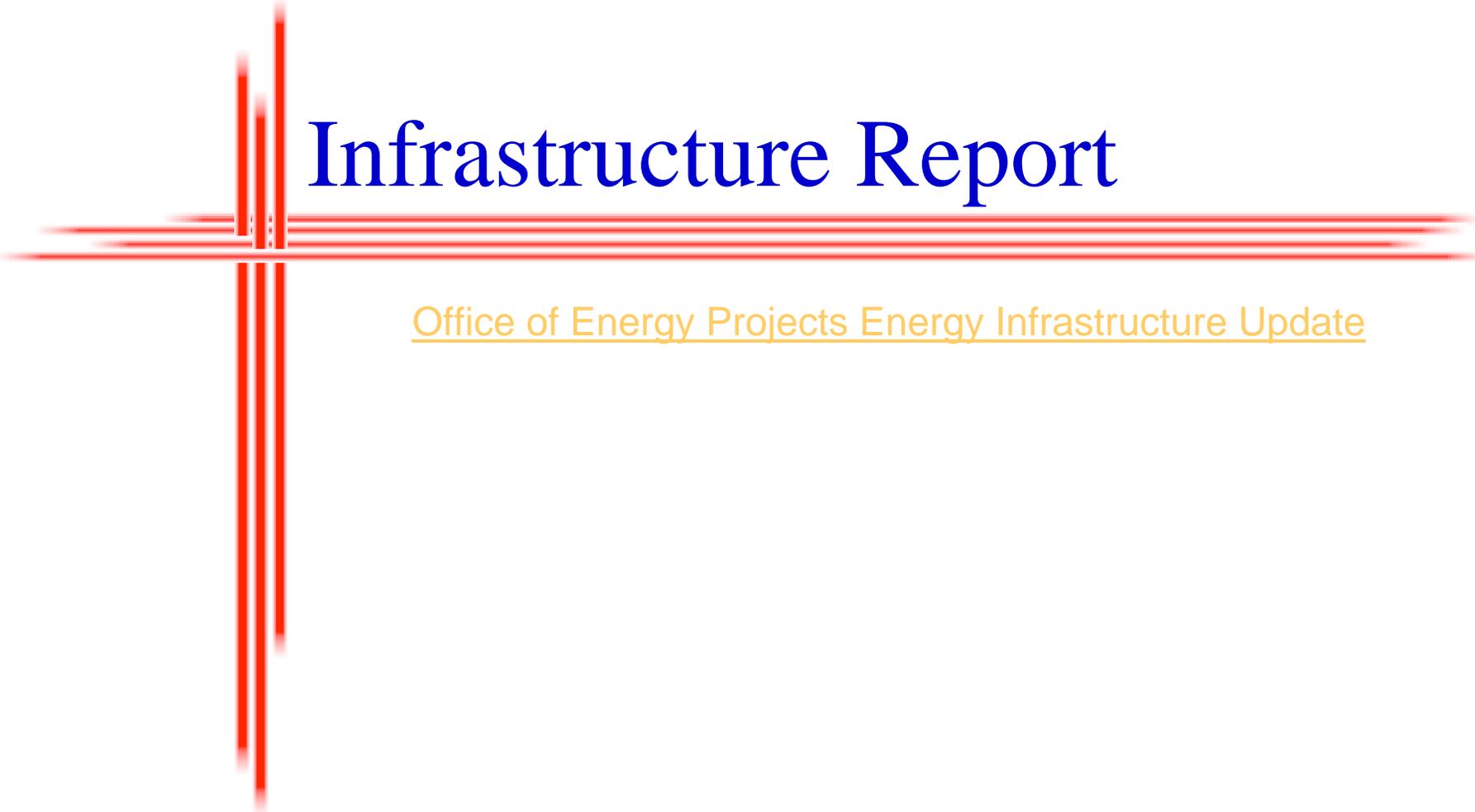


OE ENERGY MARKET SNAPSHOT

Mid-Atlantic States Version – September 2013 Data

Office of Enforcement
Federal Energy Regulatory Commission
October 2013



Infrastructure Report

Office of Energy Projects Energy Infrastructure Update



<http://www.ferc.gov/market-oversight/reports-analyses/st-mkt-ovr/2012-som-final.pdf>

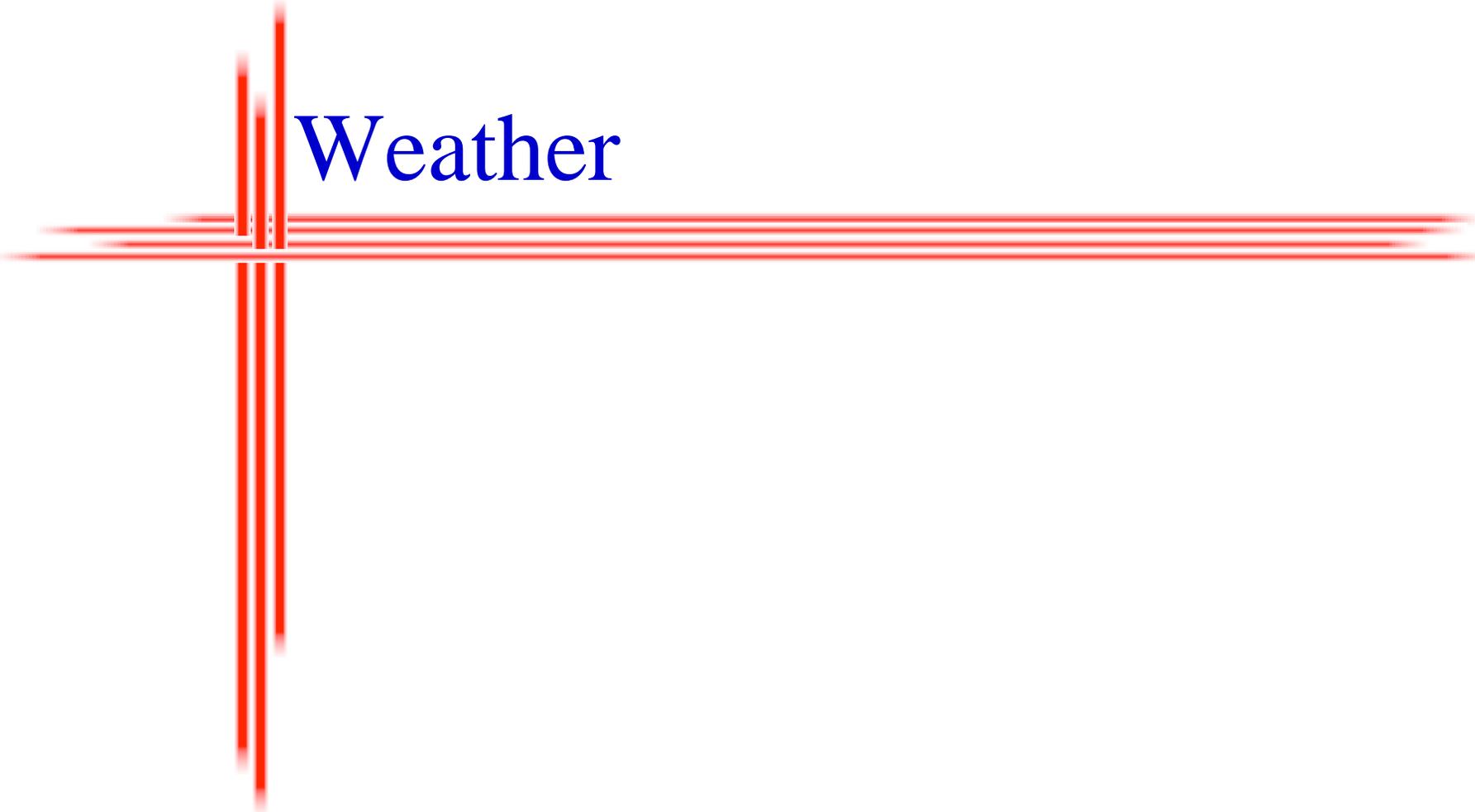


**Winter 2013-14
Energy Market Assessment
Report to the Commission**

Docket No. AD06-3-000
October 2013

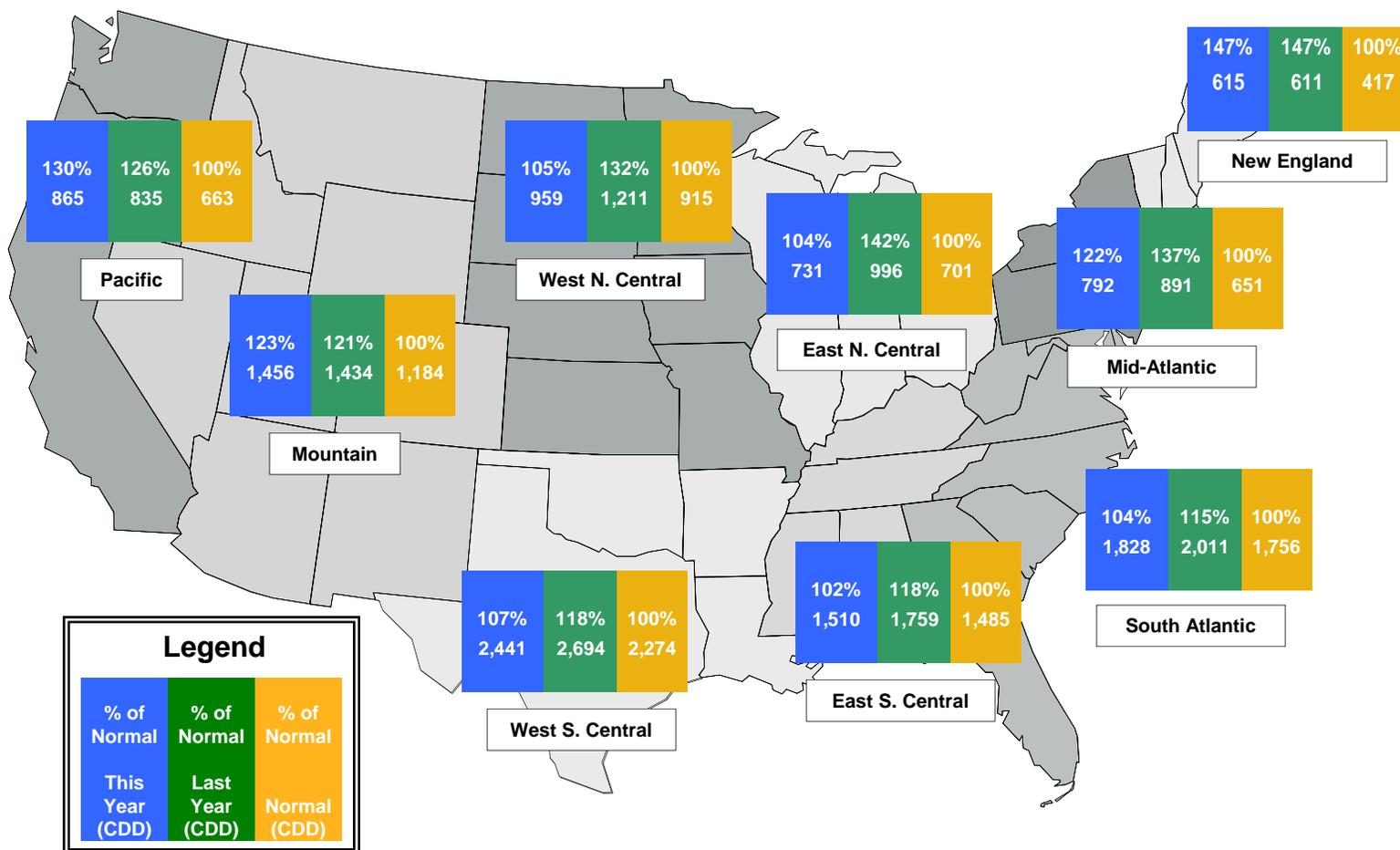
Disclaimer: The matters presented in this staff report do not necessarily represent the views of the Federal Energy Regulatory Commission, its Chairman, or individual Commissioners, and are not binding on the Commission.

<http://www.ferc.gov/CalendarFiles/20131017101835-2013-14-WinterReport.pdf>



Weather

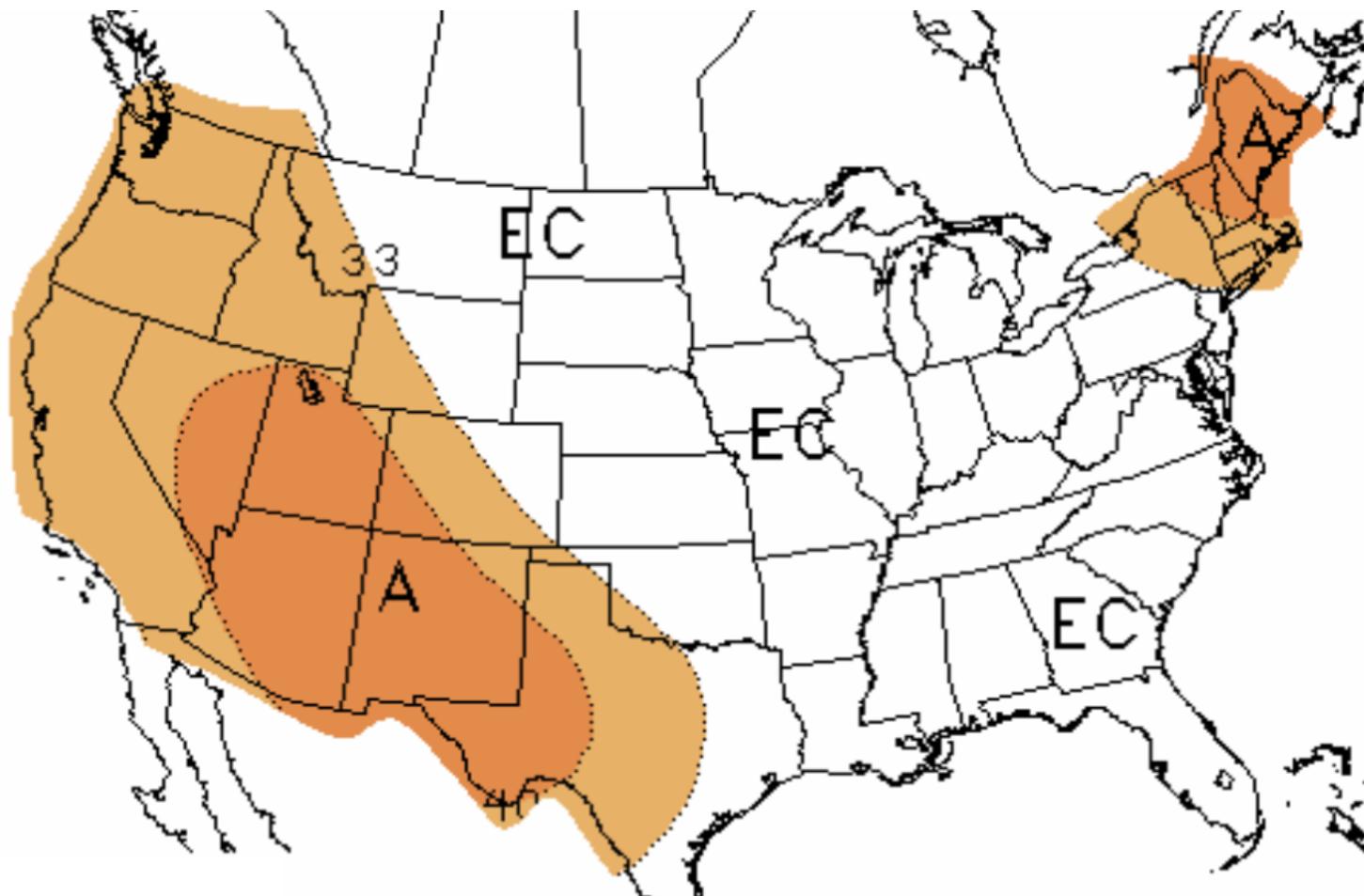
Regional Cooling Degree Days – January to September 2013



Source: Derived from NOAA data. Normal is based on a 30-year average of cooling degree day data.
 October 2013 Mid-Atlantic Snapshot Report

Updated: October 16, 2013

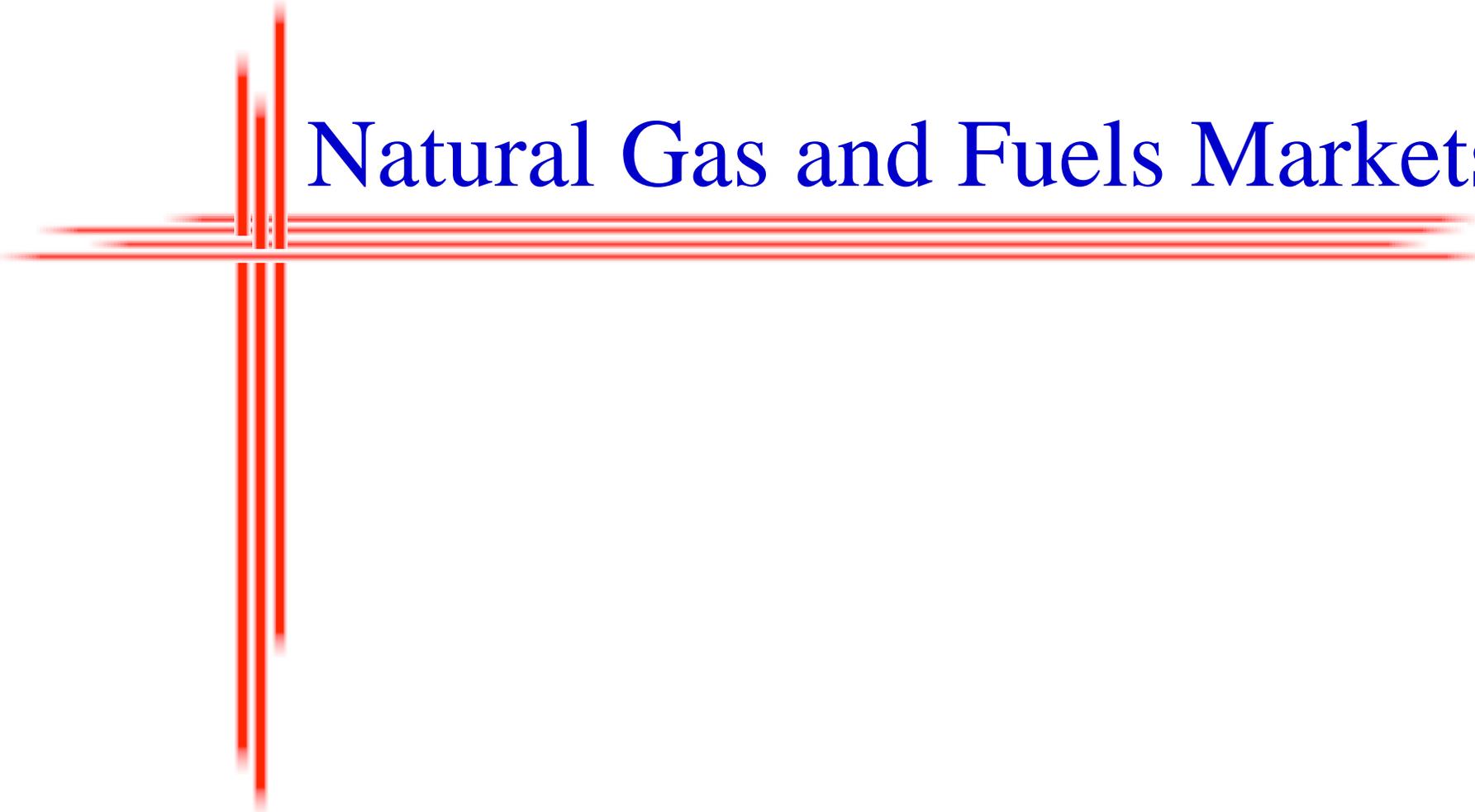
NOAA's 3 Month Temperature Forecast Made July 18, 2013, Valid for October 2013 – December 2013



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.

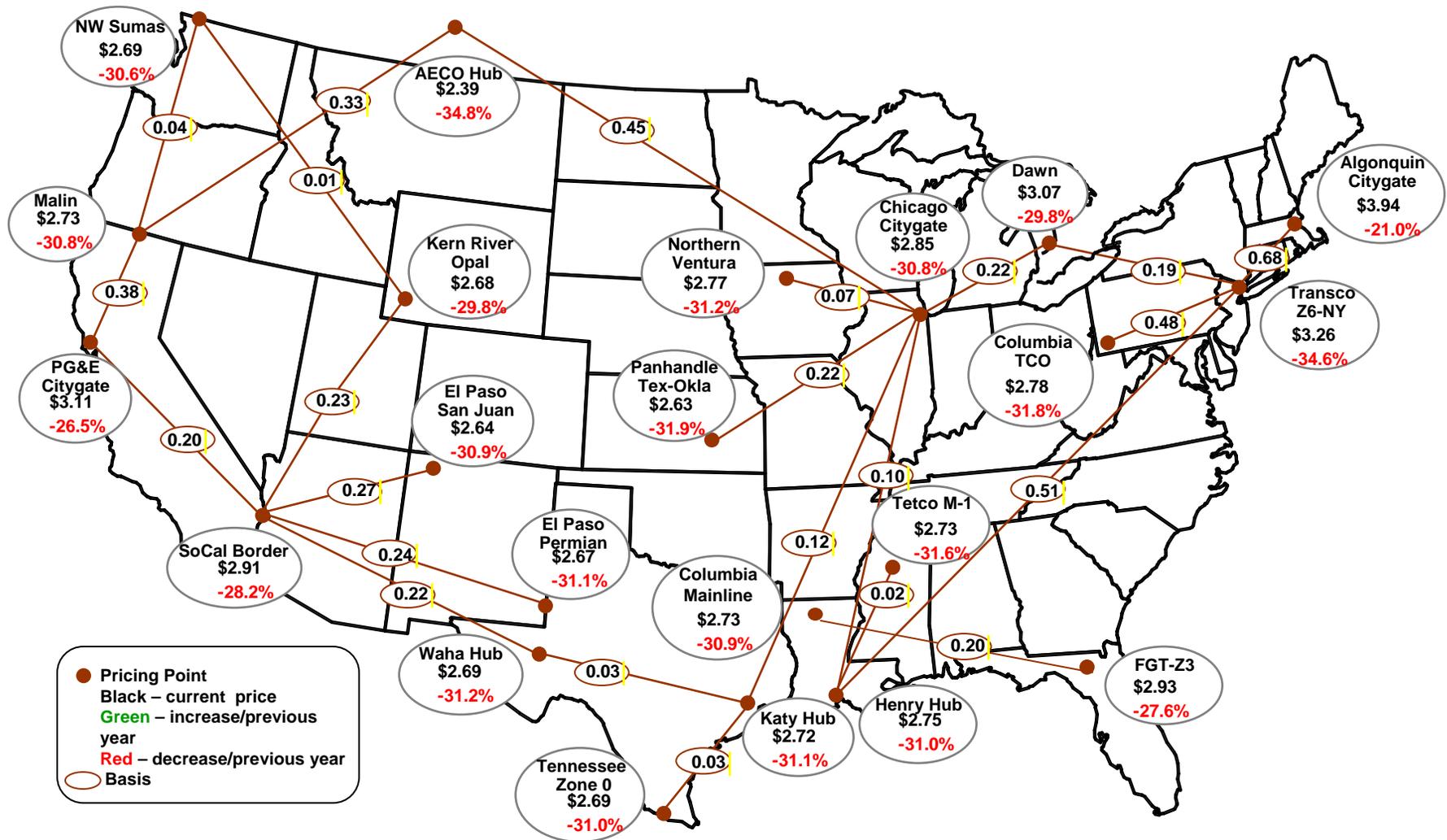
Source: Derived from NOAA data.

Updated: October 16, 2013



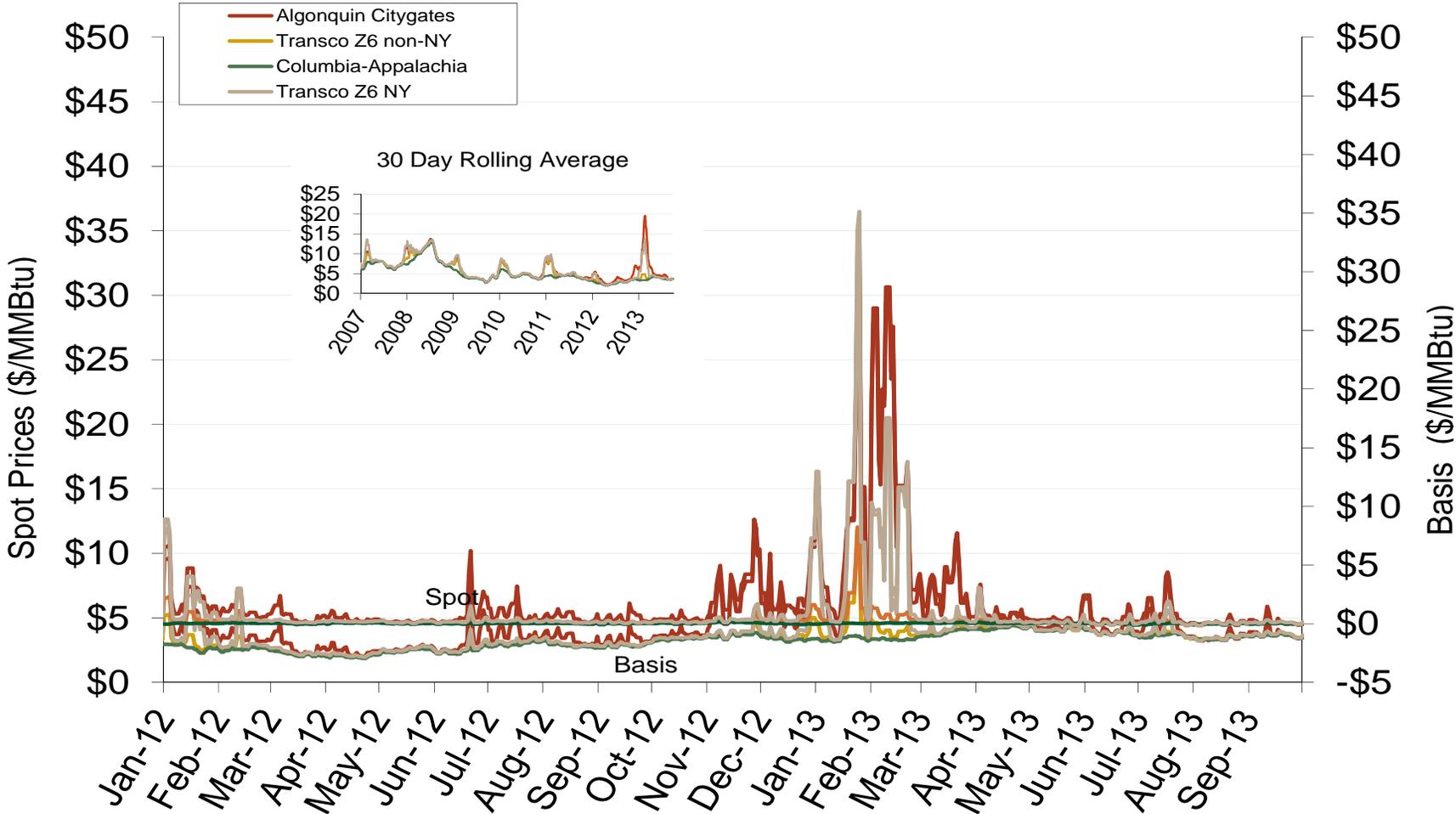
Natural Gas and Fuels Markets

Average Spot Gas Prices, 2012 (\$MMBtu)



Source: Derived from *Platts* data.
October 2013 Mid-Atlantic Snapshot Report

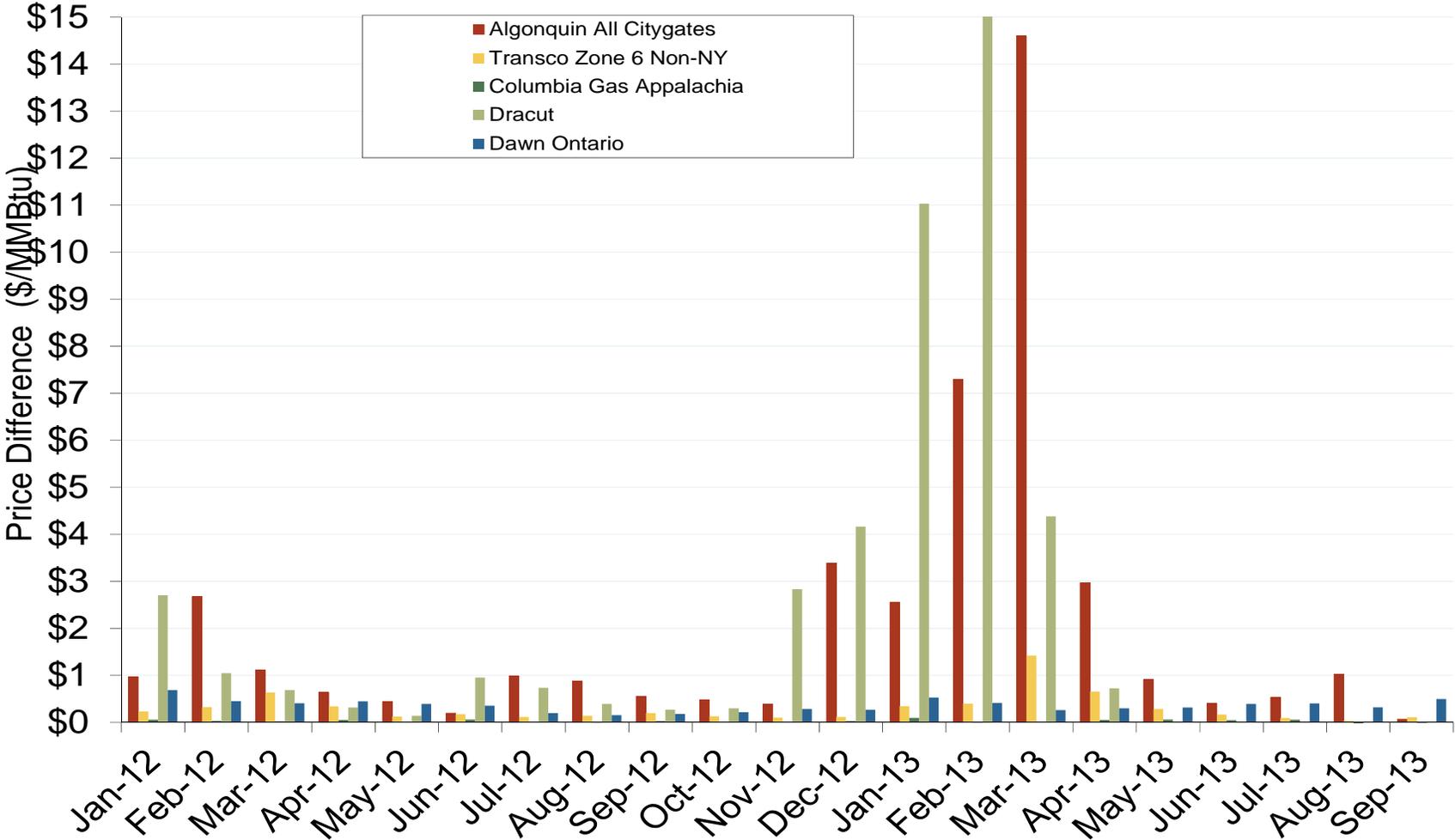
Northeastern Spot Prices and Basis



Northeast Natural Gas Market: Average Basis to Henry Hub

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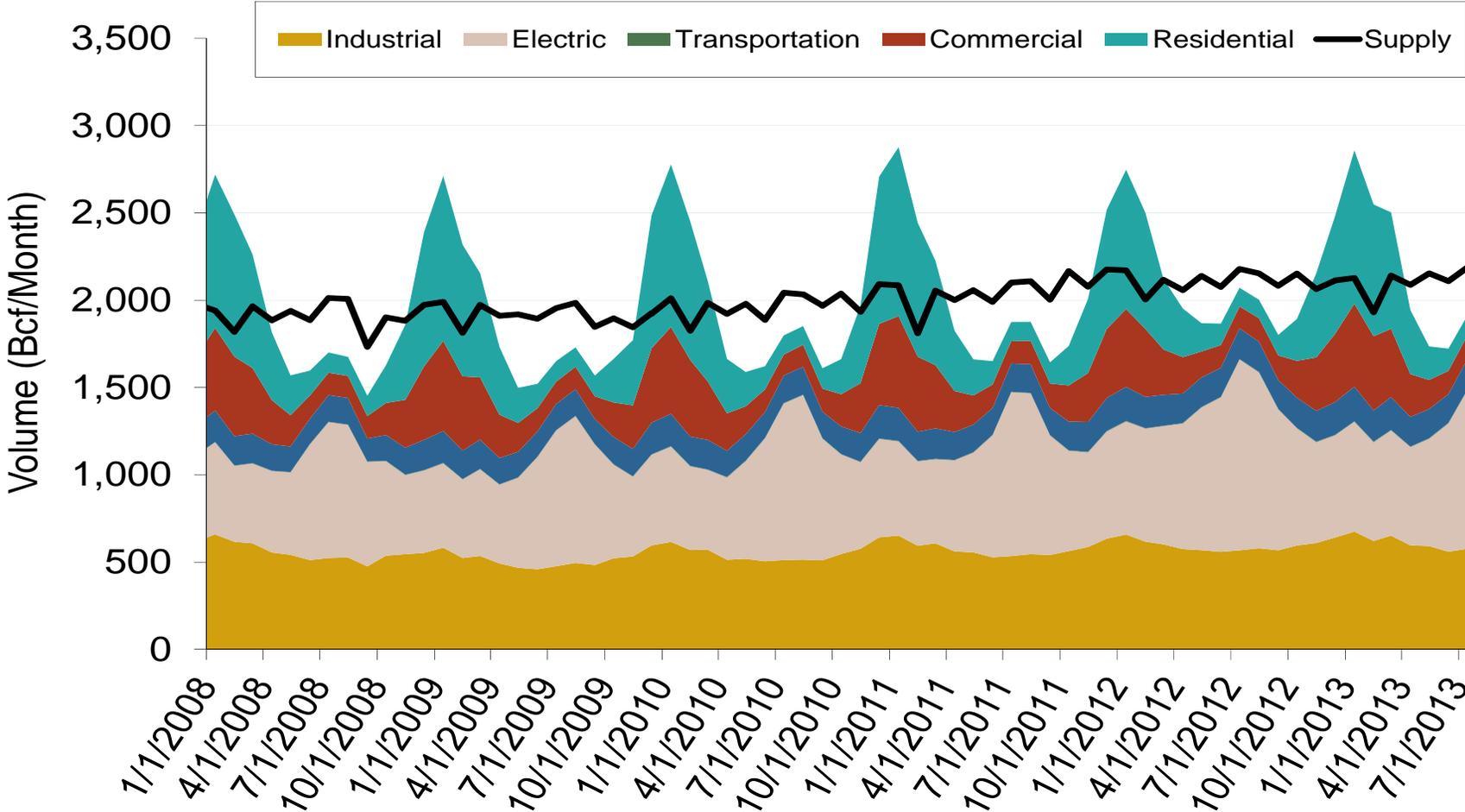
Northeastern Monthly Average Basis Value to Henry Hub



Source: Derived from Platts data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 03, 2013

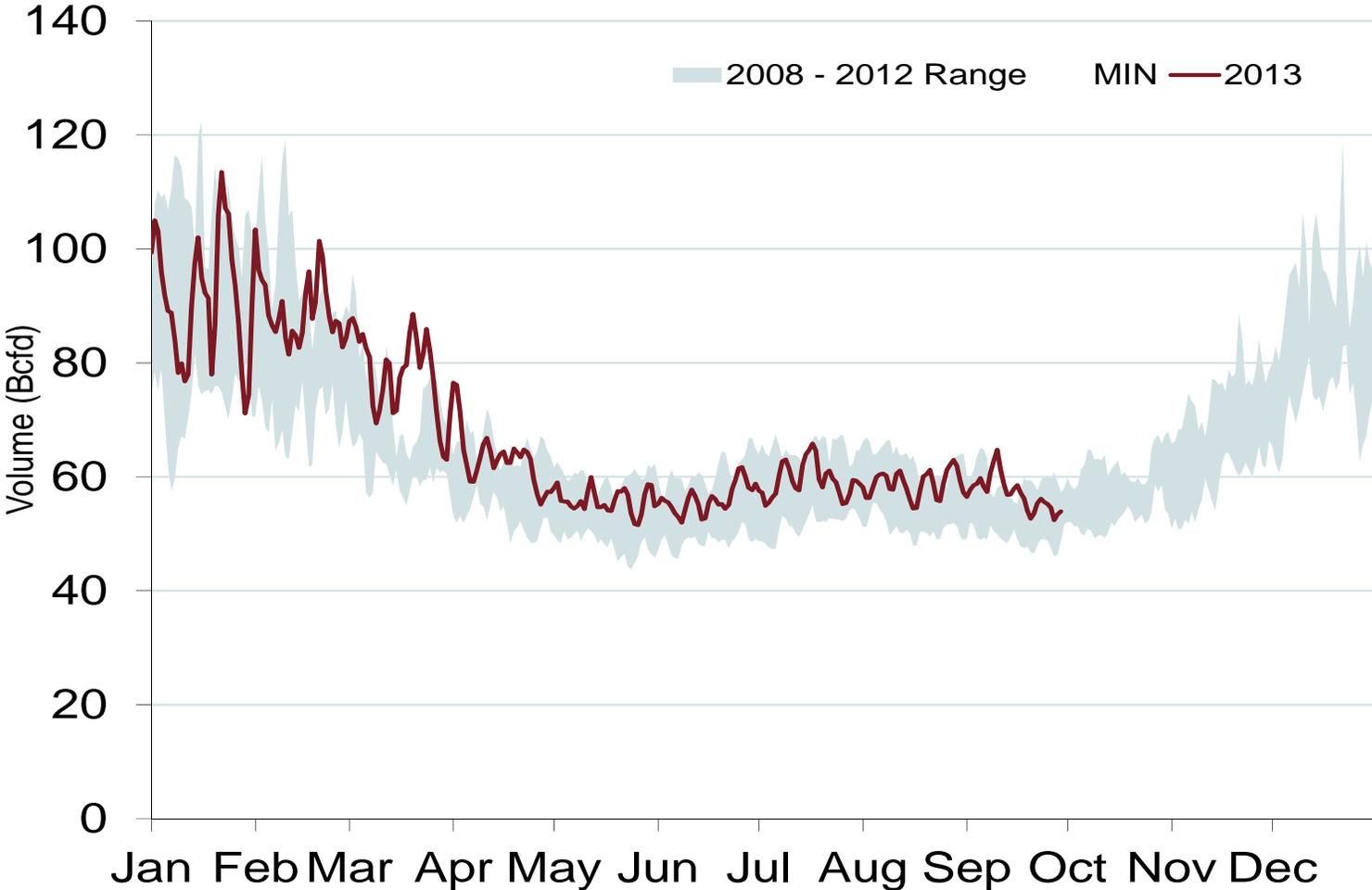
Annual U.S. Natural Gas Consumption by Sector



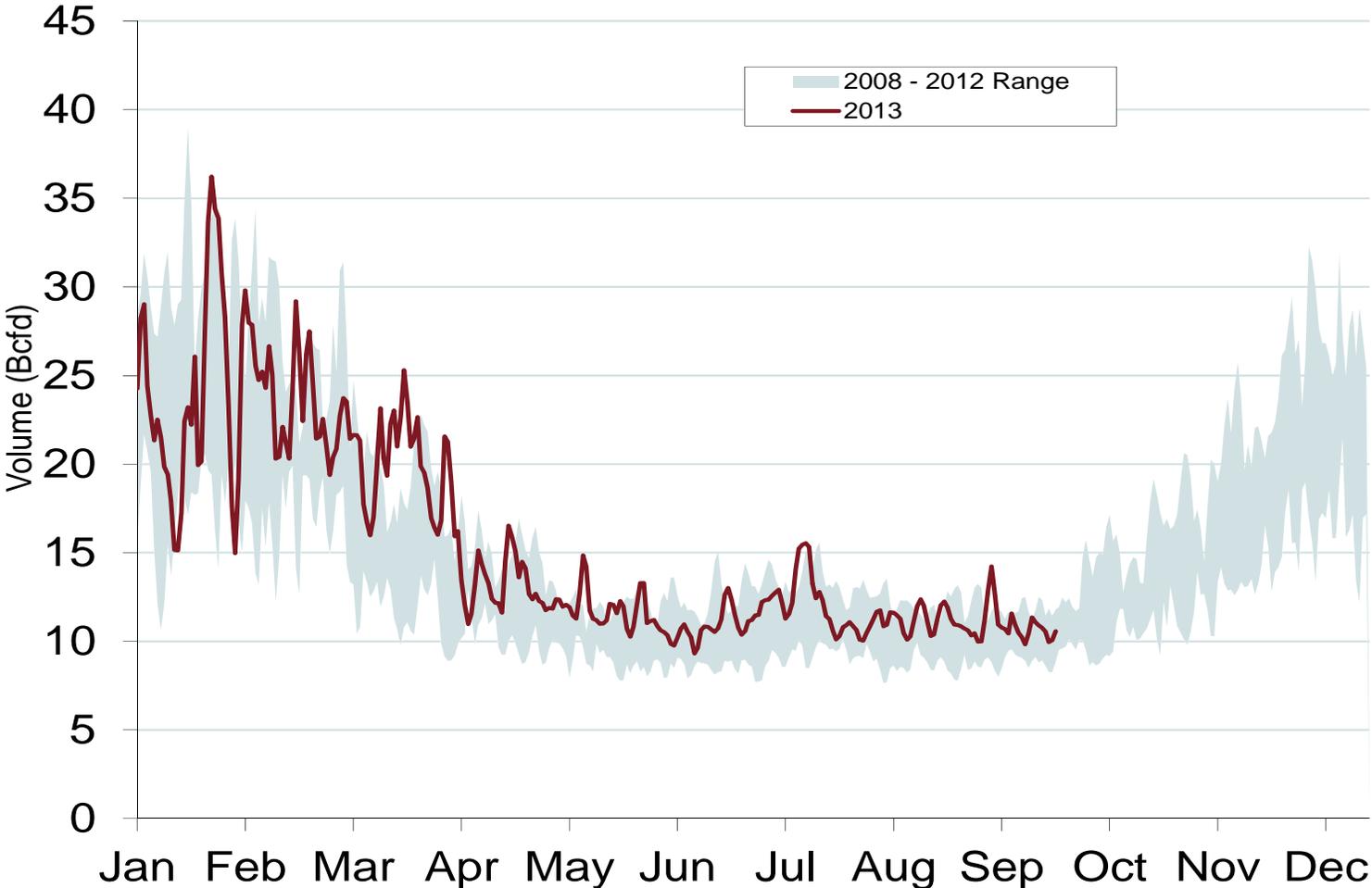
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

Total U.S. Natural Gas Demand All Sectors



Daily Northeast Natural Gas Demand All Sectors

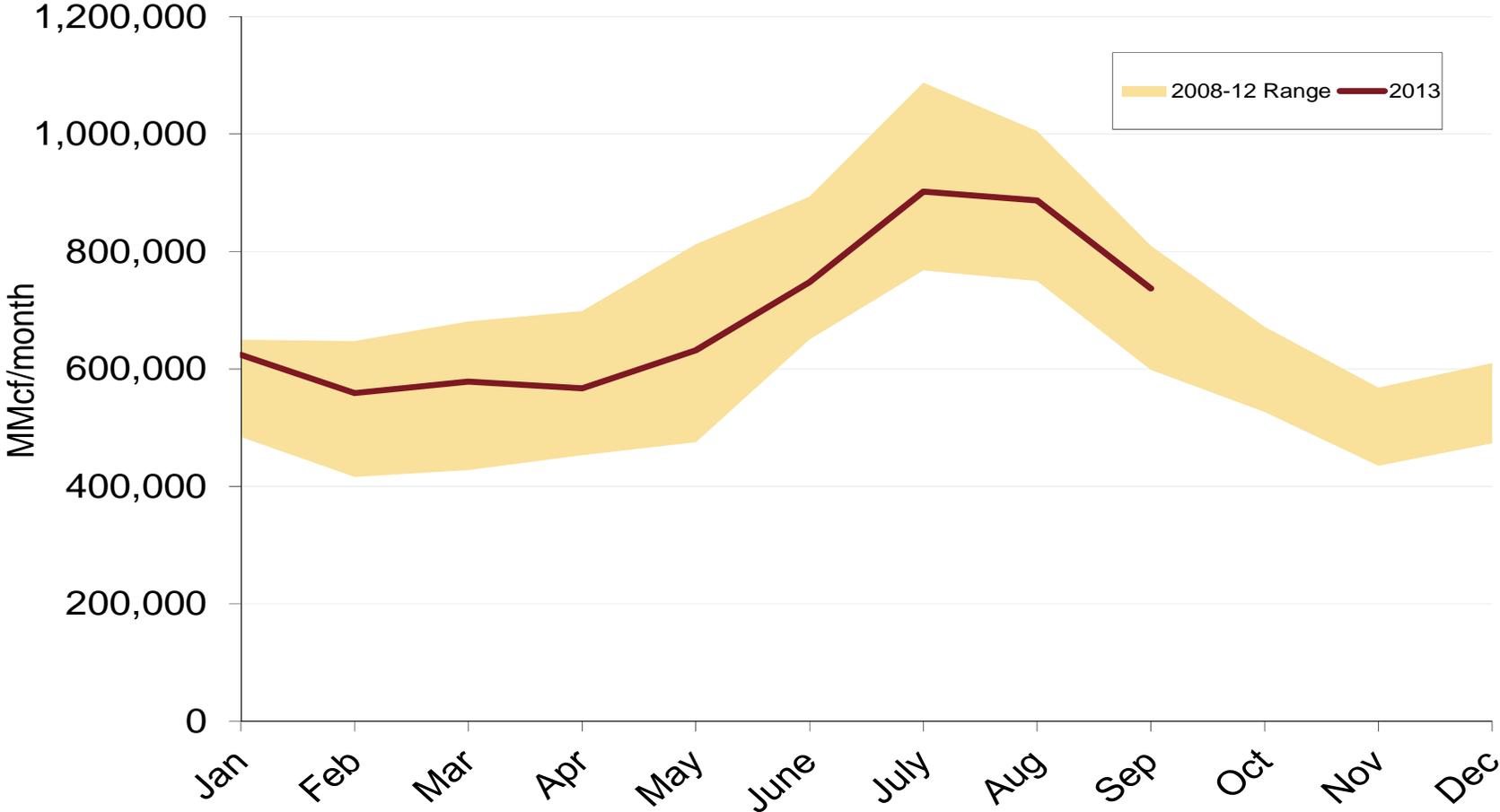


Source: Derived from *Bentek Energy* and Weekly NOAA data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

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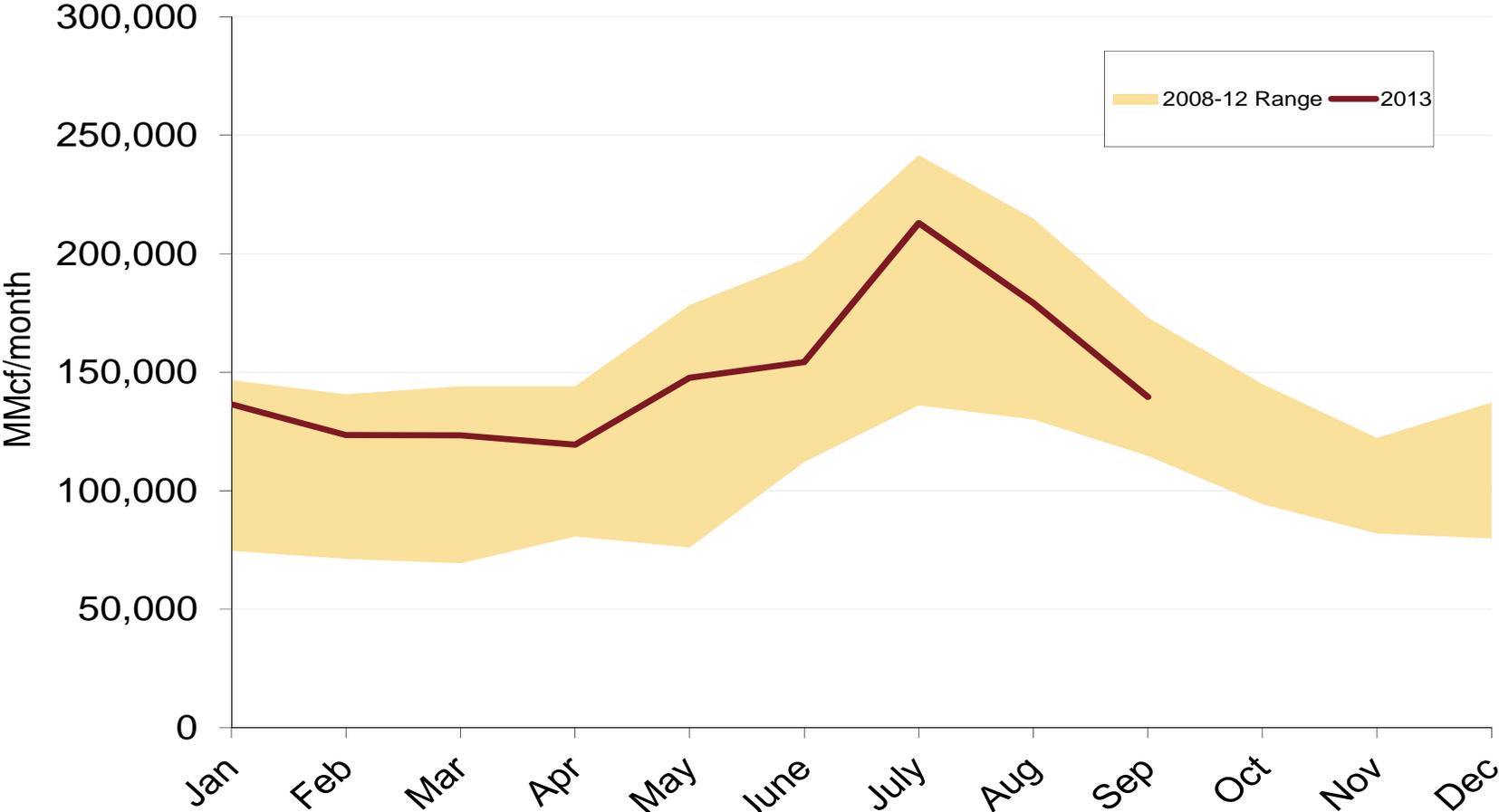
U.S. Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

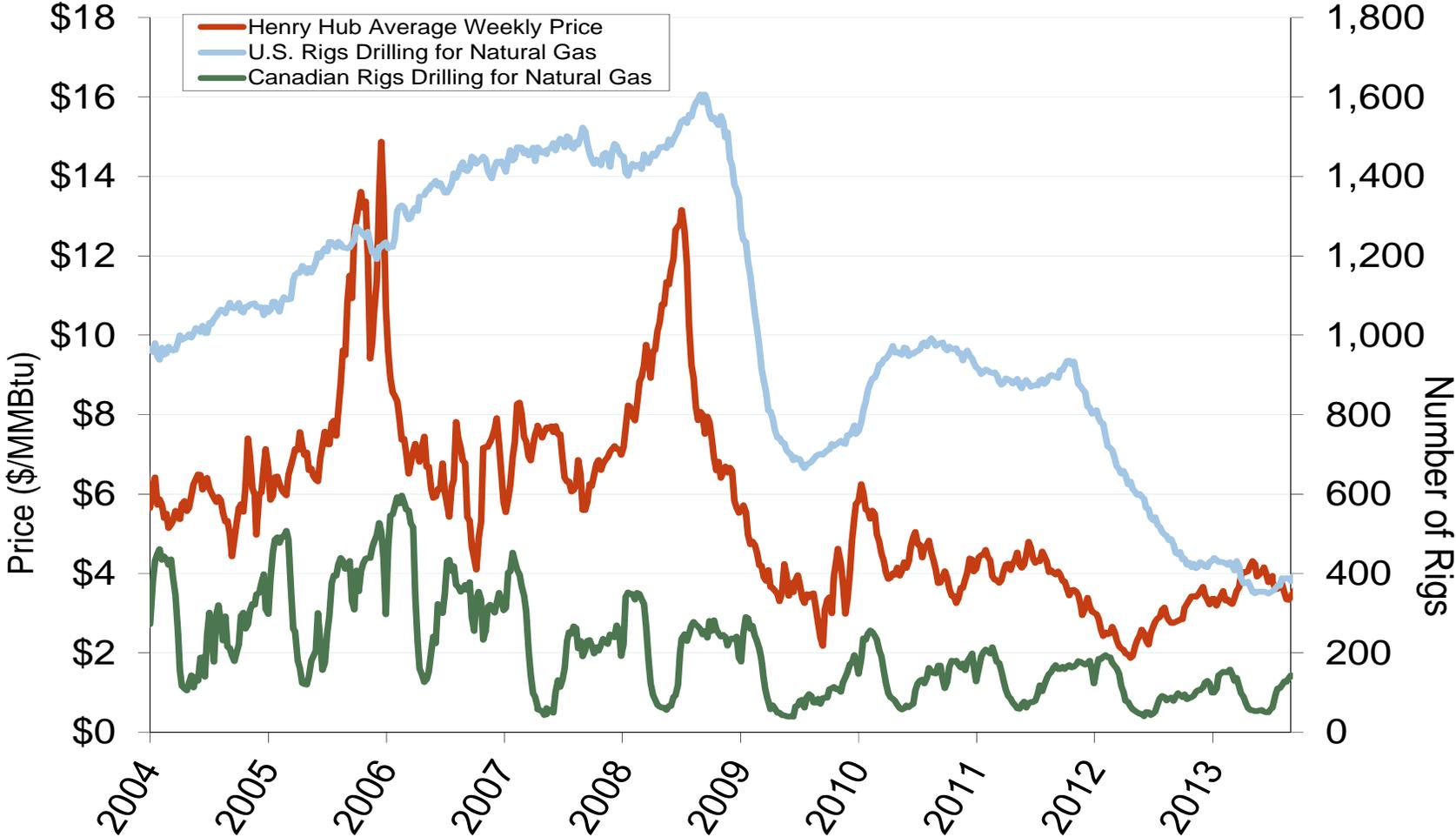
Northeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

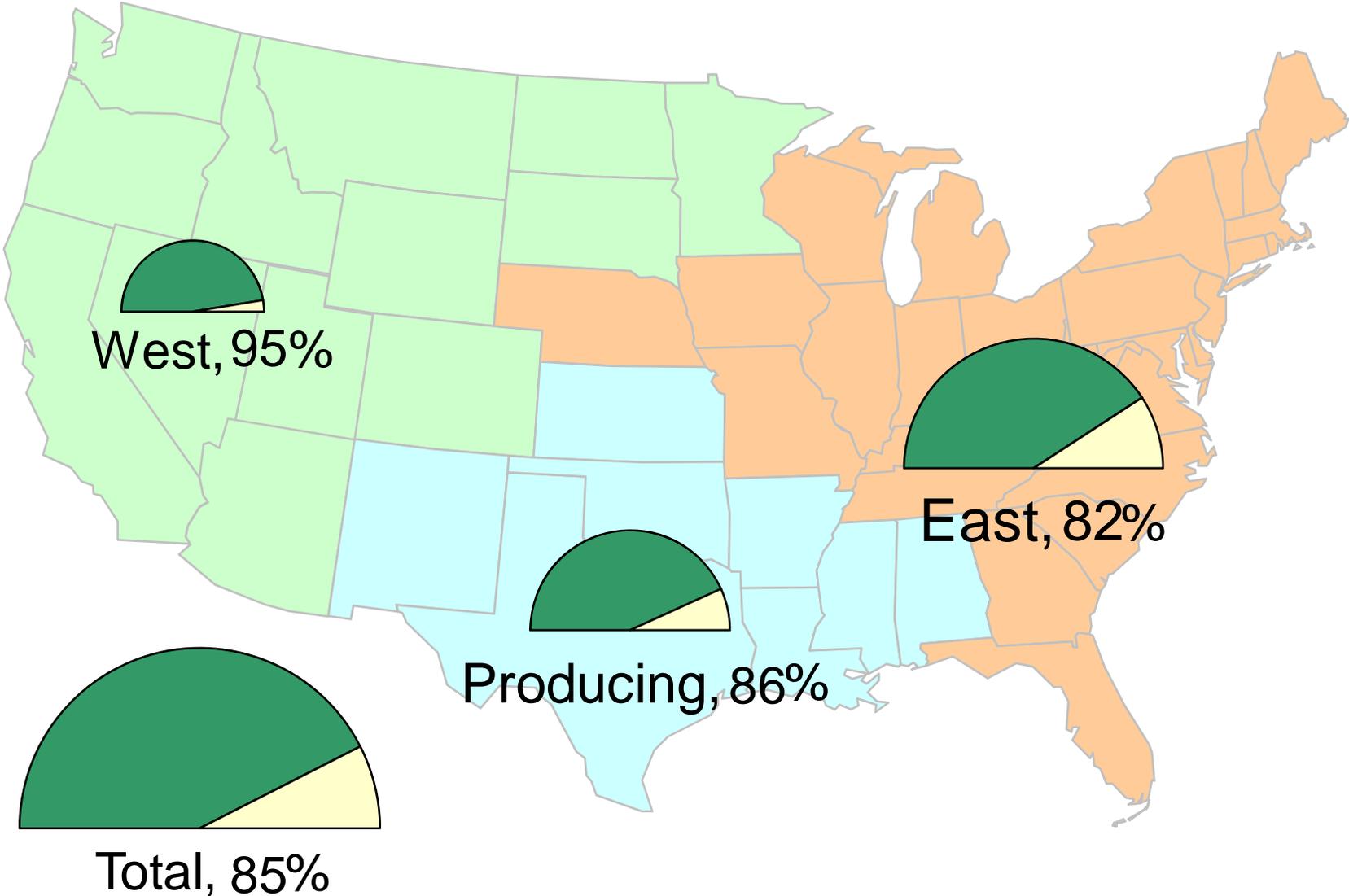
U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data
October 2013 Mid-Atlantic Snapshot Report

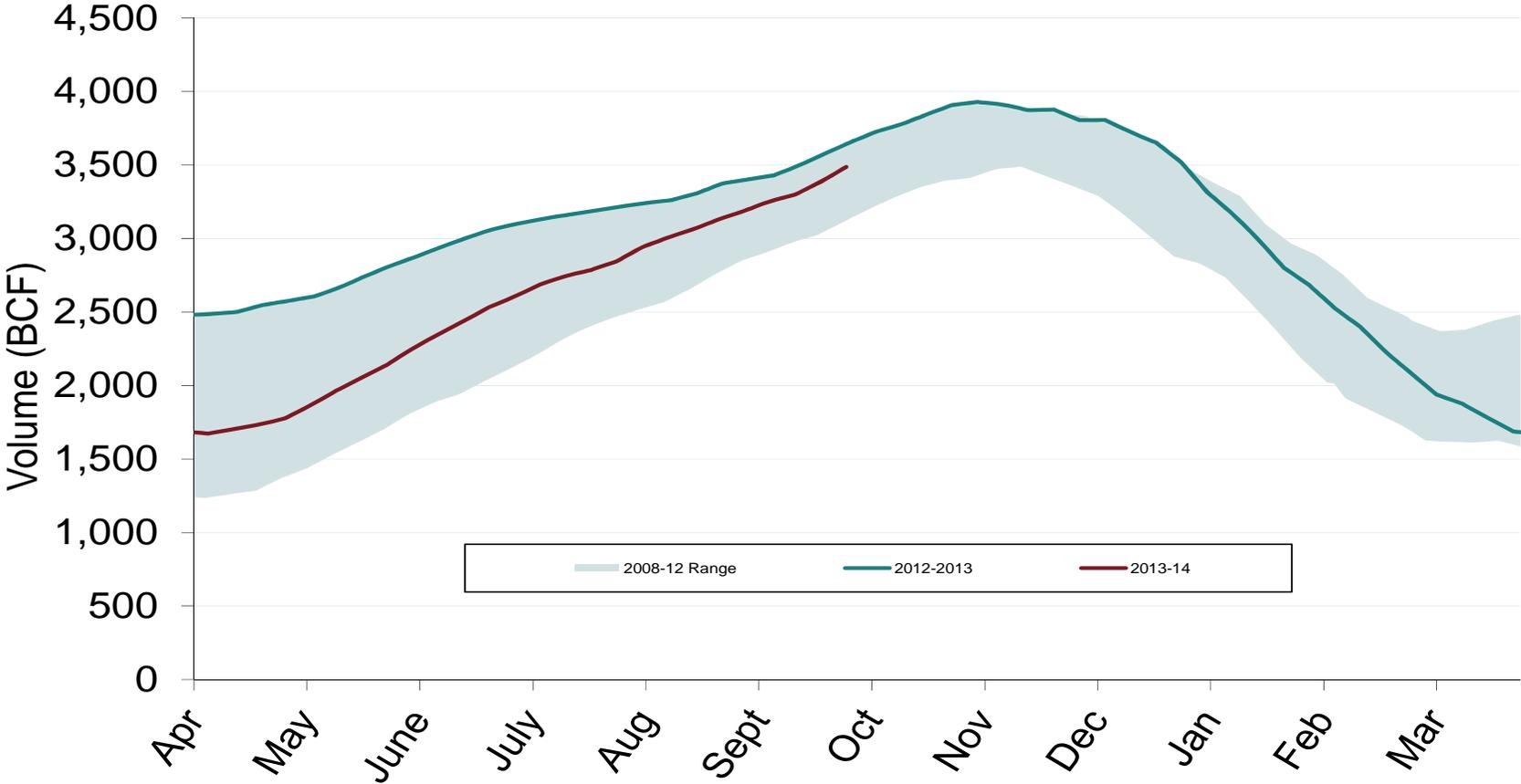
Updated: October 07, 2013

Natural Gas Storage Inventories – September 30, 2013

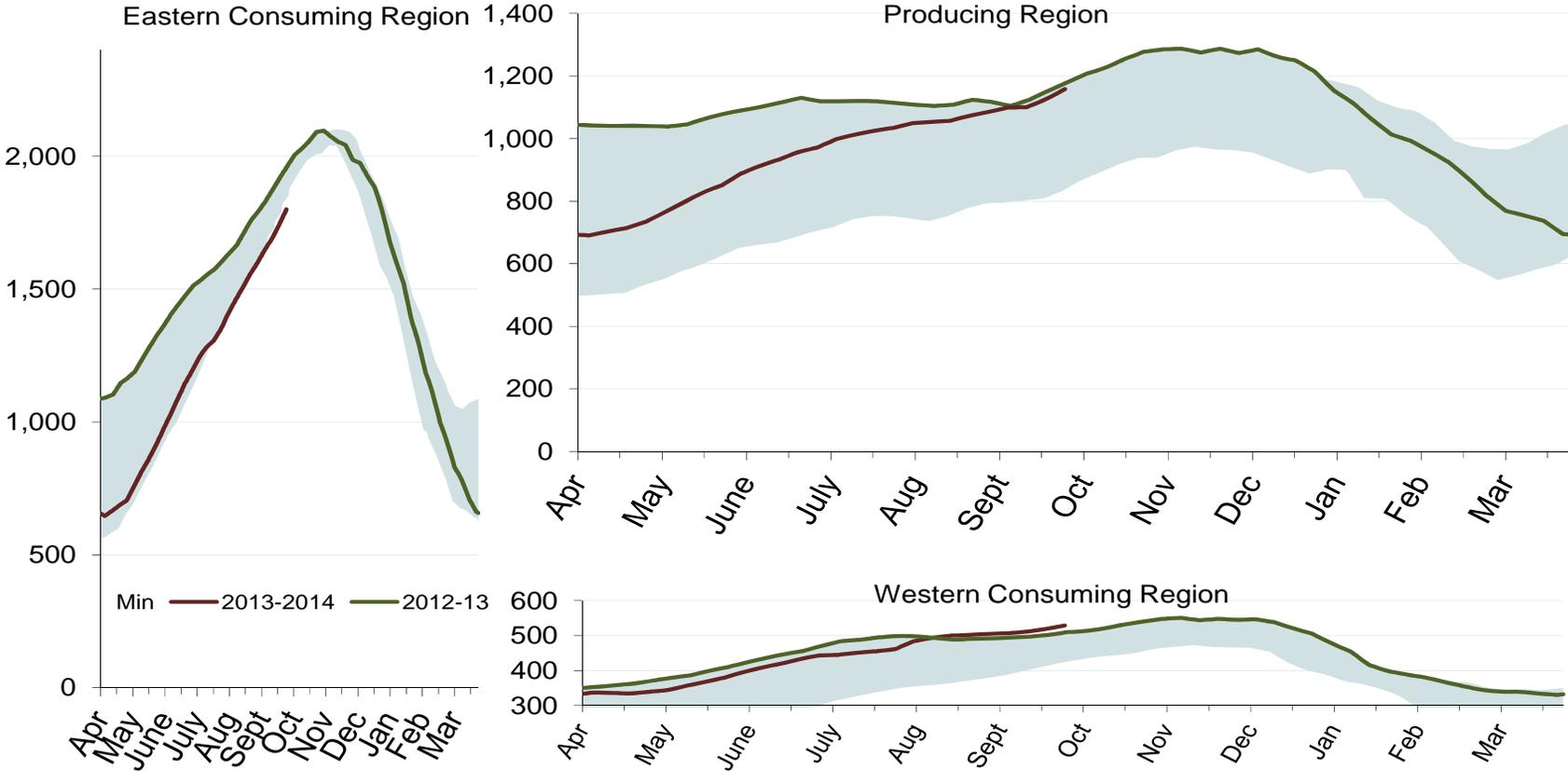


Source: Derived from EIA Storage and Estimated Working Gas Capacity data
October 2013 Mid-Atlantic Snapshot Report

Total U.S. Working Gas in Storage



Regional Totals of Working Gas in Storage



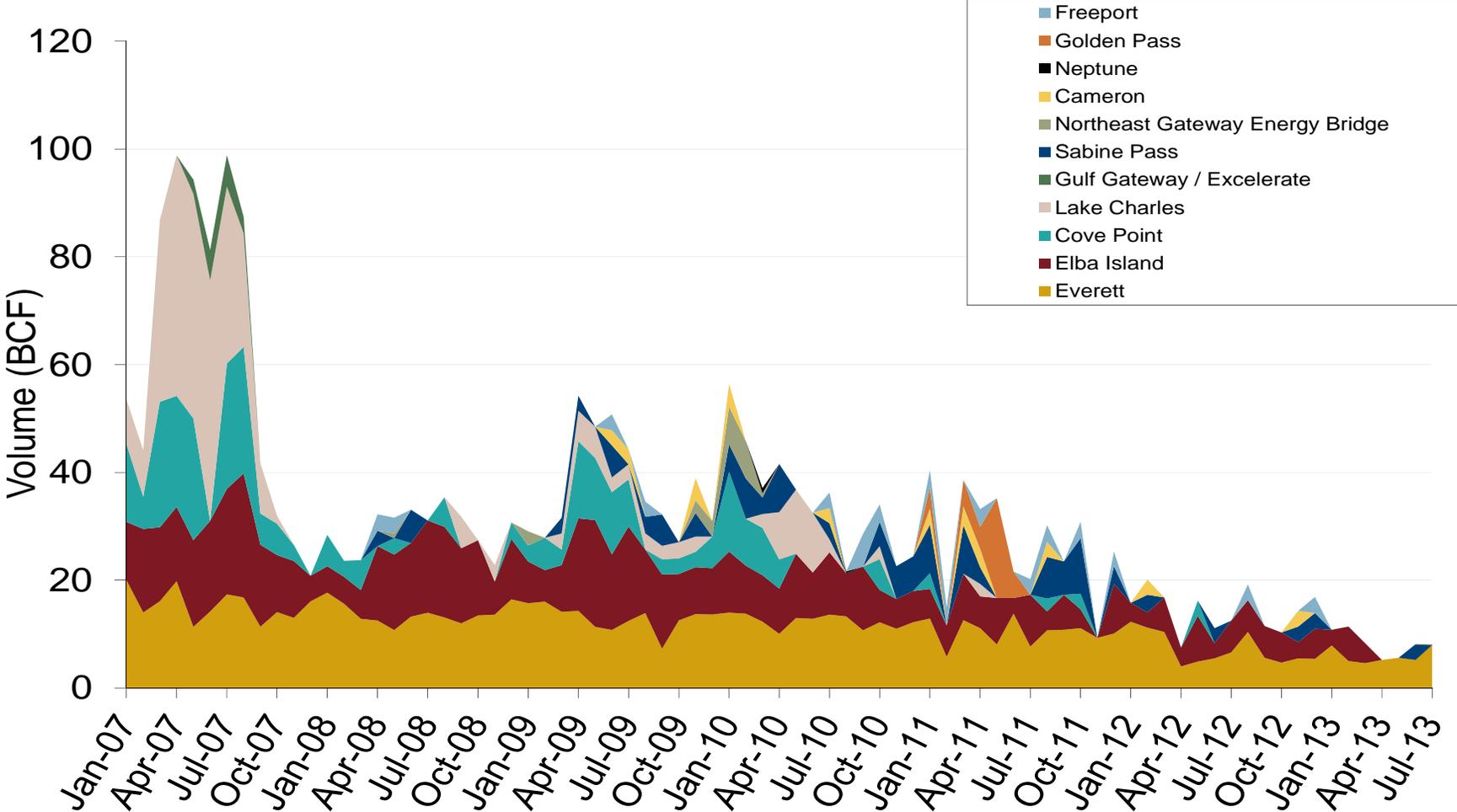
Source: Derived from EIA data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

World LNG Estimated November 2013 Landed Prices



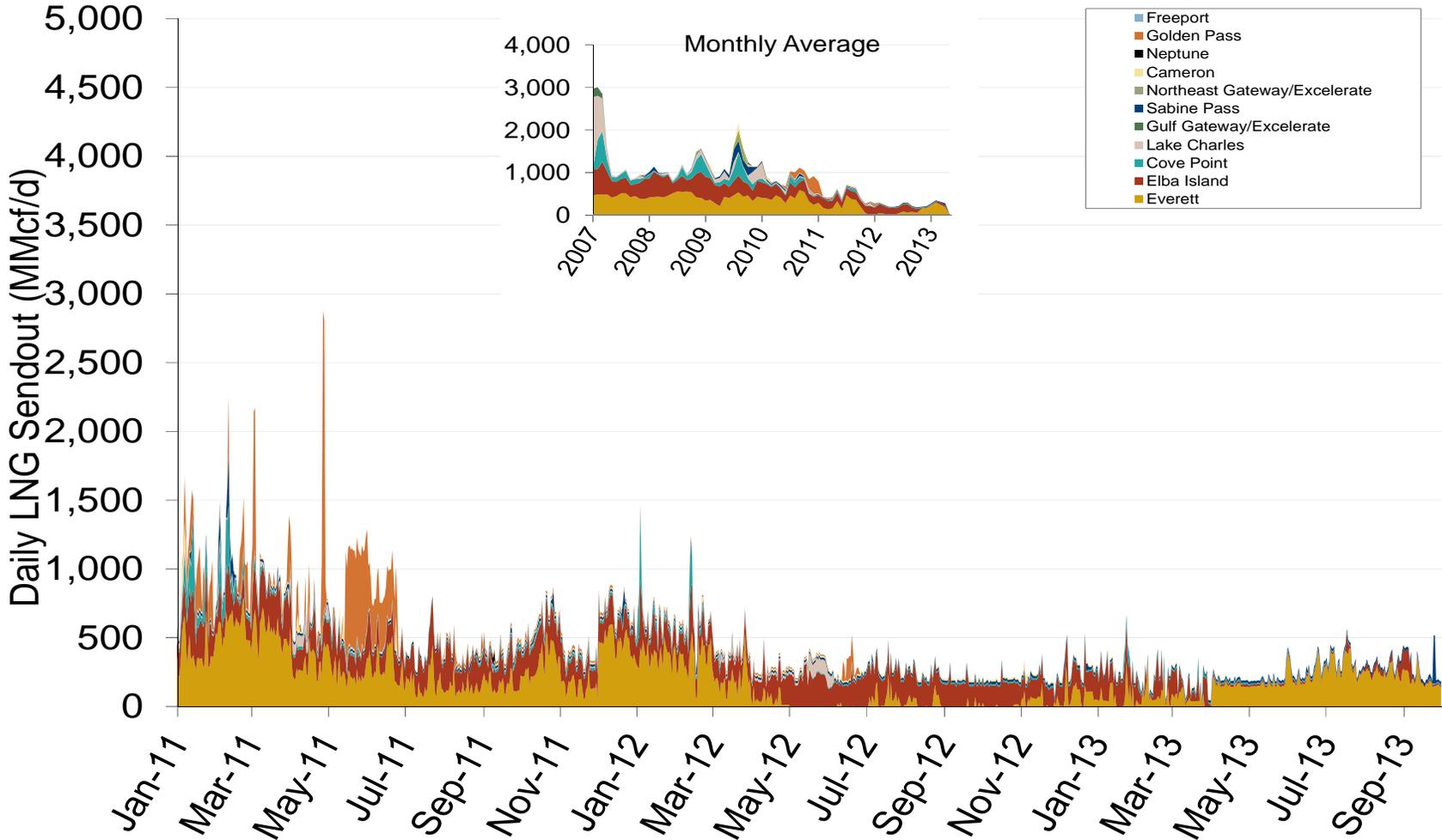
Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

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 flows to the Freeport LNG which flows via intrastate pipelines and flows to the Mystic 8 and 9 power plants.

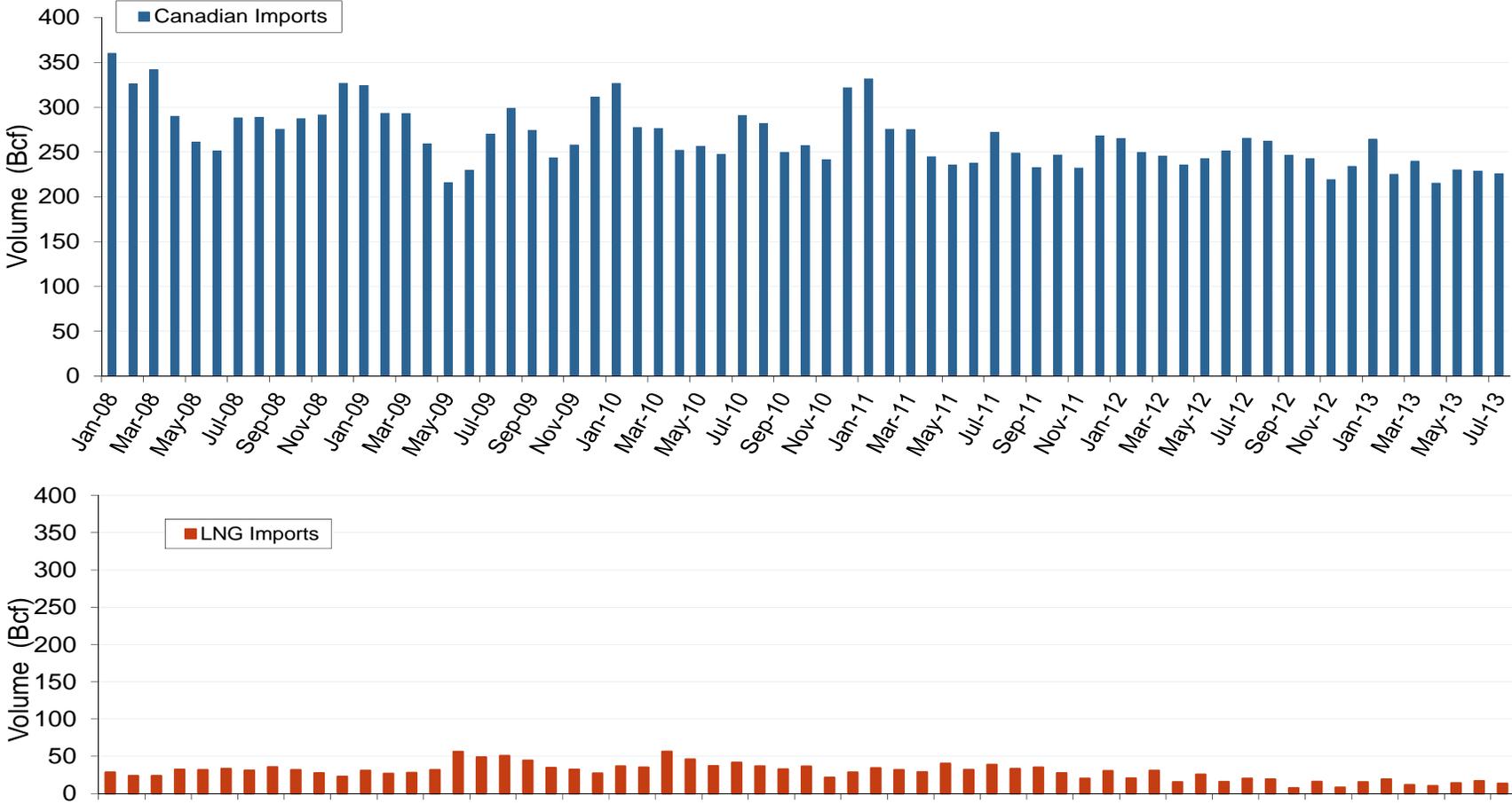
Source: Derived from *Bentek Energy* data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

Natural Gas Overview: Natural Gas Imports

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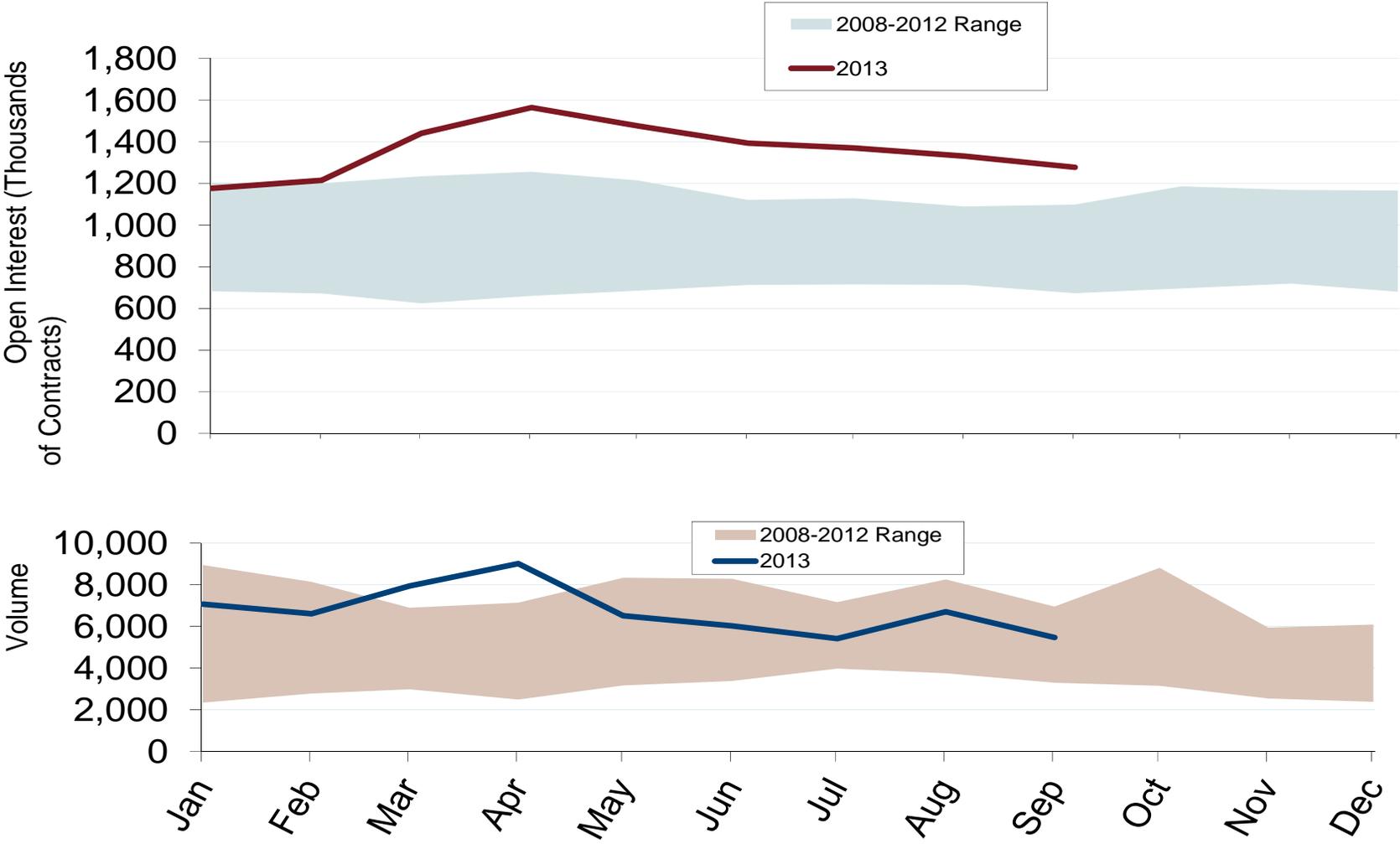
Canadian and LNG Natural Gas Imports Into the U.S.



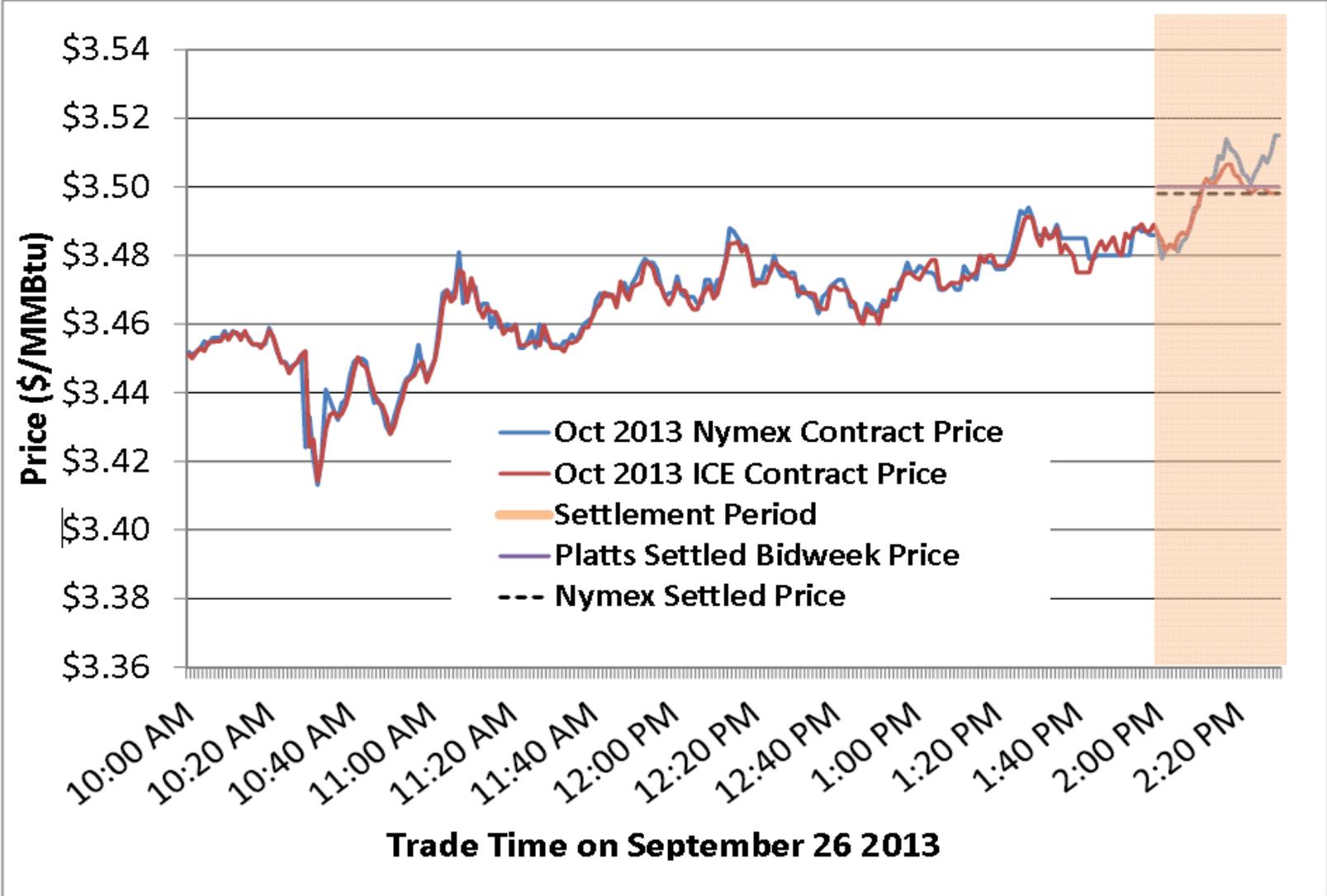
Source: EIA Natural Gas Monthly
October 2013 Mid-Atlantic Snapshot Report

Updated: October 07, 2013

Nymex NG Futures Month-End Open Interest and Monthly Volume



Nymex and ICE Contract Final Settlement - October 2013



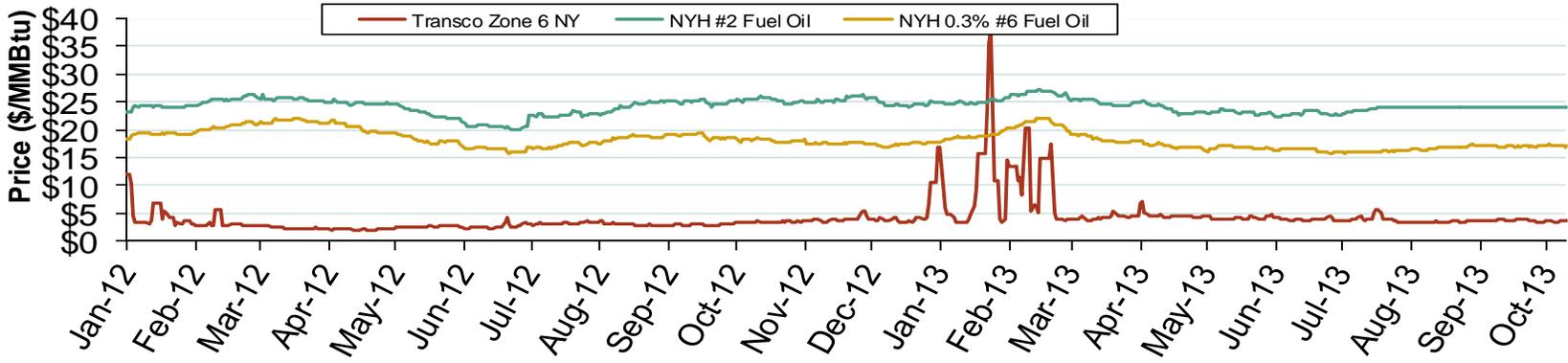
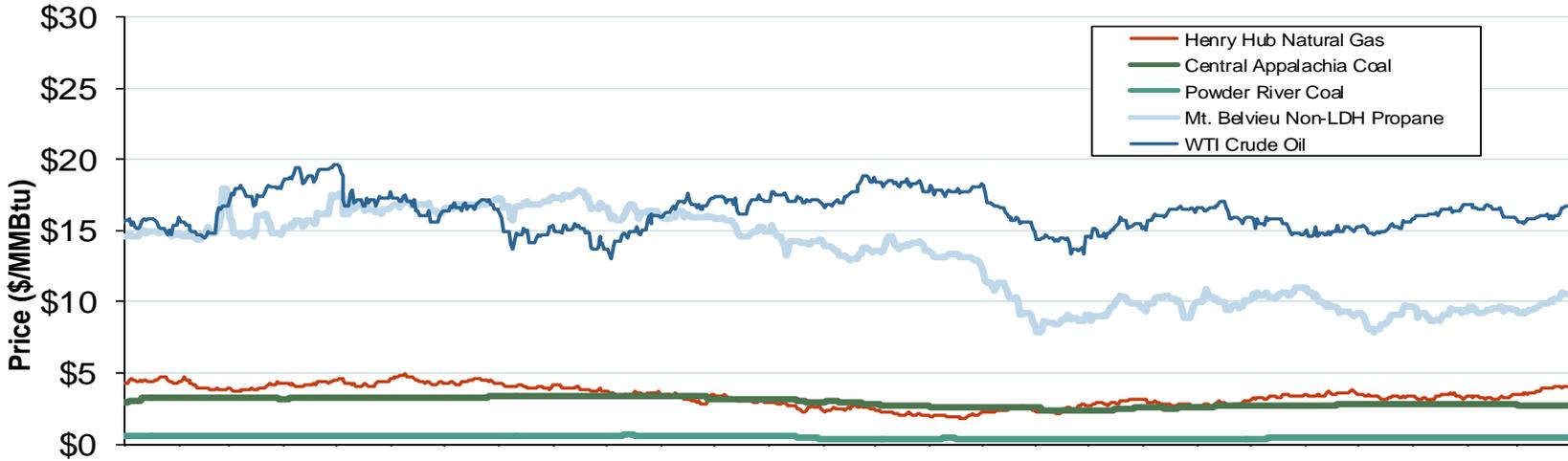
Notes: The final settlement day for this Nymex contract is three business days before the start of the contract term (which is the 1st day of the month)

Source: Derived from Nymex and ICE data

Other Fuels Market: Fossil Fuel Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Oil, Coal, Natural Gas and Propane Daily Spot Prices

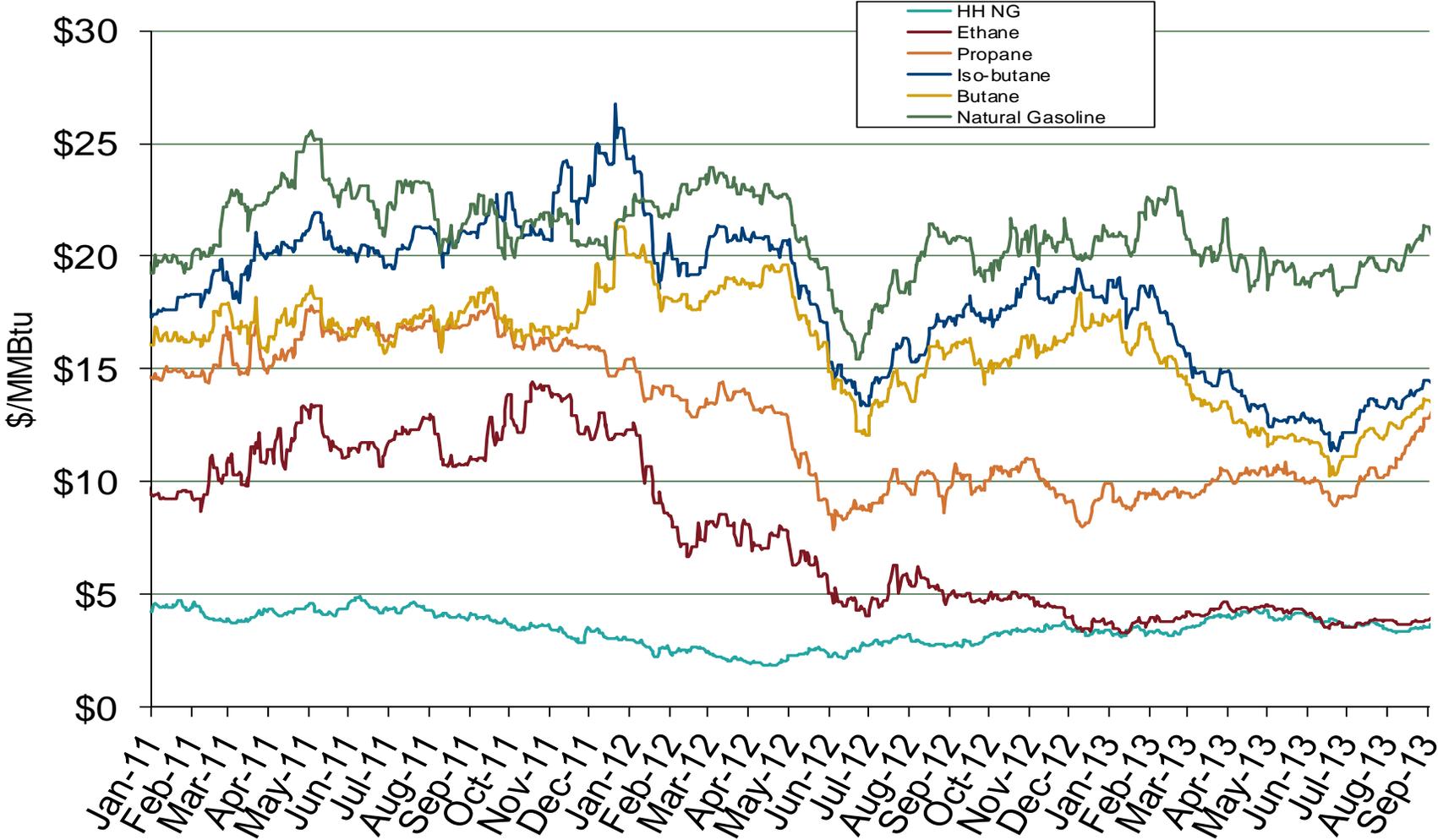


Notes: Coal prices are quoted in \$/ton. Conversion factors to \$/MMBtu are based on contract specifications of 12,000 btus/pound for Central Appalachian coal and 8800 btus/pound for Powder River Basin coal

Source: Derived from ICE and Bloomberg data
October 2013 Mid-Atlantic Snapshot Report

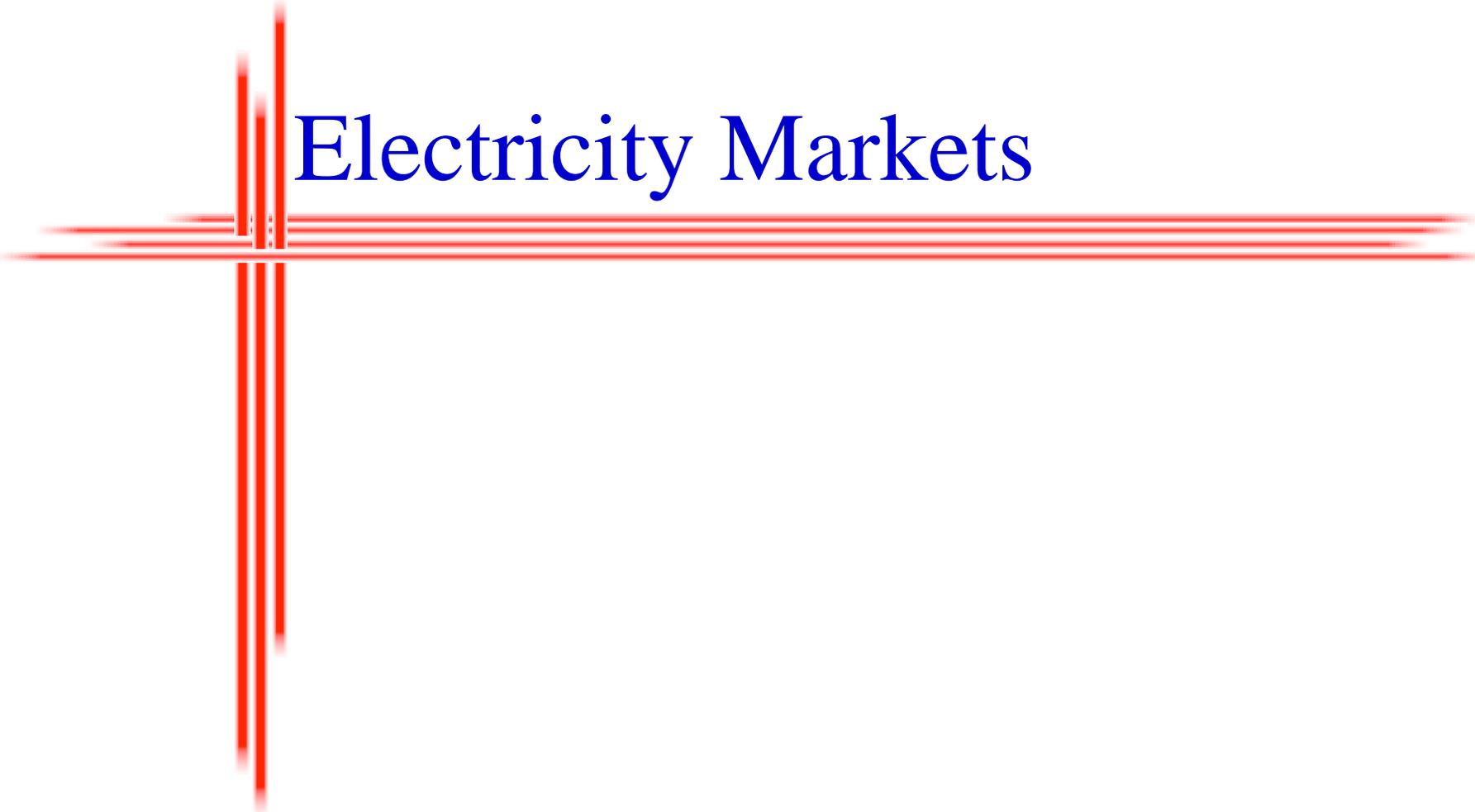
Updated October 10, 2013

U.S. Natural Gas vs. Natural Gas Liquids (NGL) Prices



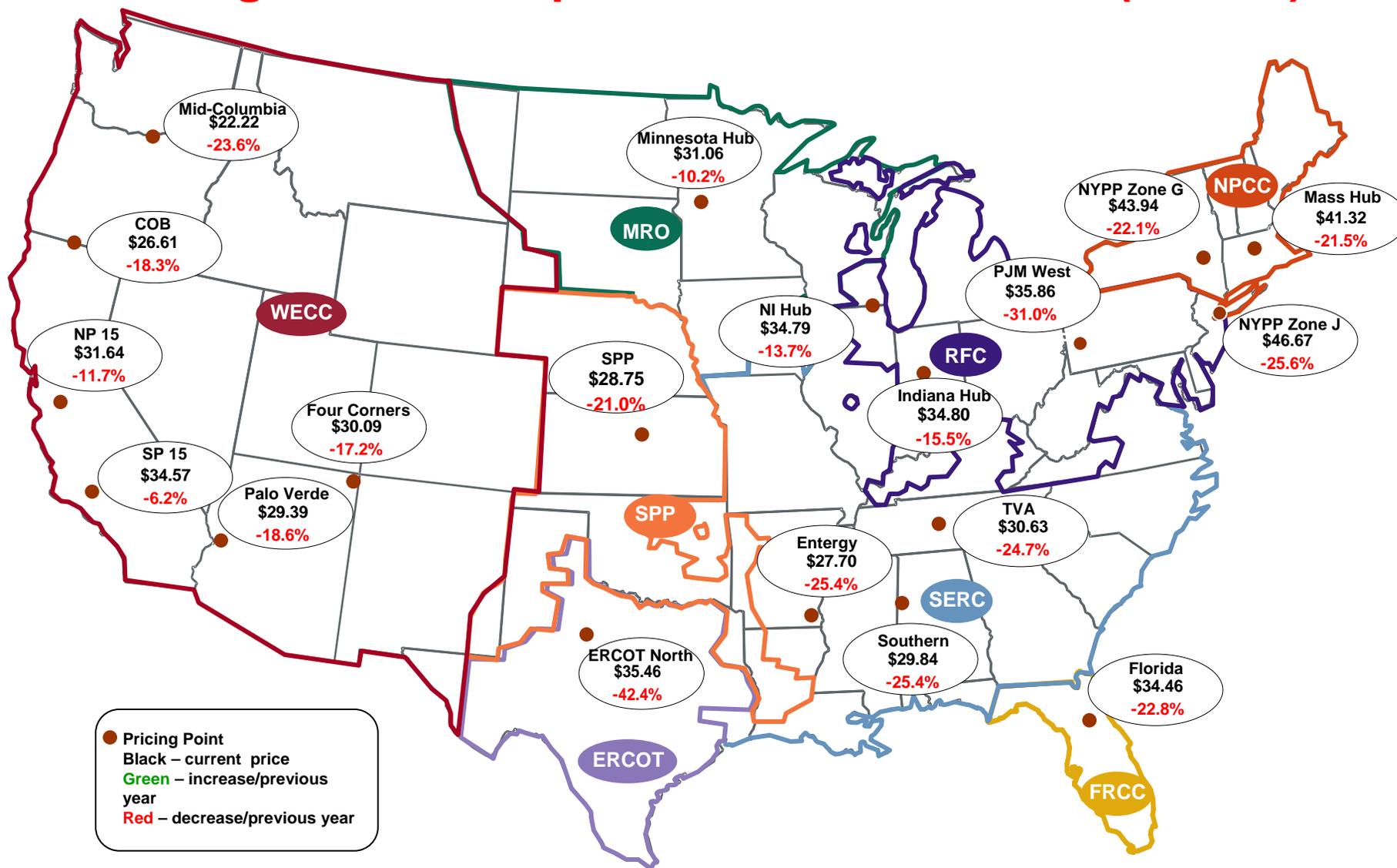
Source: Derived from Bloomberg Data
October 2013 Mid-Atlantic Snapshot Report

Updated October 10, 2013



Electricity Markets

Average On-Peak Spot Electric Prices 2012 (\$/MWh)



Regional Spot Prices: 2010-2012

| | On-peak Spot Prices (\$/MWh) | | | | | Off-peak Spot Prices (\$/MWh) | | | | |
|----------------------|------------------------------|-------|-------|-------------------|-------------------|-------------------------------|-------|-------|-------------------|-------------------|
| | 2010 | 2011 | 2012 | % Change 10-11 | % Change 11-12 | 2010 | 2011 | 2012 | % Change 10-11 | % Change 11-12 |
| Northeast | | | | | | | | | | |
| Mass Hub | 56.18 | 52.64 | 41.32 | -6.3% | -21.5% | 38.84 | 37.95 | 28.36 | -2.3% | -25.3% |
| Ny Zone G | 59.48 | 56.41 | 43.94 | -5.2% | -22.1% | 39.47 | 38.26 | 28.23 | -3.1% | -26.2% |
| NY Zone J | 65.76 | 62.71 | 46.67 | -4.6% | -25.6% | 40.37 | 39.19 | 28.63 | -2.9% | -27.0% |
| NY Zone A | 43.89 | 41.52 | 35.86 | -5.4% | -13.6% | 34.05 | 32.65 | 24.93 | -4.1% | -23.6% |
| PJM West | 53.68 | 51.99 | 35.86 | -3.2% | -31.0% | 35.81 | 33.94 | 26.29 | -5.2% | -22.5% |
| Southeast | | | | | | | | | | |
| VACAR | 43.24 | 44.44 | 32.65 | 2.8% | -26.5% | 29.18 | 30.23 | 22.86 | 3.6% | -24.4% |
| Southern | 42.61 | 39.97 | 29.83 | -6.2% | -25.4% | 29.51 | 27.98 | 21.51 | -5.2% | -23.1% |
| TVA | 41.79 | 40.68 | 30.63 | -2.7% | -24.7% | 27.43 | 27.55 | 21.25 | 0.4% | -22.9% |
| Florida | 50.81 | 44.62 | 34.46 | -12.2% | -22.8% | 31.59 | 31.27 | 23.49 | -1.0% | -24.9% |
| Entergy | 40.07 | 37.14 | 27.70 | -7.3% | -25.4% | 24.87 | 24.52 | 19.16 | -1.4% | -21.9% |
| Midwest | | | | | | | | | | |
| Indiana* | 41.51 | 41.17 | 34.80 | -0.8% | -15.5% | 24.34 | 25.86 | 22.14 | 6.2% | -14.4% |
| Michigan Hub | 43.68 | 42.73 | 36.27 | -2.2% | -15.1% | 26.84 | 27.52 | 24.10 | 2.5% | -12.4% |
| Minnesota Hub | 36.86 | 34.57 | 31.06 | -6.2% | -10.2% | 17.61 | 16.39 | 17.49 | -6.9% | 6.7% |
| NI Hub | 40.85 | 40.31 | 34.79 | -1.3% | -13.7% | 21.70 | 22.78 | 21.04 | 5.0% | -7.7% |
| Illinois Hub | 38.22 | 38.12 | 32.12 | -0.2% | -15.8% | 20.44 | 22.20 | 20.00 | 8.6% | -9.9% |
| MA PP South | 37.60 | 35.48 | 29.42 | -5.6% | -17.1% | 21.76 | 19.90 | 18.93 | -8.5% | -4.9% |
| South Central | | | | | | | | | | |
| SPP North | 38.71 | 36.41 | 28.75 | -5.9% | -21.0% | 21.51 | 20.42 | 18.73 | -5.1% | -8.3% |
| ERCOT North | 41.15 | 61.55 | 35.46 | 49.6% | -42.4% | 26.97 | 25.74 | 18.63 | -4.6% | -27.6% |
| Southwest | | | | | | | | | | |
| Four Corners | 39.68 | 36.34 | 30.09 | -8.4% | -17.2% | 27.02 | 20.45 | 20.64 | -24.3% | 0.9% |
| Palo Verde | 38.76 | 36.10 | 29.39 | -6.9% | -18.6% | 27.72 | 21.57 | 20.78 | -22.2% | -3.7% |
| Mead | 40.11 | 36.92 | 30.75 | -8.0% | -16.7% | 29.37 | 22.34 | 21.97 | -23.9% | -1.7% |
| Northwest | | | | | | | | | | |
| Mid-C | 35.90 | 29.10 | 22.22 | -19.0% | -23.6% | 29.19 | 19.98 | 18.33 | -31.6% | -8.2% |
| COB | 38.84 | 32.55 | 26.61 | -16.2% | -18.3% | 29.86 | 19.92 | 17.92 | -33.3% | -10.0% |
| California | | | | | | | | | | |
| NP15 | 40.08 | 35.81 | 31.64 | -10.6% | -11.7% | 29.89 | 21.26 | 22.53 | -28.9% | 6.0% |
| SP15 | 40.21 | 36.87 | 34.57 | -8.3% | -6.2% | 29.14 | 21.78 | 23.28 | -25.3% | 6.9% |

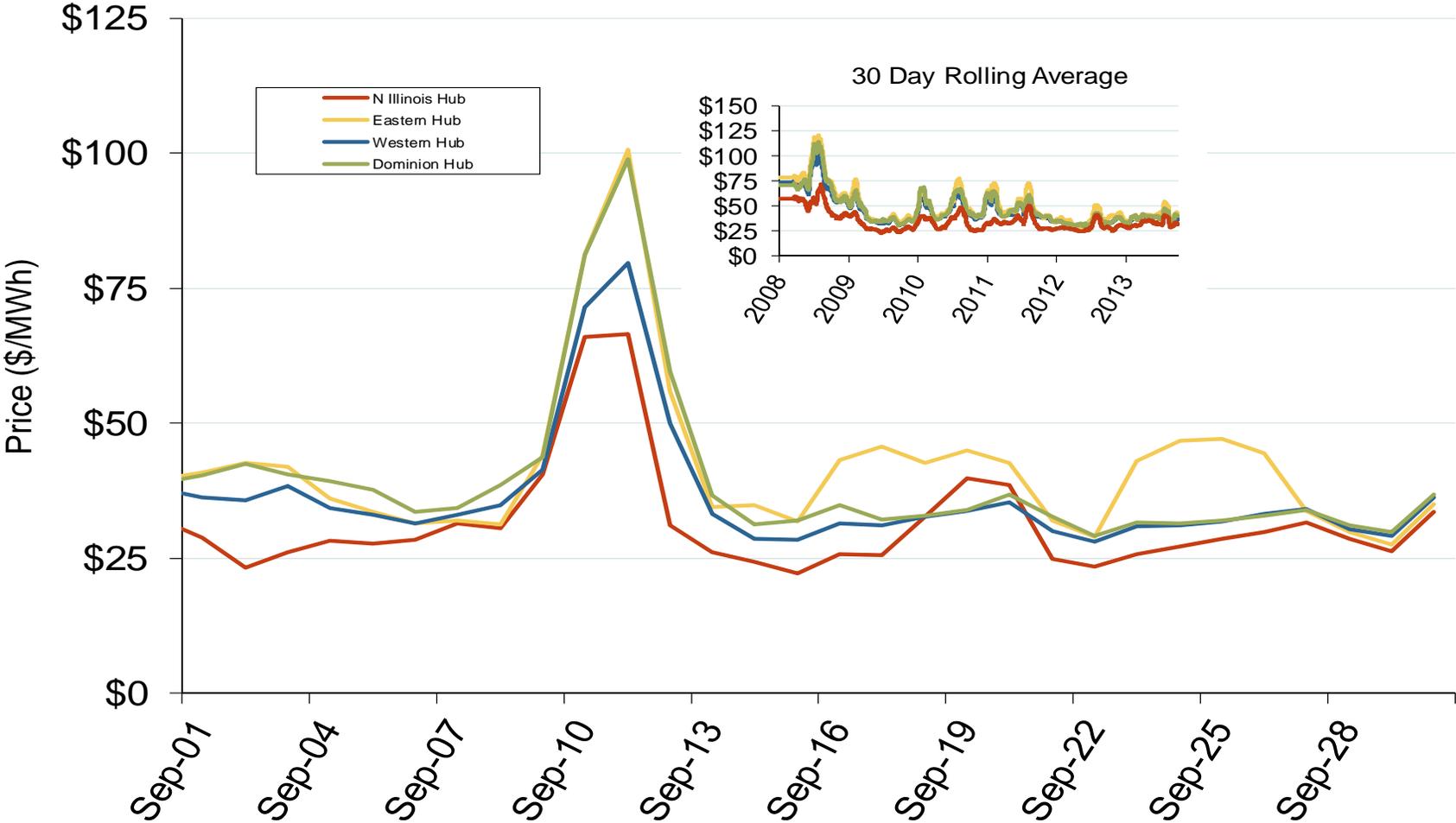
Note: Effective January 1, 2012, Platts replaced the Cinergy Hub with the Indiana Hub.

October 2013 Mid-Atlantic Snapshot Report

PJM Electric Market: Last Month's RTO Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

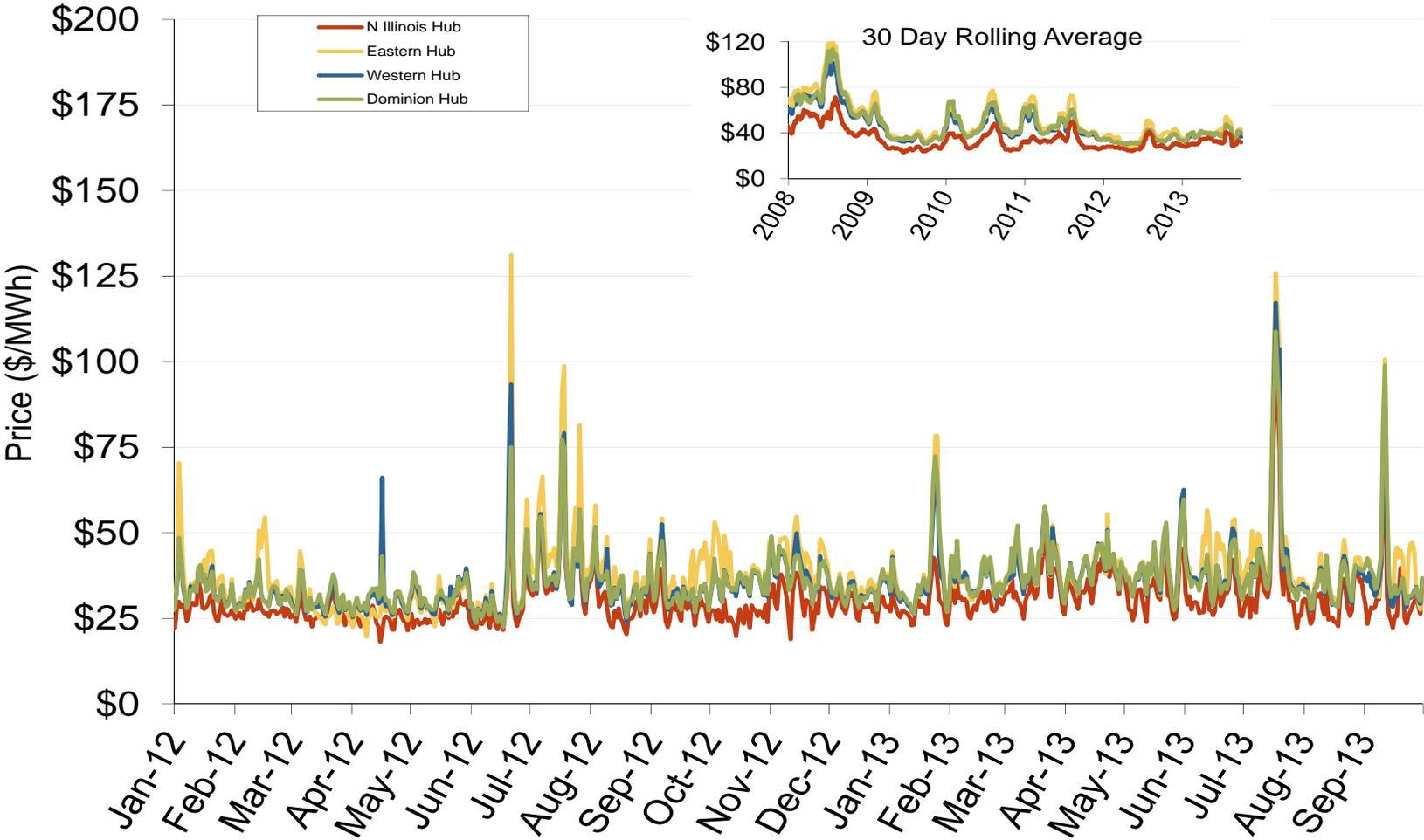
Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 10, 2013

Daily Average of PJM Day-Ahead Prices - All Hours



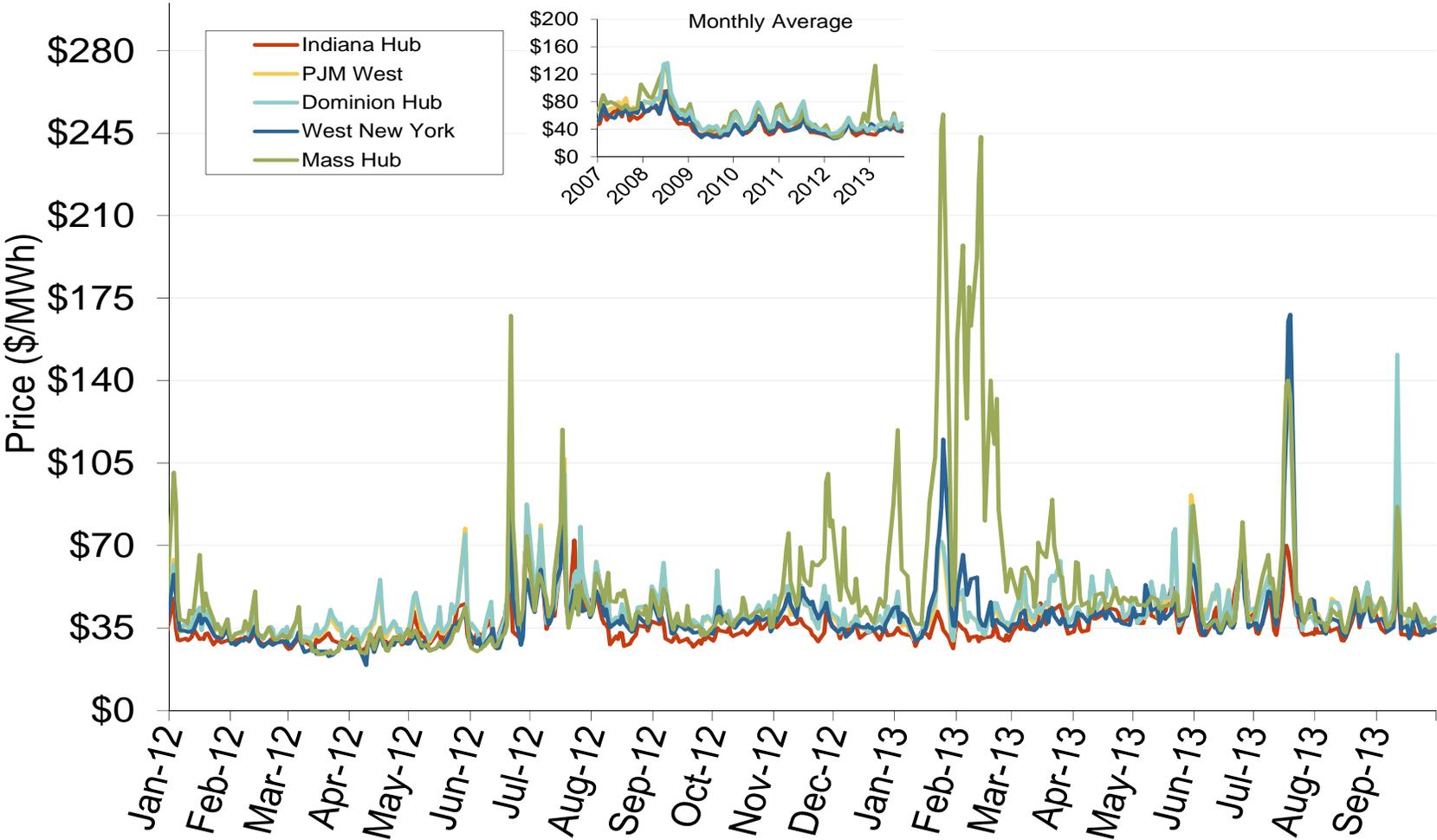
Source: Derived from Bloomberg data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 11, 2013

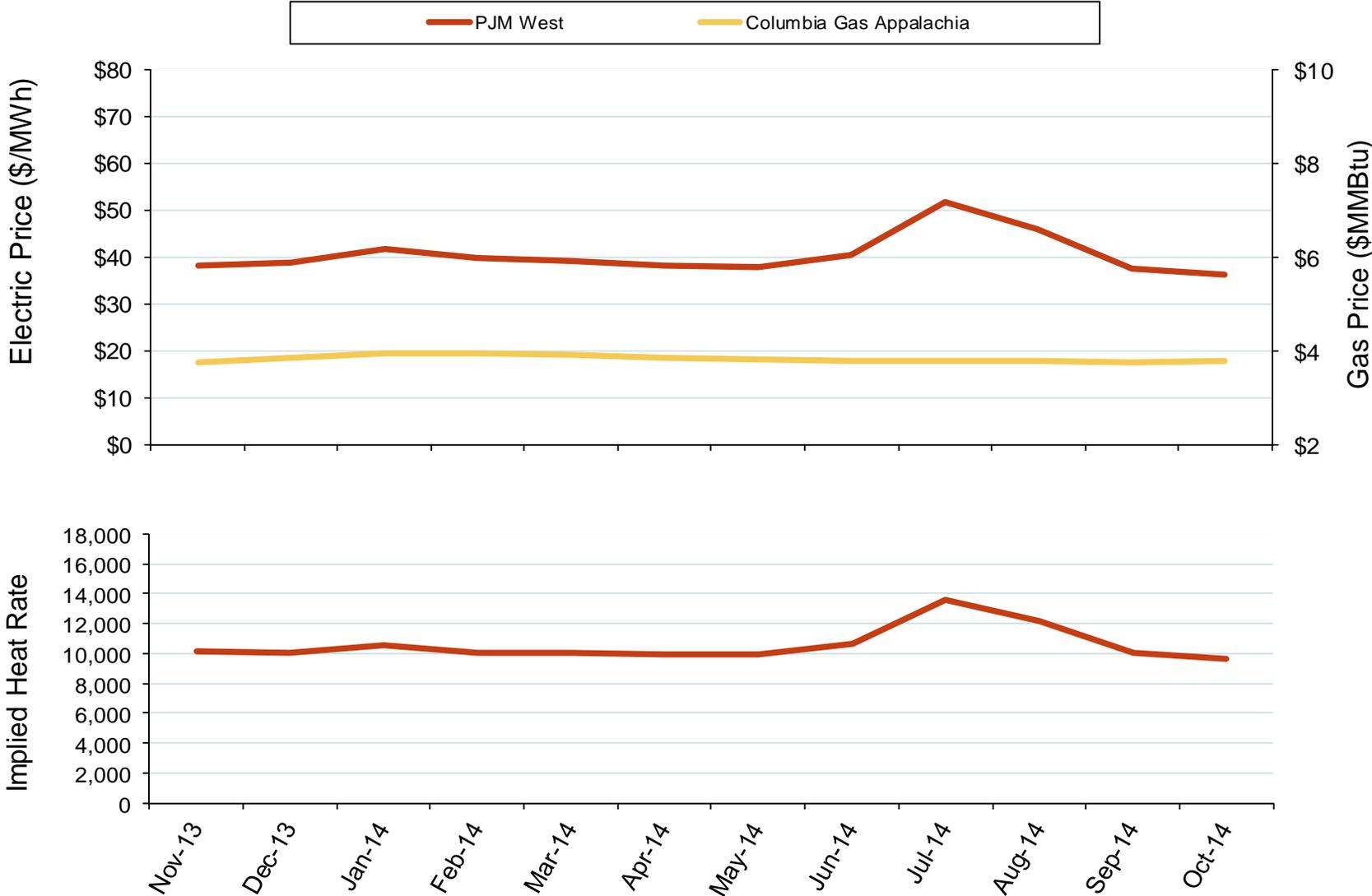
PJM Annual Average Bilateral Prices

| Annual Average Day Ahead On Peak Prices (\$/MWh) | | | | | | |
|--|----------|---------|---------|---------|---------|------------|
| | 2008 | 2009 | 2010 | 2011 | 2012 | 5-Year Avg |
| Mass Hub | \$91.55 | \$46.24 | \$56.18 | \$52.64 | \$42.06 | \$57.75 |
| Ny Zone G | \$100.99 | \$49.80 | \$59.48 | \$56.41 | \$44.35 | \$62.22 |
| NY Zone J | \$112.63 | \$55.77 | \$65.76 | \$62.71 | \$46.95 | \$68.79 |
| NY Zone A | \$68.34 | \$35.54 | \$43.89 | \$41.52 | \$35.82 | \$45.03 |
| PJM West | \$83.70 | \$44.60 | \$53.68 | \$51.99 | \$40.86 | \$54.98 |

Eastern Daily Index Day-Ahead On-Peak Prices



PJM West Electric Forward Price Curves and Implied Heat Rates

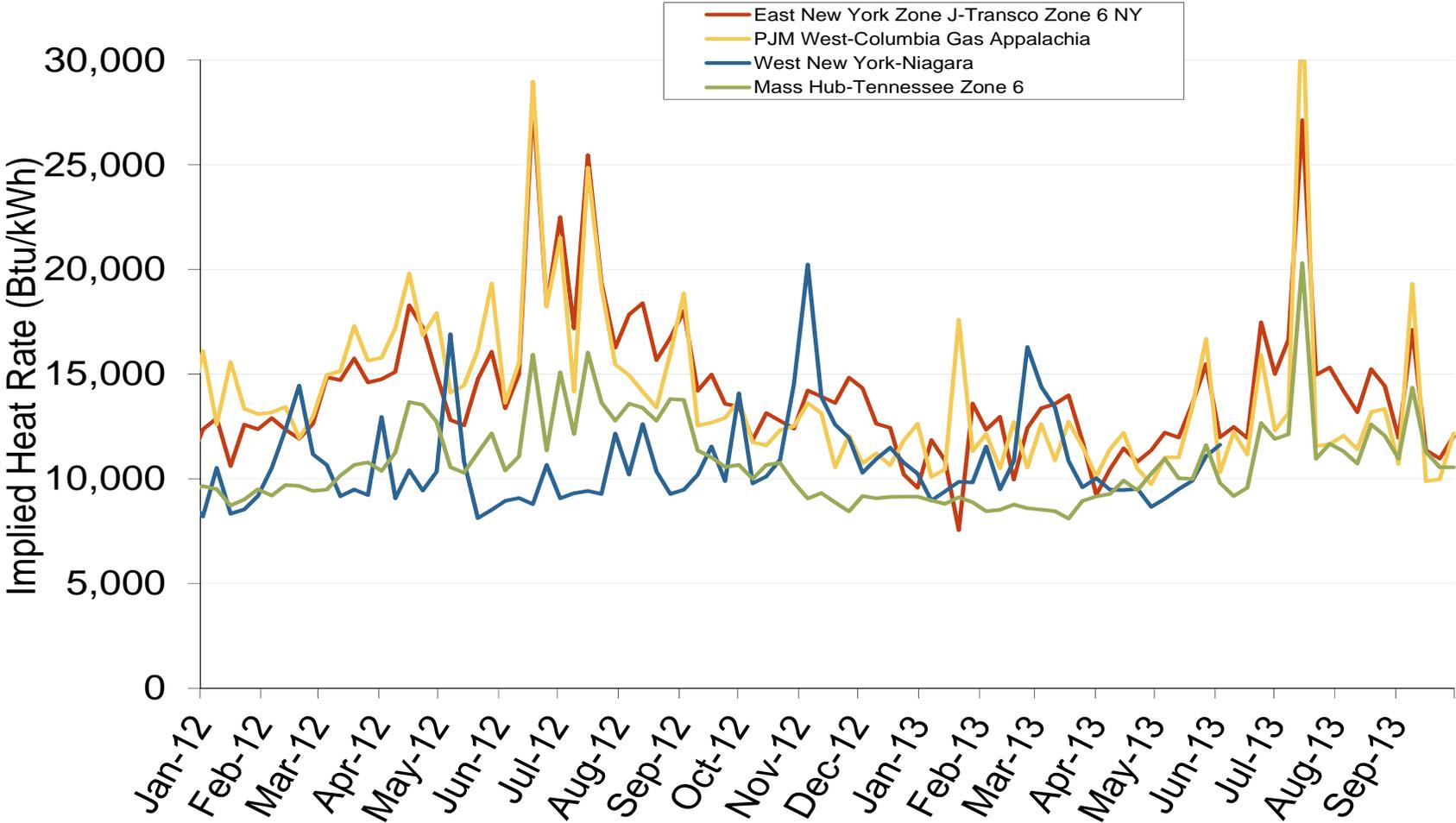


Source: Derived from Nymex data
October 2013 Mid-Atlantic Snapshot Report

Updated October 10, 2013

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

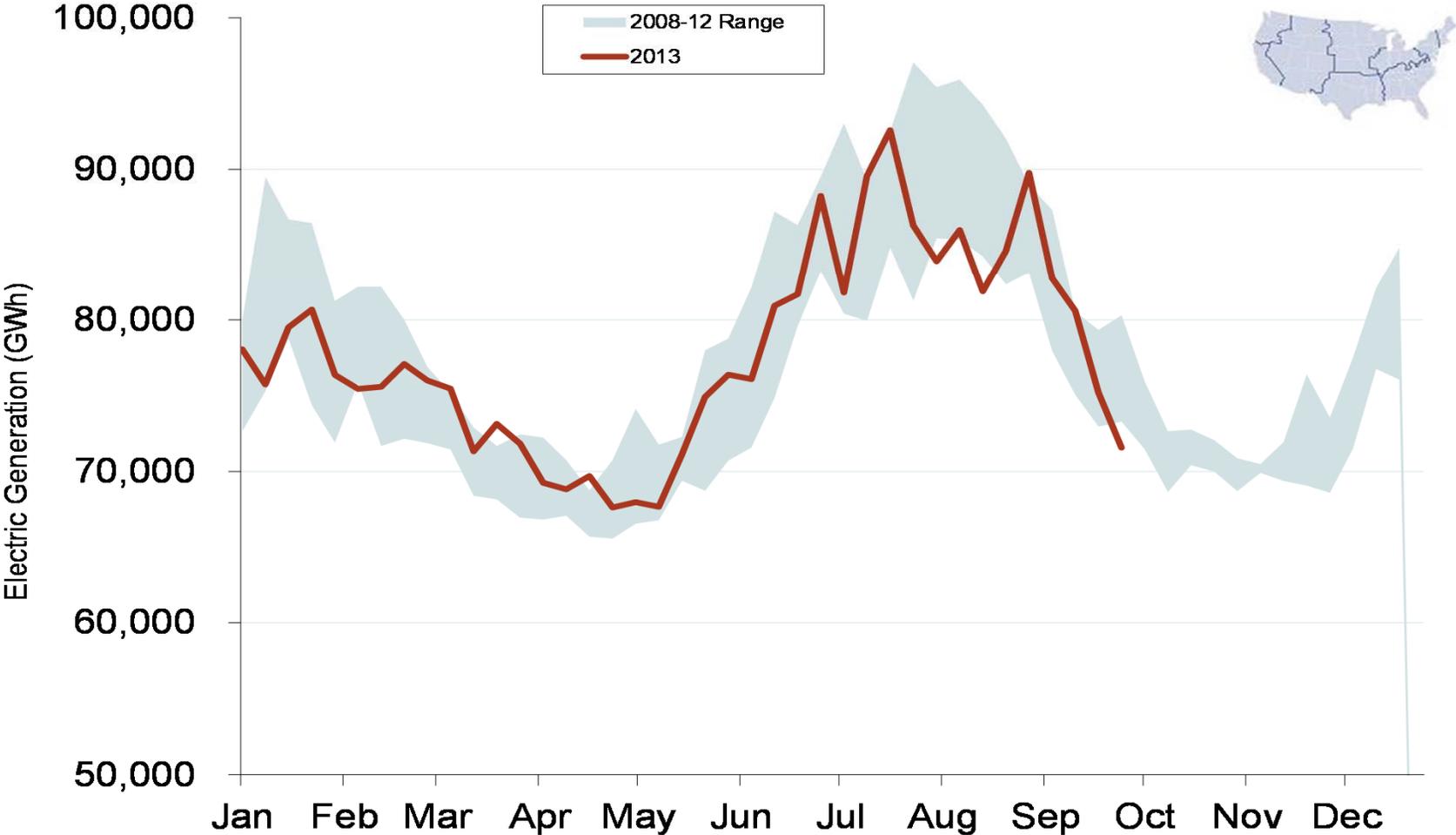
Implied Heat Rates at Eastern Trading Points - Weekly Avgs.



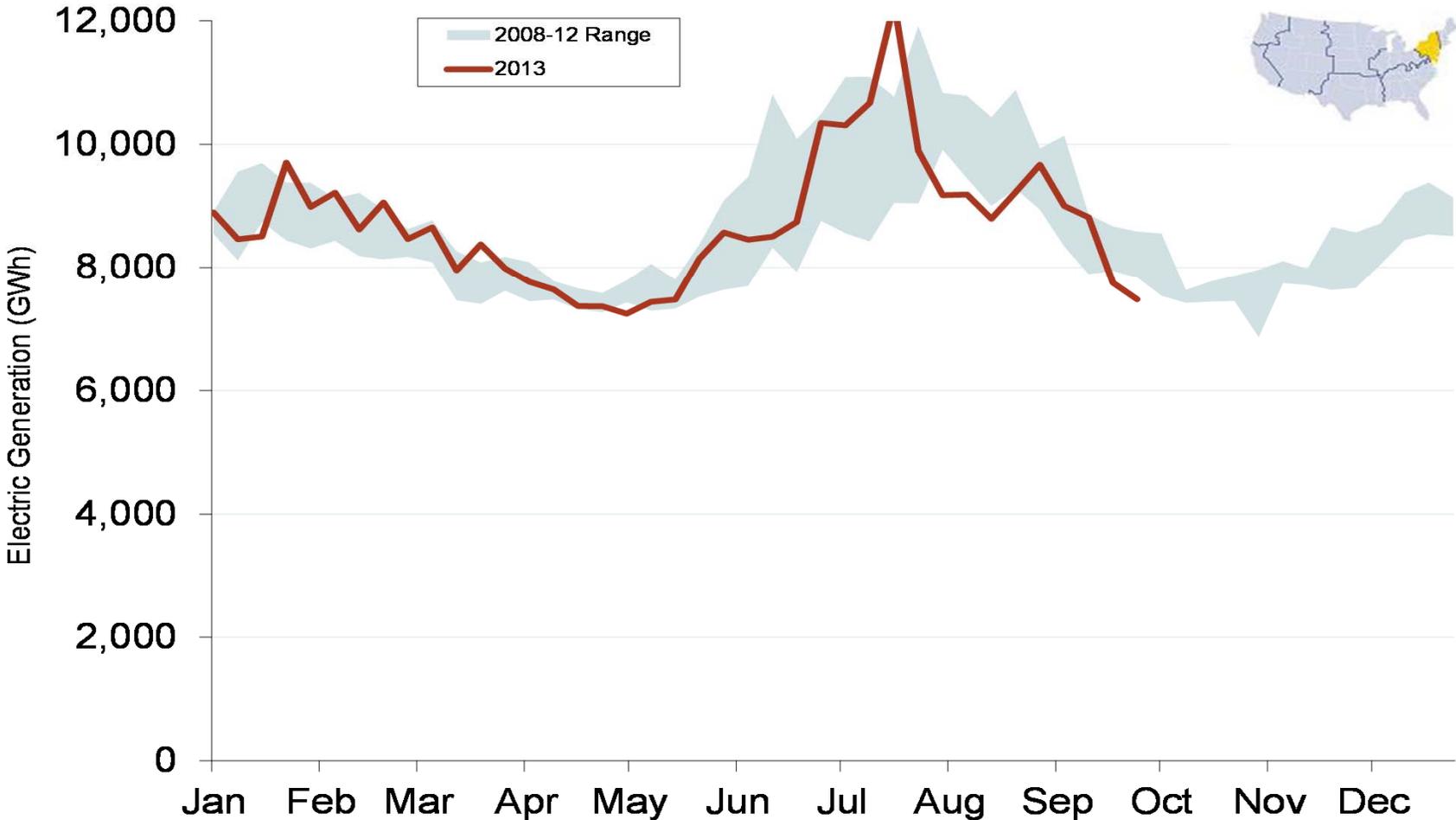
Source: Derived from *Platts* on-peak electric and natural gas price data
October 2013 Mid-Atlantic Snapshot Report

Updated: October 03, 2013

Weekly U.S. Electric Generation Output



Weekly Generation Output - Mid Atlantic



Weekly Generation Output - Central Industrial Region

