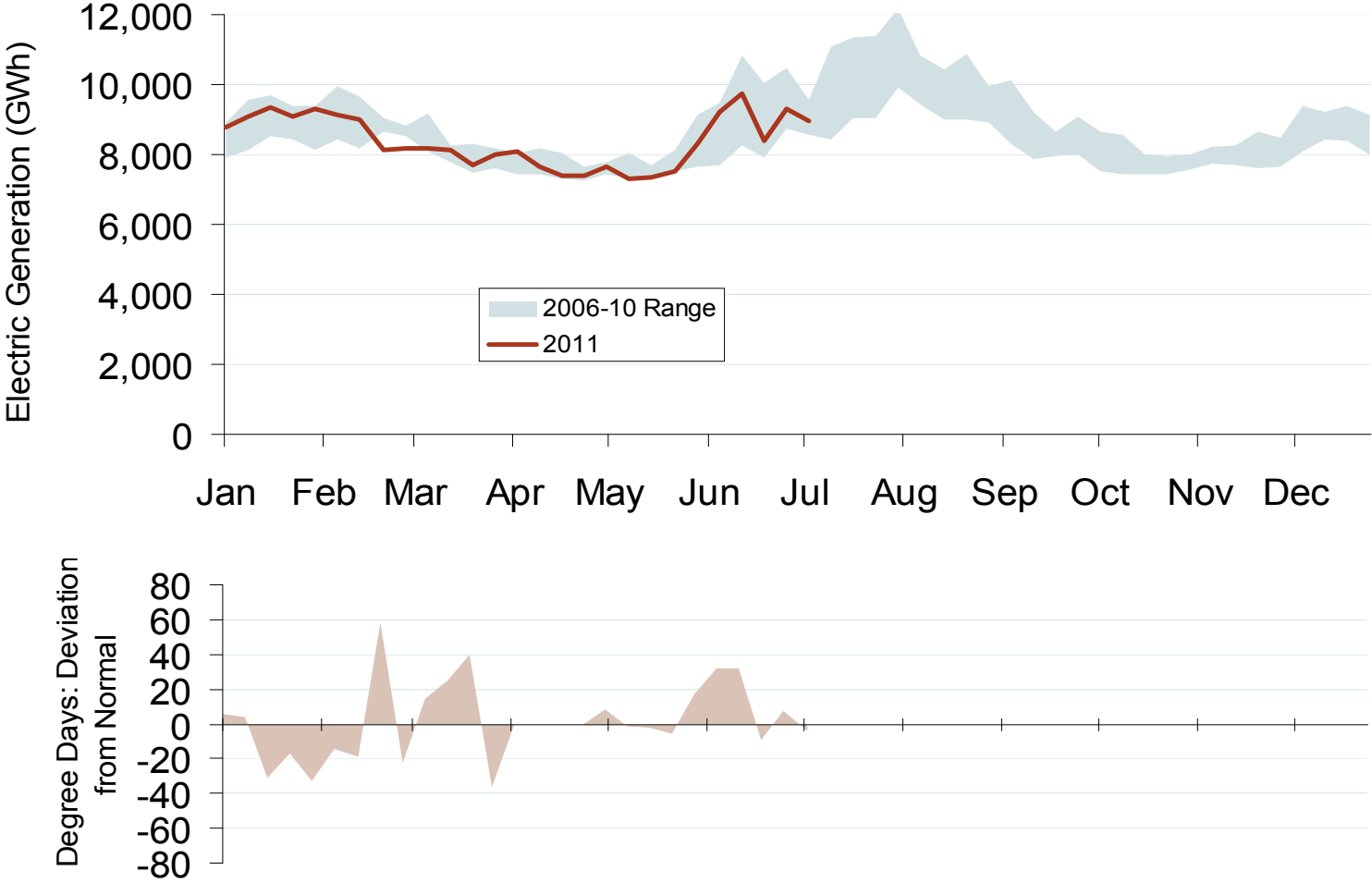
Implied Heat Rates at Eastern Trading Points Weekly Averages



Source: Derived from *Platts* on-peak electric and natural gas price data.

Updated: July 08, 2011

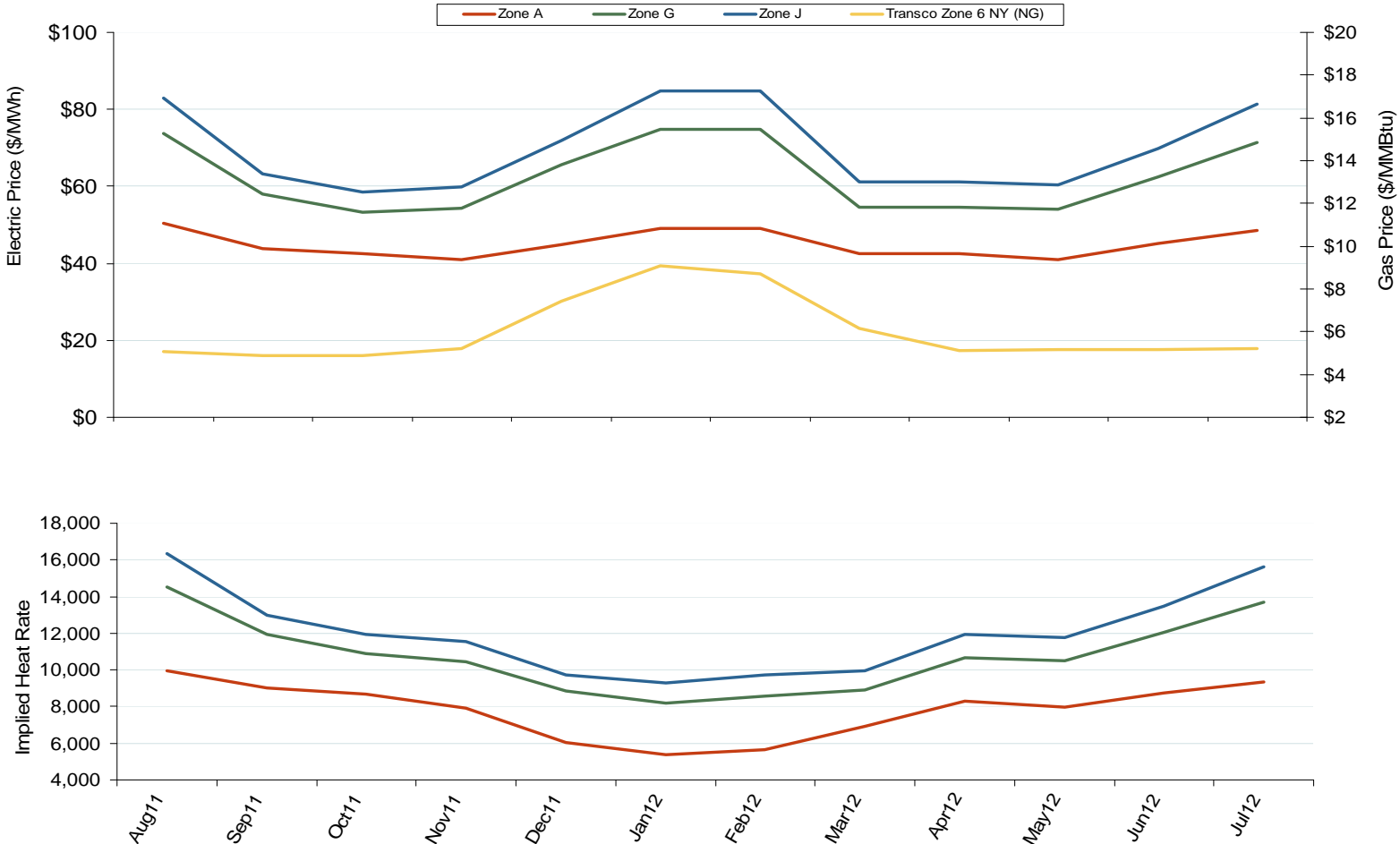
Weekly Electric Generation Output and Temperatures Mid Atlantic Region



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

Updated: July 08, 2011

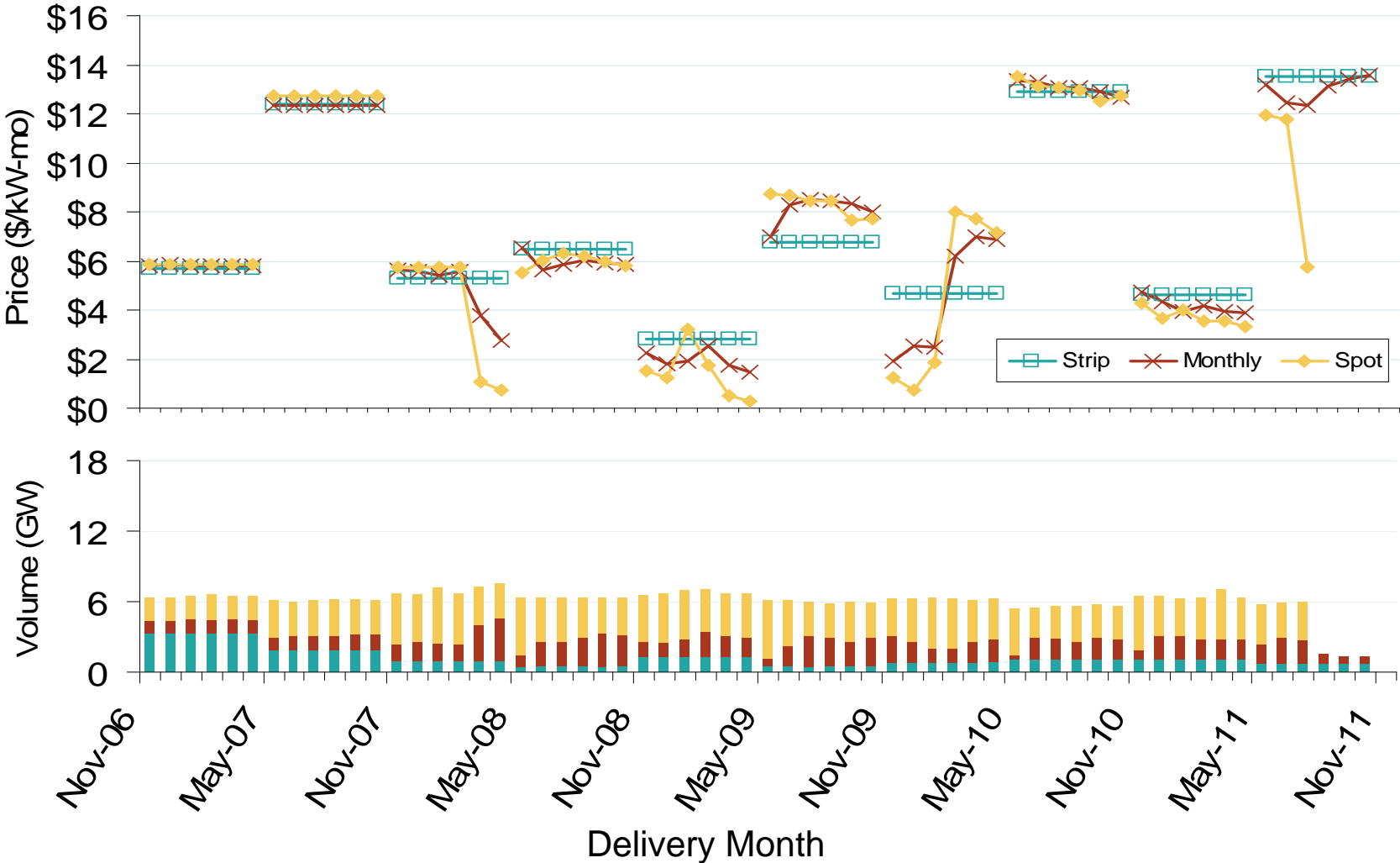
New York Electric Forward Price Curves and Implied Heat Rates



Source: Derived from Nymex data

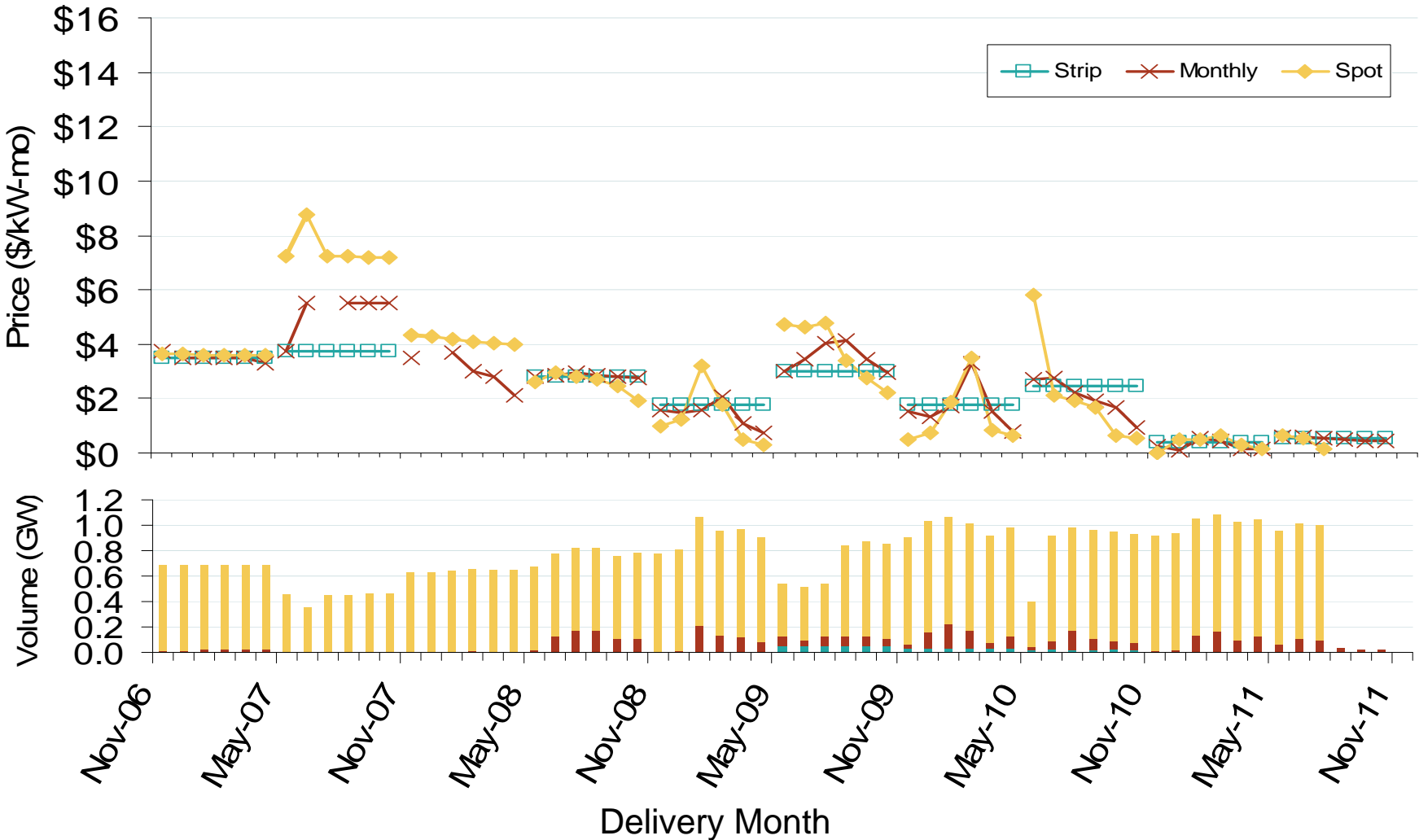
Updated: July 15, 2011

Weighted Average ICAP Clearing Prices and Volumes: New York City



Source: Derived from NYISO data.

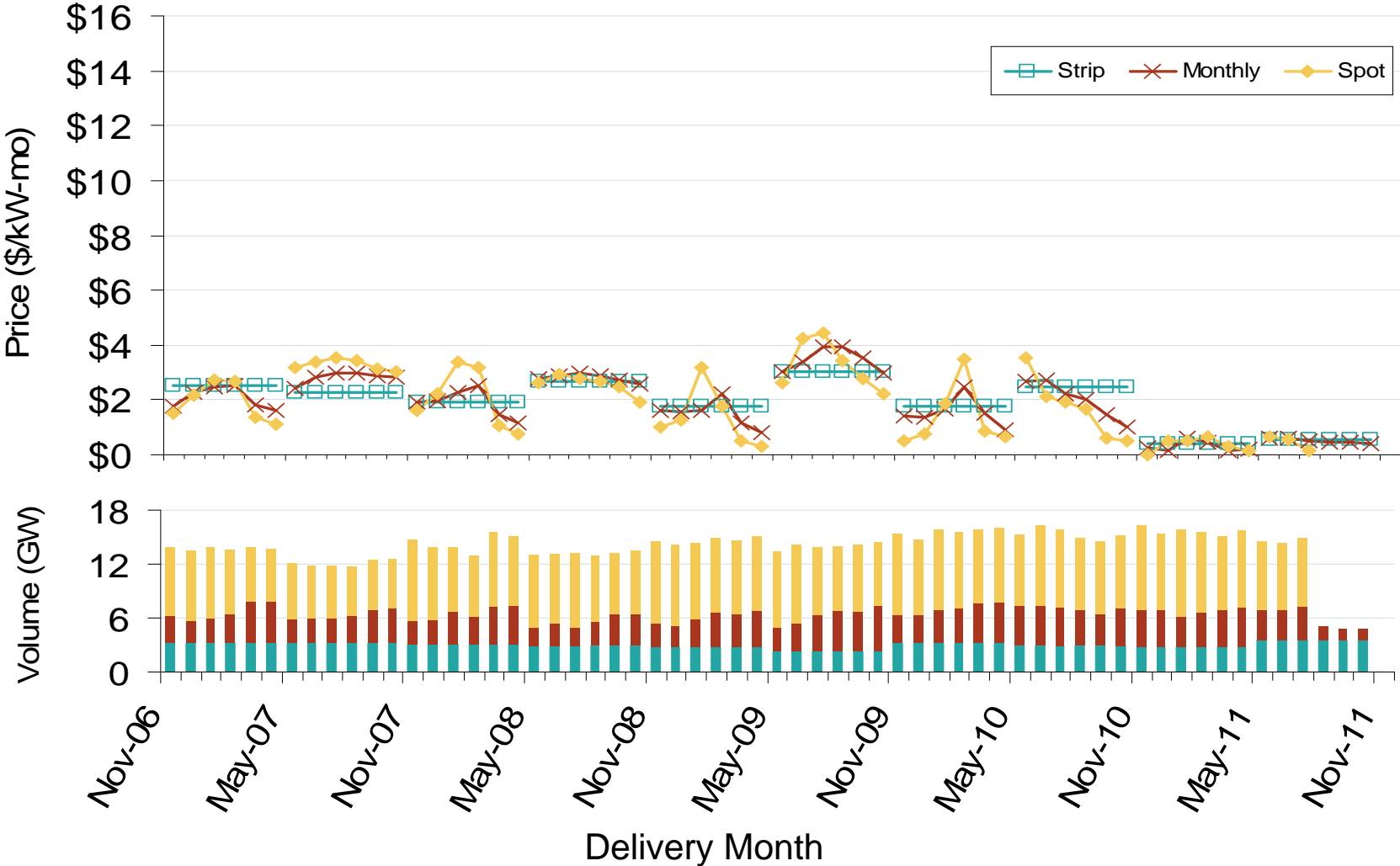
Weighted Average ICAP Clearing Prices and Volumes: Long Island



Source: Derived from NYISO data.

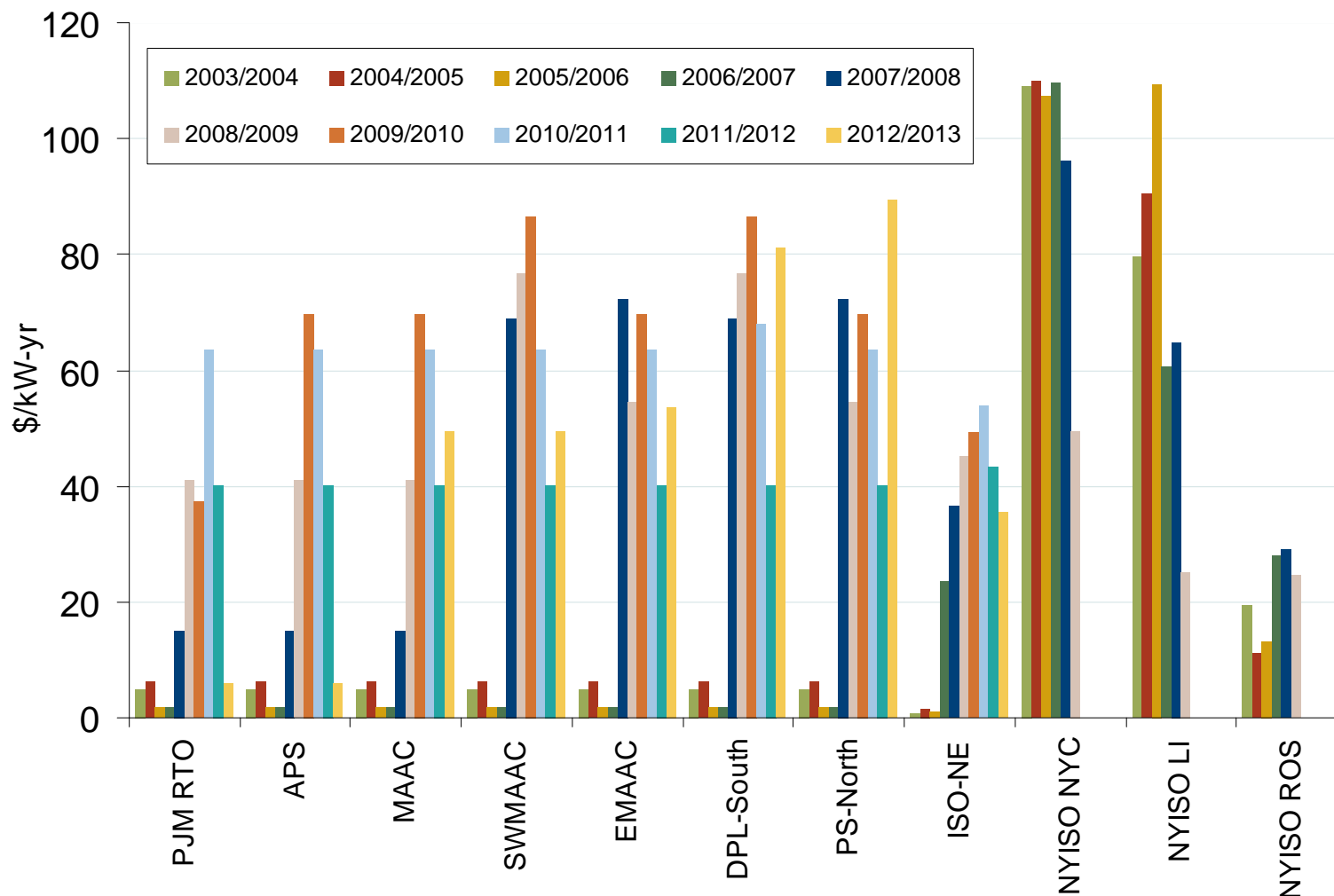
Updated July 7, 2011

Weighted Average ICAP Clearing Prices and Volumes: New York State, excluding New York City



Source: Derived from NYISO data.

PJM, NYISO and ISO-NE Capacity Auction Prices



Note: PJM values are for Base Residual Auctions only.

ISO-NE results are based on preliminary FCM auction before pro-rationing and EAS adjustment.

Source: Derived from PJM, NYISO and ISO-NE data
July 2011

Updated October 7, 2009