

OE ENERGY MARKET SNAPSHOT

East Version - May 2014 Data

Office of Enforcement
Federal Energy Regulatory Commission
June 2014

2014 Summer Assessment

[2014 Summer Assessment](http://www.ferc.gov/market-oversight/reports-analyses/mkt-views/2014/05-15-14.pdf)

<http://www.ferc.gov/market-oversight/reports-analyses/mkt-views/2014/05-15-14.pdf>

Infrastructure Report

Office of Energy Projects Energy Infrastructure Update

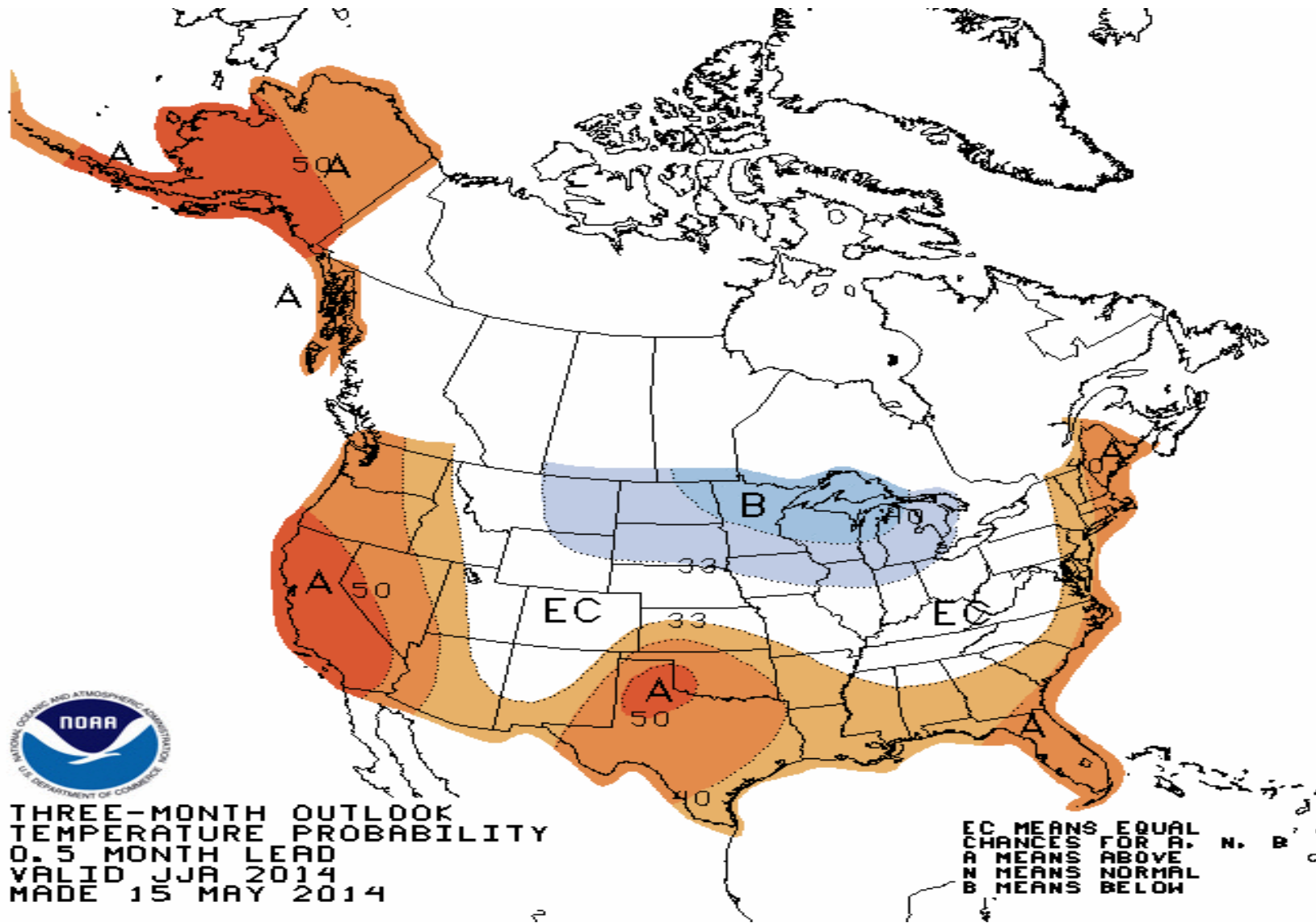
<http://www.ferc.gov/legal/staff-reports.asp>

(see “Energy Infrastructure” tab)



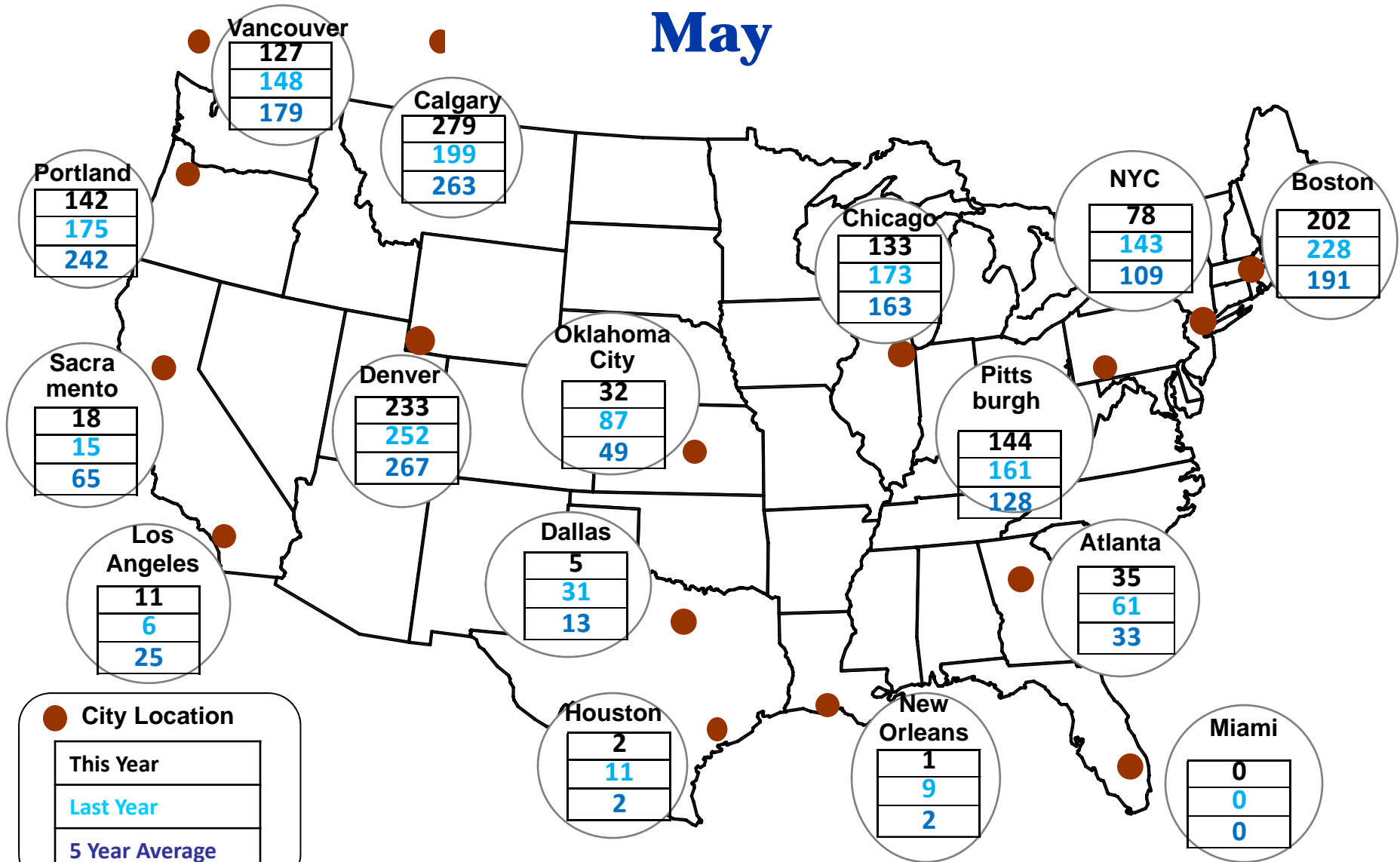
National Slides

NOAA 3 Month Outlook



Cumulative HDDs by City

May

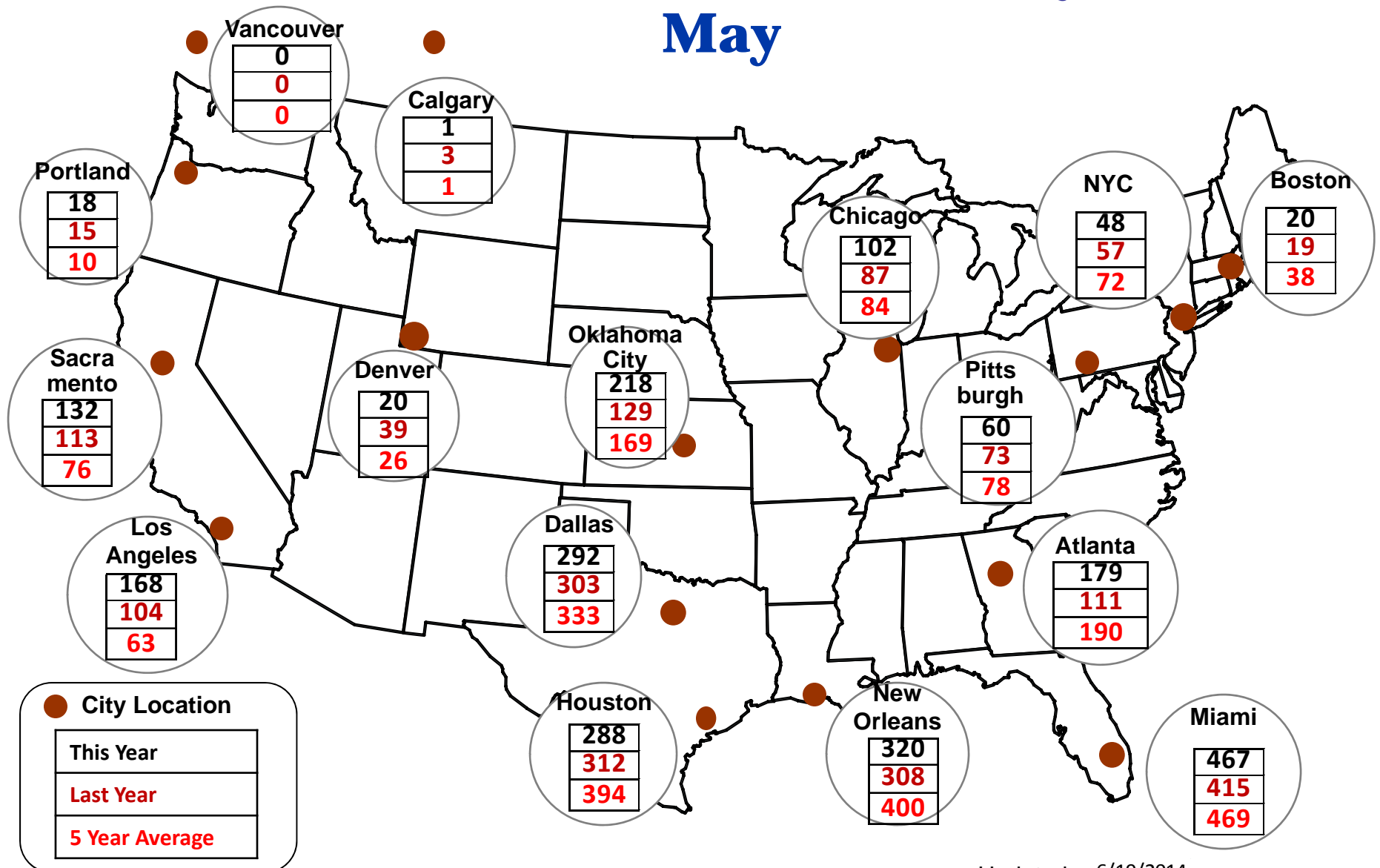


Source: Bloomberg Weather

Updated 6/19/2014

Cumulative CDDs by City

May



Source: Bloomberg Weather

Updated 6/19/2014

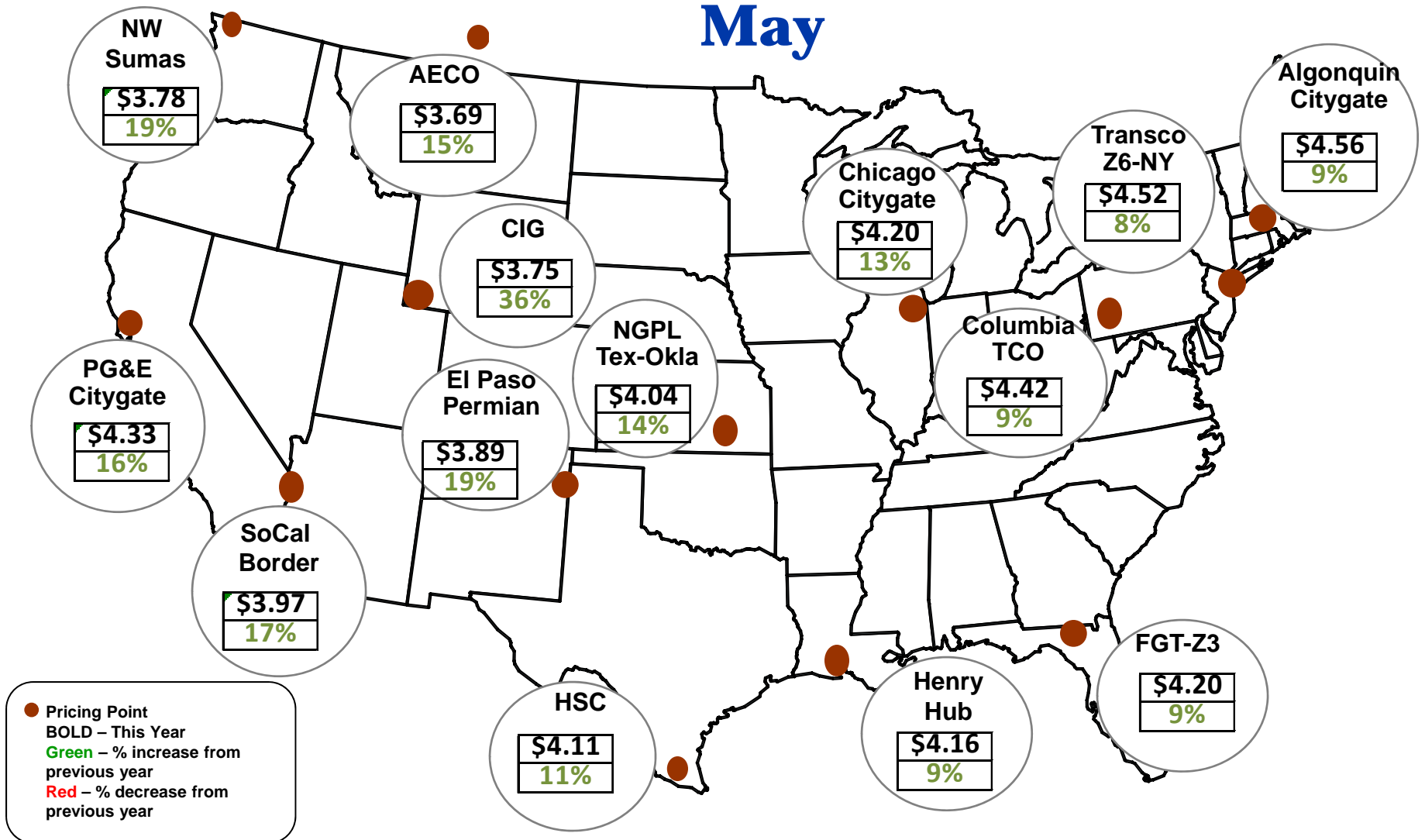
8

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

Spot Natural Gas Prices

Average (\$/MMBtu)

May

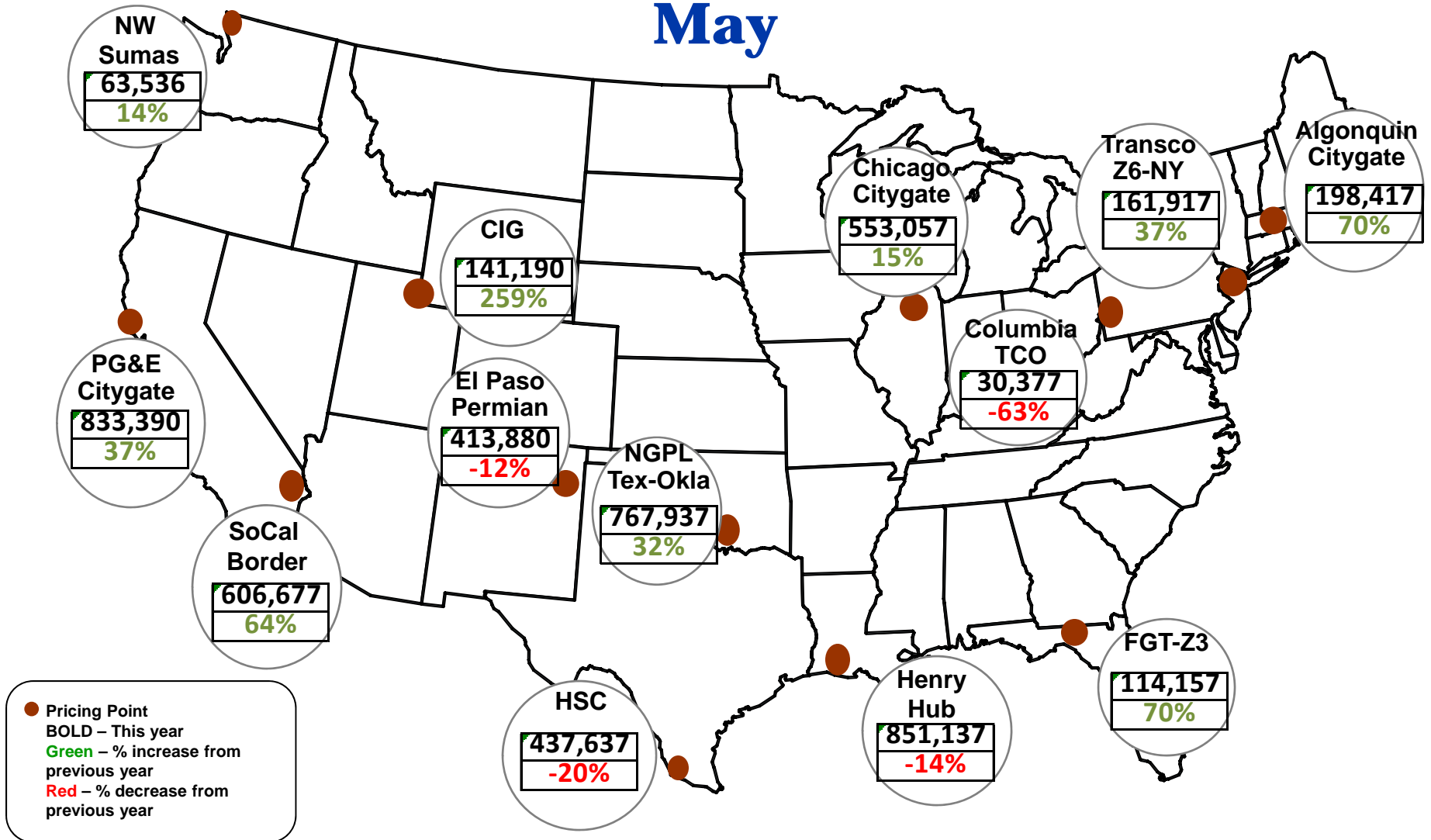


Source: ICE

Updated 6/19/2014

2181

Spot Natural Gas Trading Volumes Average (MMBtus) May



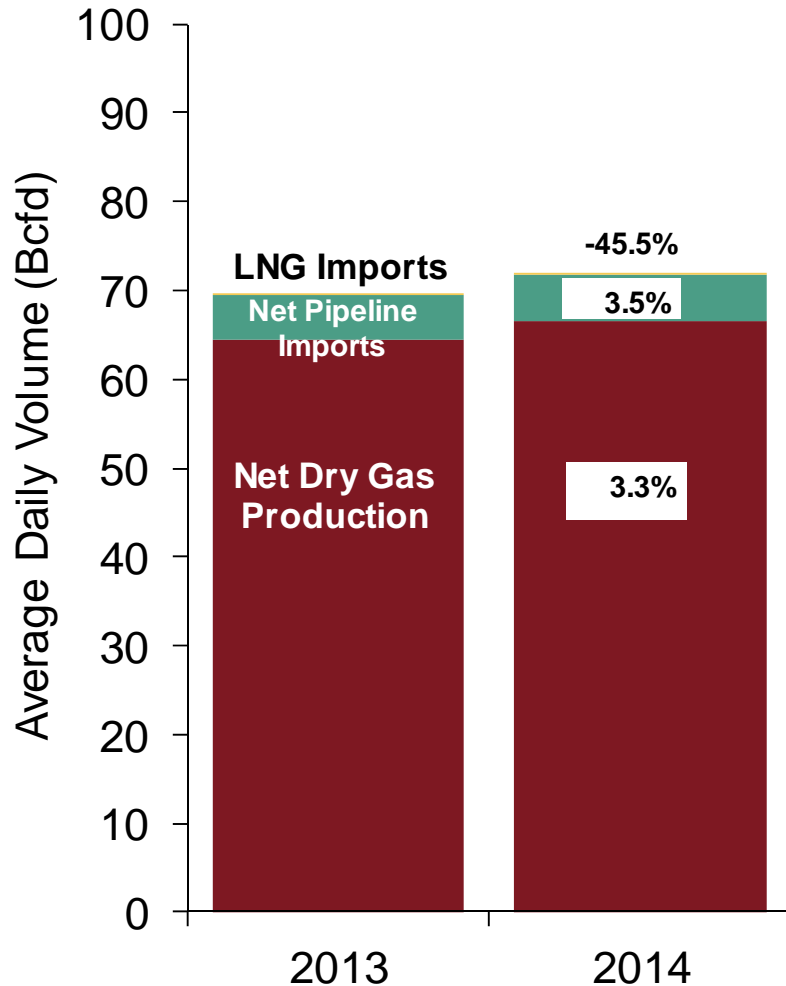
Source: ICE

Updated 6/19/2014

U.S. NG Supply and Demand May 2013 vs. May 2014

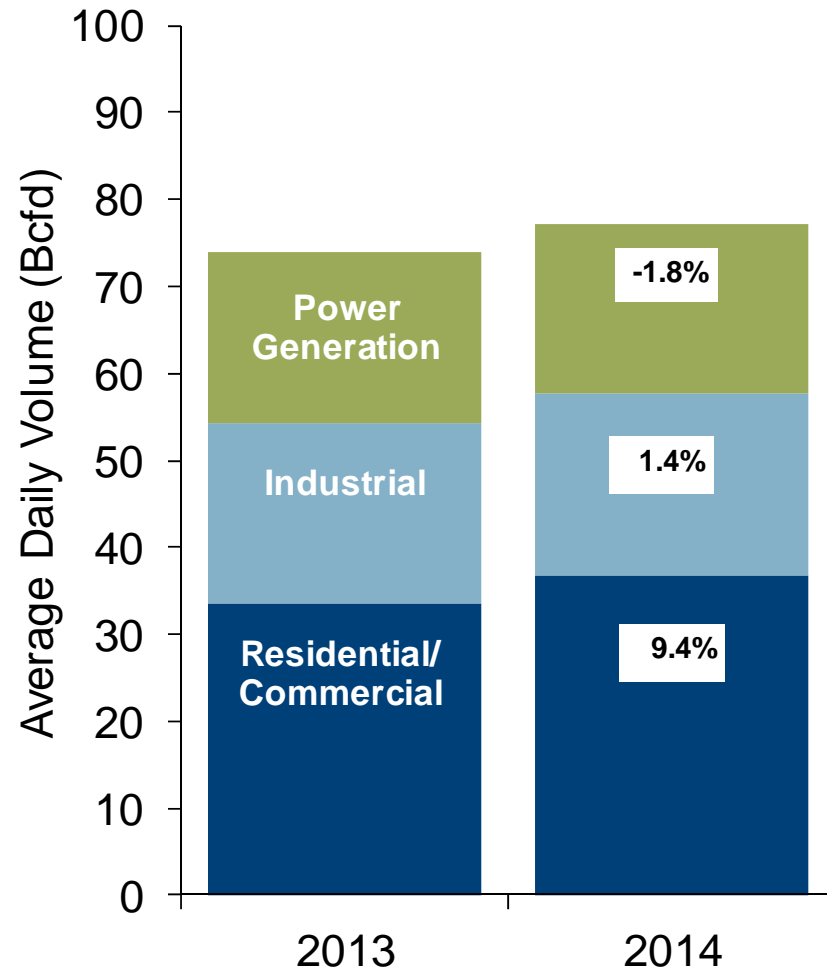
US Natural Gas Supply

Total Change in Supply 3.1%



US Natural Gas Demand

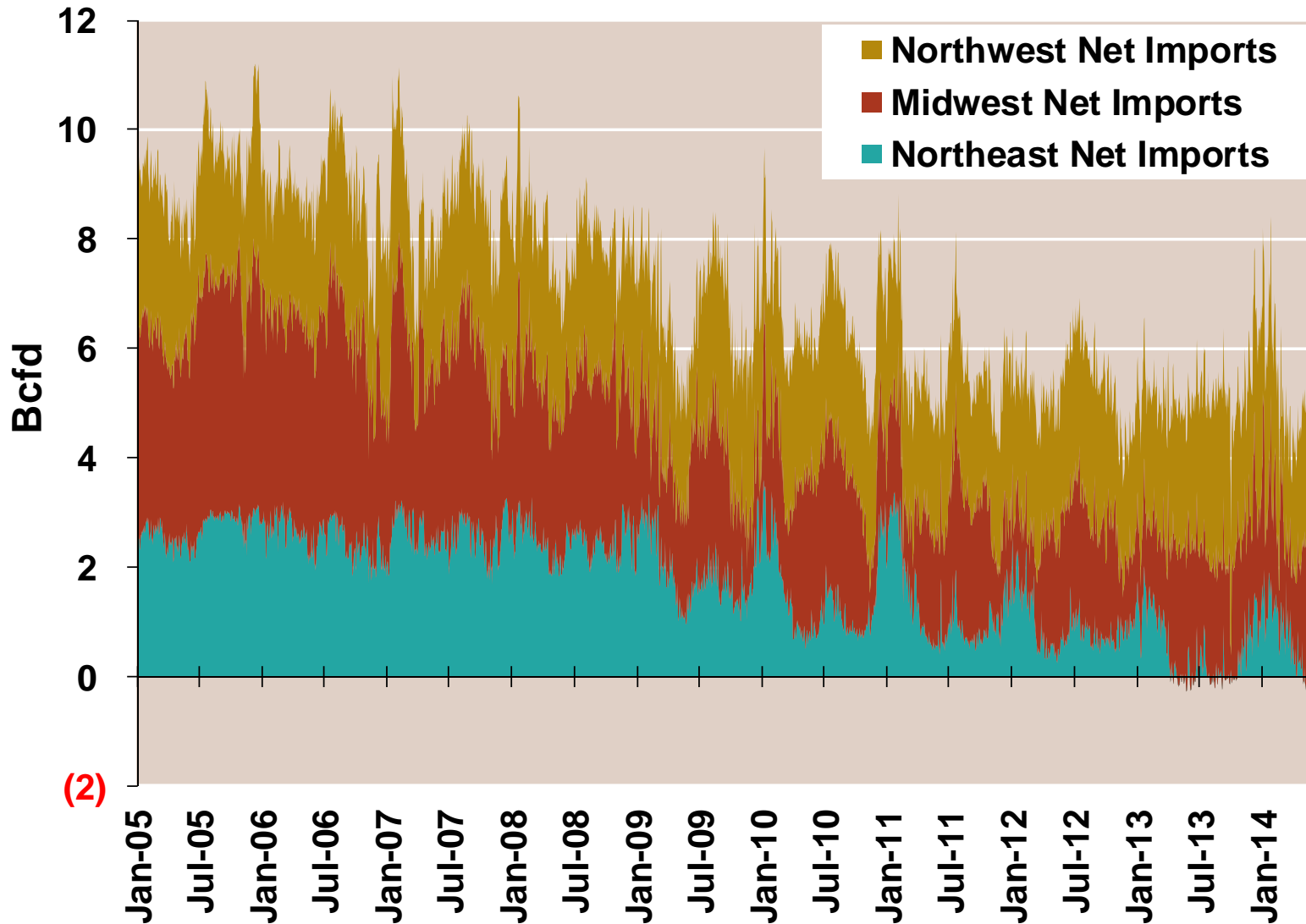
Total Change in Demand 4.1%



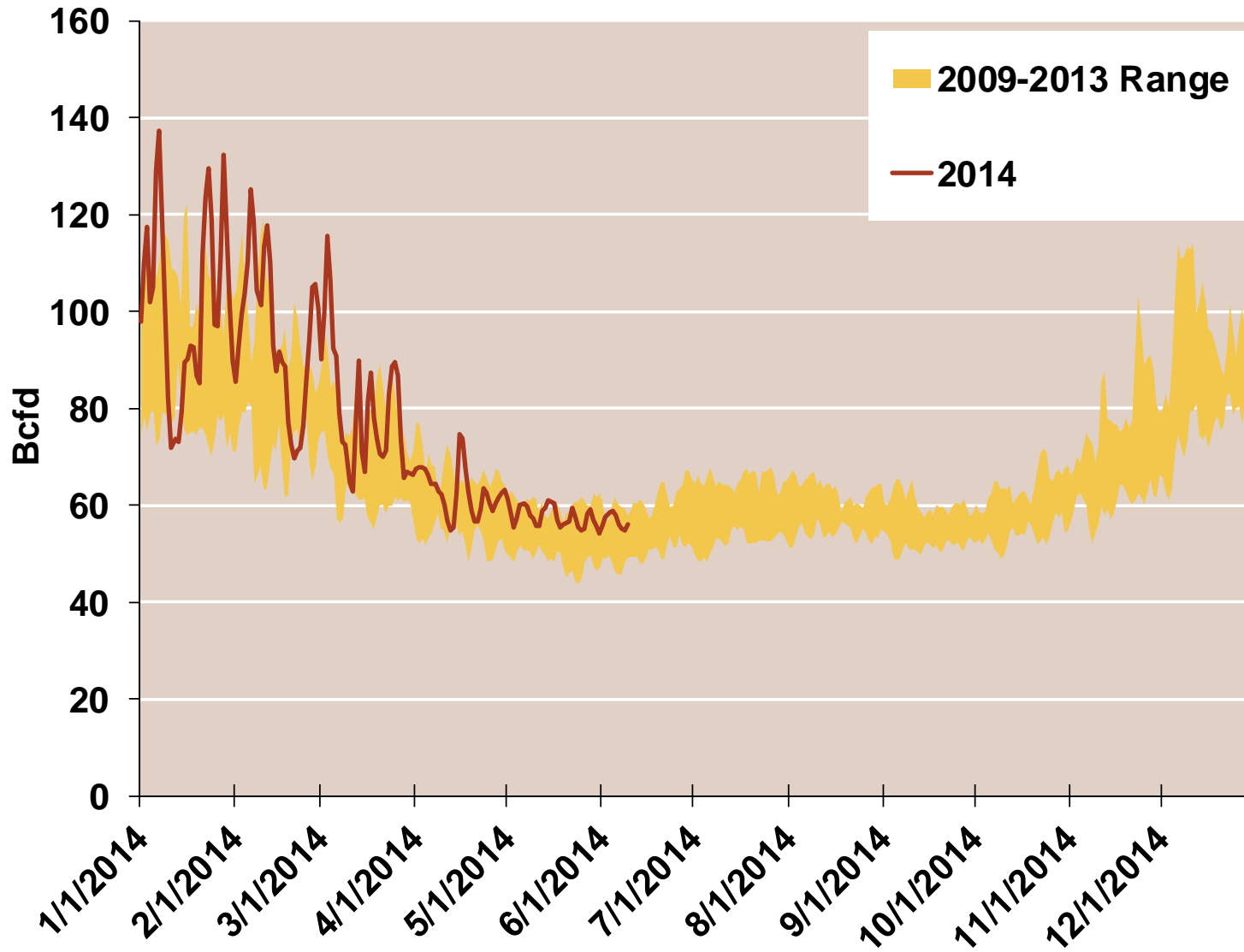
Note: Balance includes all amounts not attributable to other categories.

Source: Derived from *Bentek Energy* data

Regional Imports from Canada

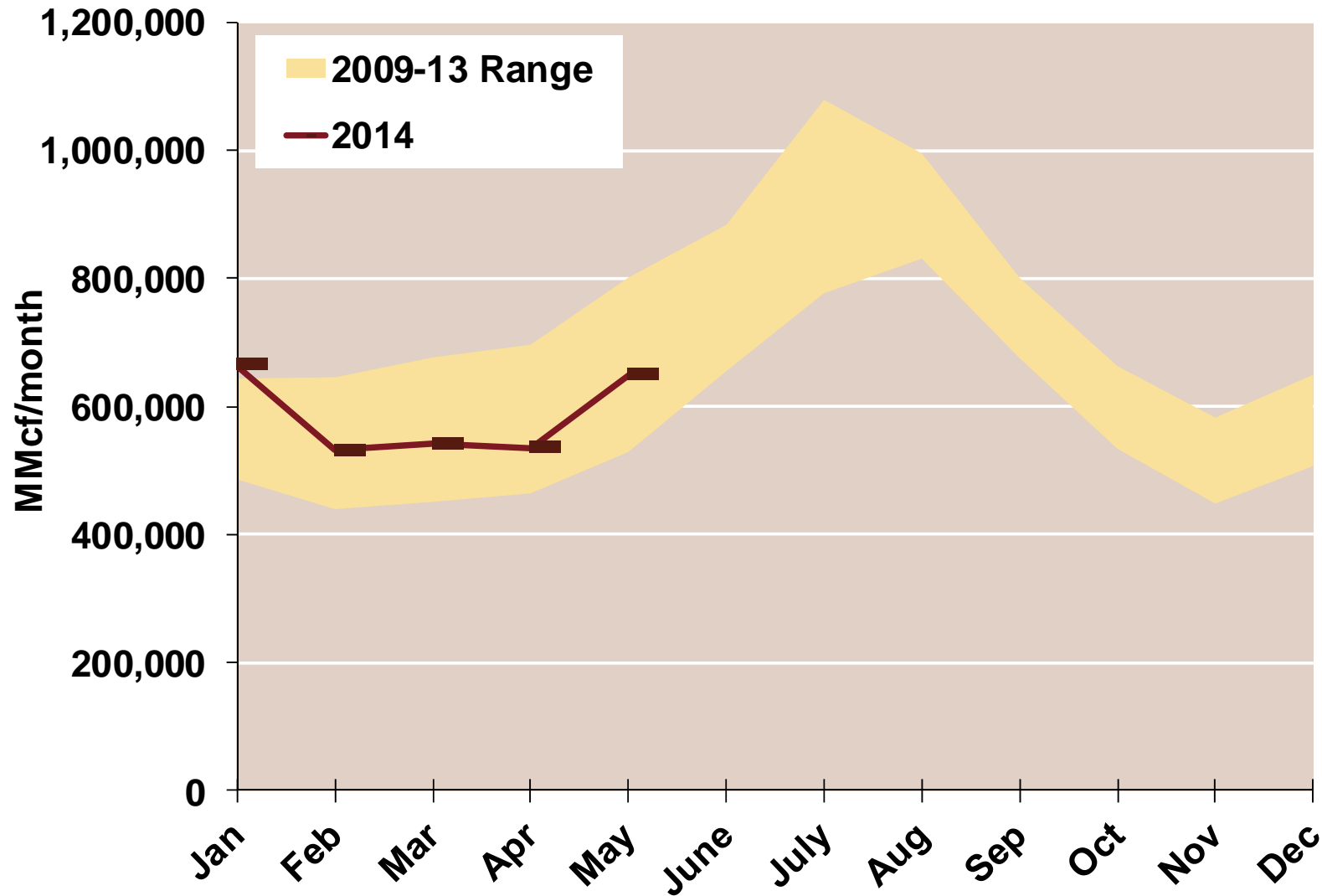


Total U.S. Natural Gas Demand All Sectors

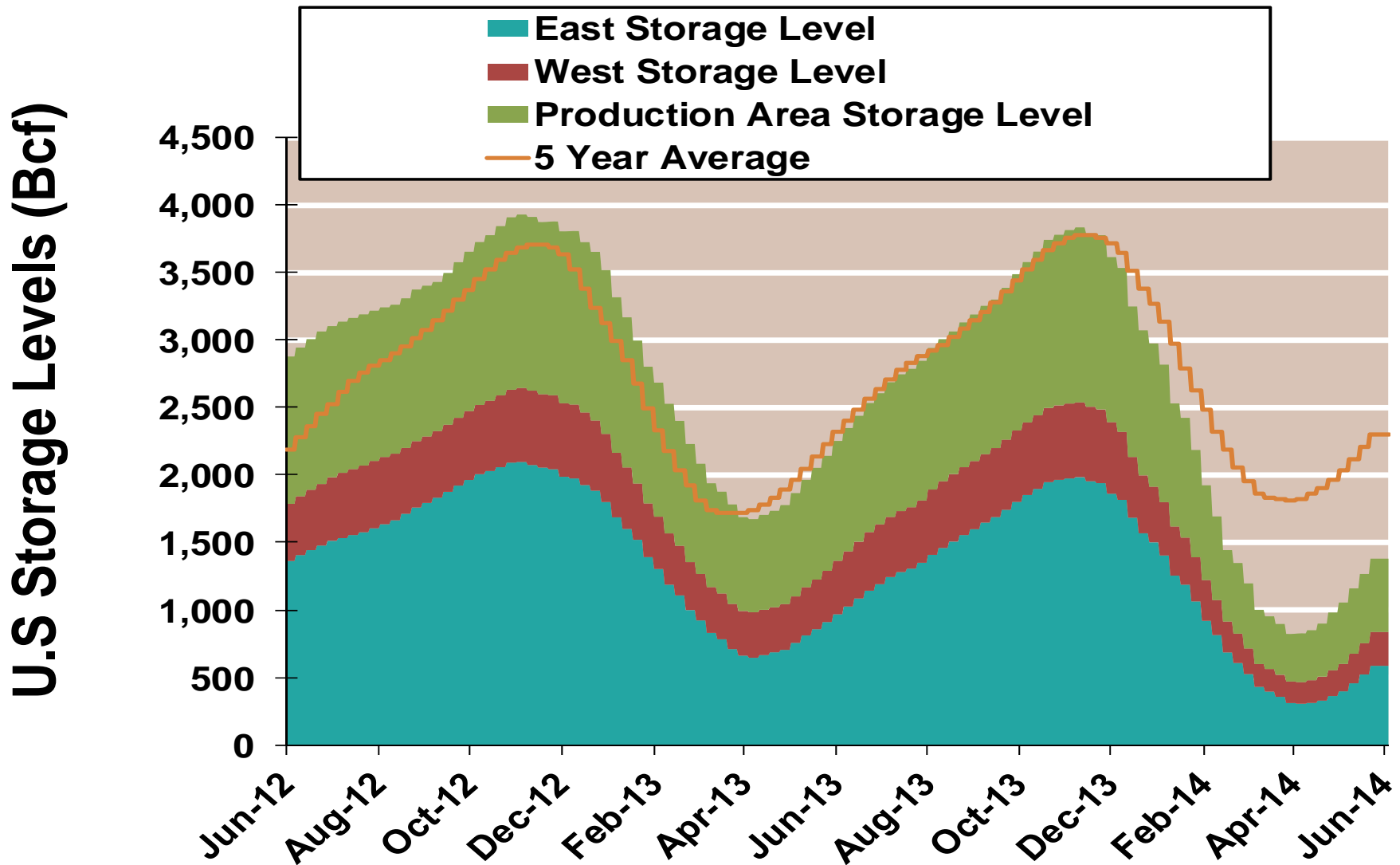


Source: Derived from *Bentek Energy* data, derived from interstate pipeline flow and modeled data.

U.S. Natural Gas Consumption for Power Generation



EIA National Storage Inventories by Region

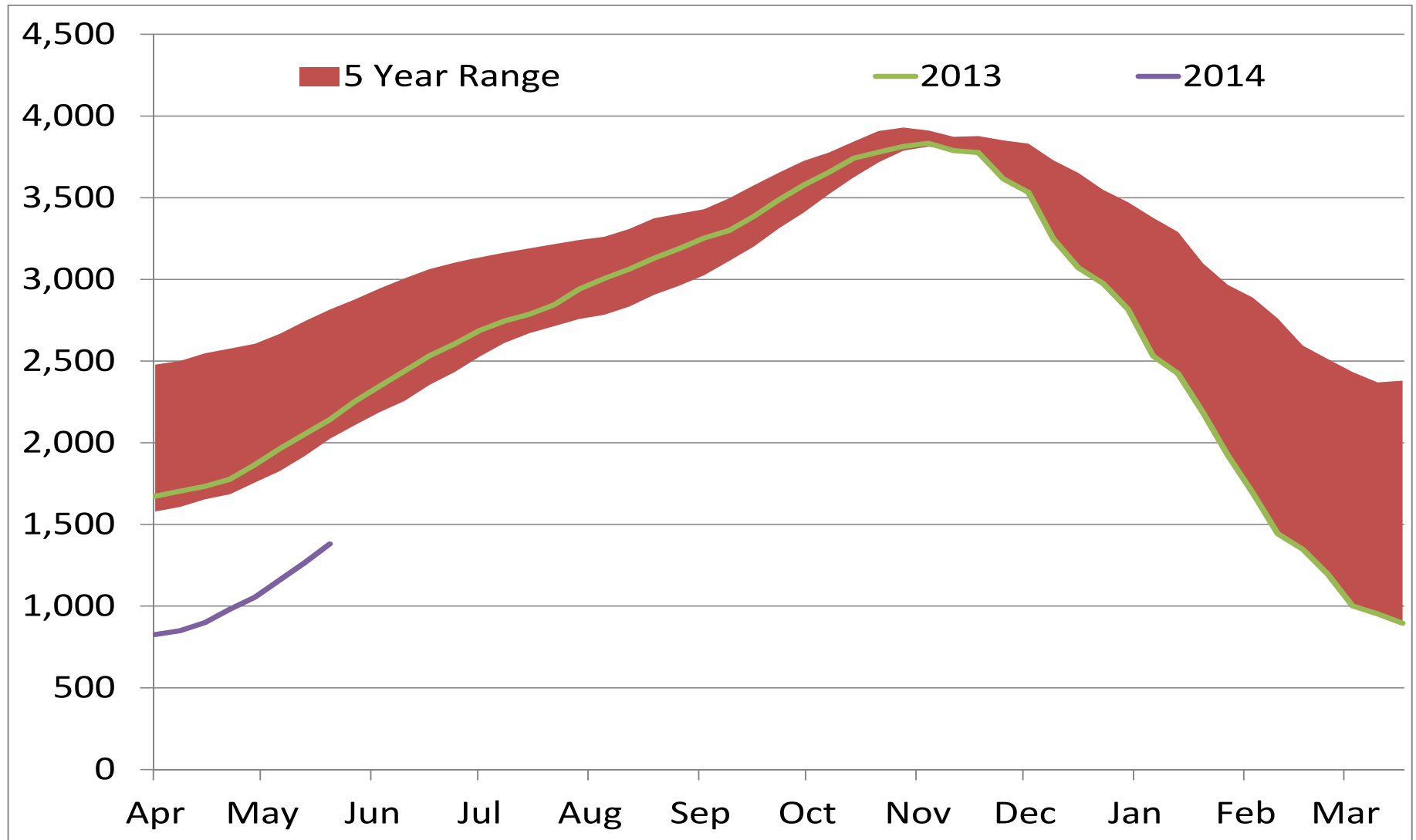


Notes:

Source: Derived from Bloomberg Data

Updated 6/4/2014

EIA National Storage Inventories

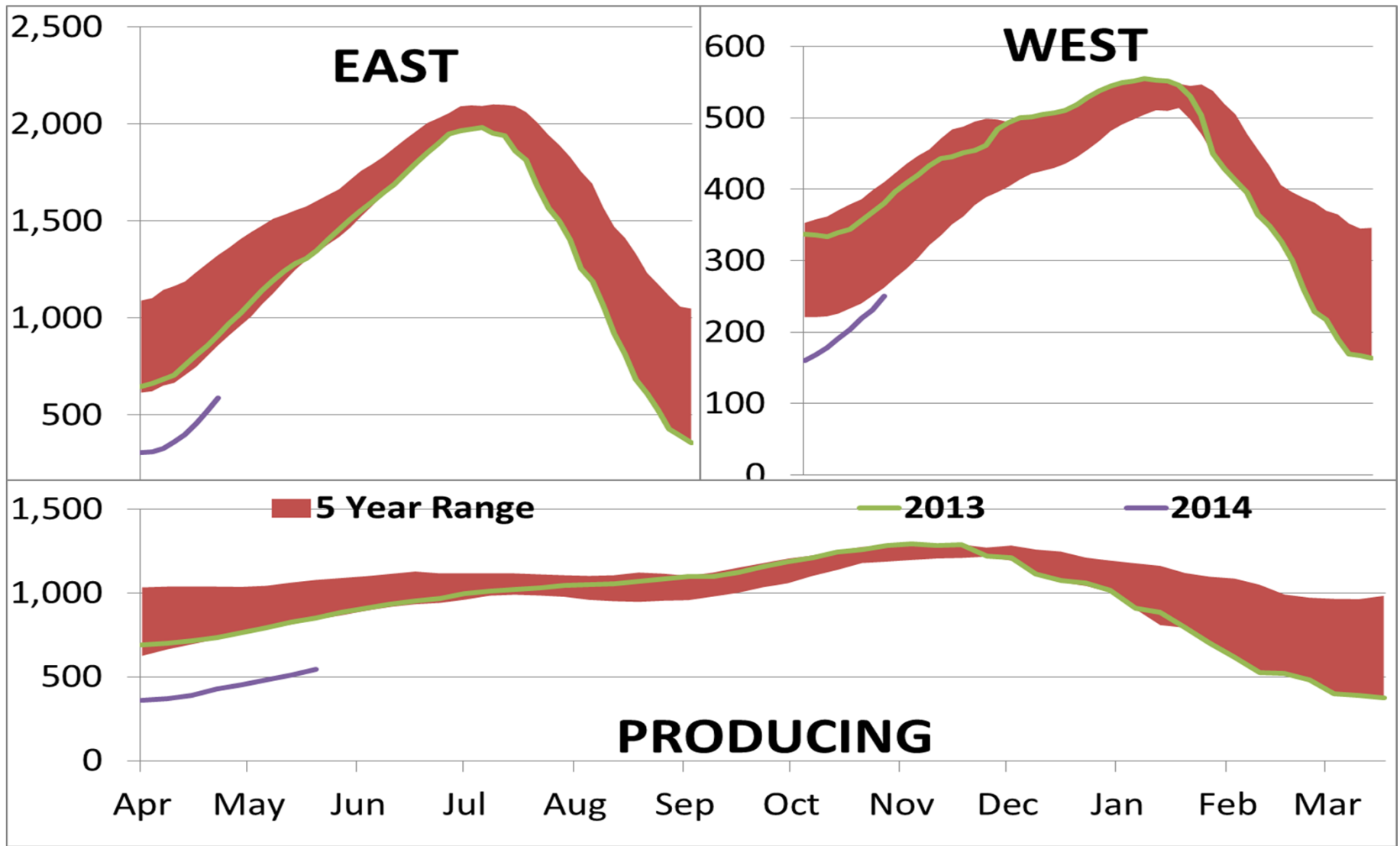


Notes:

Source: Derived from Bloomberg Data

Update: 6/4/2014

EIA Regional Storage Inventories

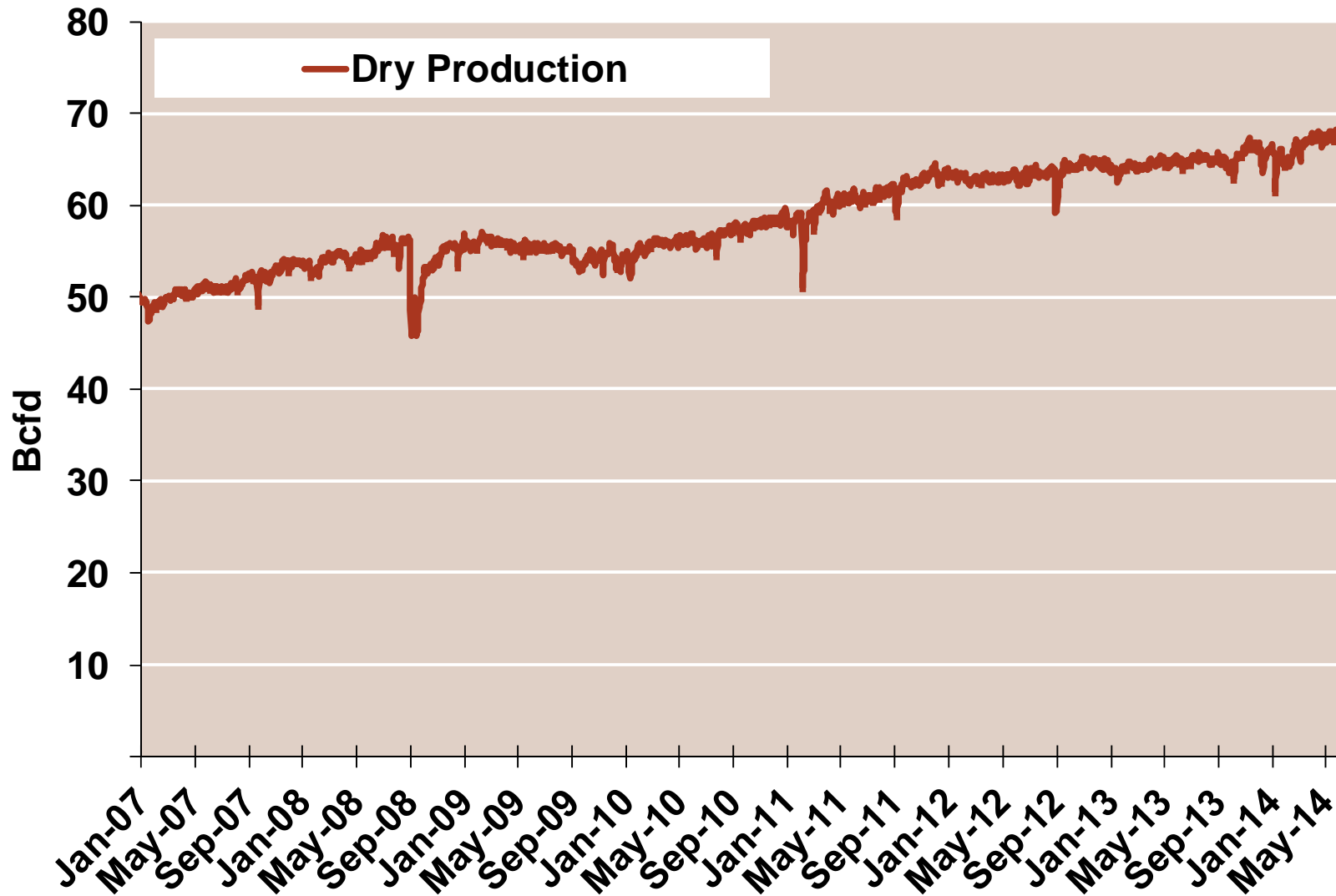


Notes:

Source: Derived from Bloomberg Data

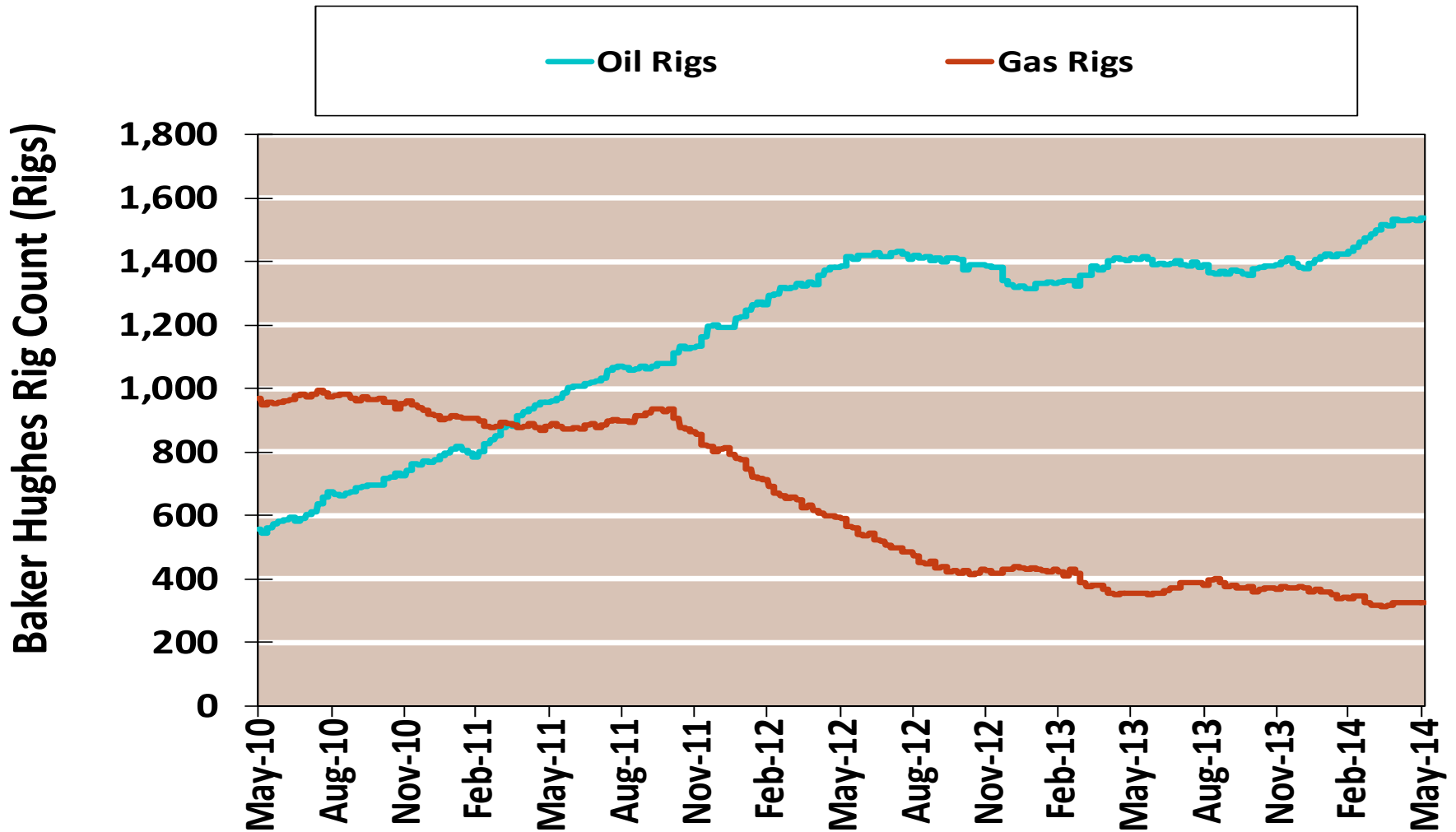
Update: 6/4/2014

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

NG Rigs by Type



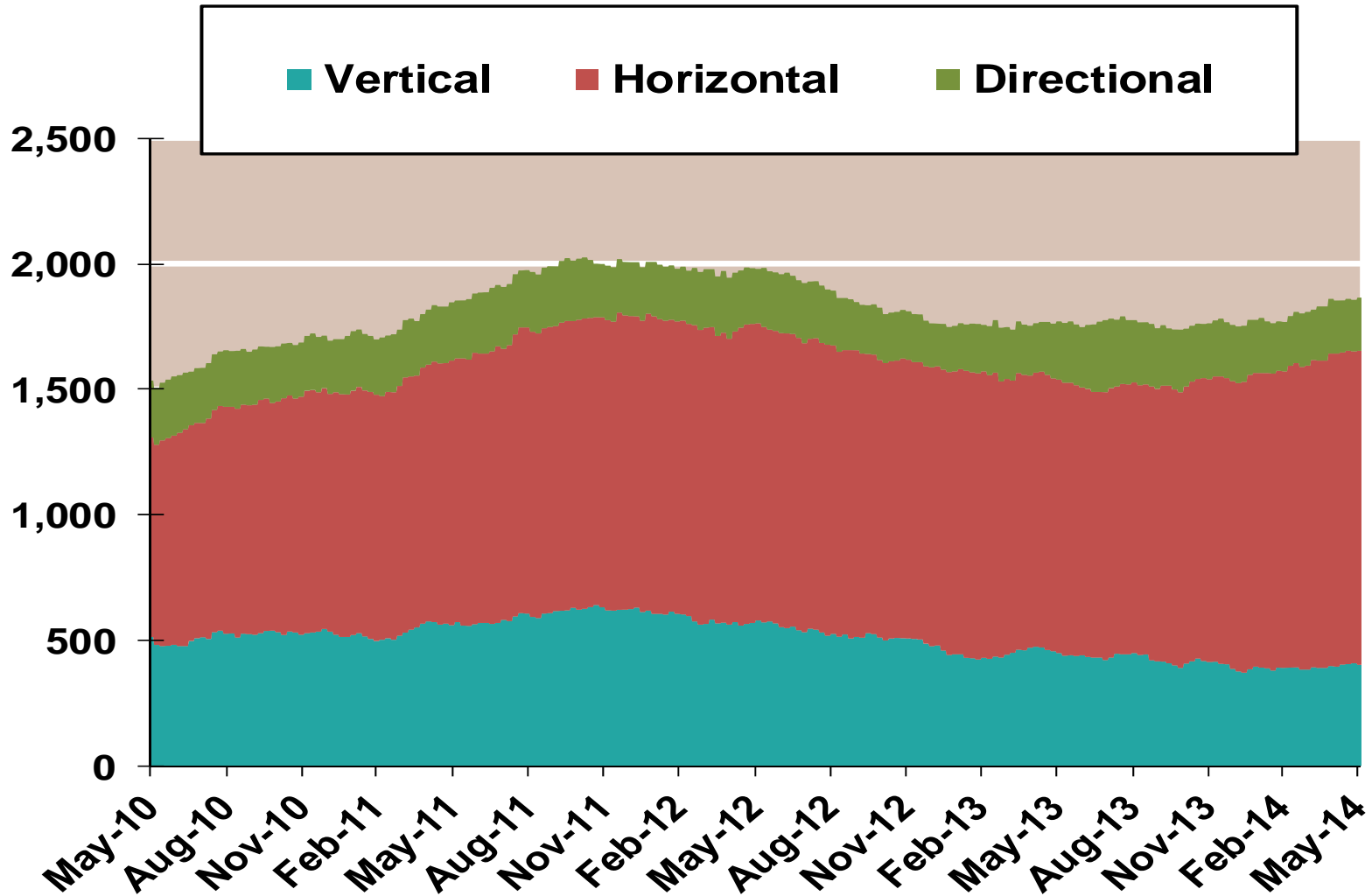
Notes:

Source: Derived from Bloomberg data

Updated 6/4/2014

NG Rig by Direction

Baker Hughes Rigs By Drill Type

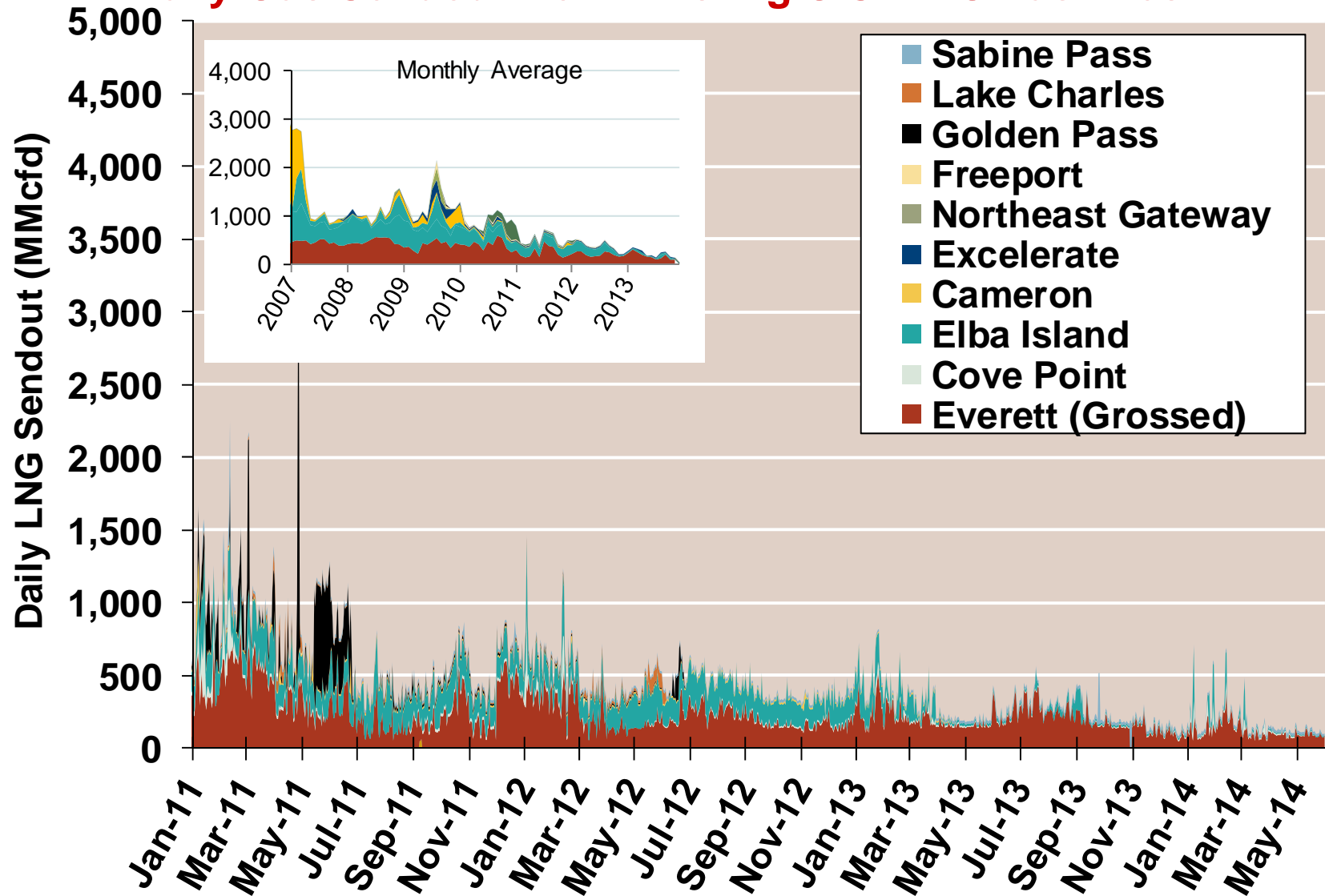


Notes:

Source: Derived from Bloomberg data

Updated 6/4/2014

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.

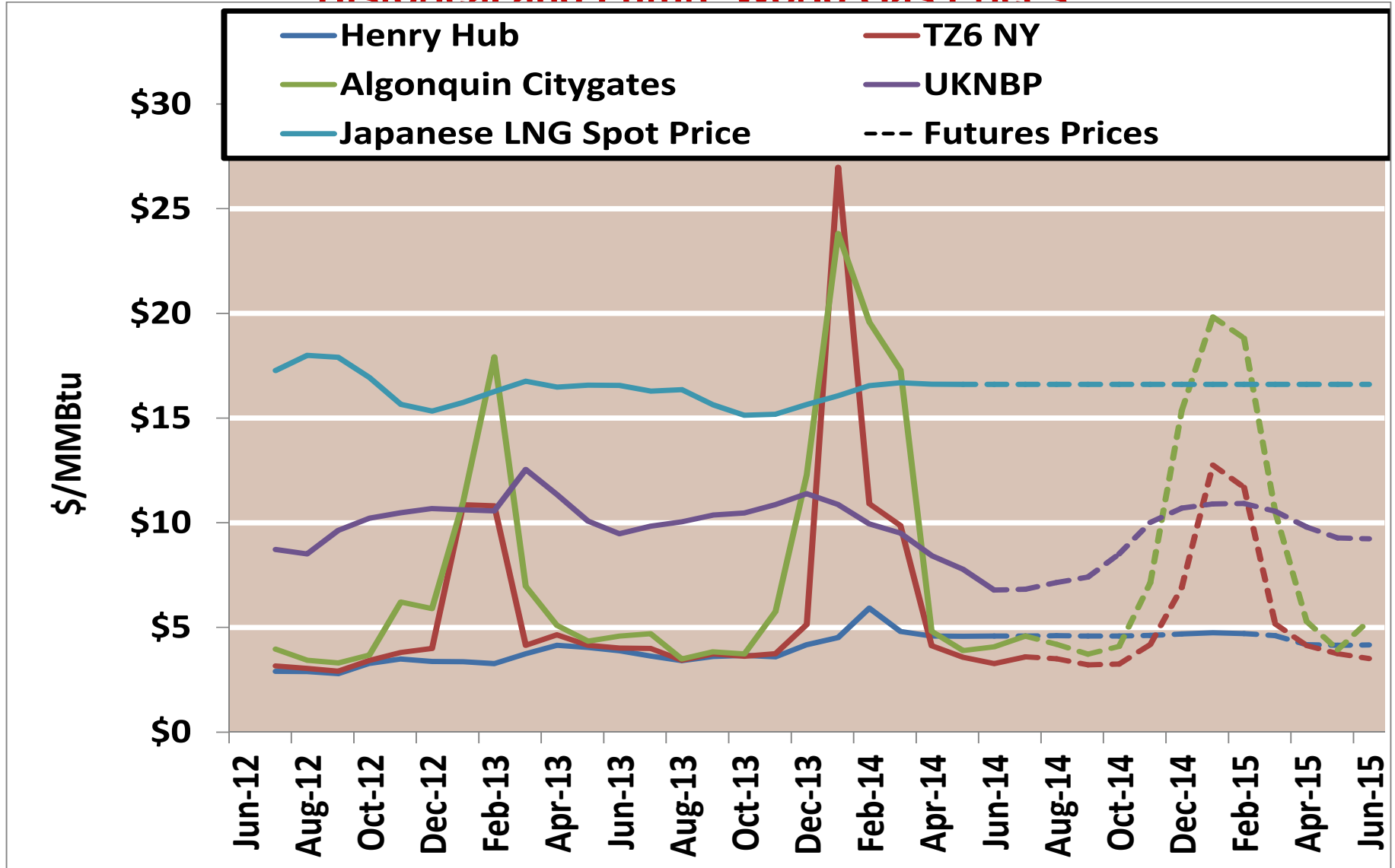
Source: Derived from *Bentek Energy* data

Updated: June 2014

World LNG Estimated July 2014 Landed Prices



Historical and Future World Gas Prices

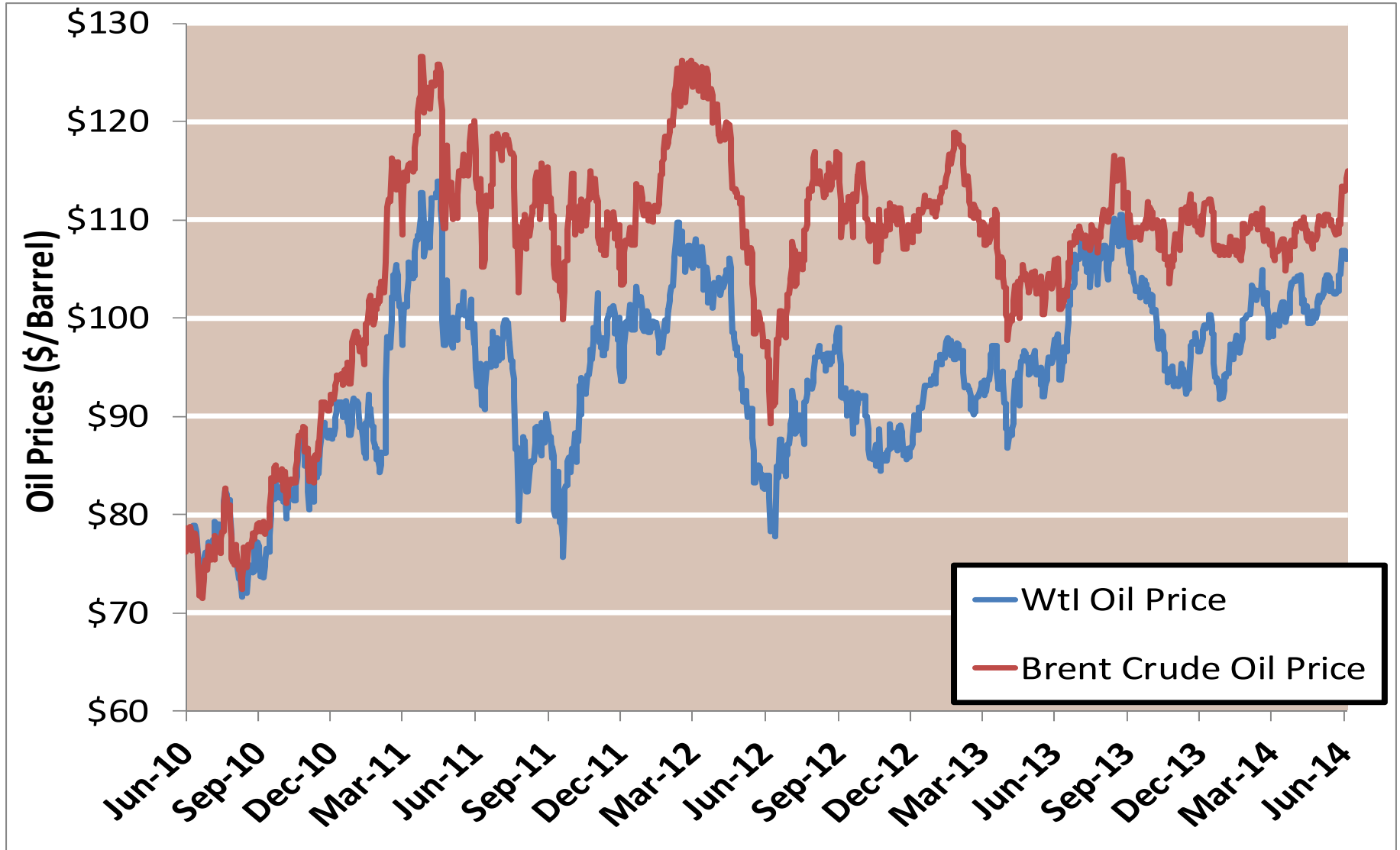


Notes:

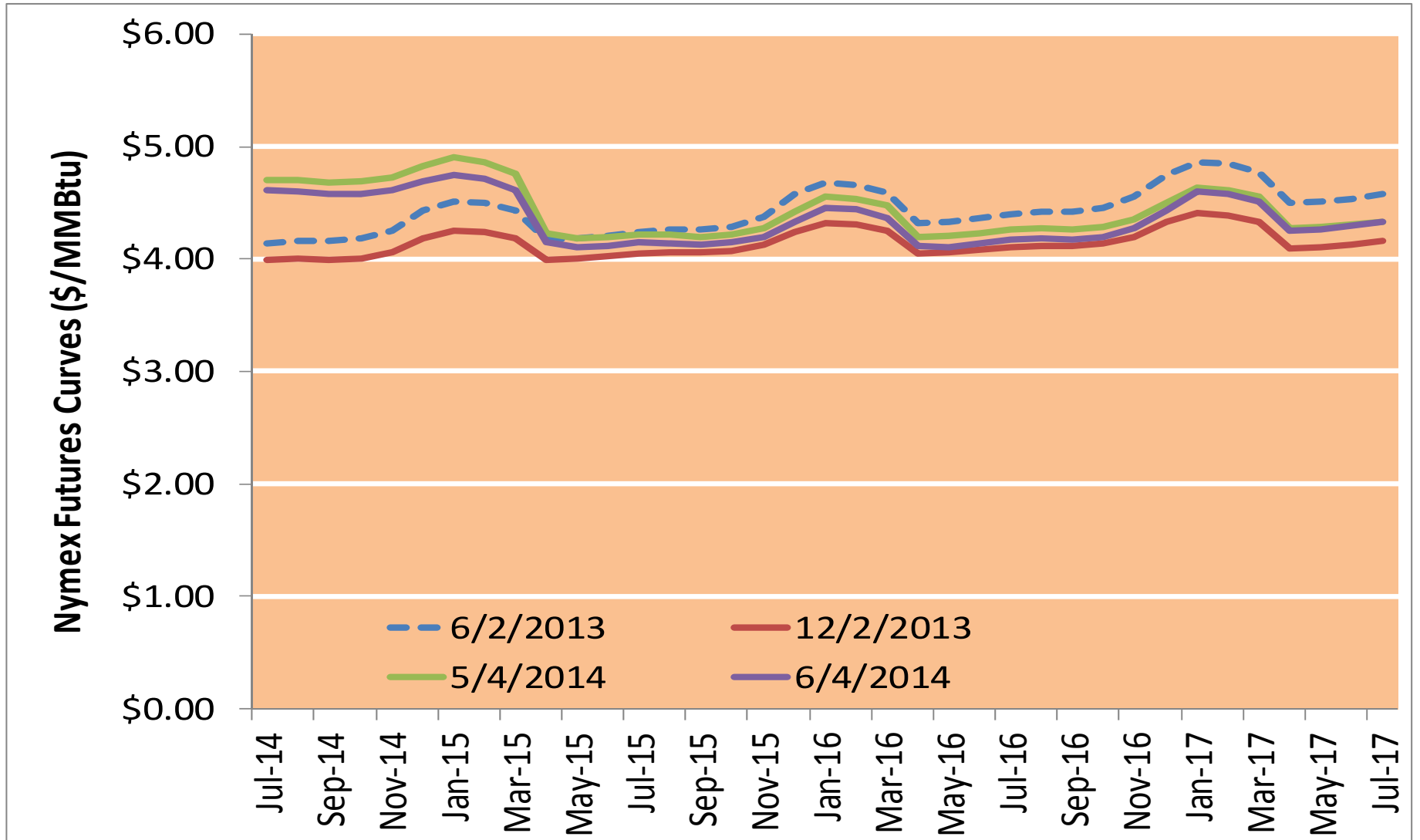
Source: Derived from Bloomberg data

Updated 6/4/2014

WTI vs Brent Crude Oil Price



Nymex Futures Curves



US Total Generation Mix

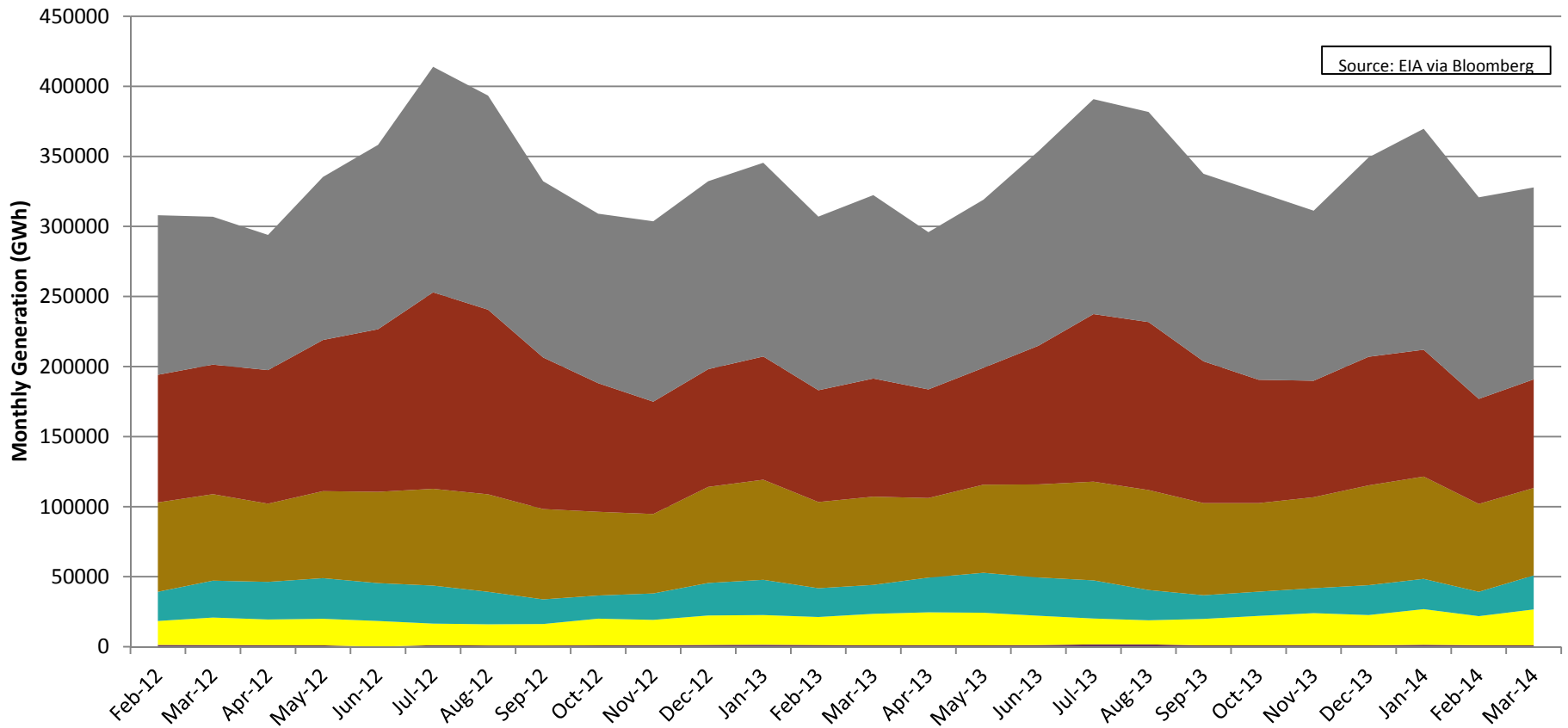
**US Total Generation Mix,
Feb '12 to Mar '14**

States: All

- Coal Generation in Mar '14 was 137004 GWh (42%).
- NatGas Generation in Mar '14 was 77505 GWh (24%).
- Nuclear Generation in Mar '14 was 62395 GWh (19%).
- Hydro Generation in Mar '14 was 24243 GWh (7%).
- Other Renewable Generation in Mar '14 was 25712 GWh (8%).
- Oil Generation in Mar '14 was 965 GWh (0%).

Total Generation in Mar '14 was 327824 GWh.

Source: EIA via Bloomberg



Natural Gas and Fuels Markets

East

Northeast Annual Average Day-Ahead Prices

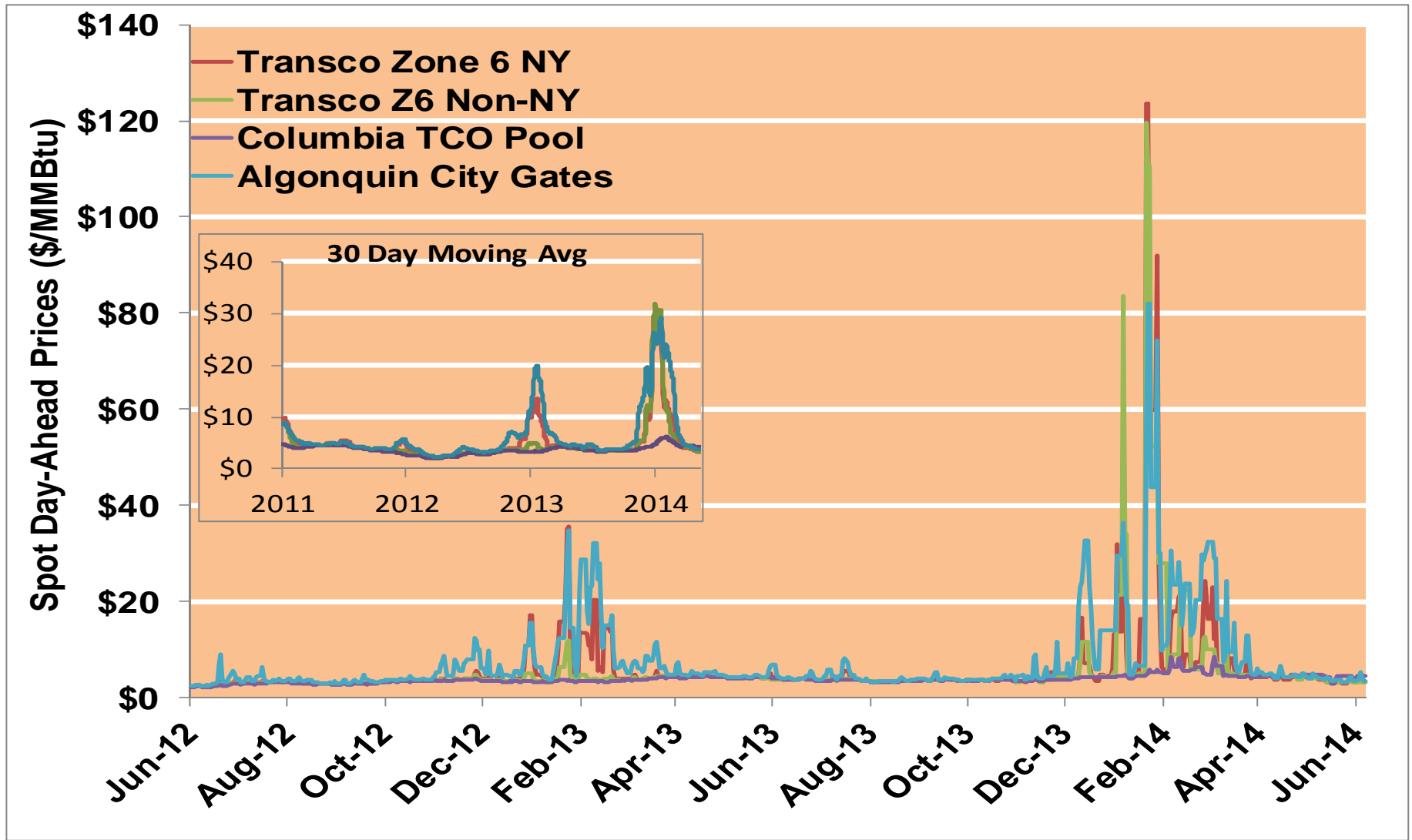
	Average Day Ahead Prices (\$/MMBtu)	Algonquin Citygates	Transco Zone 6 NY	Transco Zone 6 Non-NY	Columbia Appalachia	Henry Hub
2011	Annual	5.01	5.01	4.68	4.07	3.98
	Summer	4.56	4.55	4.42	4.21	4.14
	Winter 2011/2012	4.00	3.59	3.08	2.77	2.74
2012	Annual	3.97	3.27	2.99	2.78	2.75
	Summer	3.25	2.86	2.83	2.71	2.69
	Winter 2012/2013	9.53	6.63	4.10	3.51	3.47
2013	Annual	6.97	5.07	4.08	3.70	3.70
	Summer	4.25	3.92	3.83	3.73	3.75
	Winter 2013/2014	16.08	11.75	11.78	4.64	4.61
2014 YTD	Annual	12.91	10.62	10.70	4.84	4.86
	Summer	4.25	3.69	3.80	4.42	4.54
	Winter 2014/2015					

Notes:

Source: Derived from ICE data

Updated 6/16/2014

Northeast Day-Ahead Prices

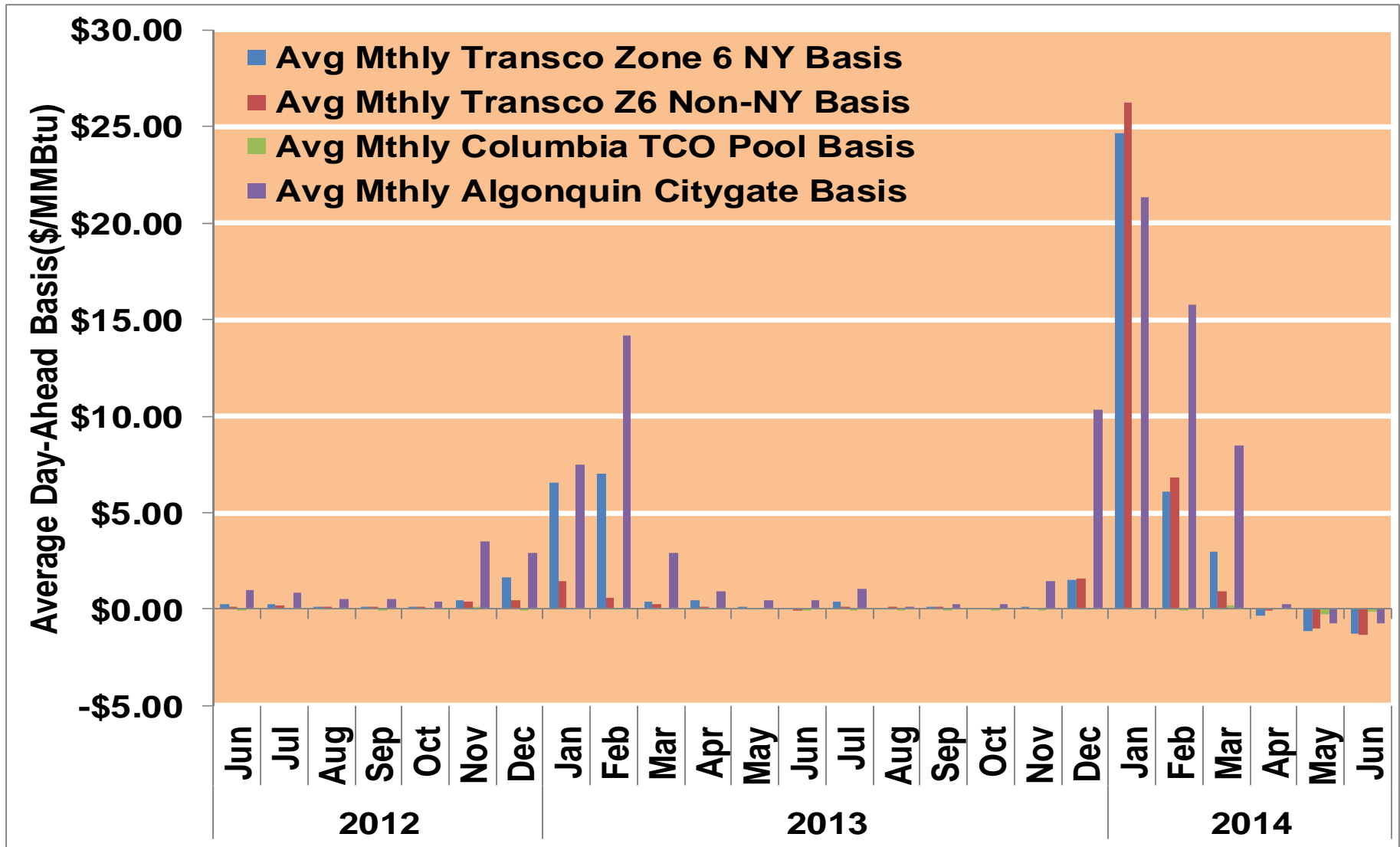


Notes:

Source: Derived from ICE data

Updated 6/16/2014

Northeast Monthly Average Basis Value To Henry Hub

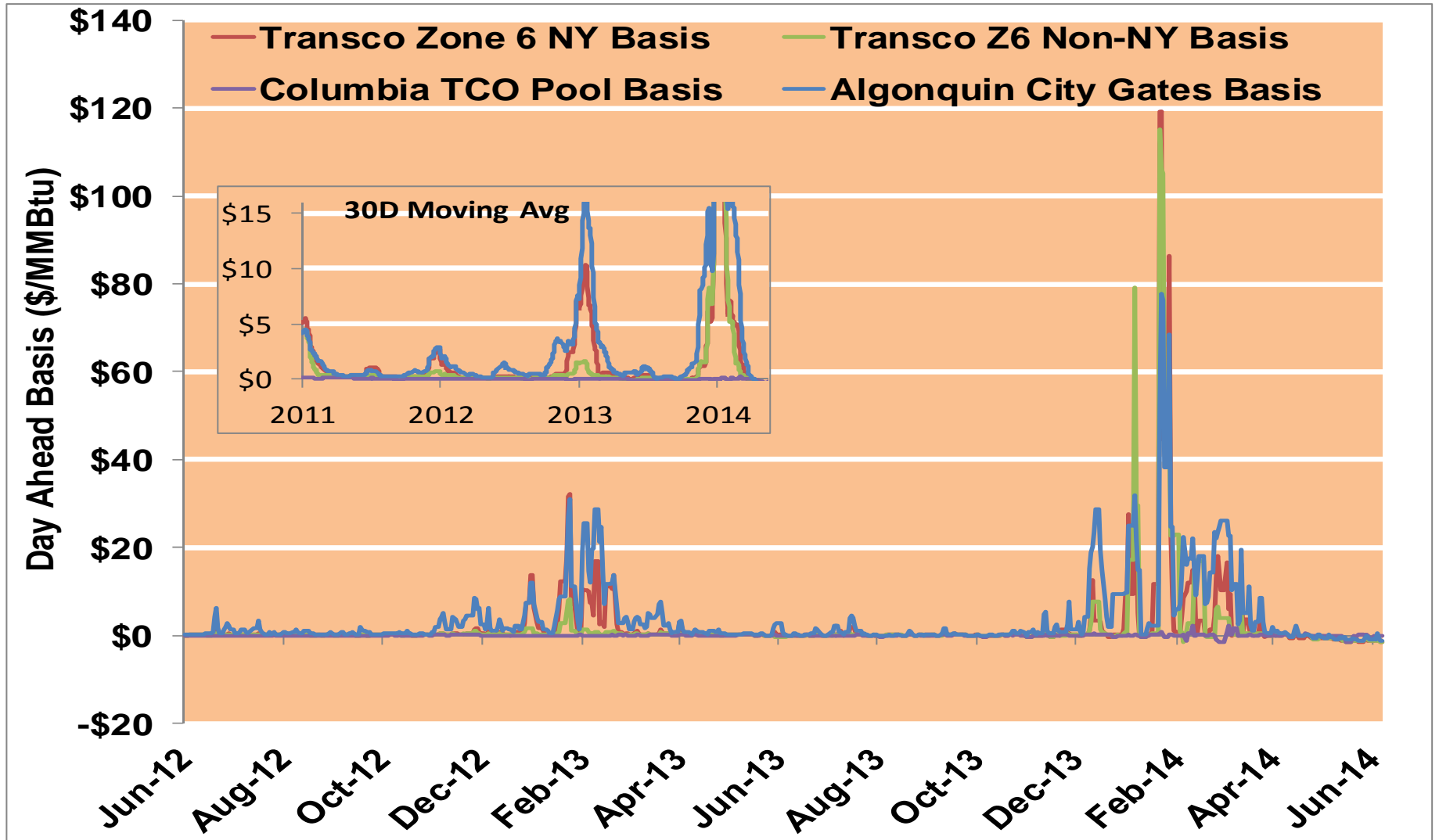


Notes:

Source: Derived from ICE data

Updated 6/16/2014

Northeast Day-Ahead Basis

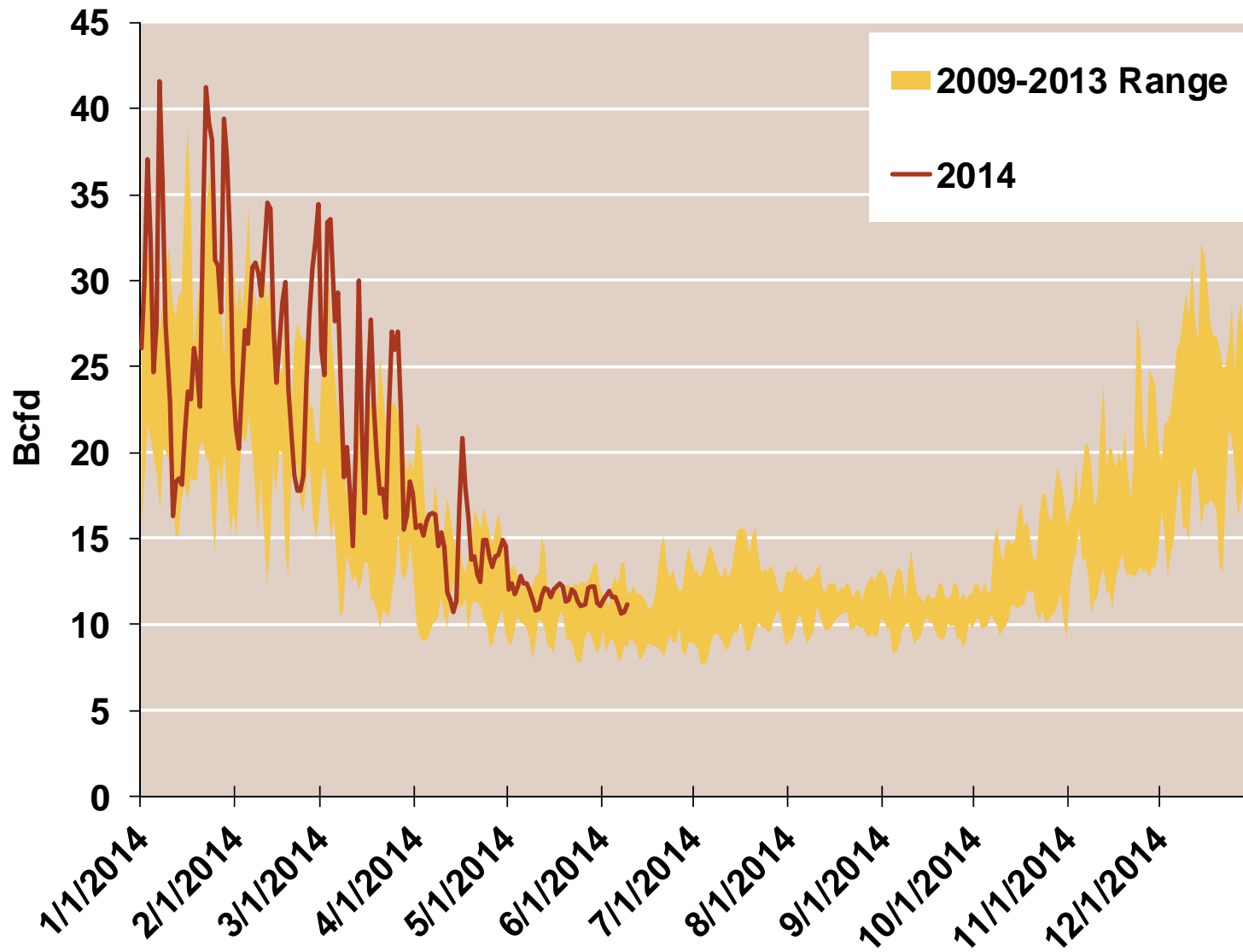


Notes:

Source: Derived from ICE data

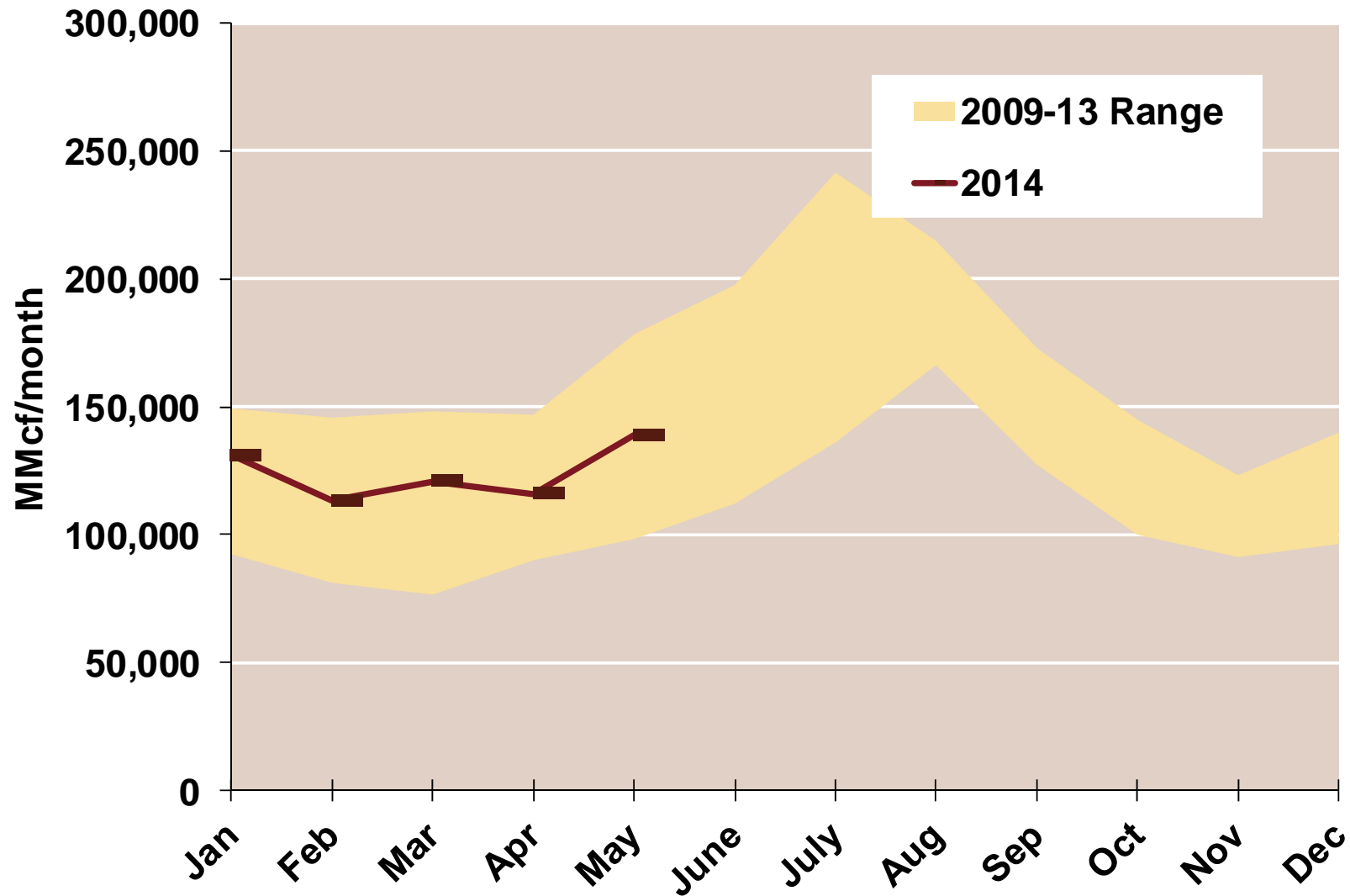
Updated 6/16/2014

Daily Northeast Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data

Northeast Natural Gas Consumption for Power Generation



Southeast Annual Average Day-Ahead Prices

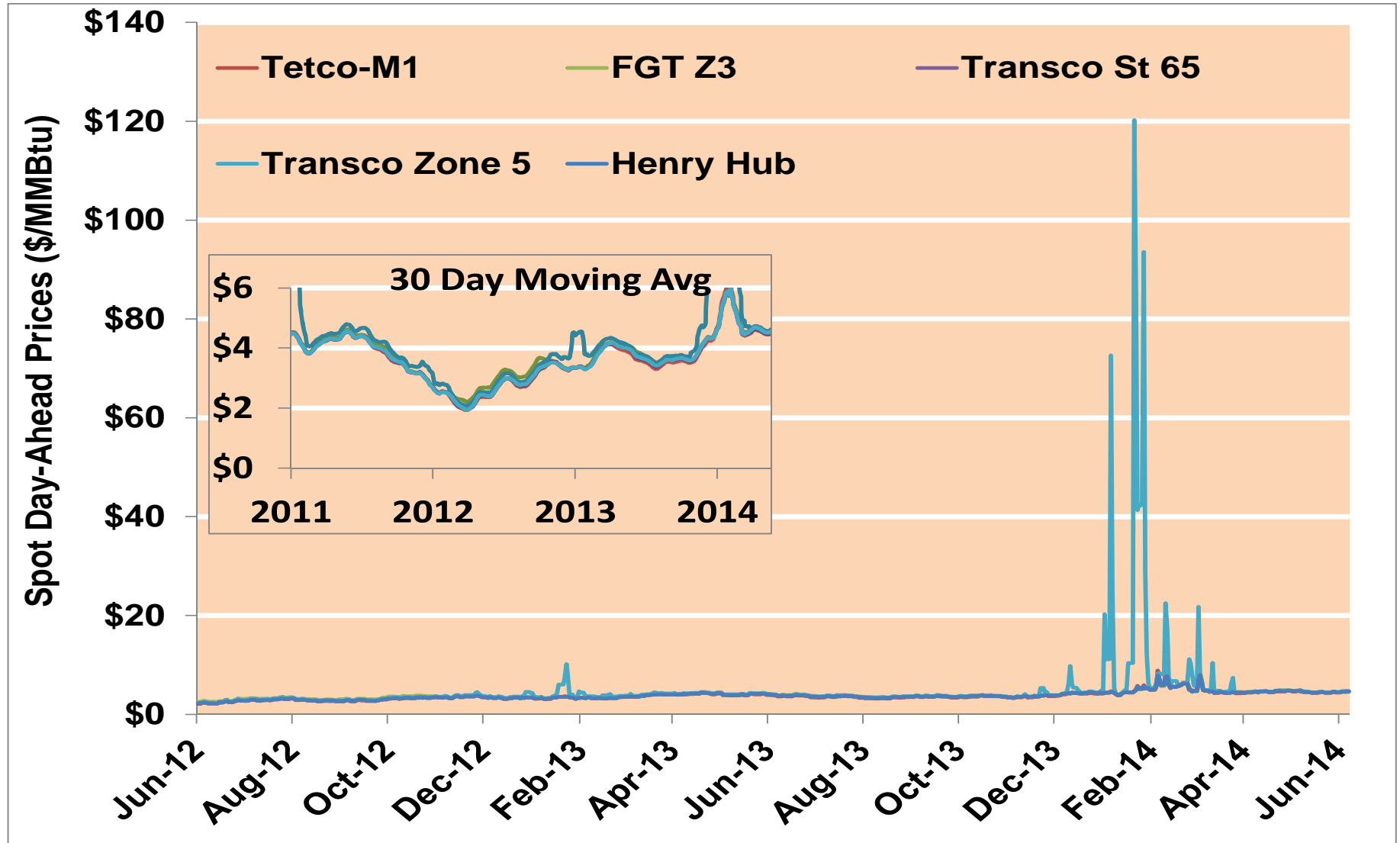
	Average Day Ahead Prices (\$/MMBtu)	FGT Z3	Tetco-M1	Transco St 65	Transco Zone 5	Henry Hub
2011	Annual	4.04	3.98	3.98	4.67	3.98
	Summer	4.22	4.12	4.12	4.65	4.14
	Winter 2011/2012	2.79	2.74	2.74	3.00	2.74
2012	Annual	2.94	2.73	2.74	2.94	2.75
	Summer	2.97	2.65	2.67	2.82	2.69
	Winter 2012/2013	3.51	3.47	3.48	3.95	3.47
2013	Annual	3.77	3.66	3.71	4.07	3.72
	Summer	3.83	3.68	3.74	3.95	3.76
	Winter 2013/2014	4.62	4.61	4.60	12.42	4.61
2014 YTD	Annual	4.89	4.89	4.86	12.60	4.87
	Summer	4.61	4.52	4.54	4.57	4.58
	Winter 2014/2015					

Notes:

Source: Derived from ICE data

Updated 6/19/2014

Southeast Day-Ahead Prices

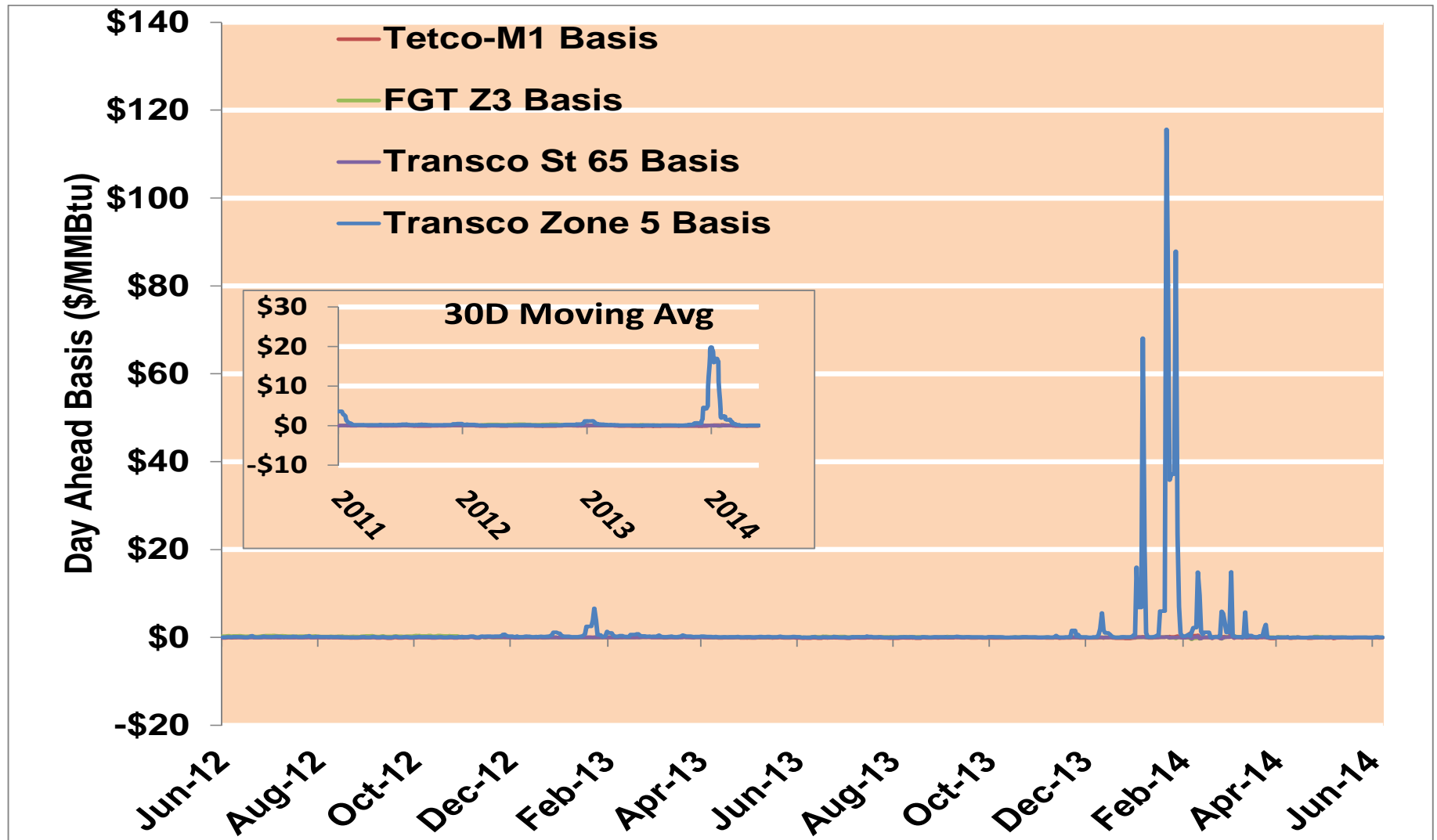


Notes:

Source: Derived from ICE data

Updated 6/19/2014

Southeast Day-Ahead Basis

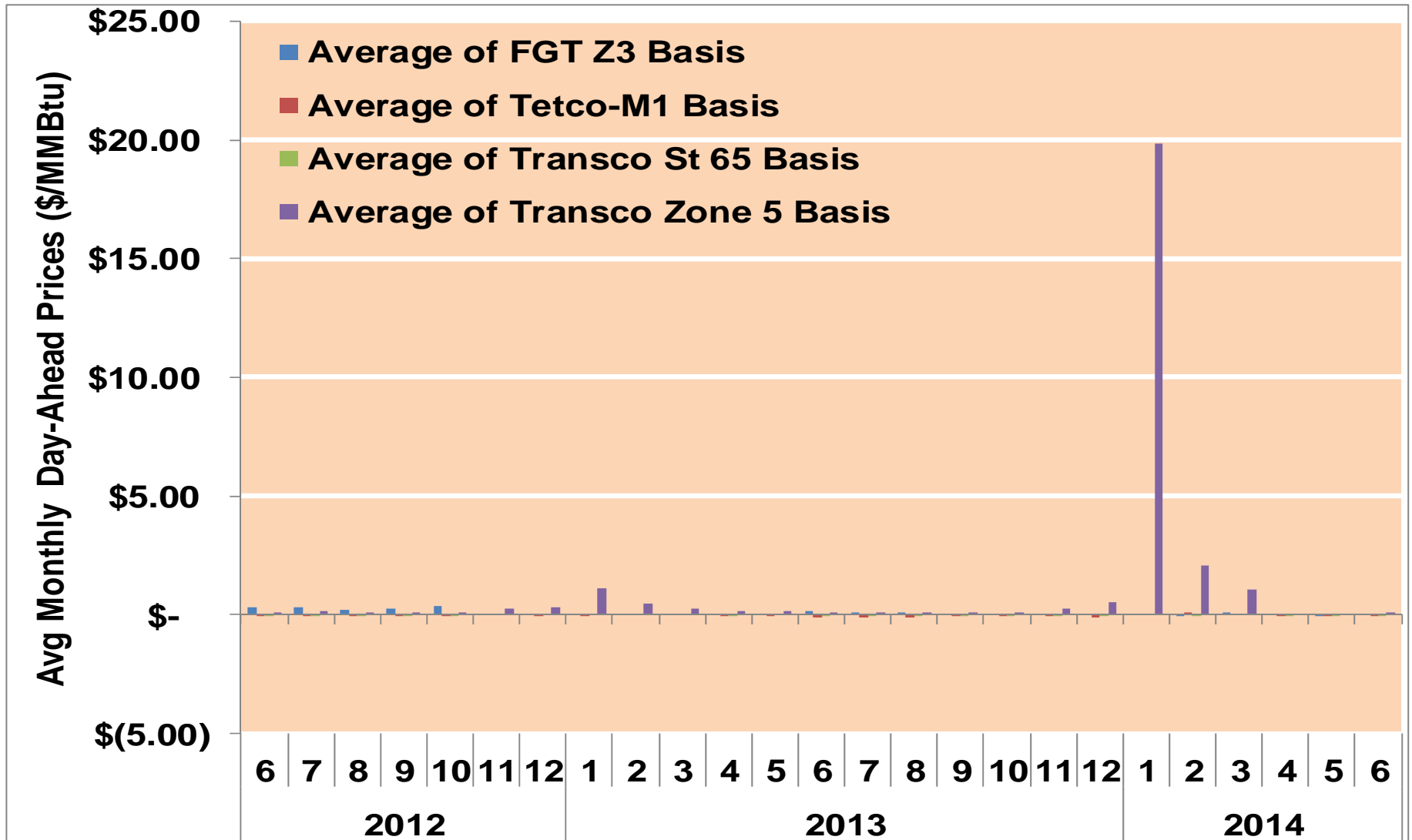


Notes:

Source: Derived from ICE data

Updated 6/19/2014

Southeast Monthly Average Basis Value To Henry Hub

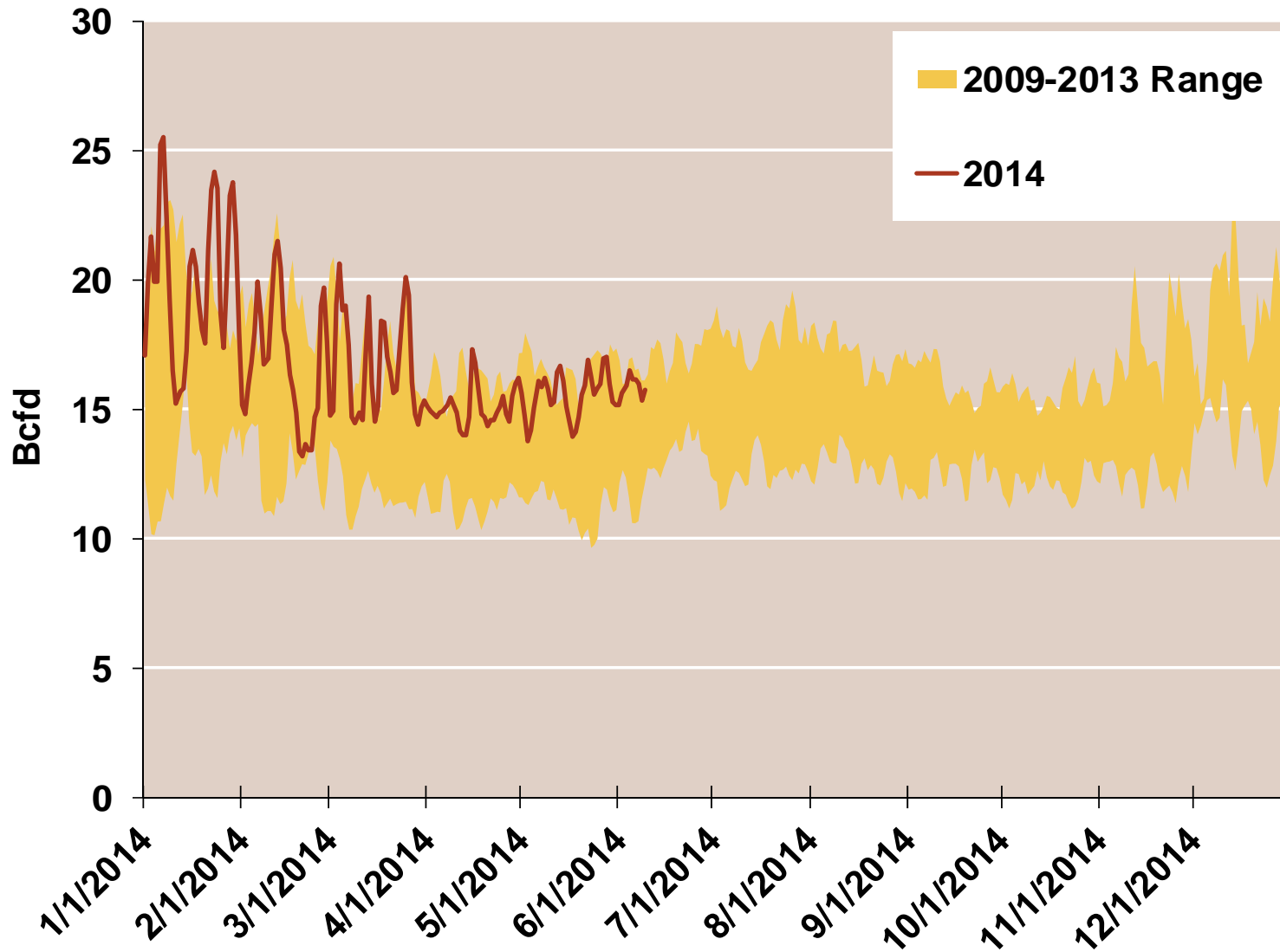


Notes:

Source: Derived from ICE data

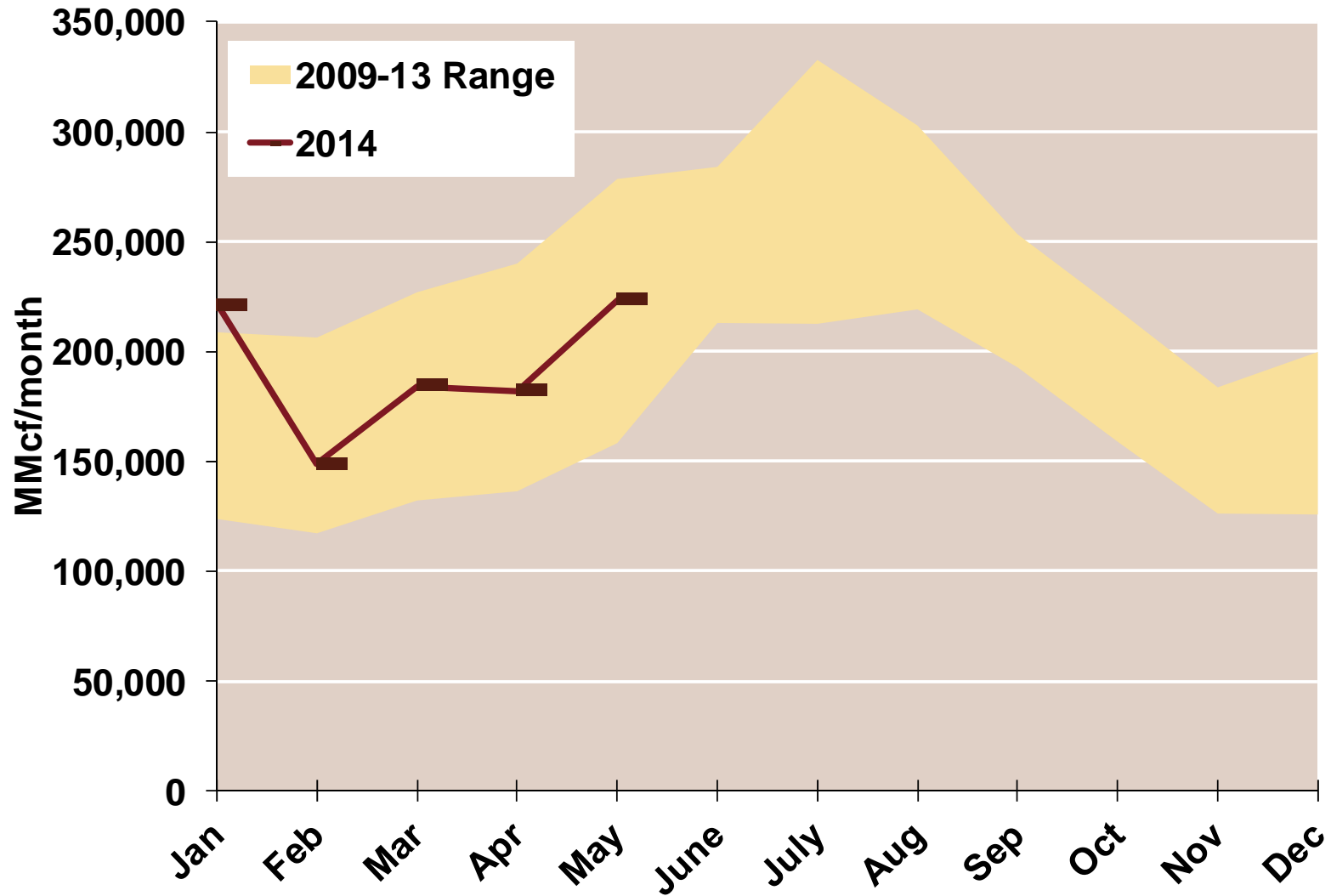
Updated 6/19/2014

Daily Southeast Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data

Southeast Natural Gas Consumption for Power Generation

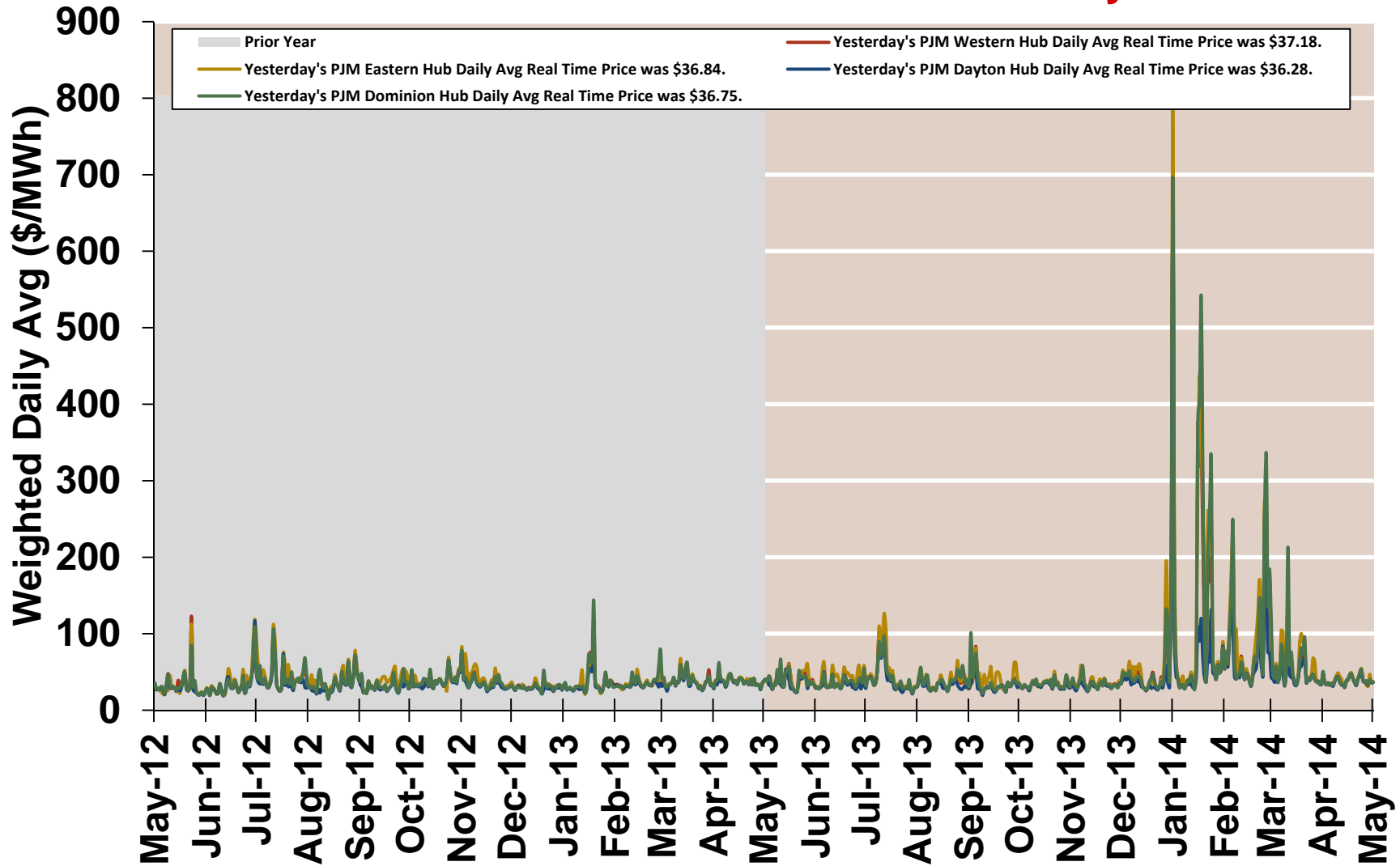




Electricity Markets

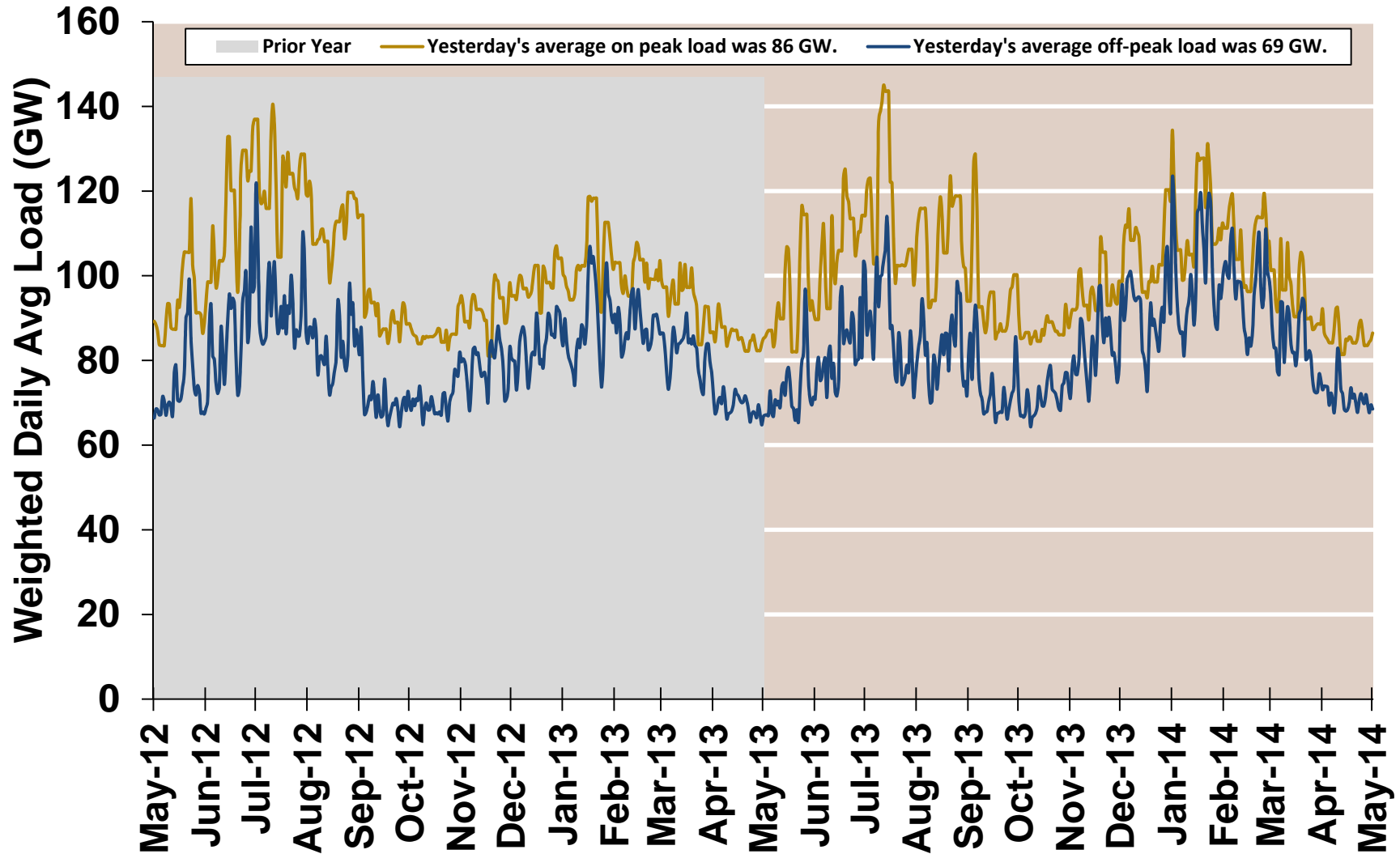
East

PJM Real Time Prices—Two Year History



Source: Genscape via Bloomberg

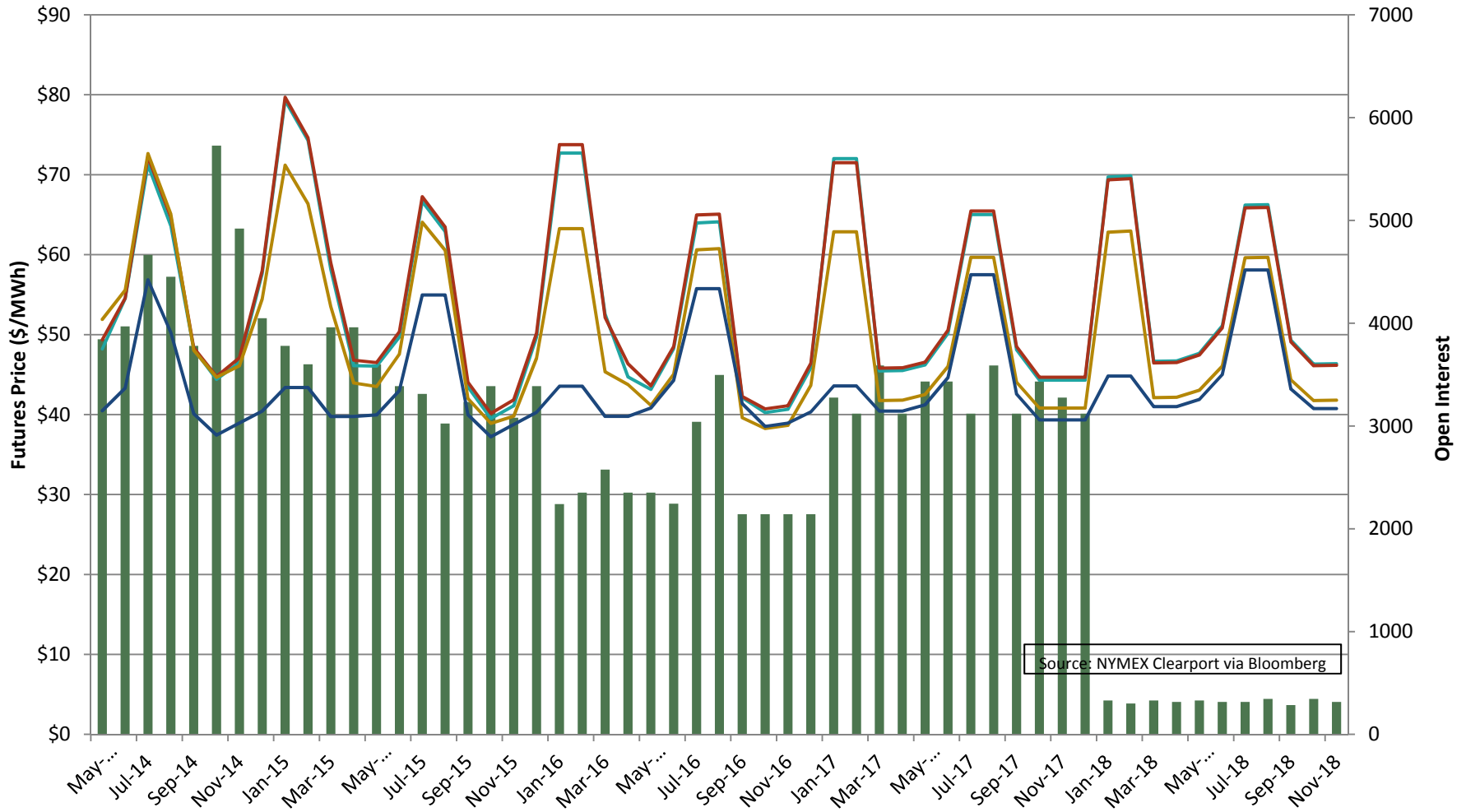
PJM System Daily Average Load —Two Year History



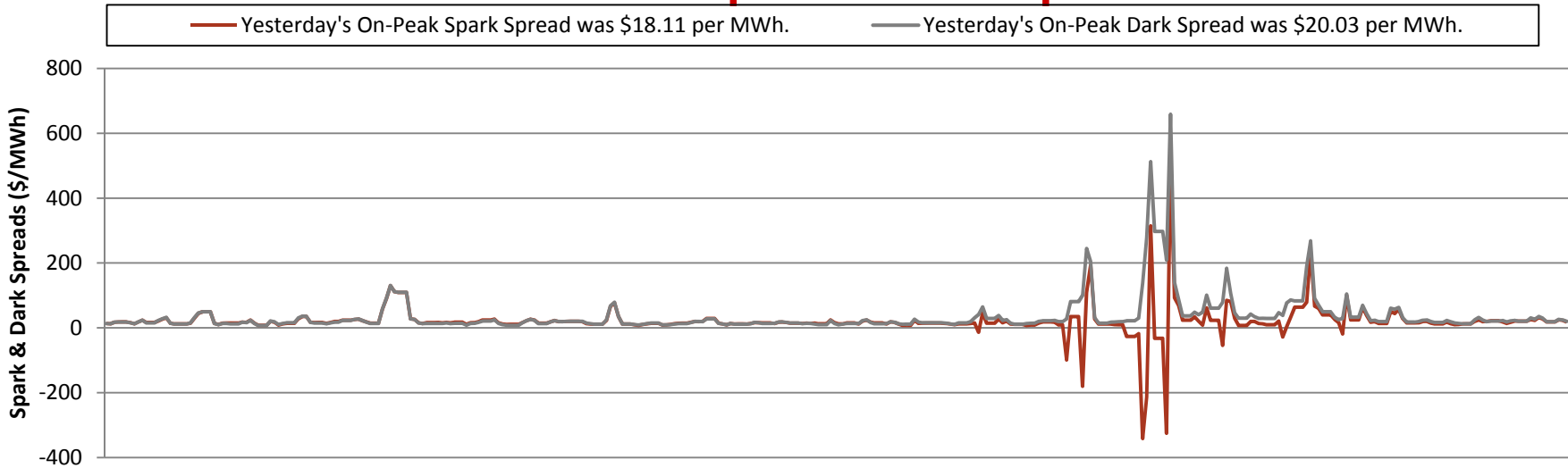
Source: Genscape via Bloomberg

PJM Western Hub Peak RT Futures

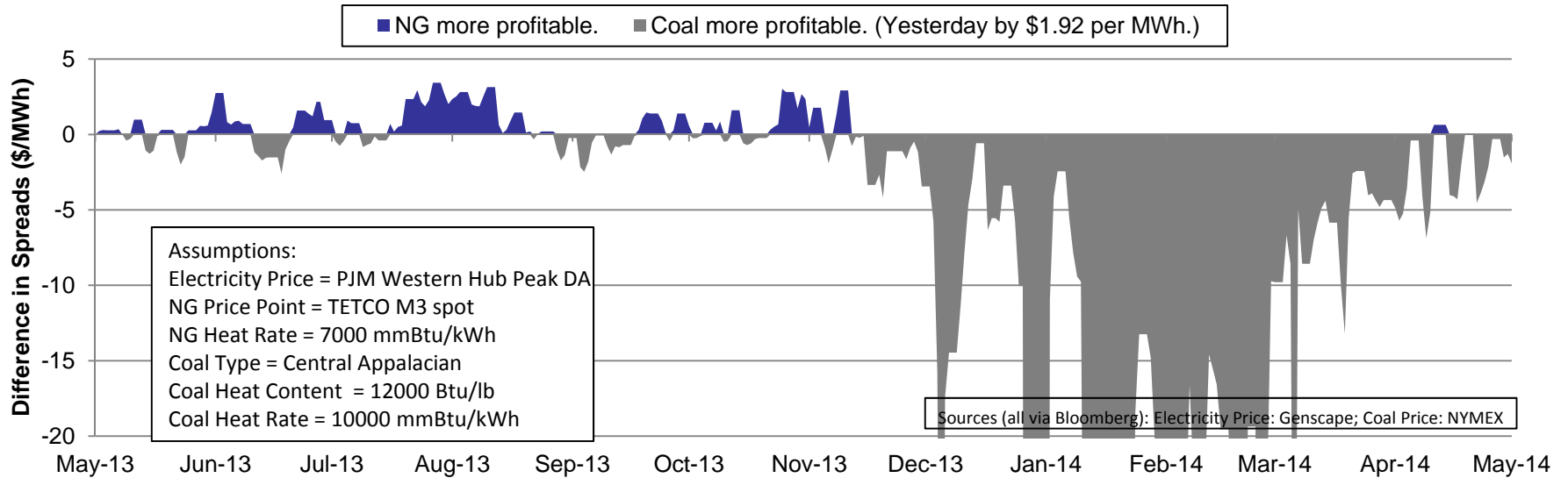
■ Current open interest for next month is 3969 contracts.
— Yesterday's forward curve range was \$40 to \$79.
— One week ago the forward curve range was \$40 to \$80.
— One month ago the forward curve range was \$38 to \$73.
— Six months ago the forward curve range was \$37 to \$58.



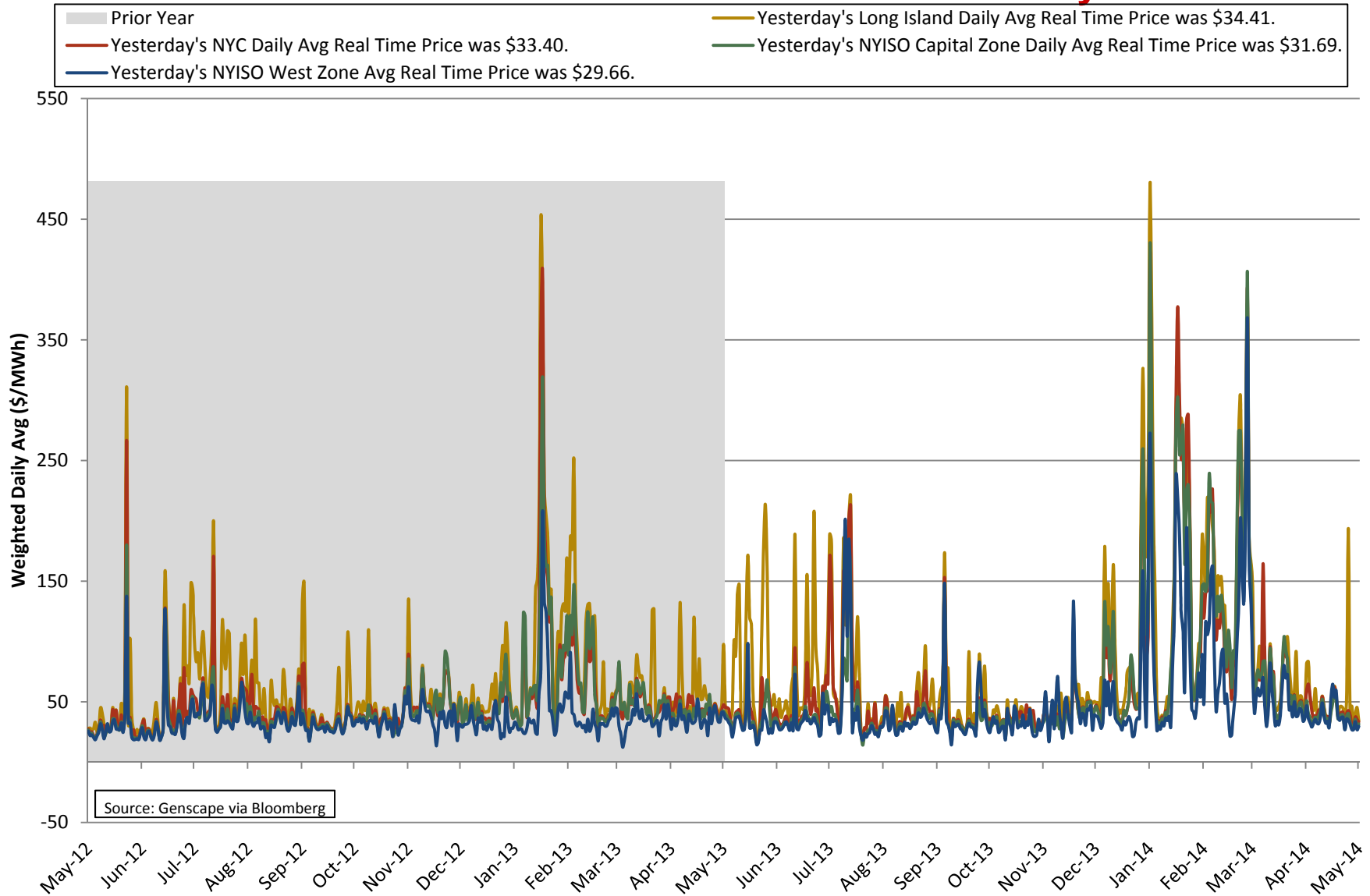
PJM On-Peak Spark & Dark Spreads



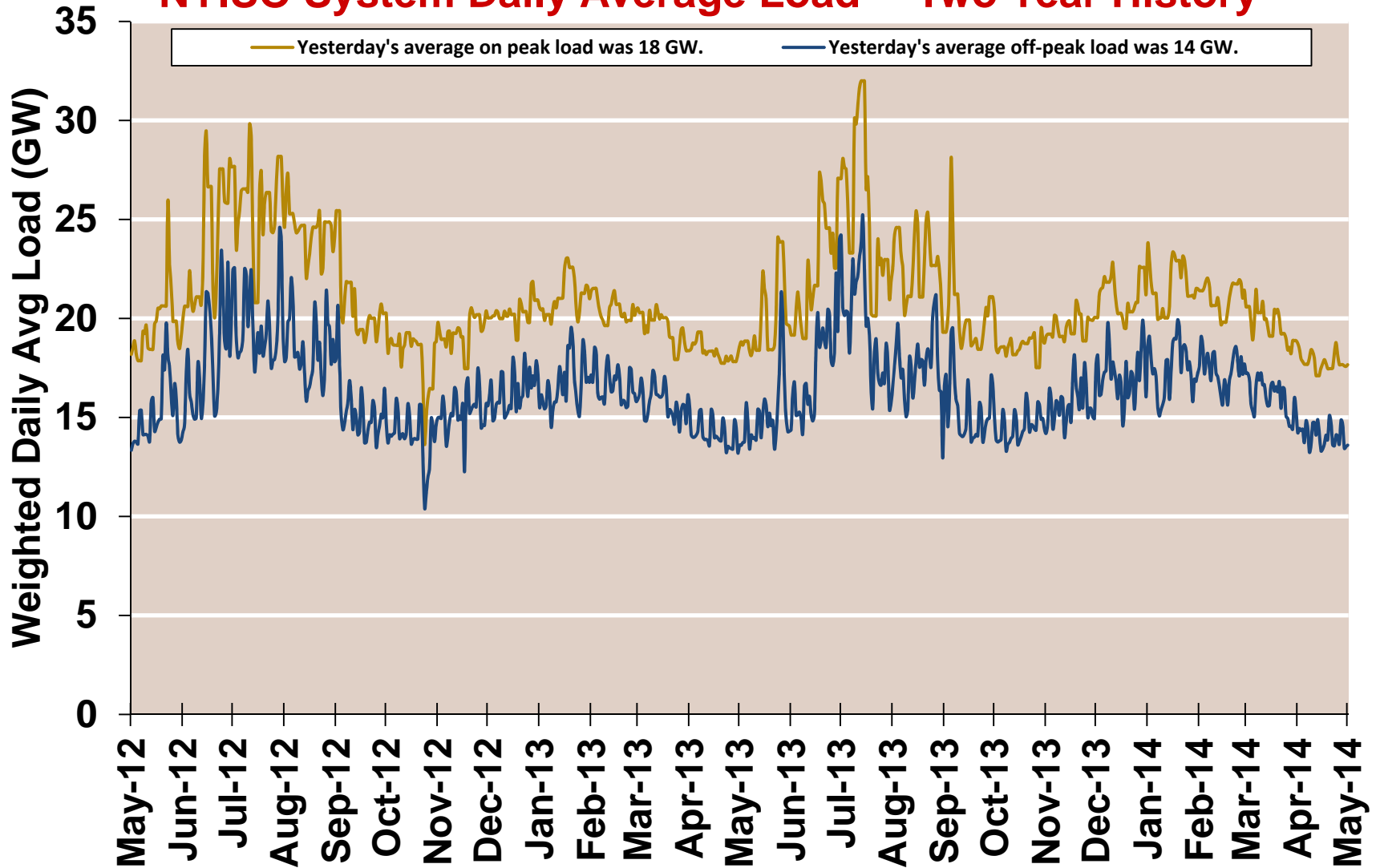
Spark Spread minus Dark Spread, 5/7/13 to 5/7/14



NYISO Real Time Prices—Two Year History

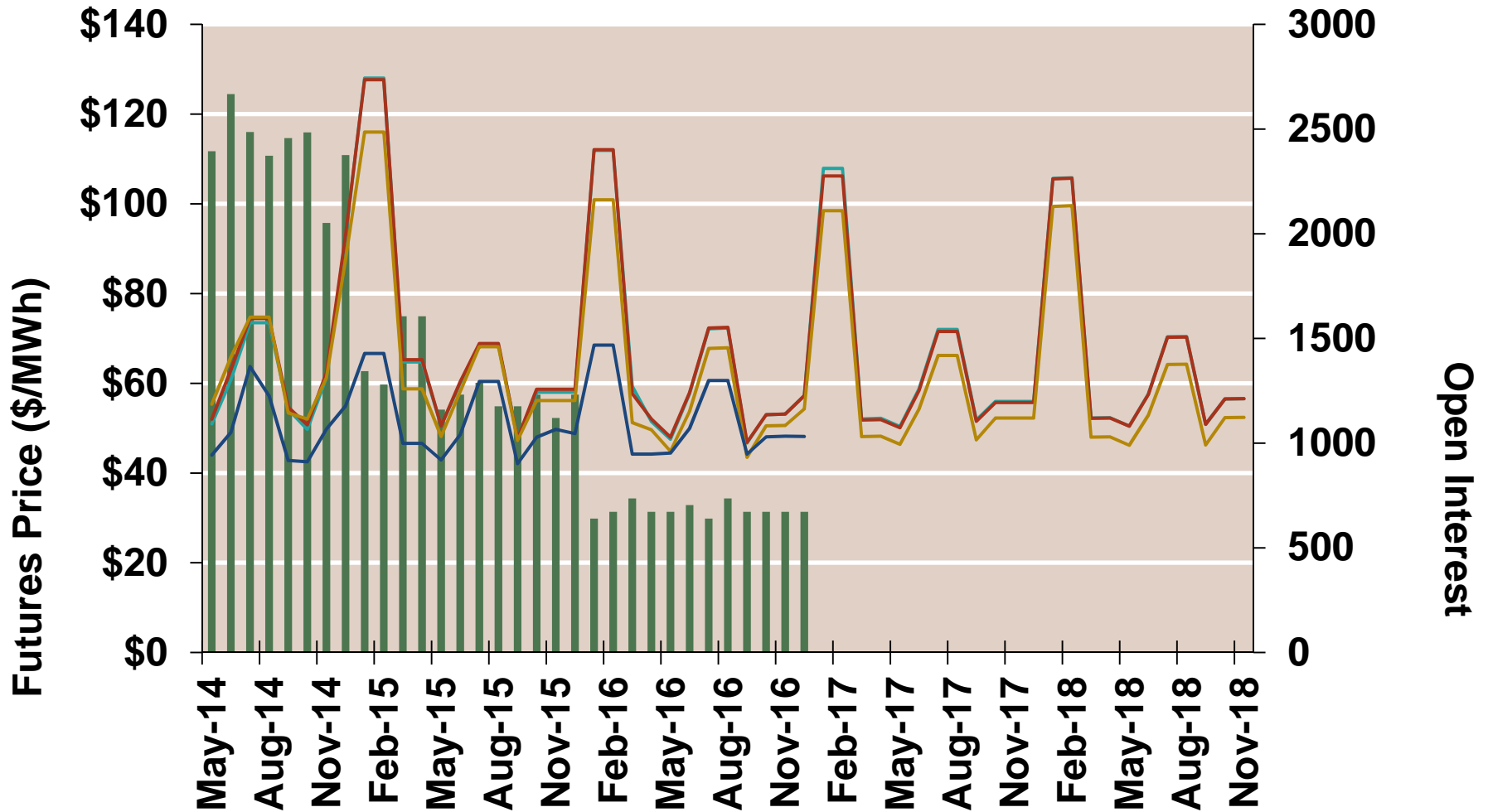


NYISO System Daily Average Load — Two Year History



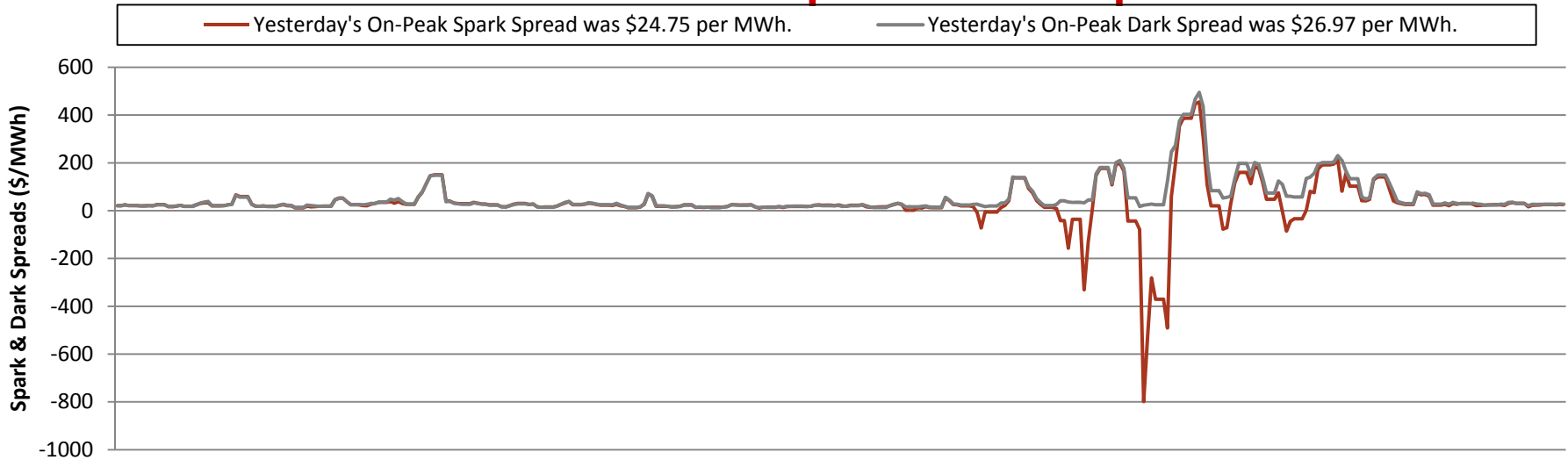
Source: Genscape via Bloomberg

NYISO Hudson Valley Zone Peak DA Futures

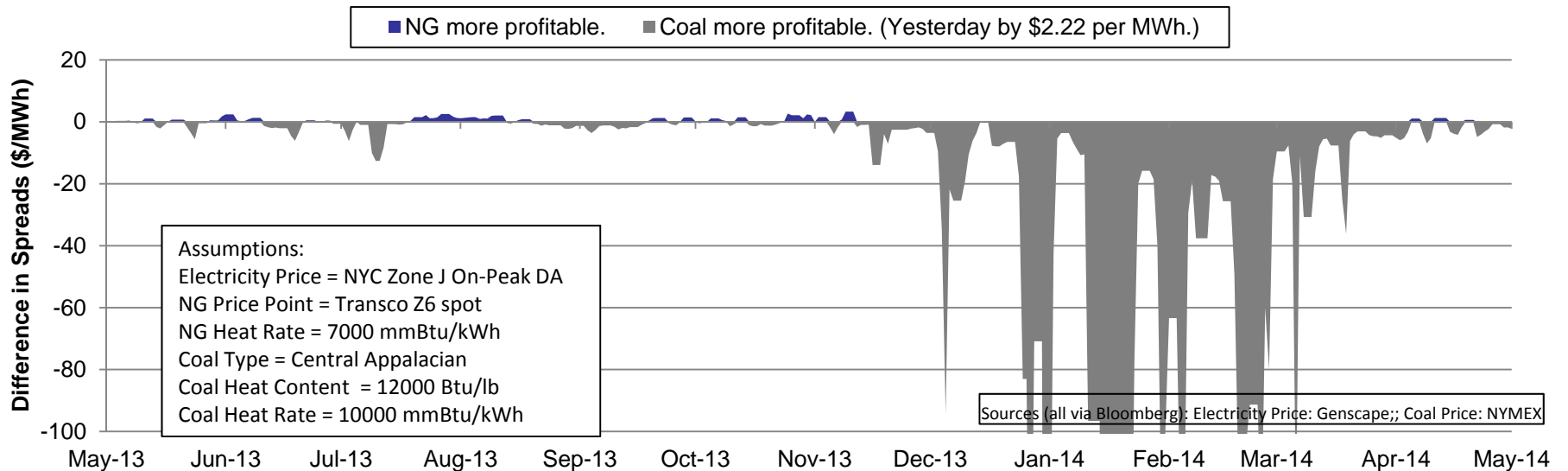


Source: NYMEX Clearport via Bloomberg

NYISO NYC On-Peak Spark & Dark Spreads

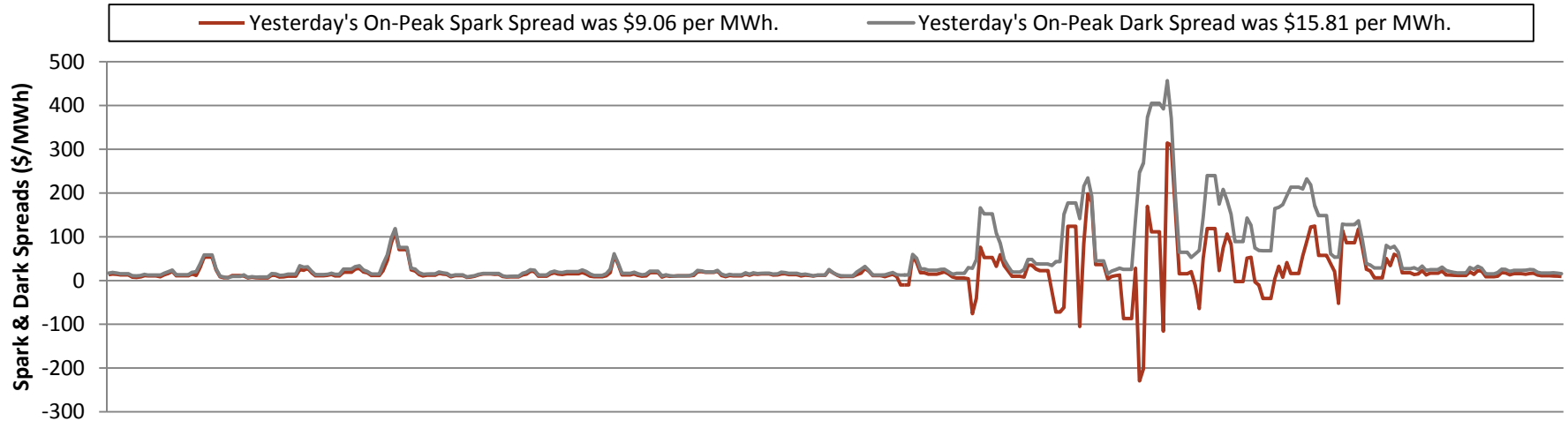


Spark Spread minus Dark Spread, 5/7/13 to 5/7/14

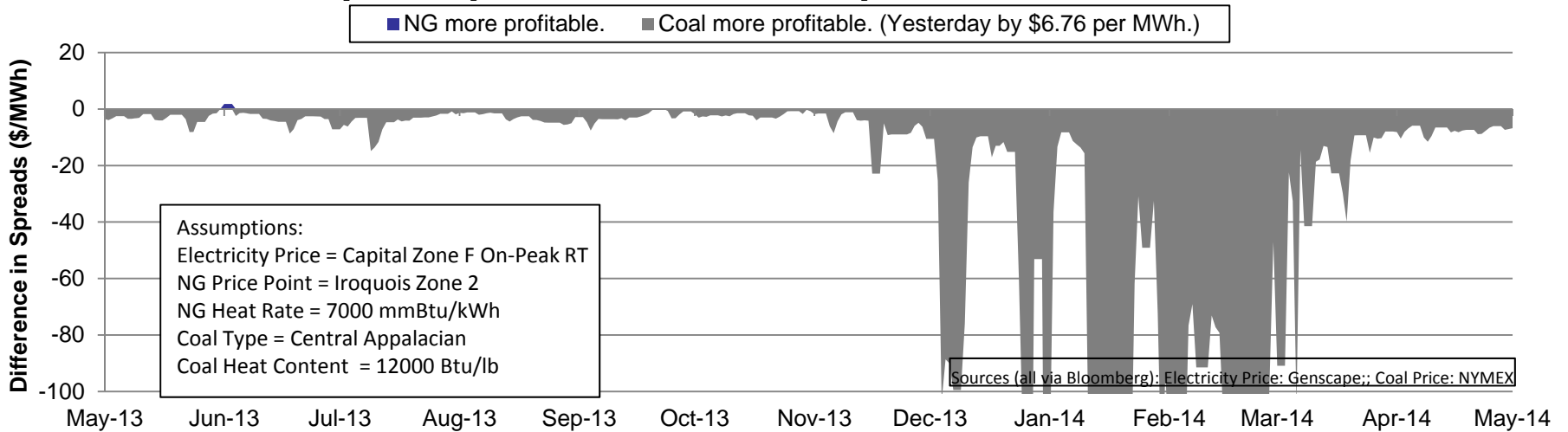


NYISO NYC On-Peak Spark & Dark Spreads

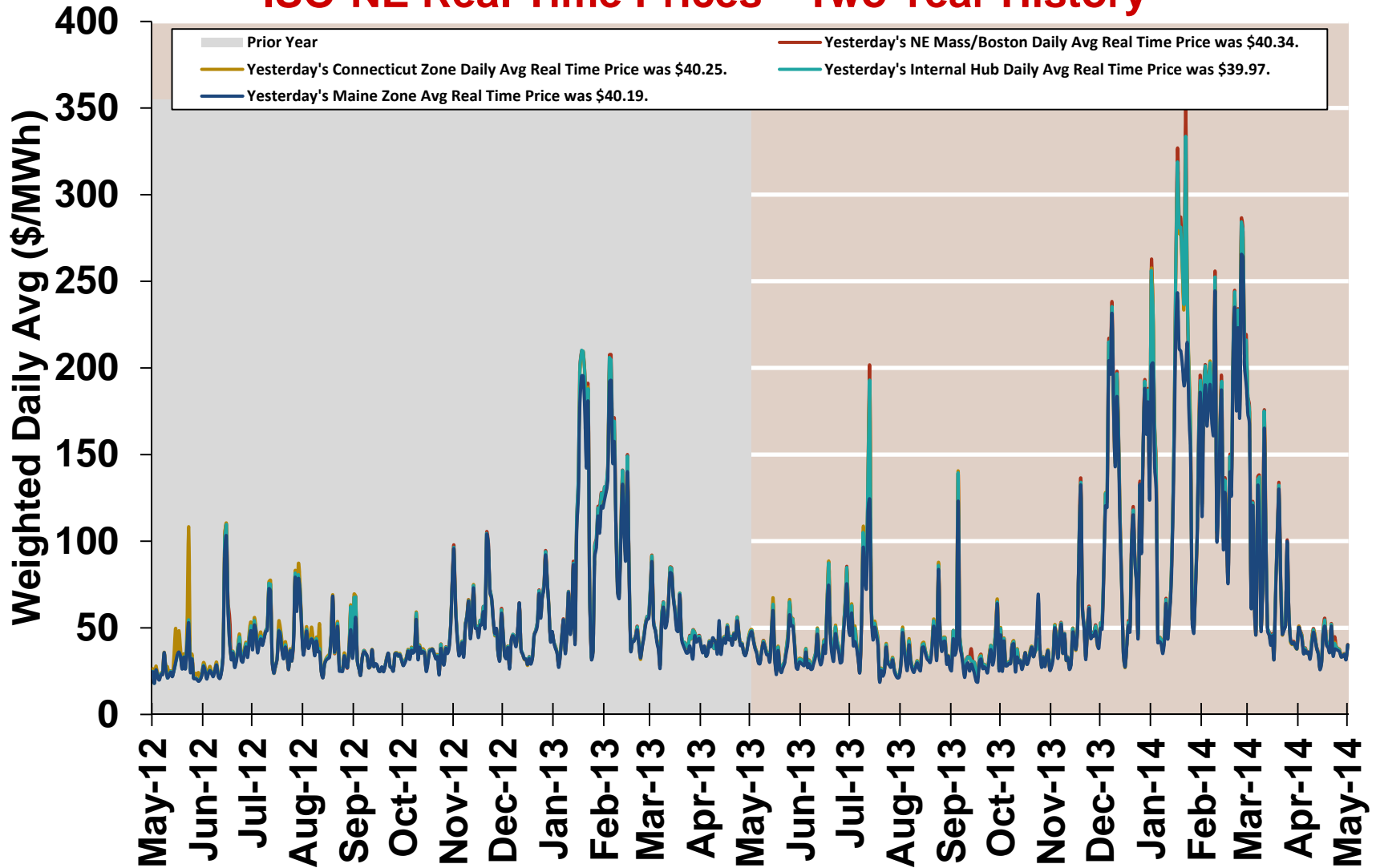
NYISO Capital Zone On-Peak Spark & Dark Spreads 5/7/13 to 5/7/14



Spark Spread minus Dark Spread, 5/7/13 to 5/7/14

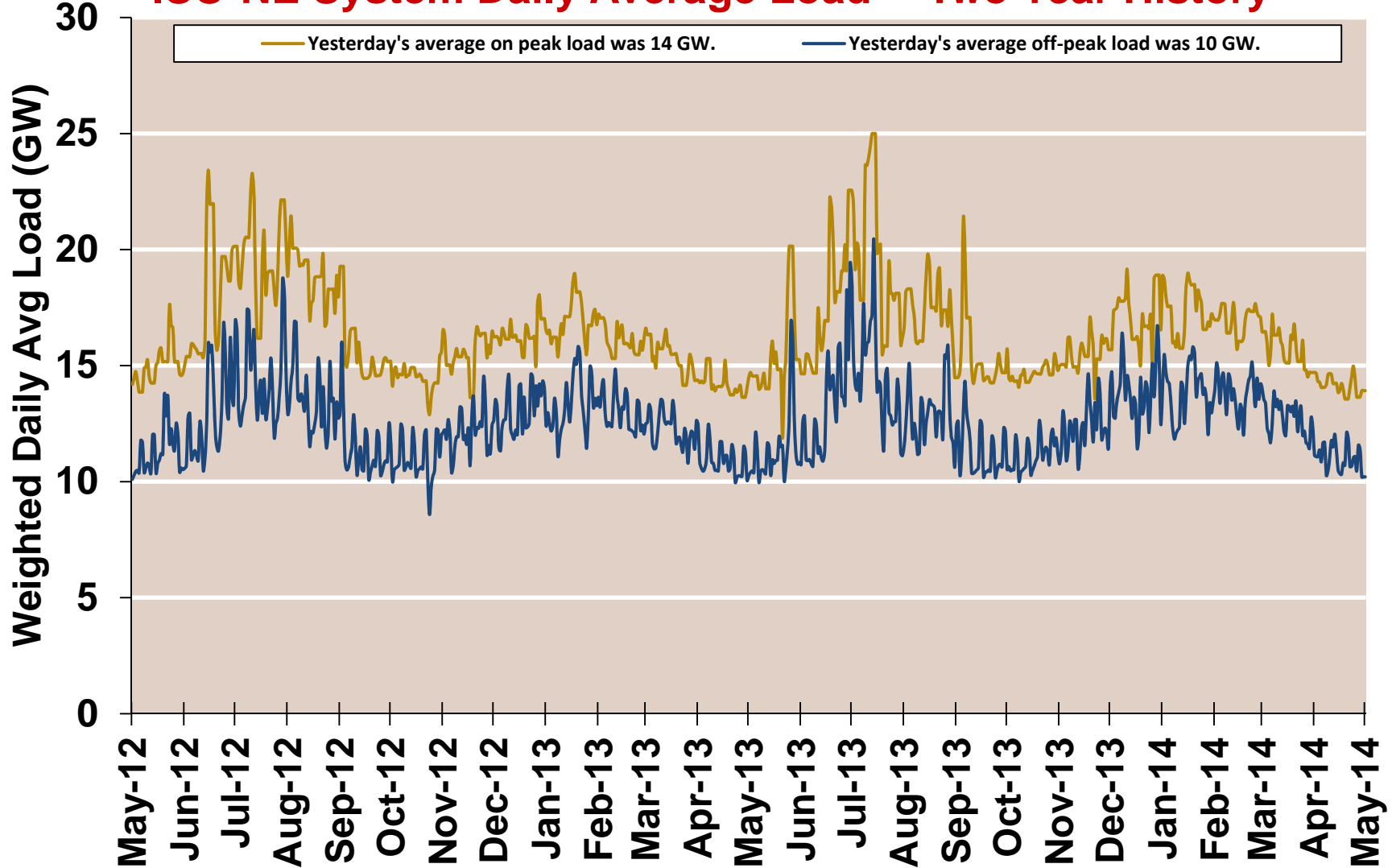


ISO-NE Real Time Prices—Two Year History

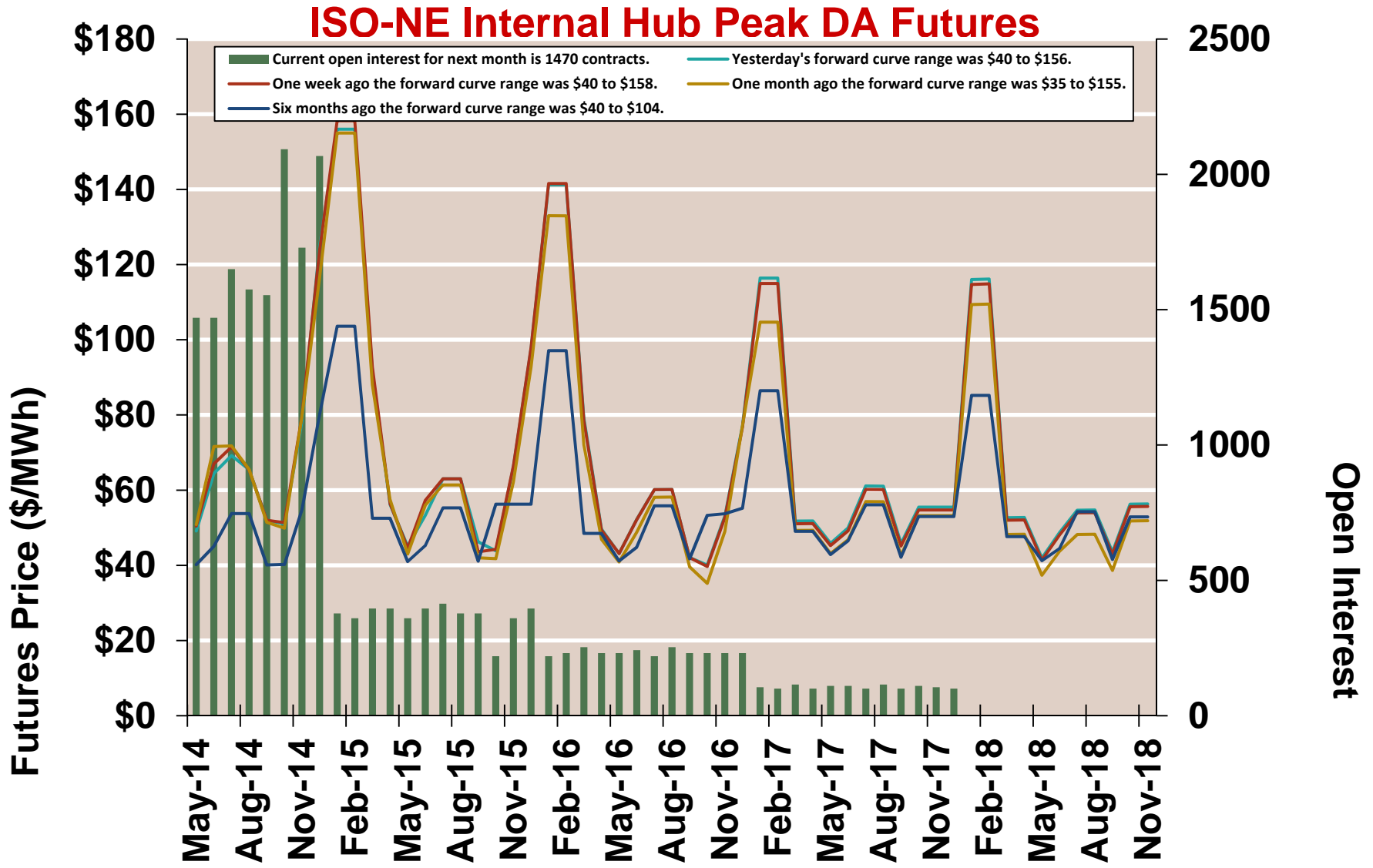


Source: Genscape via Bloomberg

ISO-NE System Daily Average Load —Two Year History

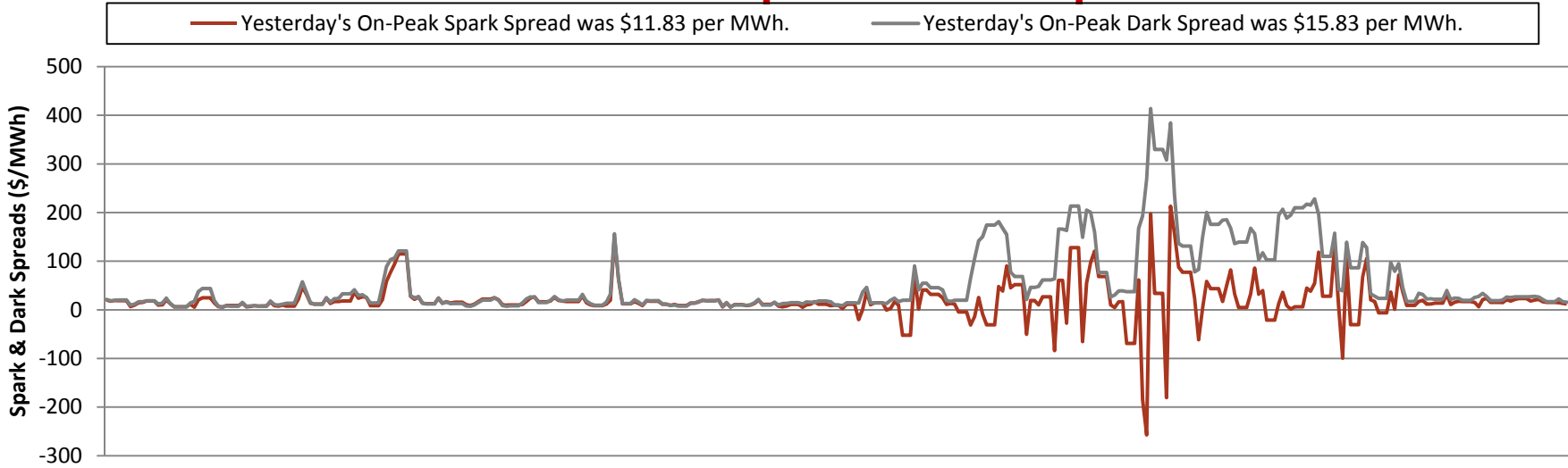


Source: Genscape via Bloomberg

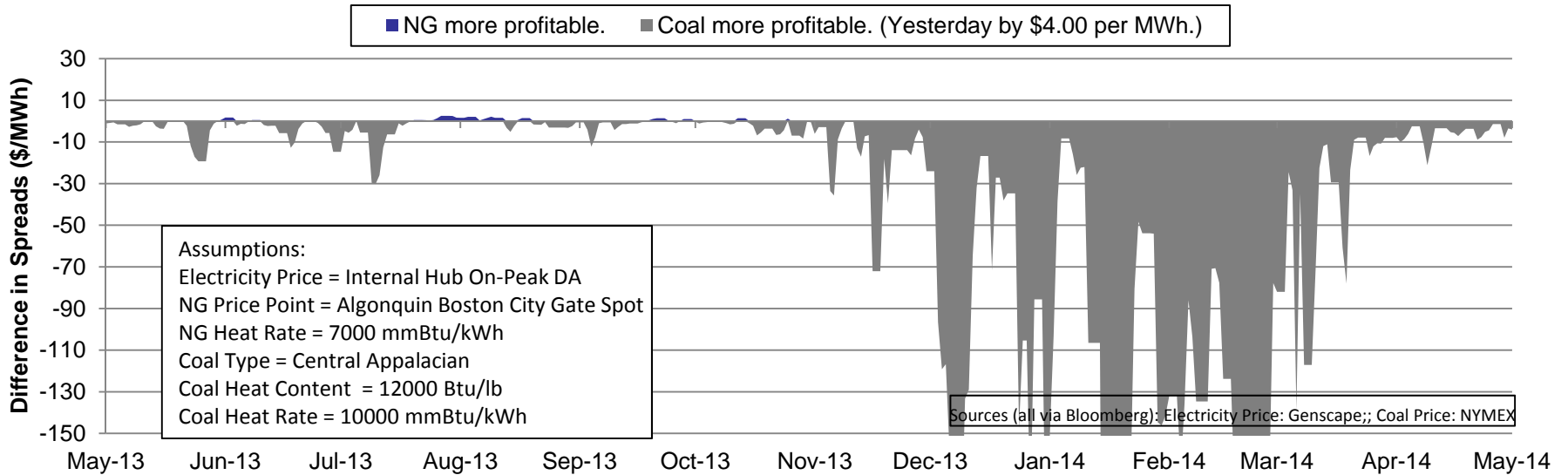


Source: NYMEX Clearport via Bloomberg

ISO-NE On-Peak Spark & Dark Spreads



Spark Spread minus Dark Spread, 5/7/13 to 5/7/14

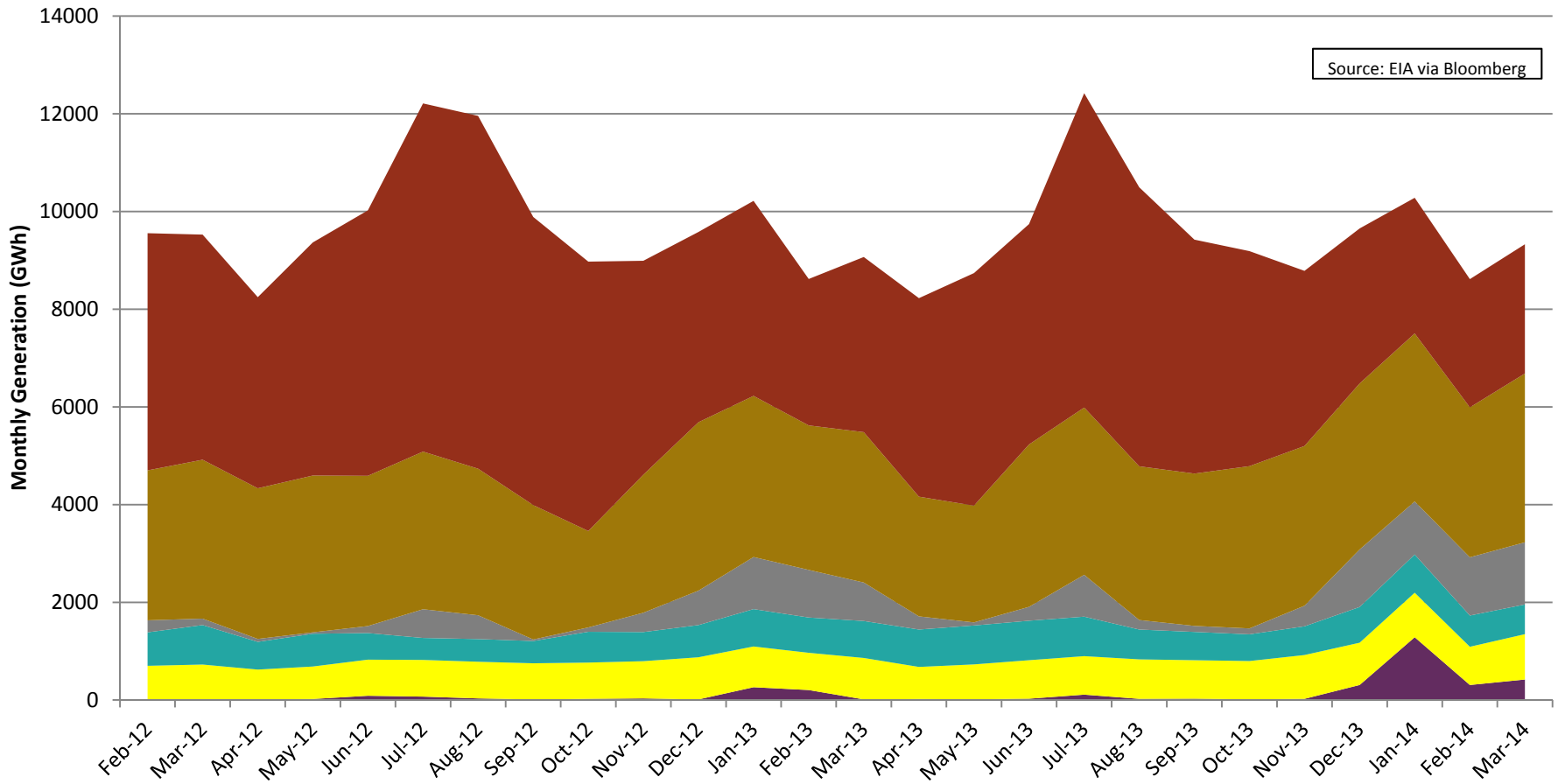


New England Regional Generation Mix, Feb '12 to Mar '14

States: CT, ME, MA, NH, RI, VT

- Gas Generation in Mar '14 was 2647 GWh (28%).
- Nuclear Generation in Mar '14 was 3454 GWh (37%).
- Coal Generation in Mar '14 was 1273 GWh (14%).
- Hydro Generation in Mar '14 was 607 GWh (7%).
- Othr Renew Generation in Mar '14 was 928 GWh (10%).
- Oil Generation in Mar '14 was 421 GWh (5%).
- Total Generation in Mar '14 was 9330 GWh.

Source: EIA via Bloomberg

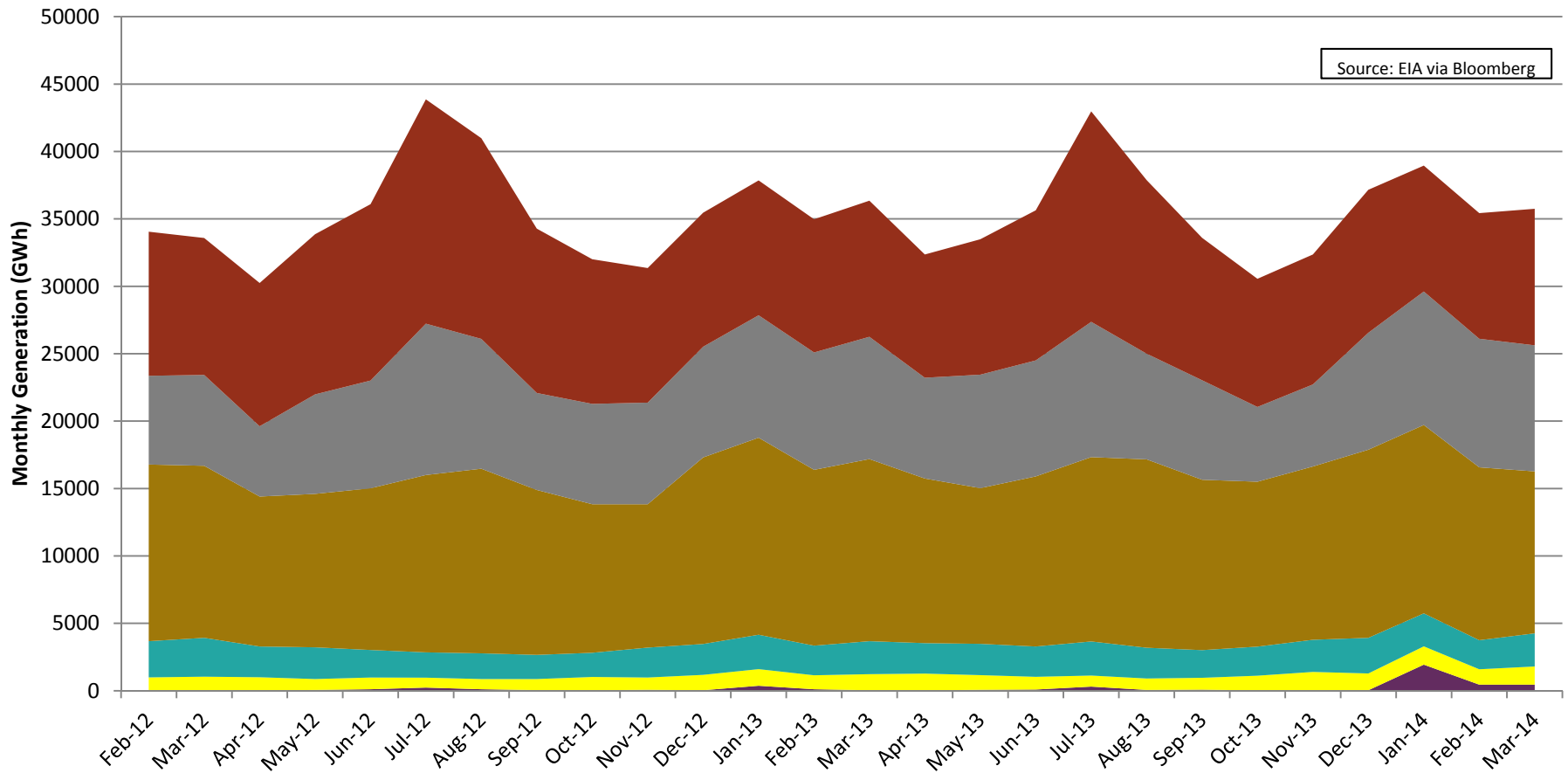


Middle Atlantic Regional Generation Mix, Feb '12 to Mar '14

States: NJ, NY, PA

- Gas Generation in Mar '14 was 10127 GWh (28%).
- Coal Generation in Mar '14 was 9352 GWh (26%).
- Nuclear Generation in Mar '14 was 12019 GWh (34%).
- Hydro Generation in Mar '14 was 2449 GWh (7%).
- Othr Renew Generation in Mar '14 was 1348 GWh (4%).
- Oil Generation in Mar '14 was 456 GWh (1%).
- Total Generation in Mar '14 was 35751 GWh.

Source: EIA via Bloomberg



South Atlantic Regional Generation Mix, Feb '12 to Mar '14

States: DC, DE, FL, GA, MD, NC, SC, VA, WV

- Coal Generation in Mar '14 was 25532 GWh (41%).
 - Gas Generation in Mar '14 was 18717 GWh (30%).
 - Nuclear Generation in Mar '14 was 15135 GWh (24%).
 - Hydro Generation in Mar '14 was 1394 GWh (2%).
 - Othr Renew Generation in Mar '14 was 1785 GWh (3%).
 - Oil Generation in Mar '14 was 337 GWh (1%).
- Total Generation in Mar '14 was 62900 GWh.

Source: EIA via Bloomberg

