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

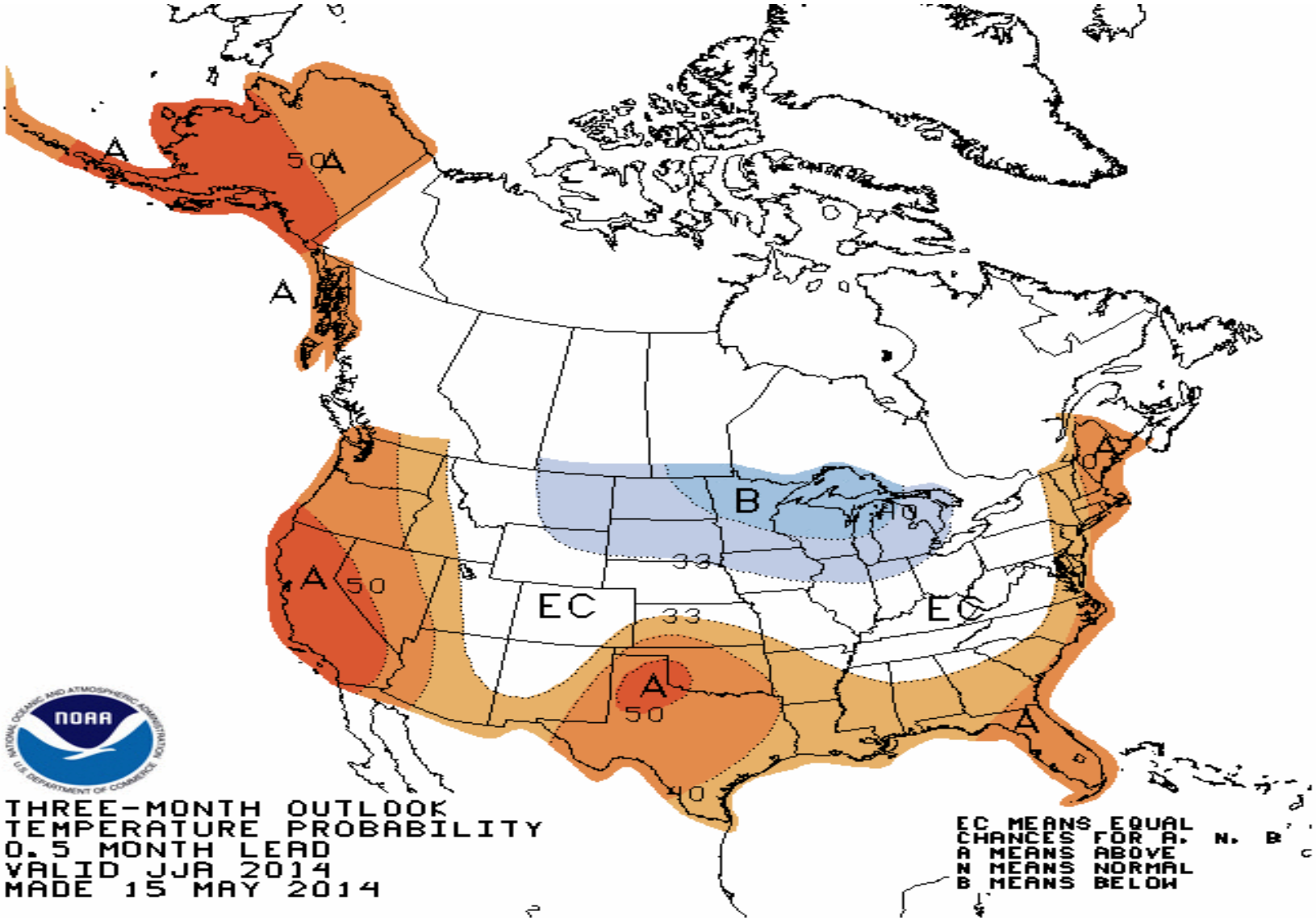
Infrastructure Report

Office of Energy Projects Energy Infrastructure Update
http://www.ferc.gov/legal/staff-reports.asp

(see “Energy Infrastructure” tab)

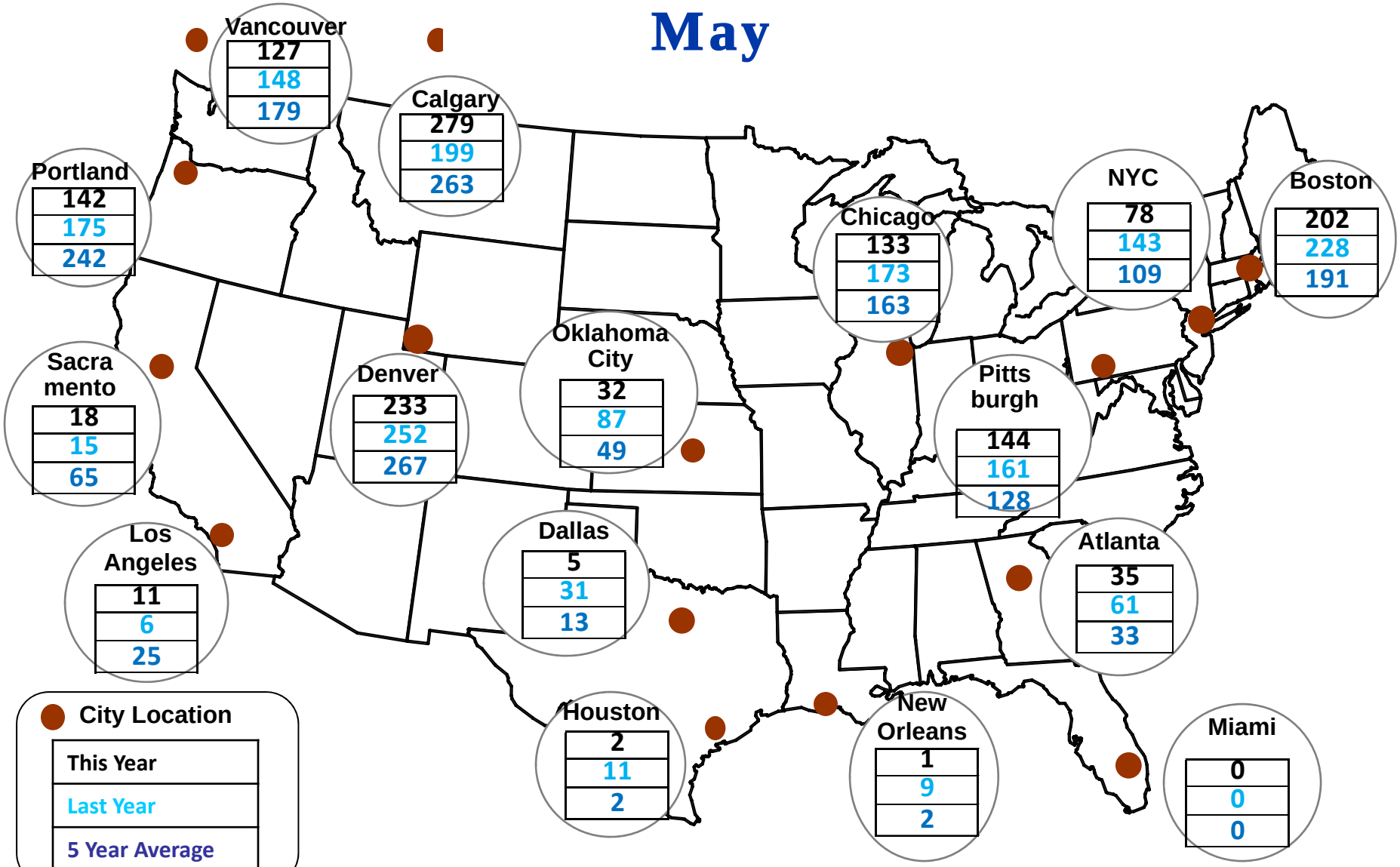
National Slides

NOAA 3 Month Outlook



Cumulative HDDs by City

May

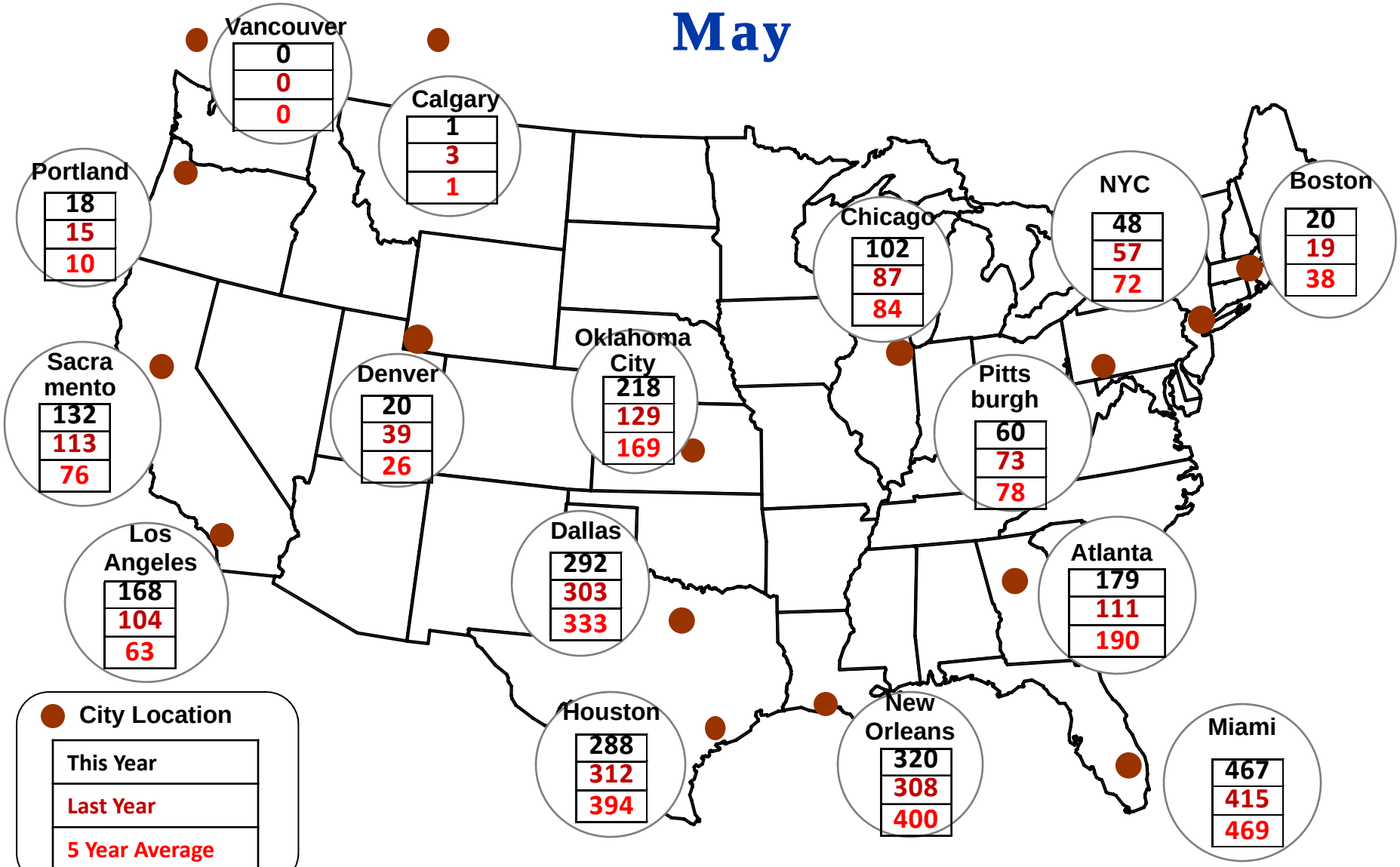


Source: Bloomberg Weather

Updated 6/19/2014

Cumulative CDDs by City

May



Source: Bloomberg Weather

Updated 6/19/2014

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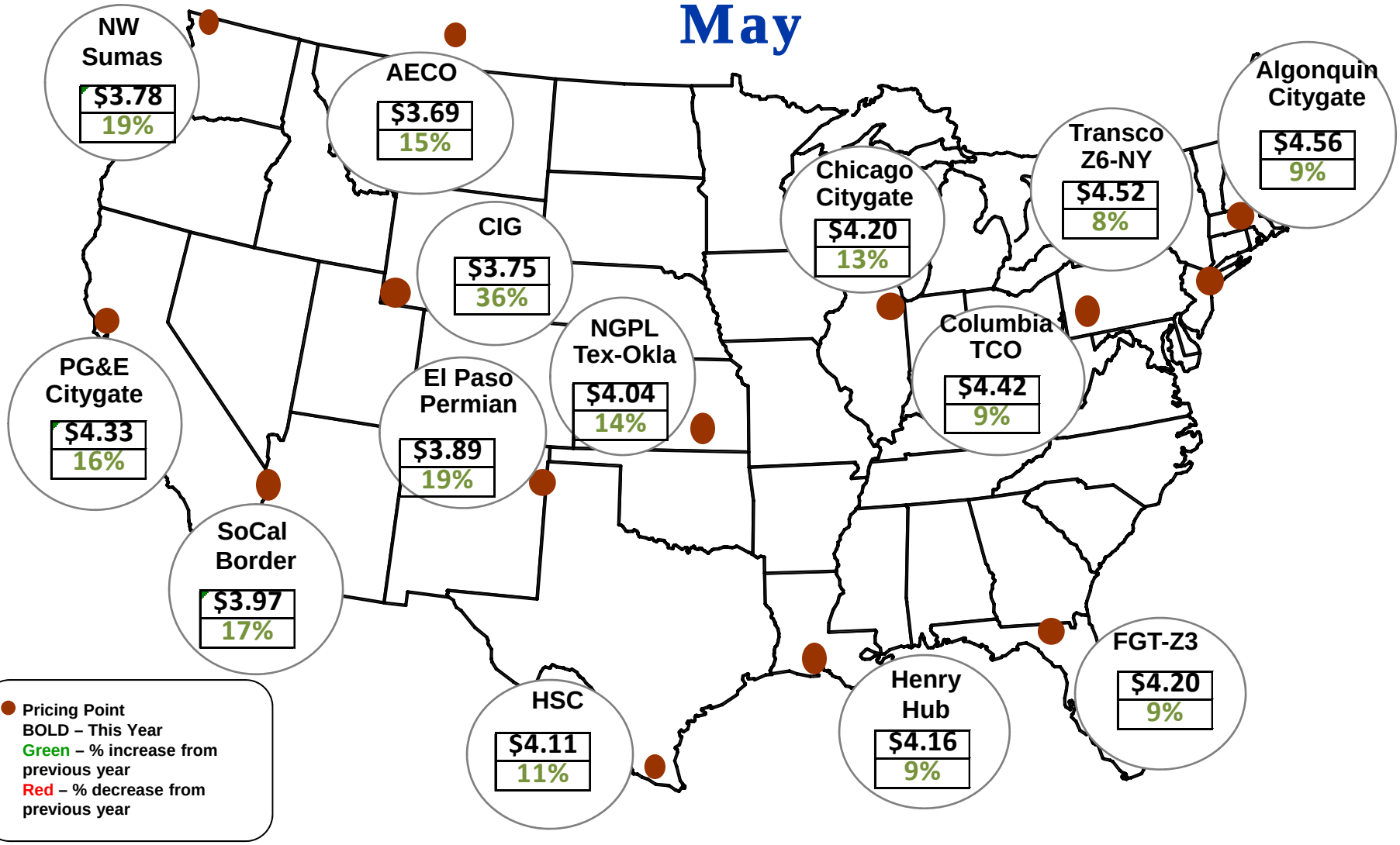
Spot Natural Gas Prices Average ($/MMBtu)

May

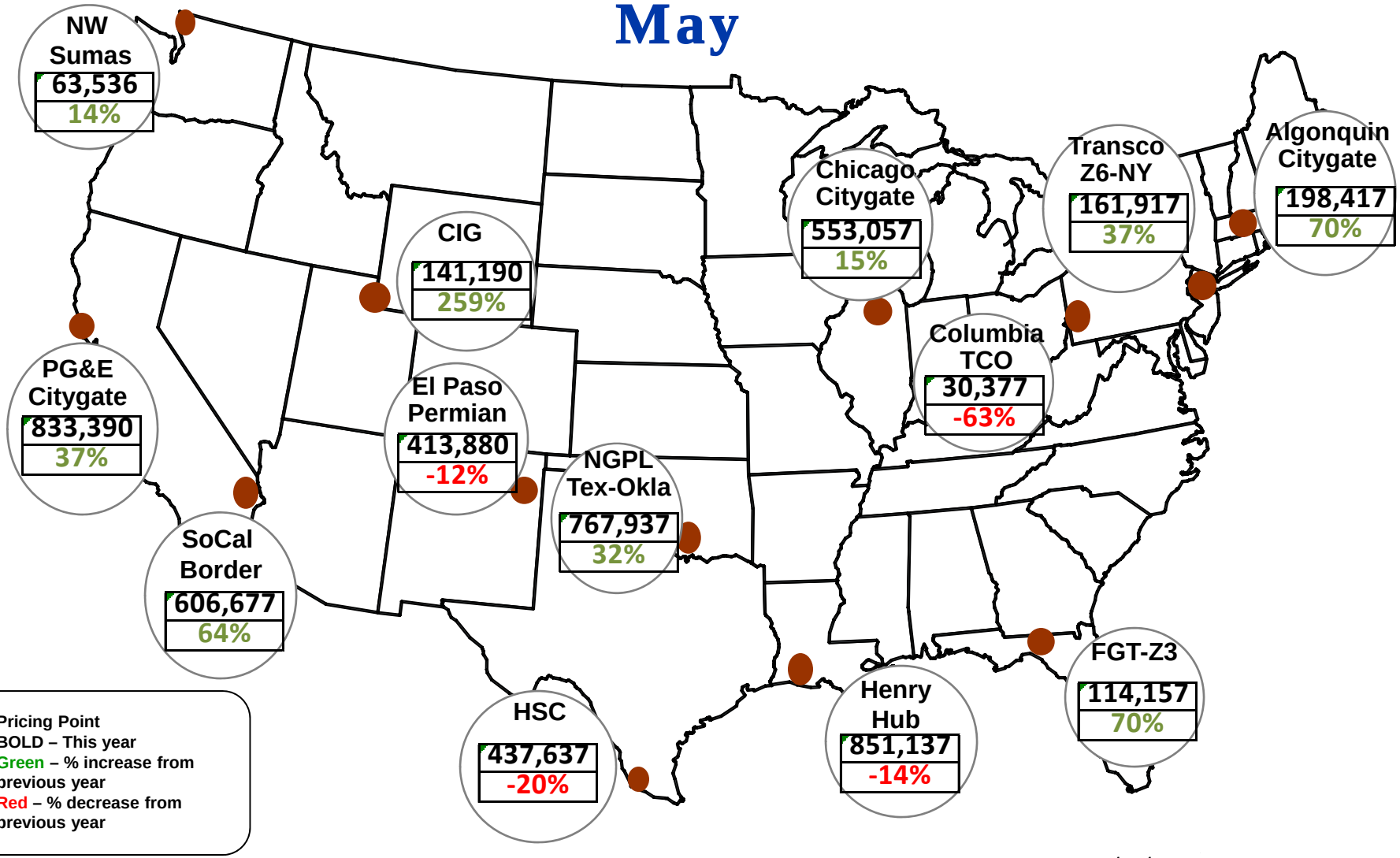


Source: ICE

Updated 6/19/2014

Spot Natural Gas Trading Volumes Average (MMBtus)

May

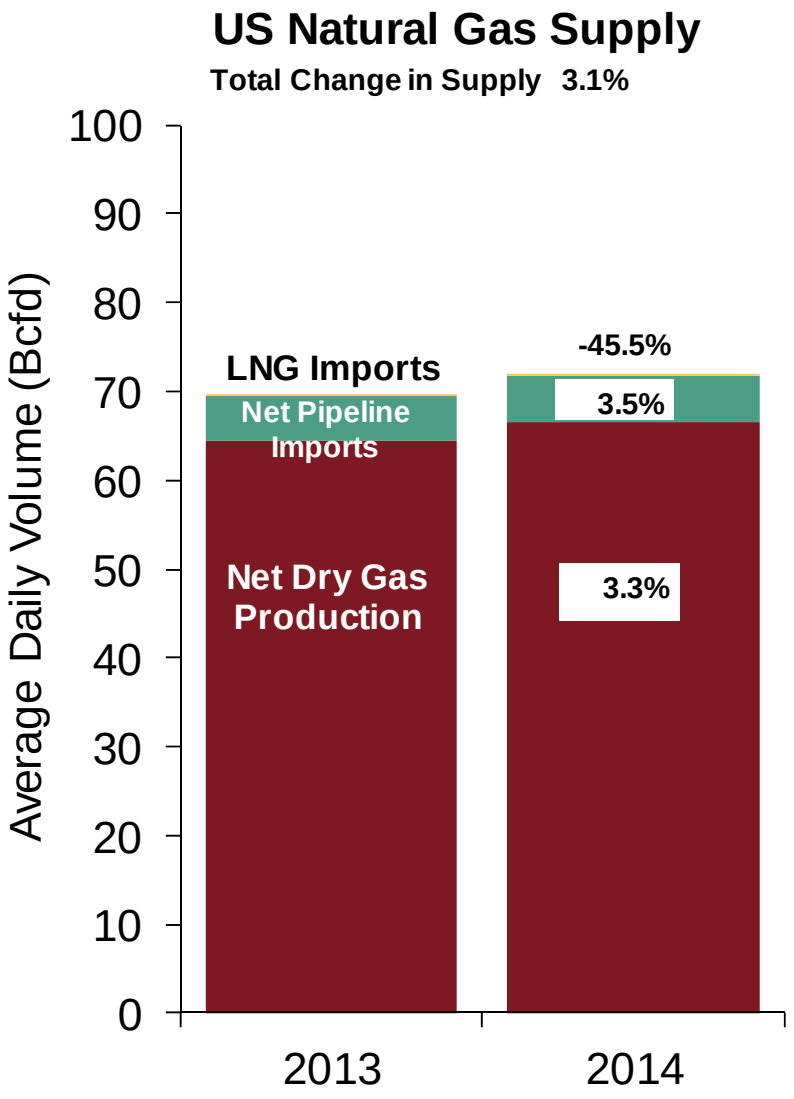


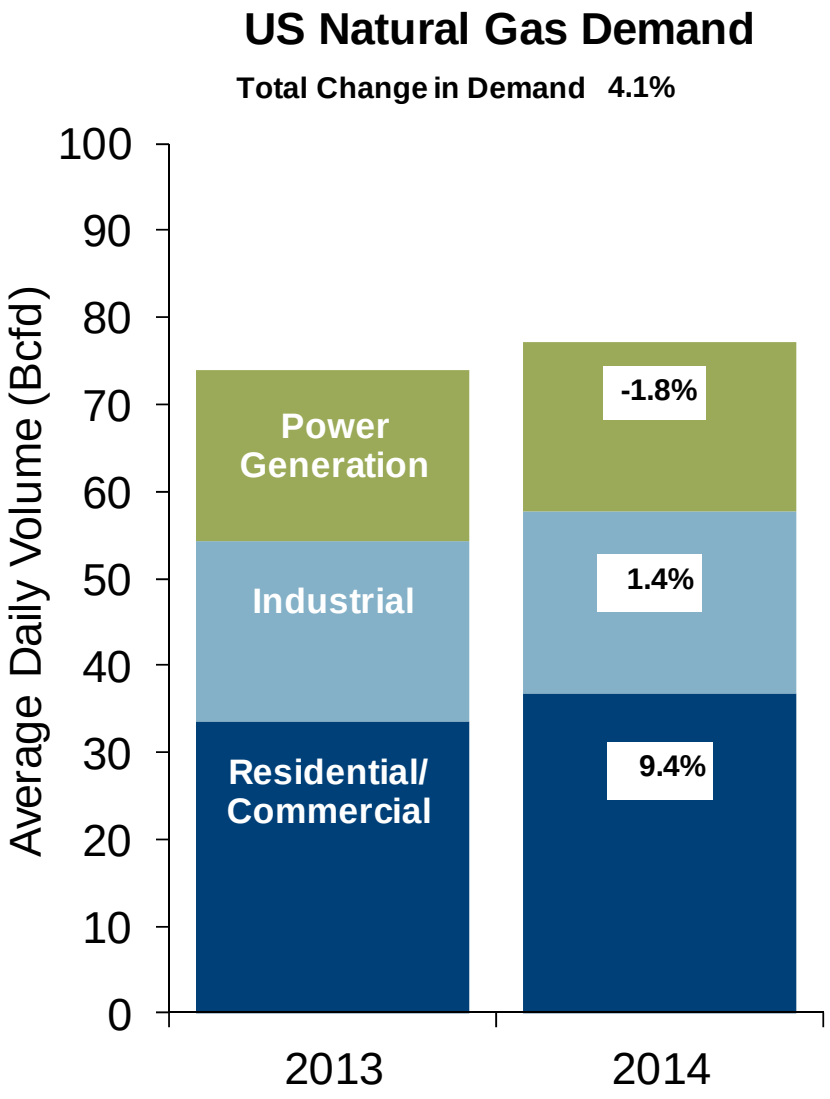
Pricing Point
BOLD – This year
Green – % increase from previous year
Red – % decrease from previous year

Source: ICE

Updated 6/19/2014

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

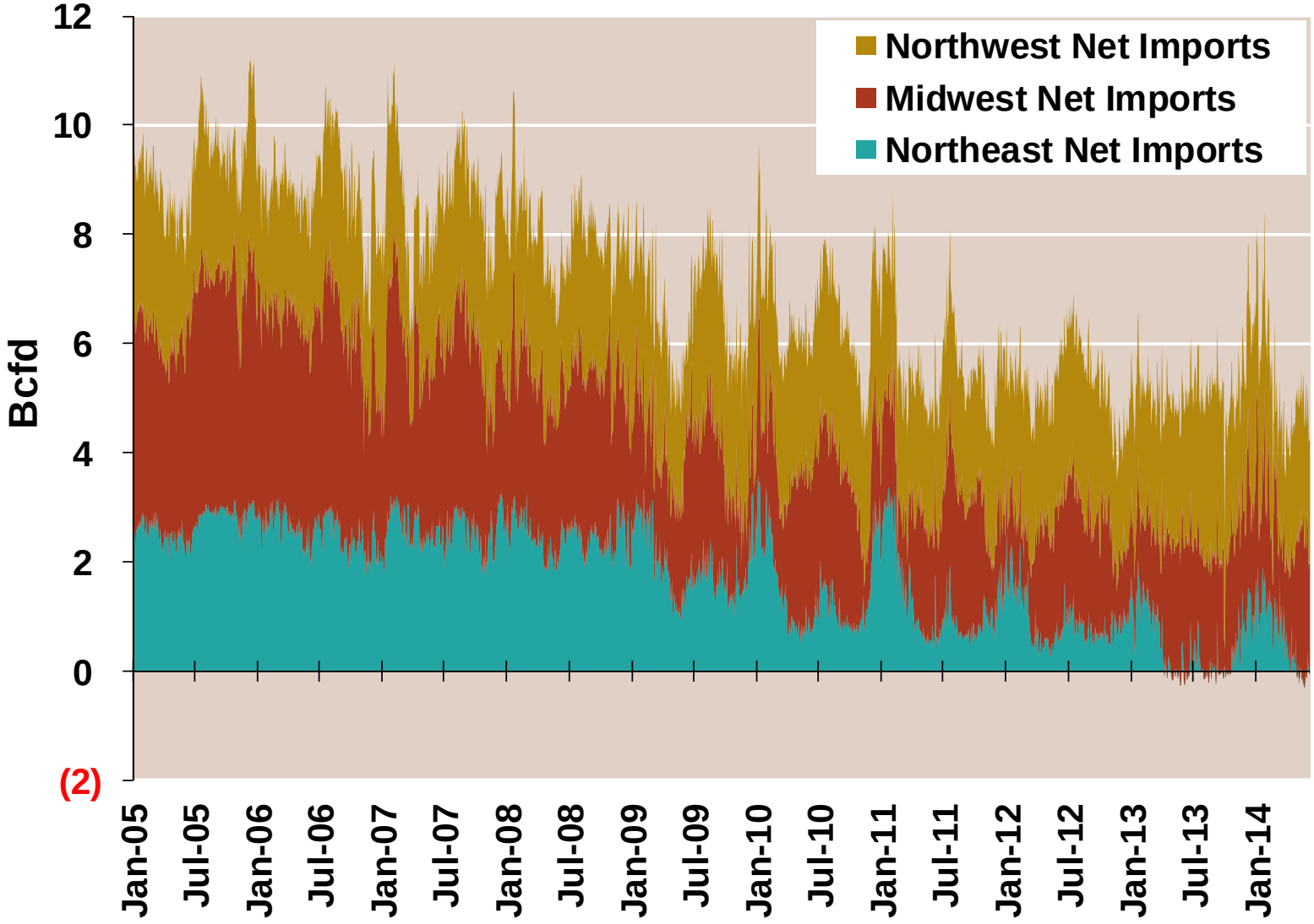




Note: Balance includes all amounts not attributable to other categories.
Source: Derived from *Bentek Energy* data

Updated: June 2014

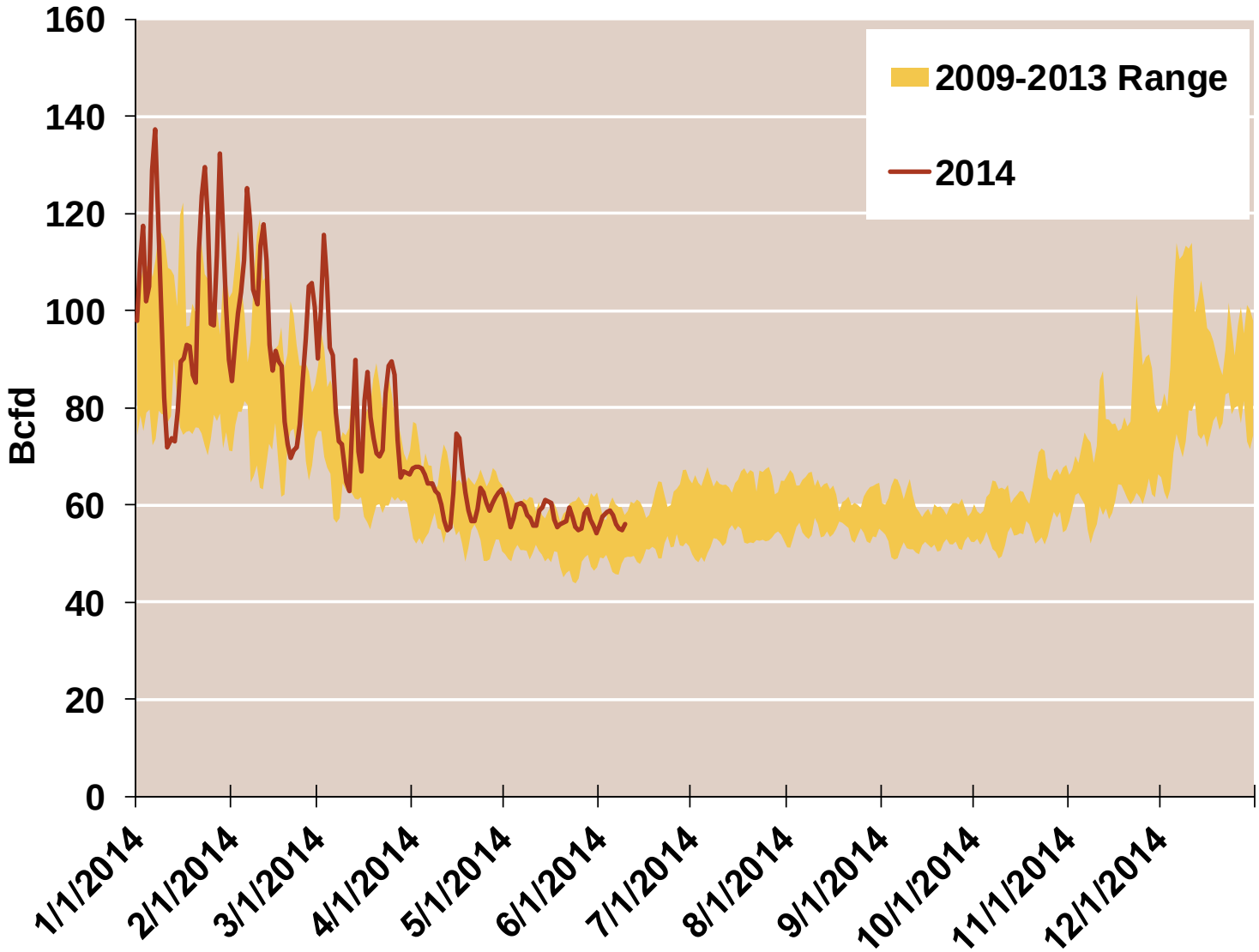
Regional Imports from Canada



Source: Derived from *Bentek Energy* data

Updated: June 2014

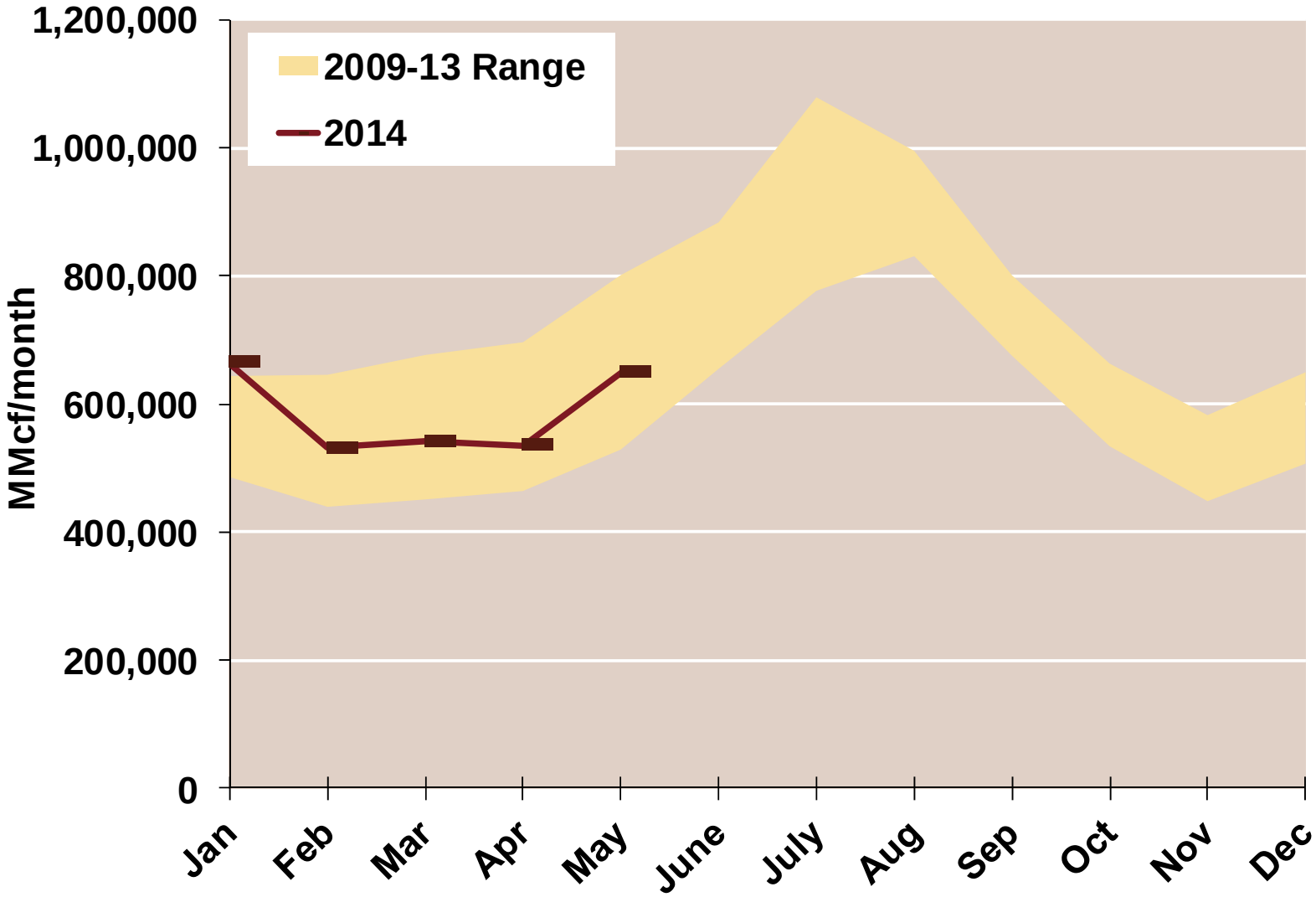
Total U.S. Natural Gas Demand All Sectors



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

Updated: June 2014

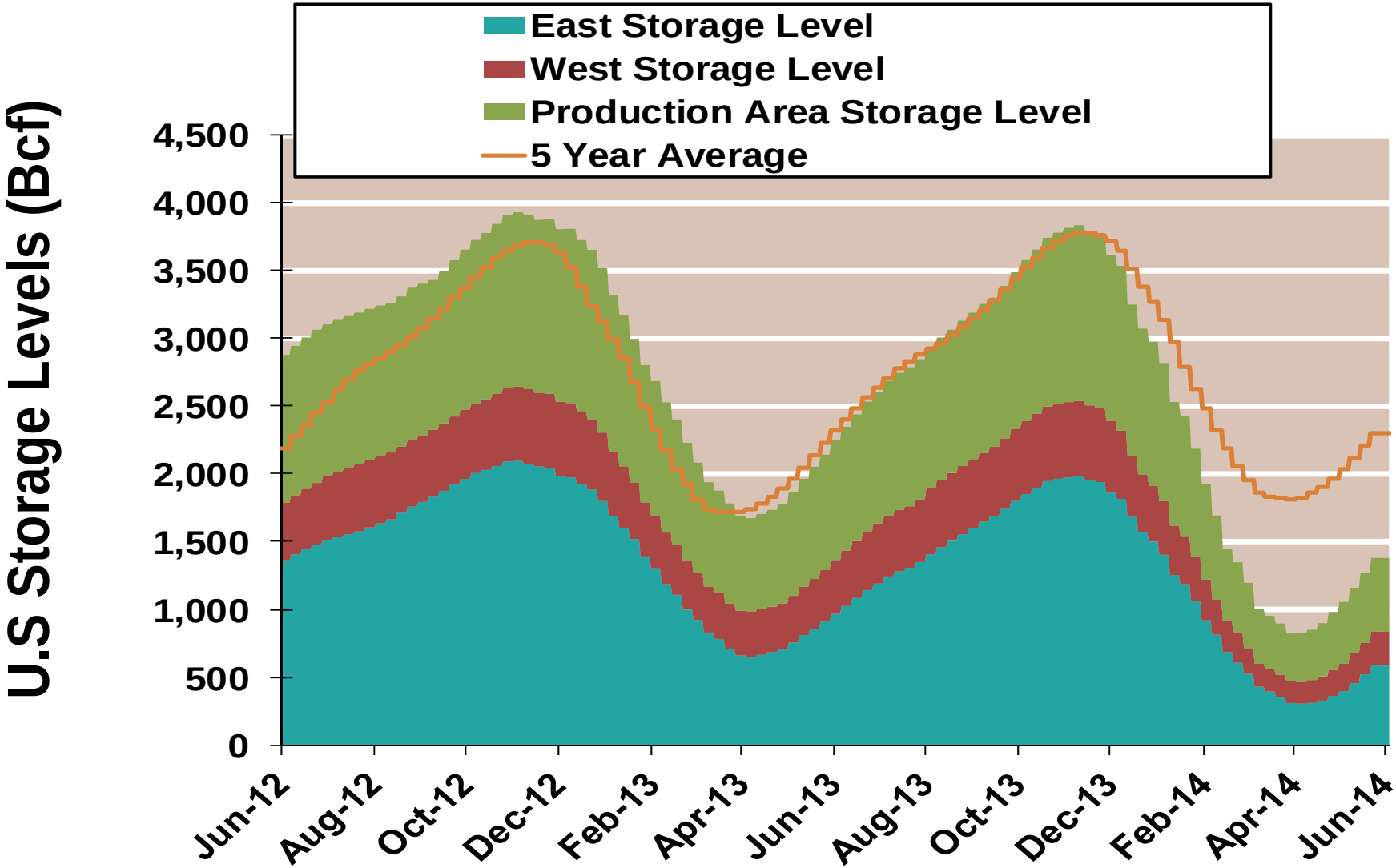
U.S. Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data

Updated: June 2014

EIA National Storage Inventories by Region

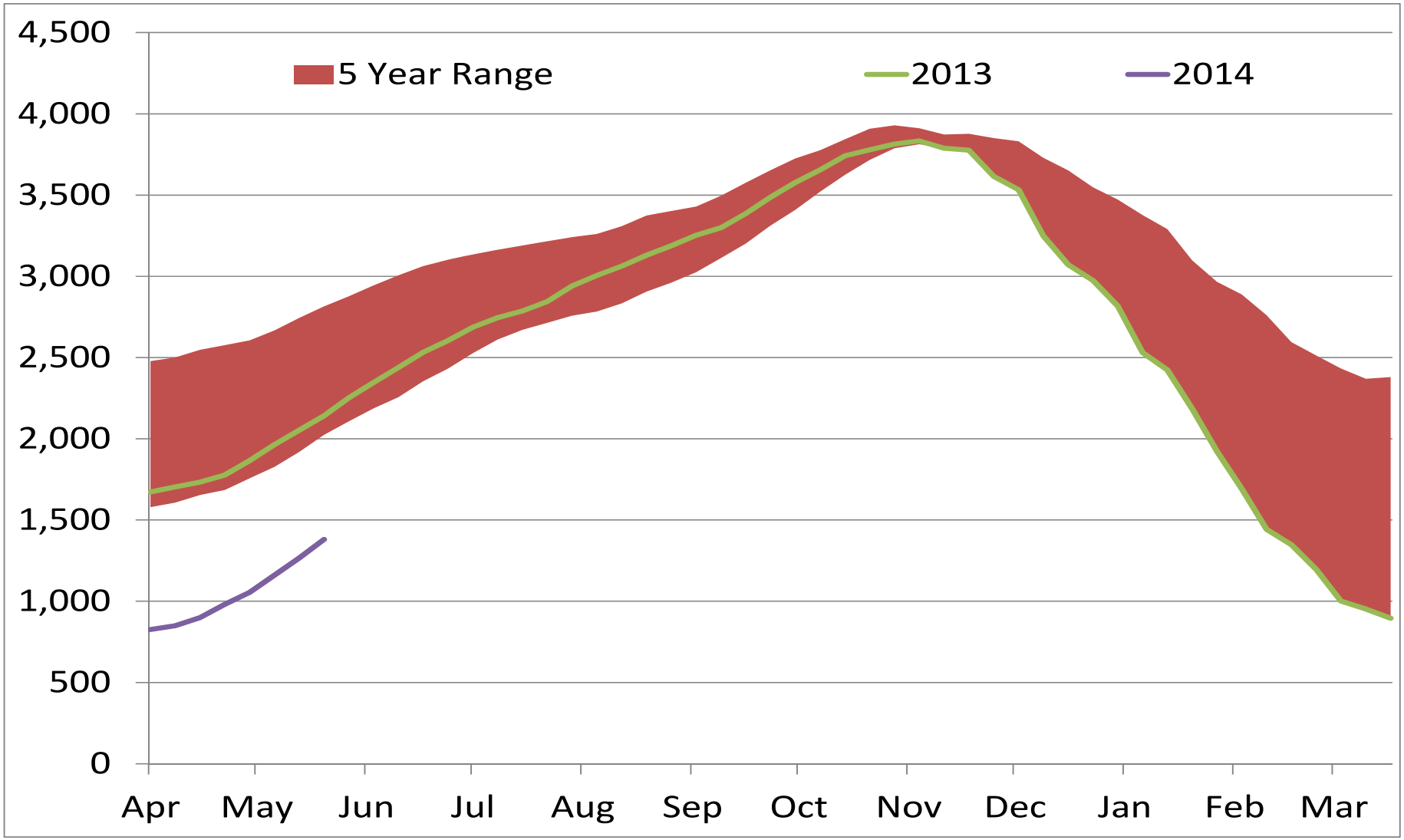


Notes:

Source: Derived from Bloomberg Data

Updated 6/4/2014

EIA National Storage Inventories

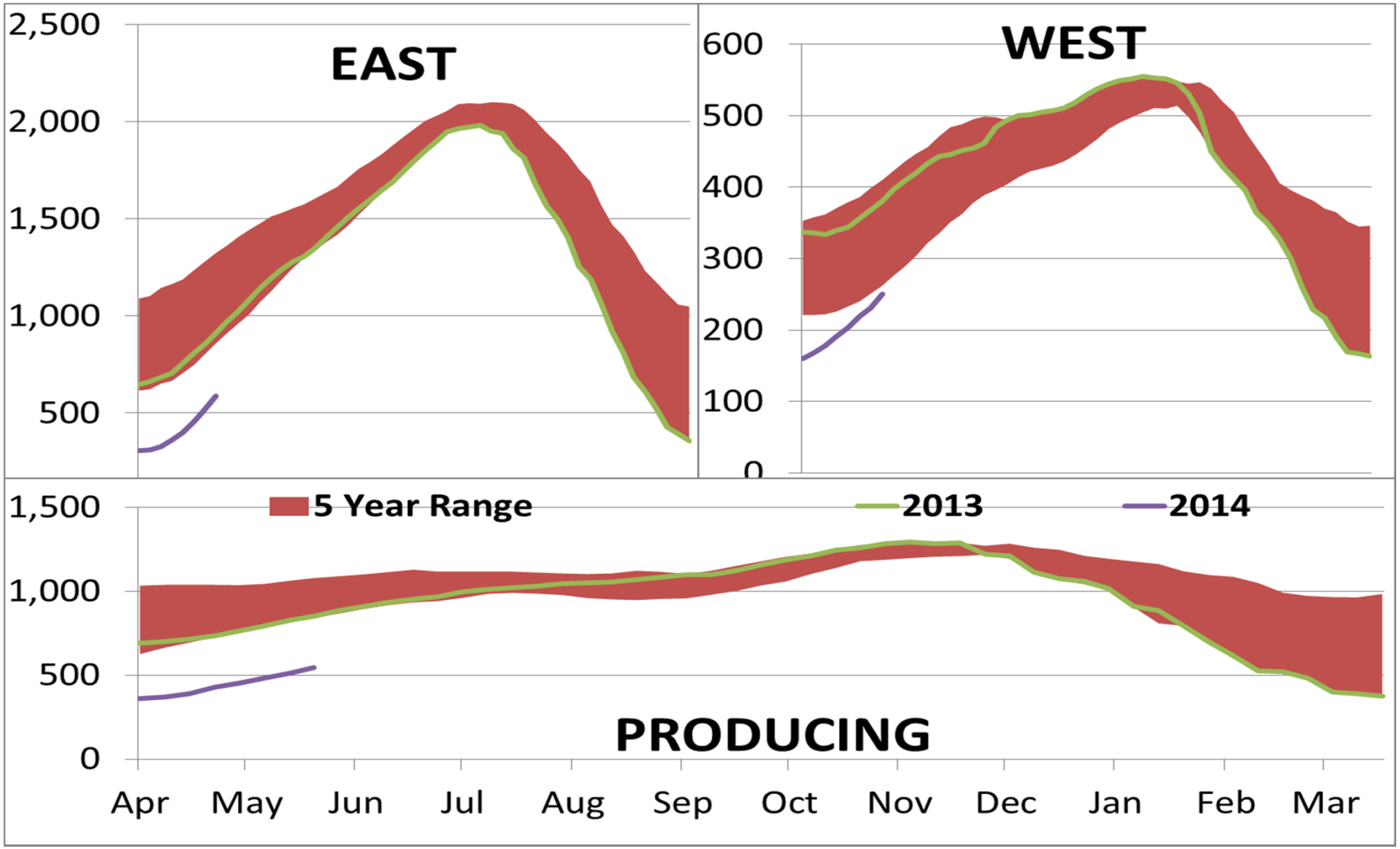


Notes:

Source: Derived from Bloomberg Data

Updatec 6/4/2014

EIA Regional Storage Inventories

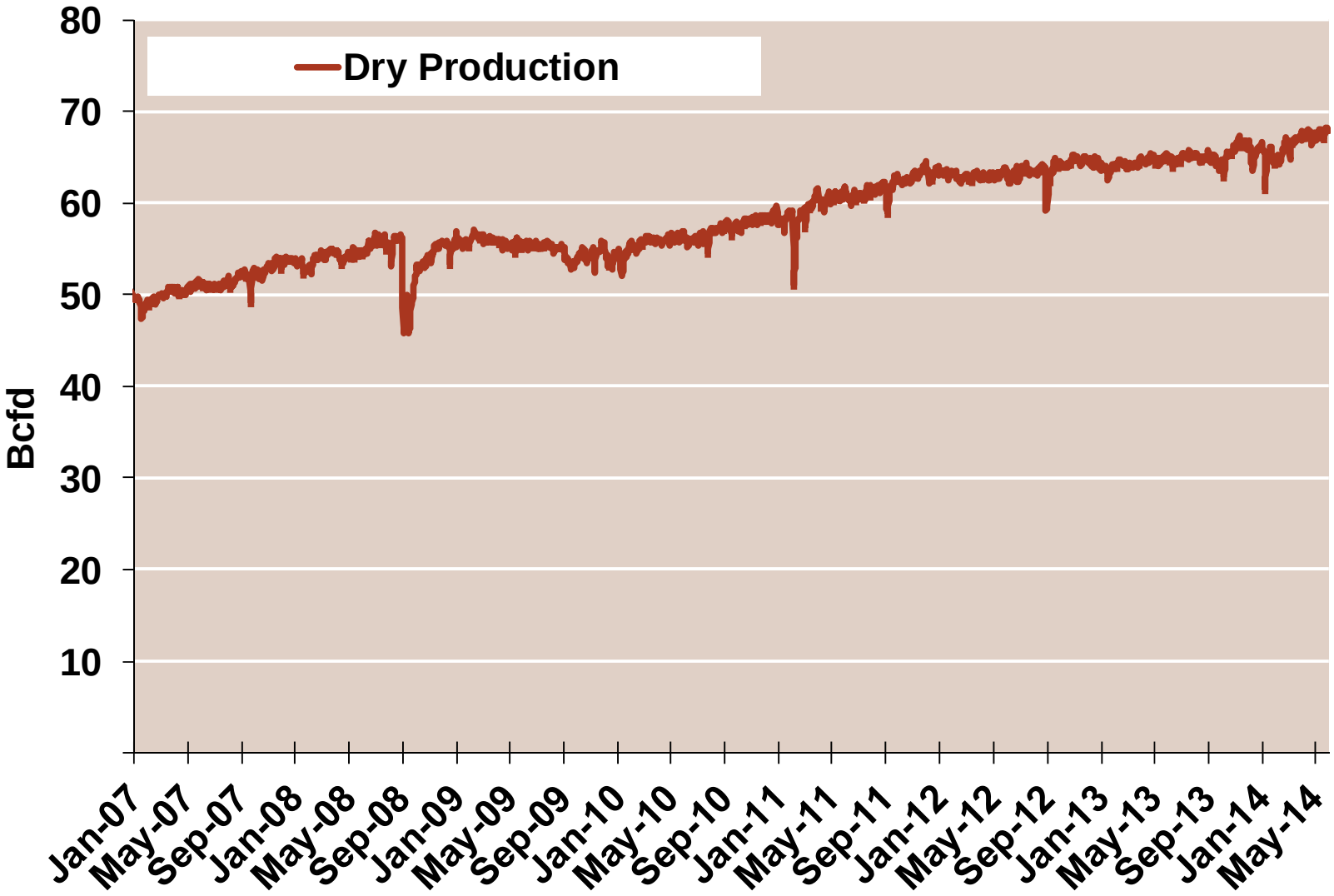


Notes:

Source: Derived from Bloomberg Data

Updatec 6/4/2014

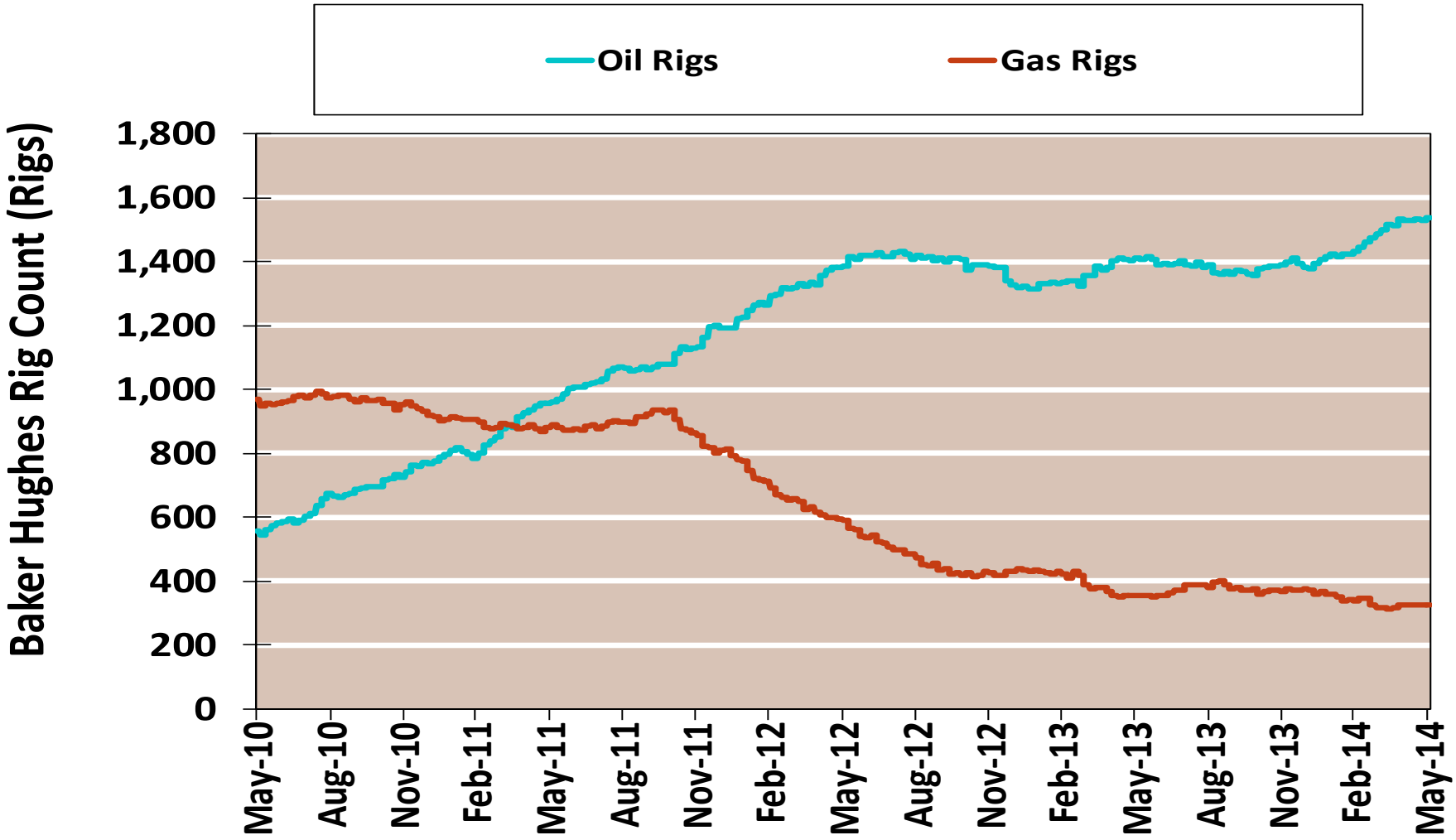
Monthly U.S. Dry Gas Production – Lower 48 States



Note: Prior to July 2010, chart was derived from a combination of *EIA* and *Bentek Energy* data
Source: Derived from *Bentek Energy* data

Updated: June 2014

NG Rigs by Type



Notes:

Source: Derived from Bloomberg data

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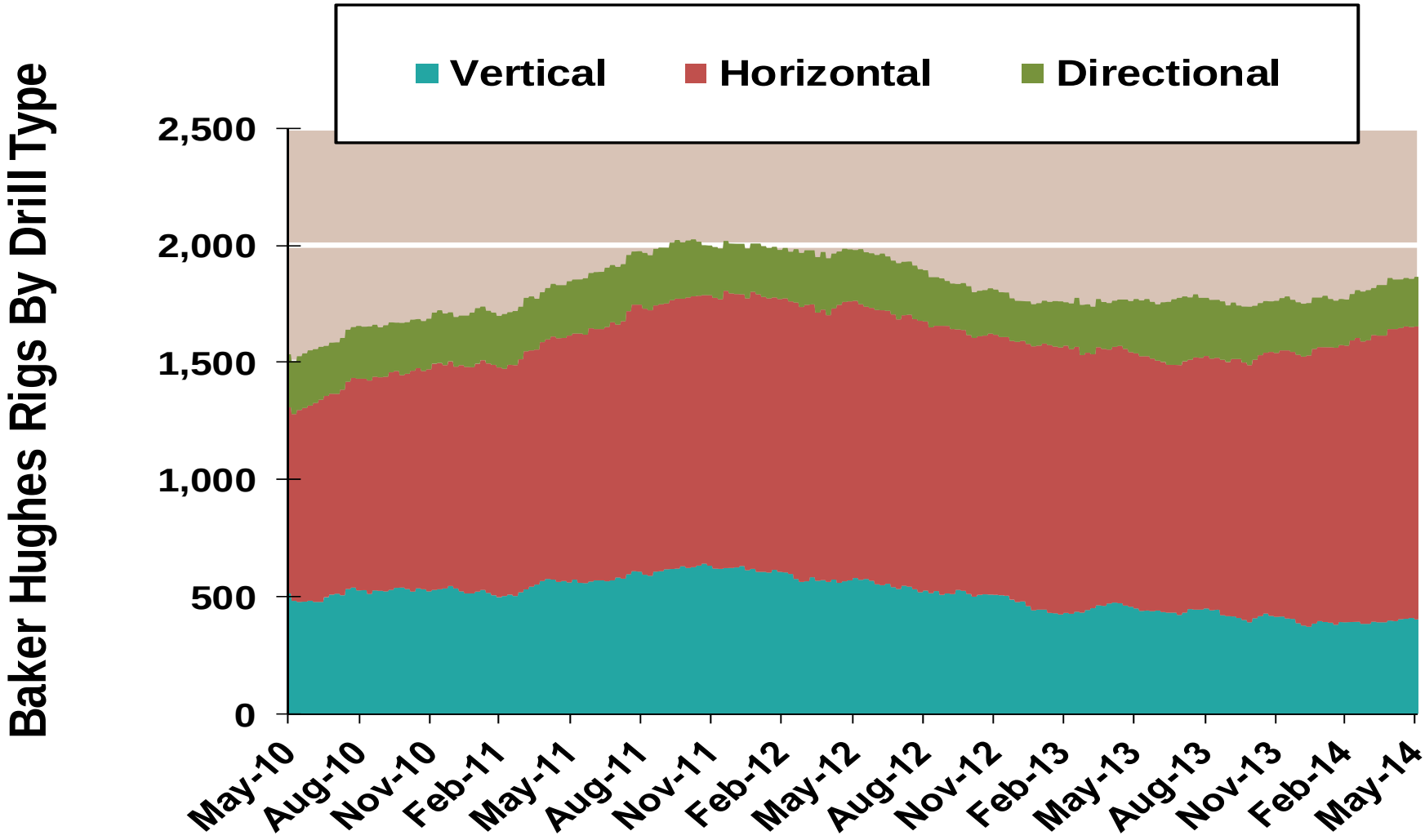
NG Rig by Direction

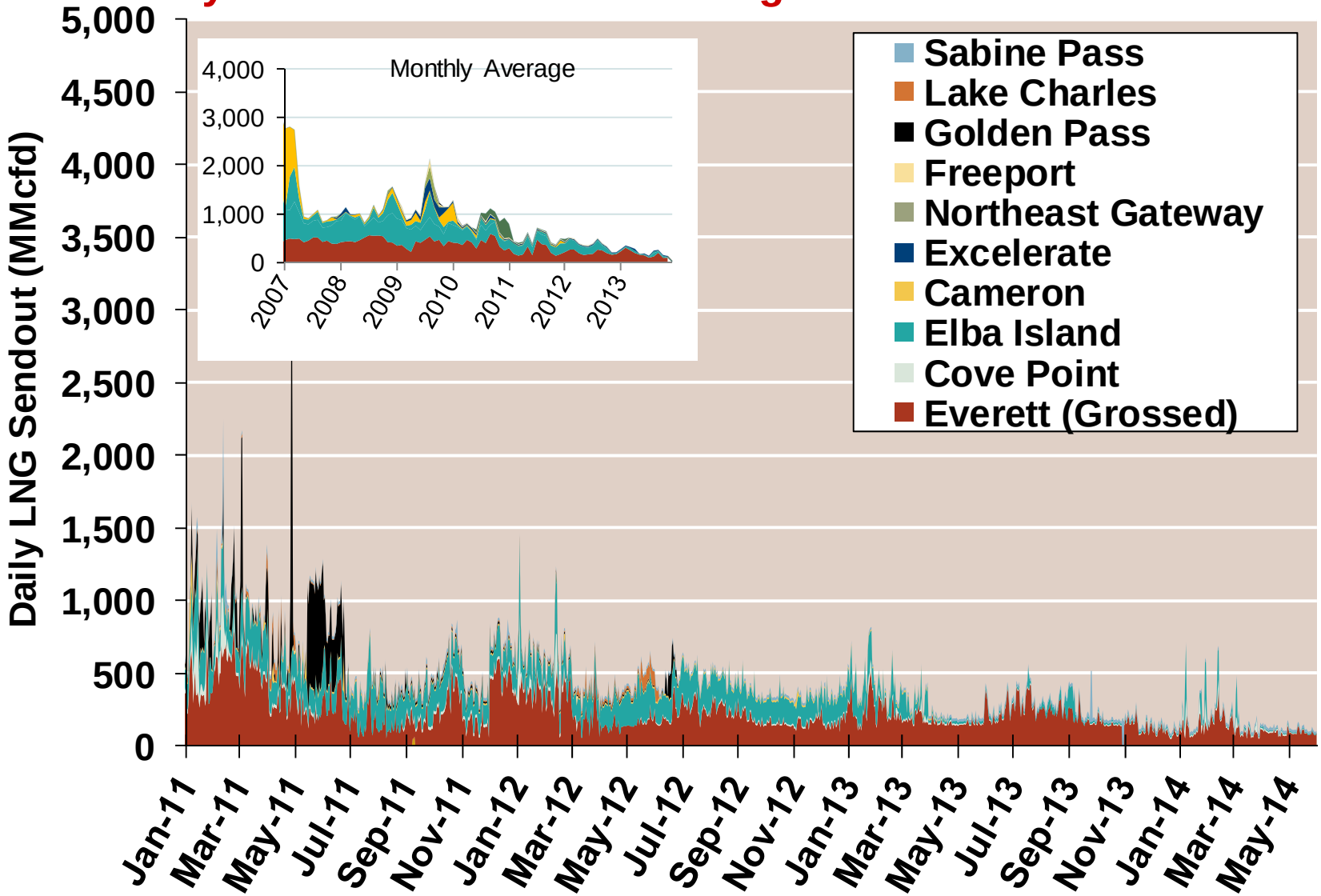


Notes:

Source: Derived from Bloomberg data

Updated 6/4/2014

Daily Gas Sendout from Existing U.S. LNG Facilities

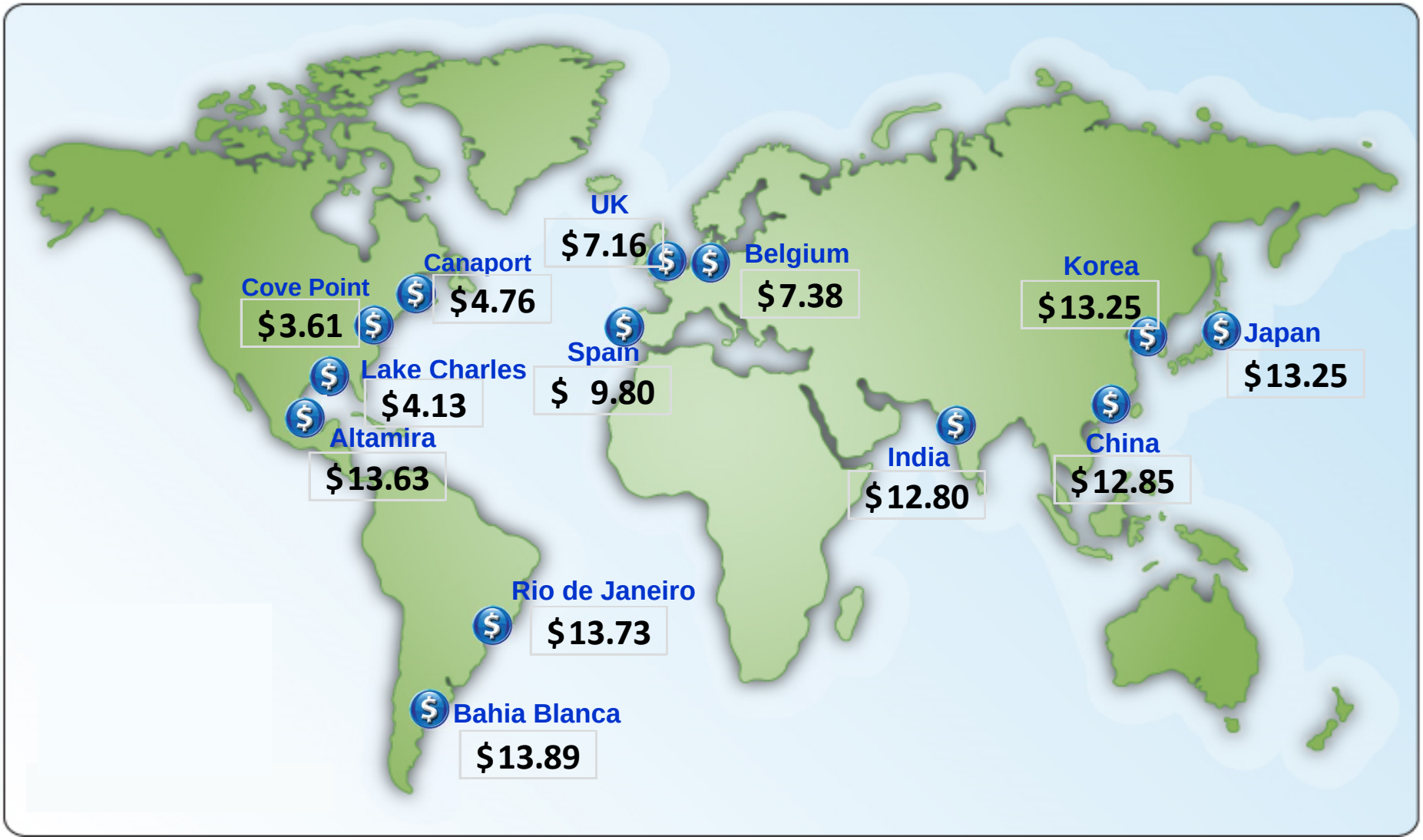


Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes flows to the Freeport LNG which flows via intrastate pipelines and flows to the Mystic 8 and 9 power plants.

Source: Derived from *Bentek Energy* data

Updated: June 2014

World LNG Estimated July 2014 Landed Prices



Source: *Waterborne Energy, Inc*. Data in $US/MMBtu

Updated June 2014

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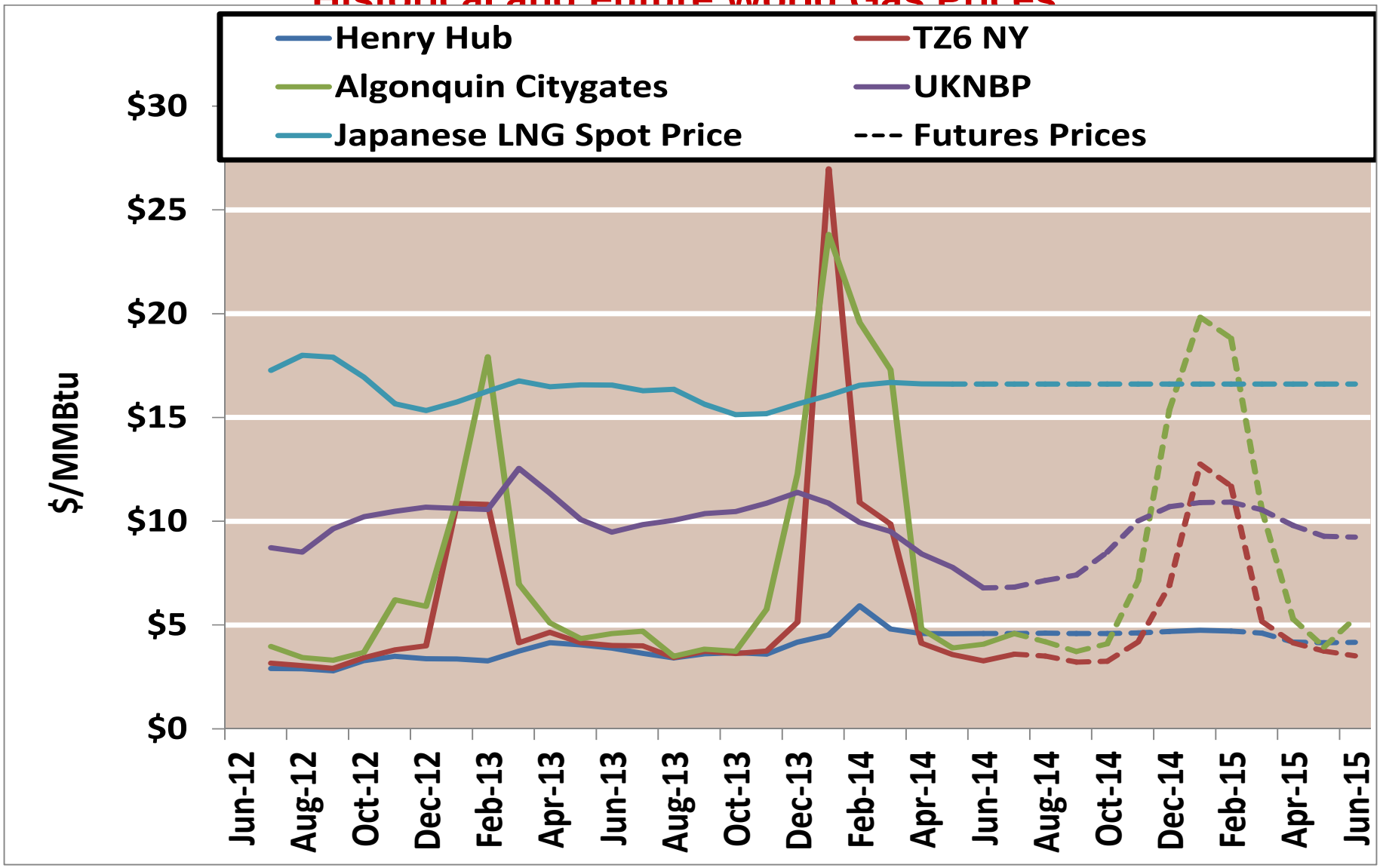
Historical and Future World Gas Prices

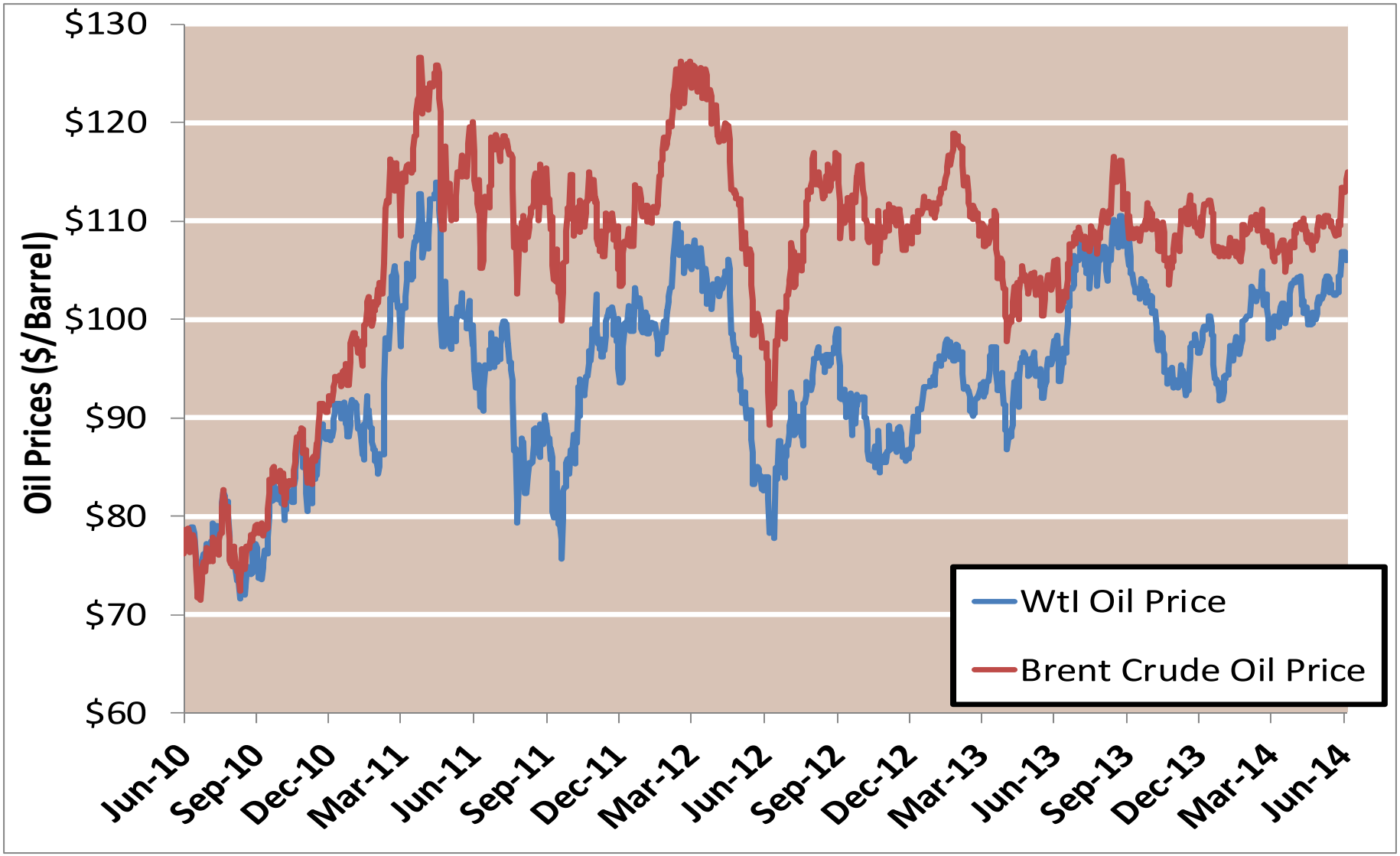


Notes:

Source: Derived from Bloomberg data

Updated 6/4/2014

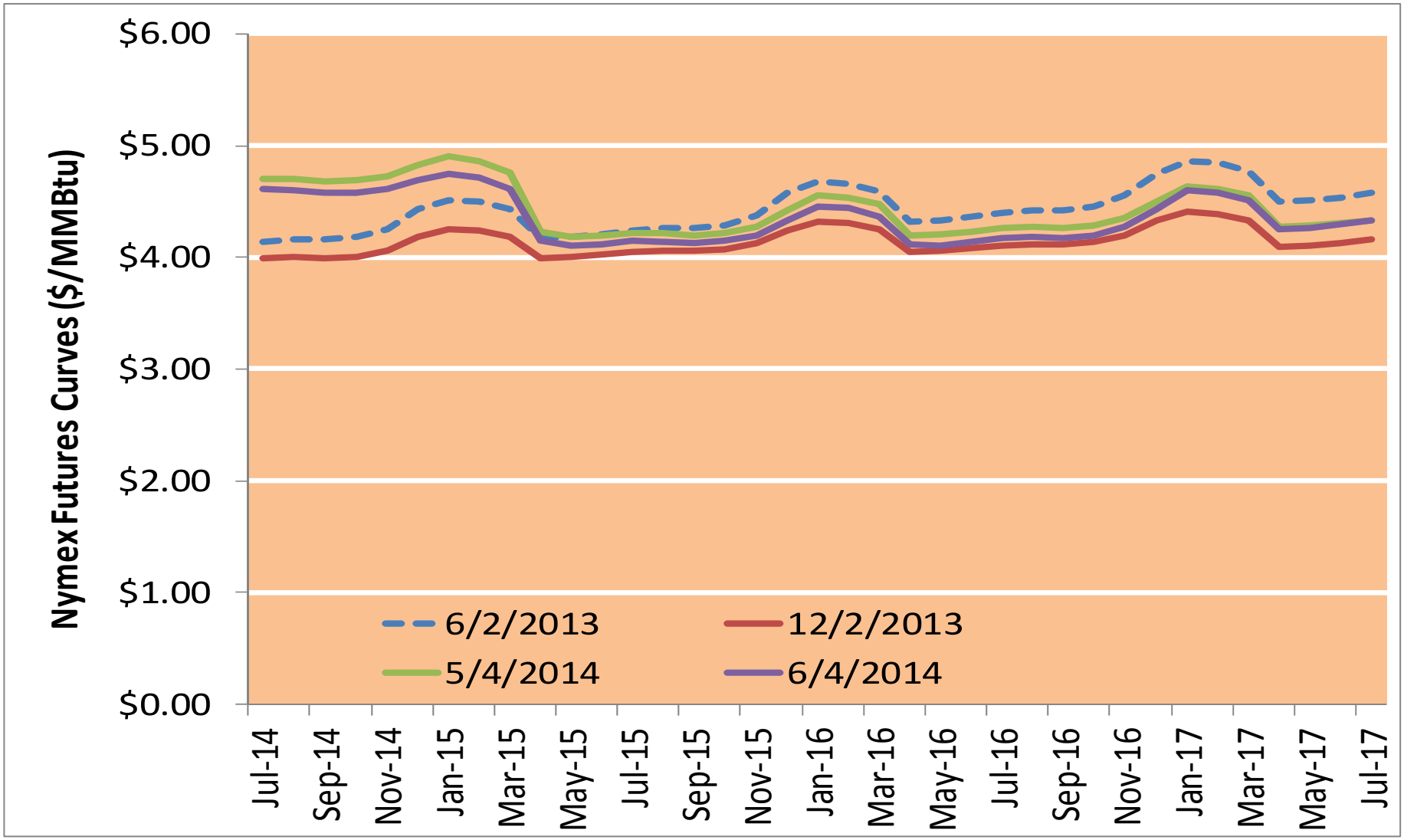
WTI vs Brent Crude Oil Price



Source: Derived from Bloomberg data

Updated 6/4/2014

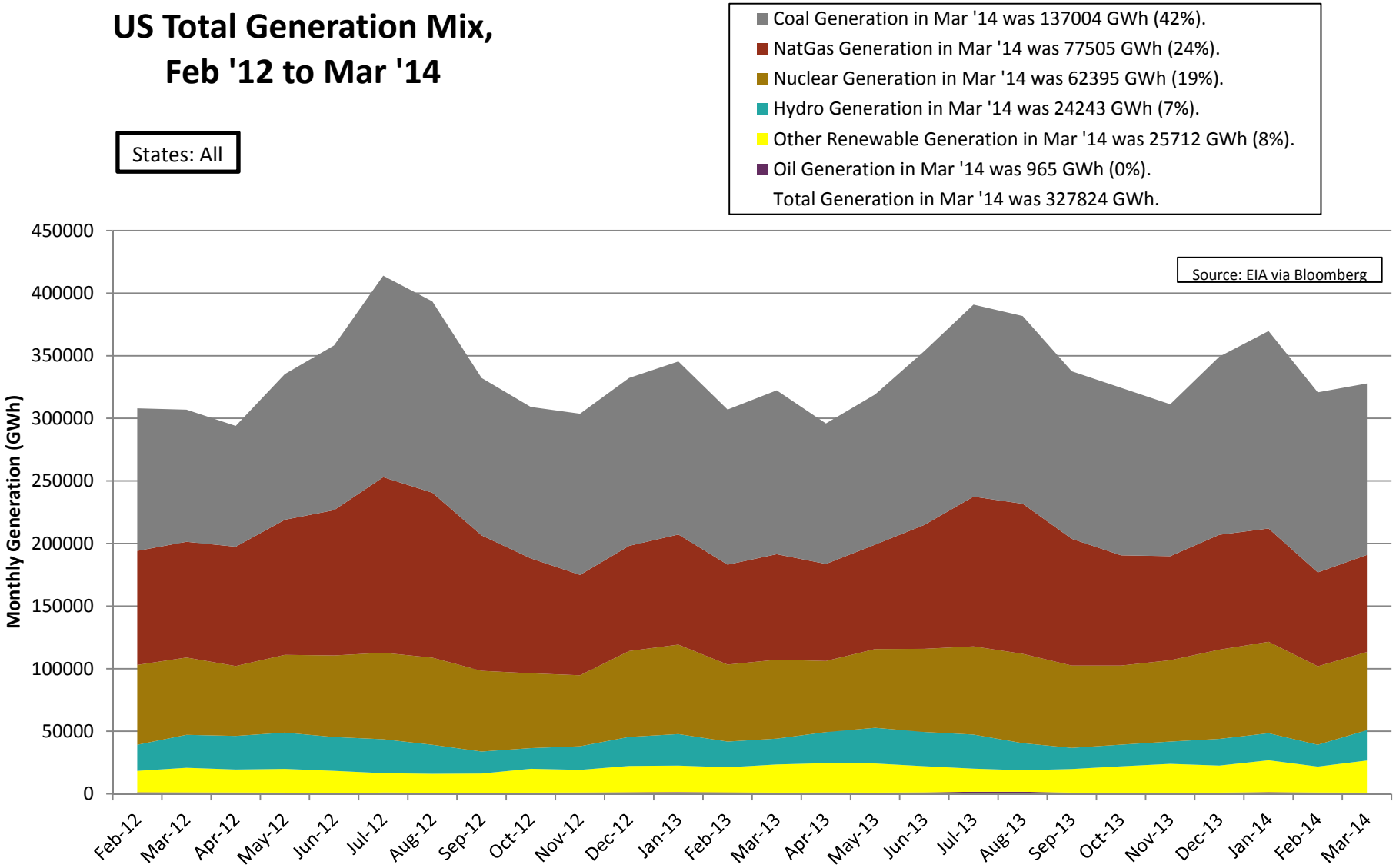
Nymex Futures Curves



Source: Derived from Bloomberg data

Updated 6/4/2014

US Total Generation Mix



Updated: June 16, 2014

Natural Gas and Fuels Markets

East

Northeast Annual Average Day-Ahead Prices

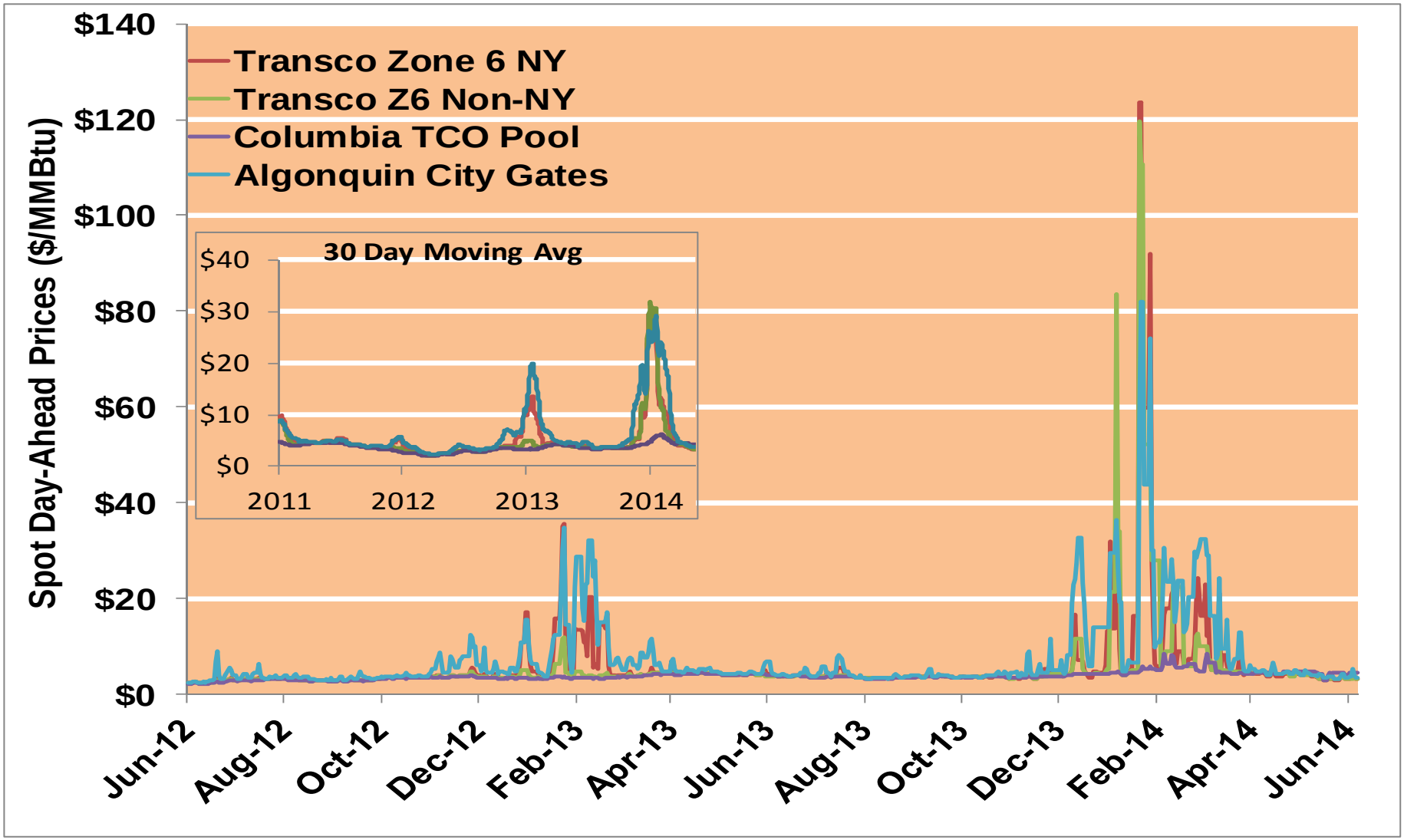
	Average Day Ahead Prices ($/MMBtu)	Algonquin Citygates	Transco Zone 6 NY	Transco Zone 6 Non-NY	Columbia Applachia	Henry Hub
2011	Annual	5.01	5.01	4.68	4.07	**3.98**
	Summer	4.56	4.55	4.42	4.21	**4.14**
	Winter 2011/2012	4.00	3.59	3.08	2.77	**2.74**
2012	Annual	3.97	3.27	2.99	2.78	**2.75**
	Summer	3.25	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

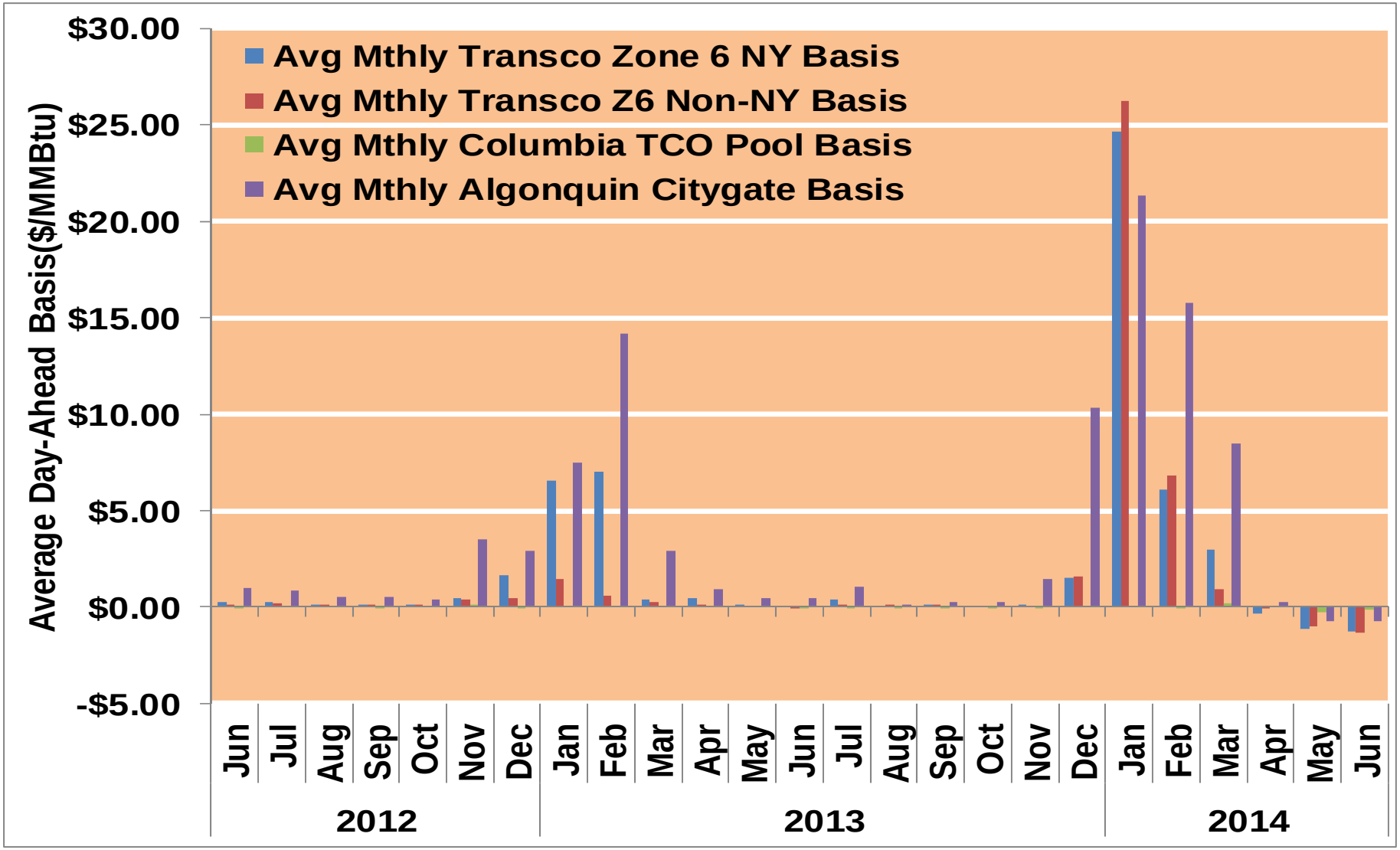


Notes:

Source: Derived from ICE data

Updated 6/16/2014

Northeast Monthly Average Basis Value To Henry Hub

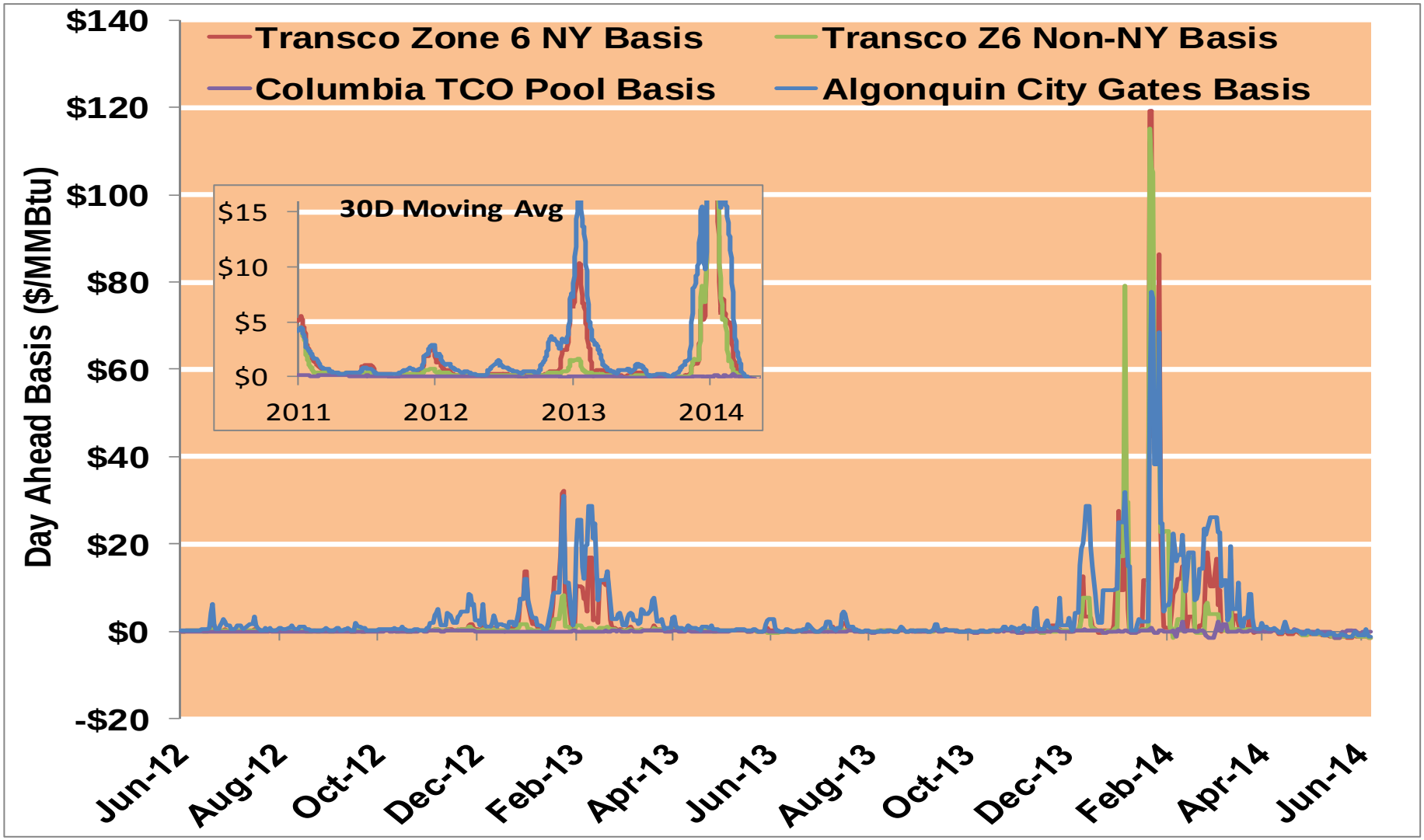


Notes:

Source: Derived from ICE data

Updated 6/16/2014

Northeast Day-Ahead Basis

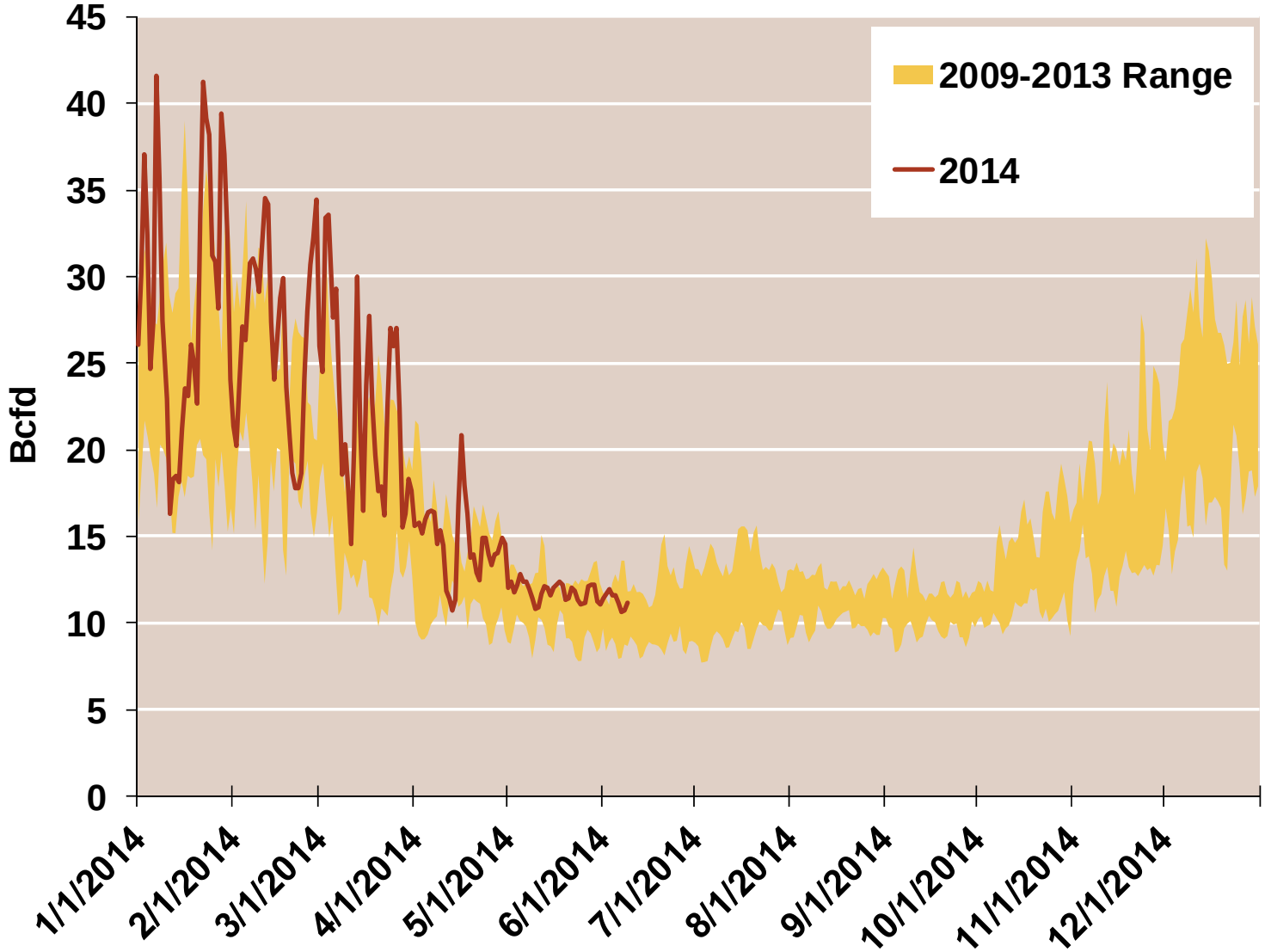


Notes:

Source: Derived from ICE data

Updated 6/16/2014

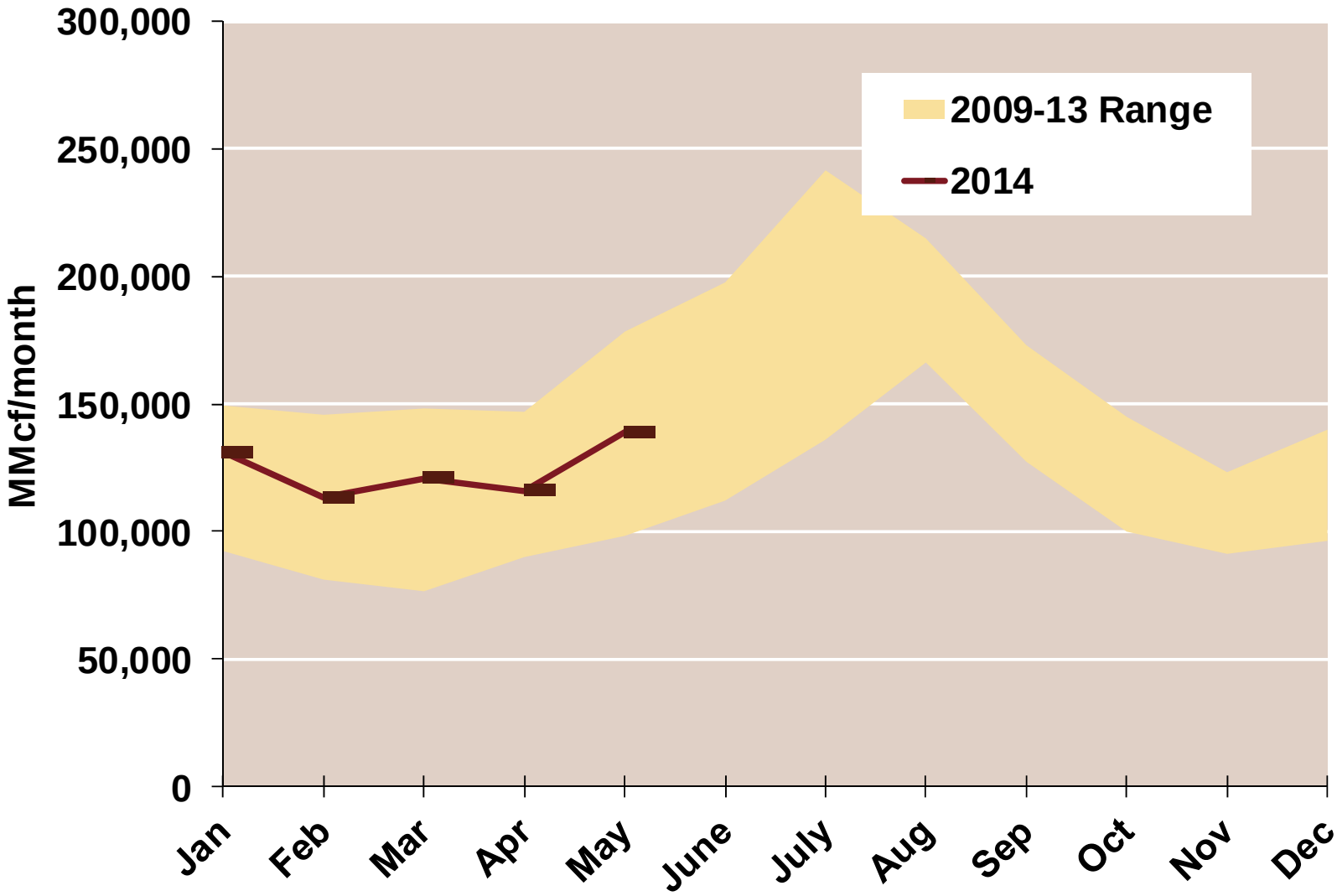
Daily Northeast Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data

Updated: June 2014

Northeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data

Updated: June 2014

Southeast Annual Average Day-Ahead Prices

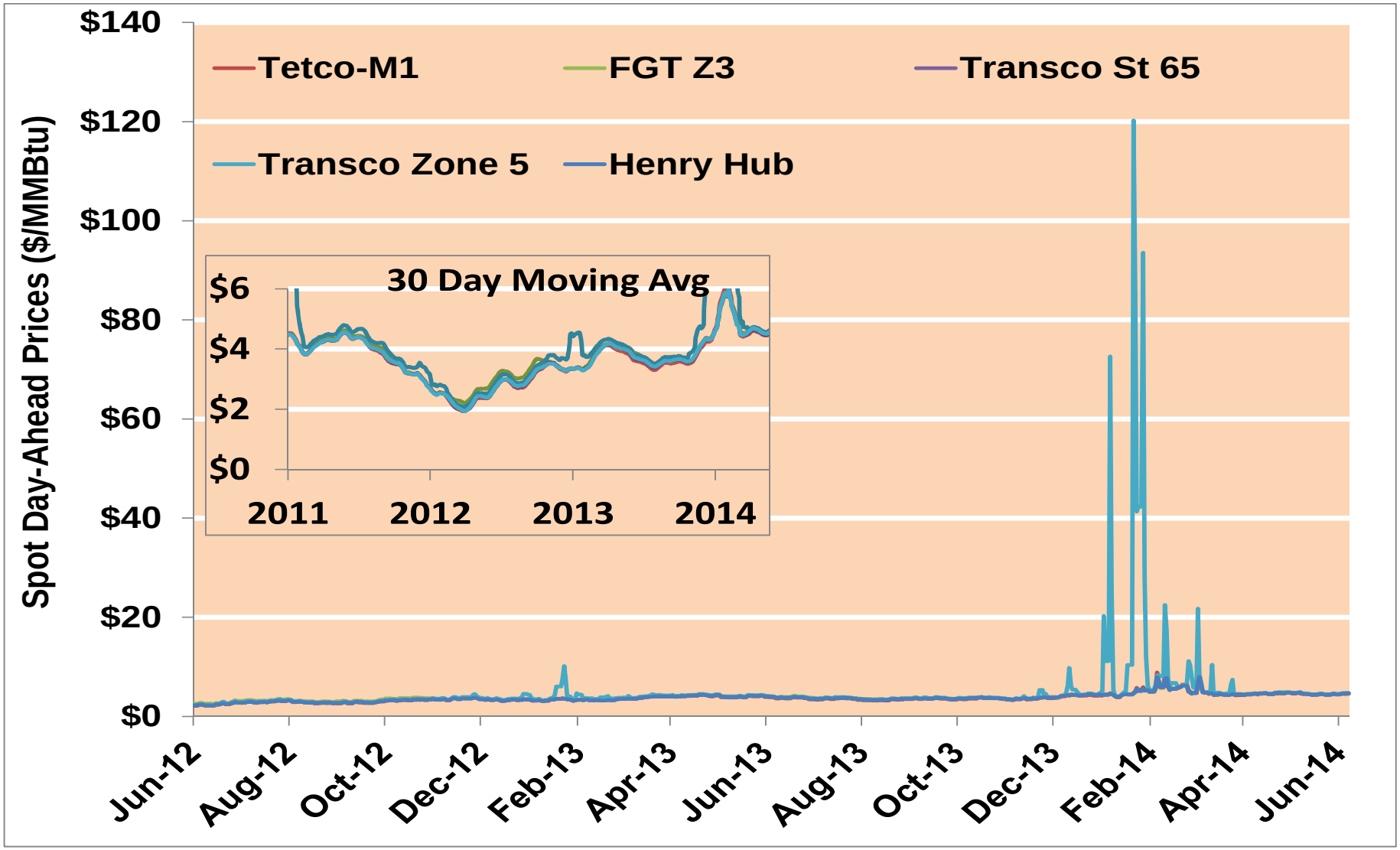
	Average Day Ahead Prices ($/MMBtu)	FGT Z3	Tetco-M1	Transco St 65	Transco Zone 5	Henry Hub
2011	Annual	4.04	3.98	3.98	4.67	**3.98**
	Summer	4.22	4.12	4.12	4.65	**4.14**
	Winter 2011/2012	2.79	2.74	2.74	3.00	**2.74**
2012	Annual	2.94	2.73	2.74	2.94	**2.75**
	Summer	2.97	2.65	2.67	2.82	**2.69**
	Winter 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

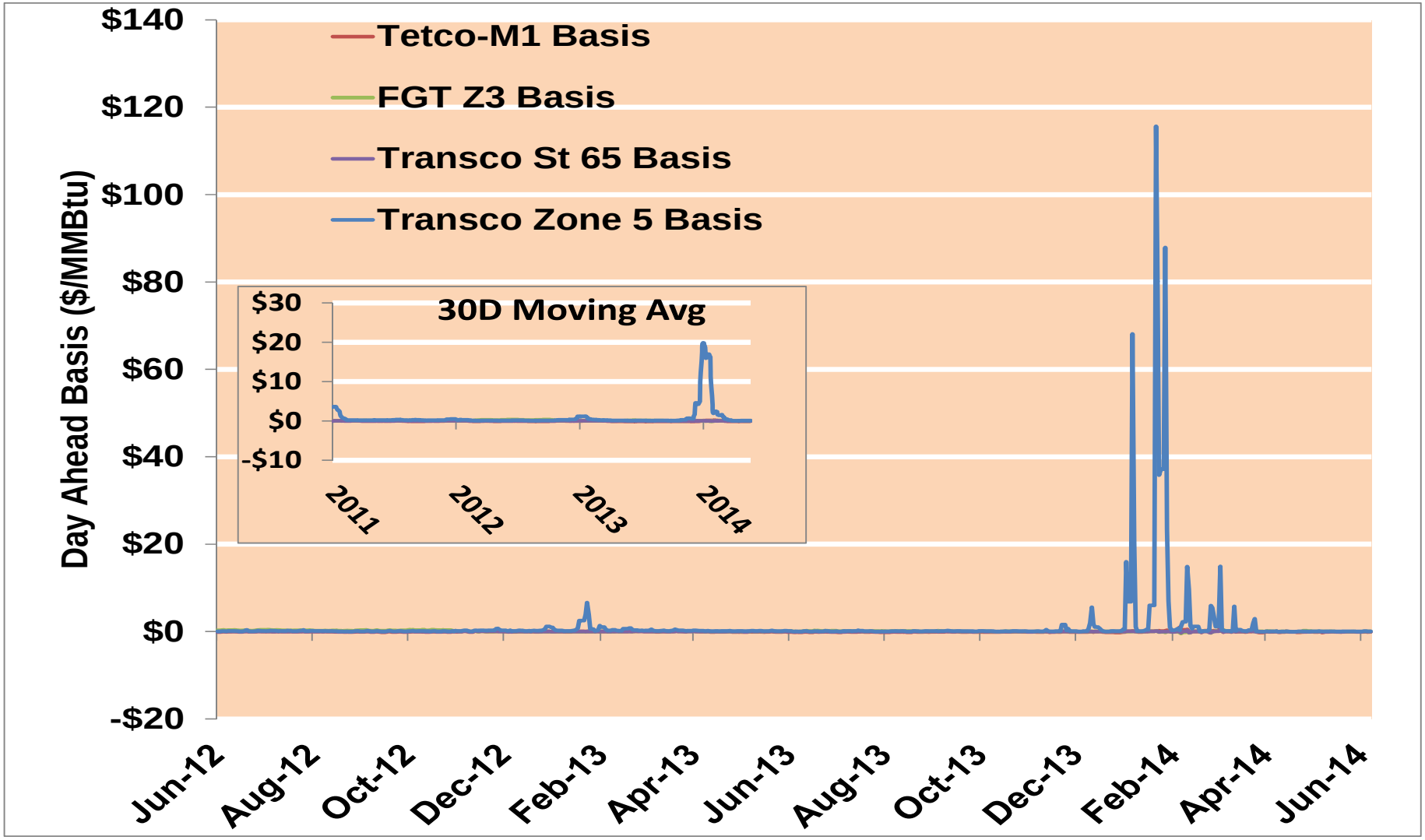


Notes:

Source: Derived from ICE data

Updated 6/19/2014

Southeast Day-Ahead Basis

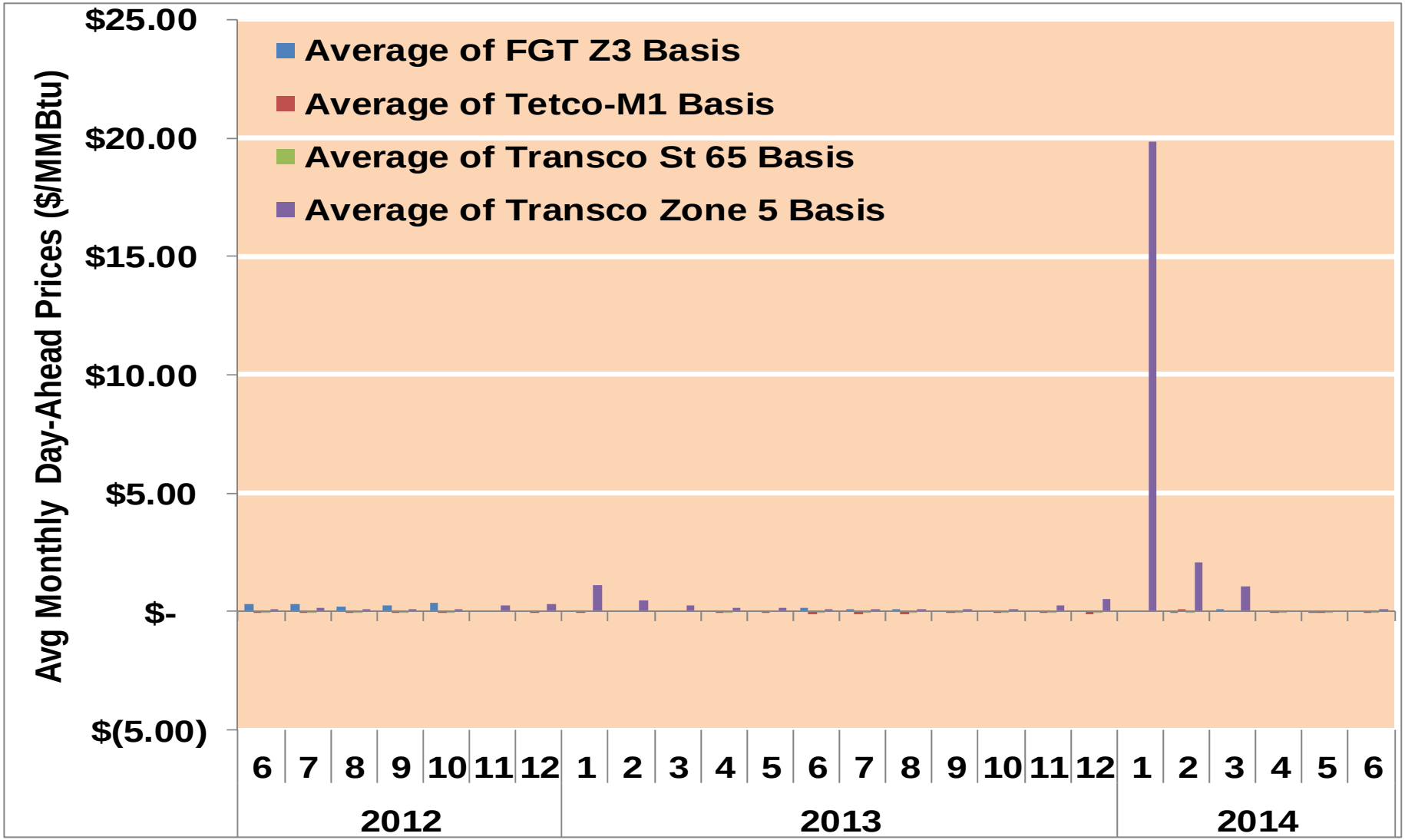


Notes:

Source: Derived from ICE data

Updated 6/19/2014

Southeast Monthly Average Basis Value To Henry Hub

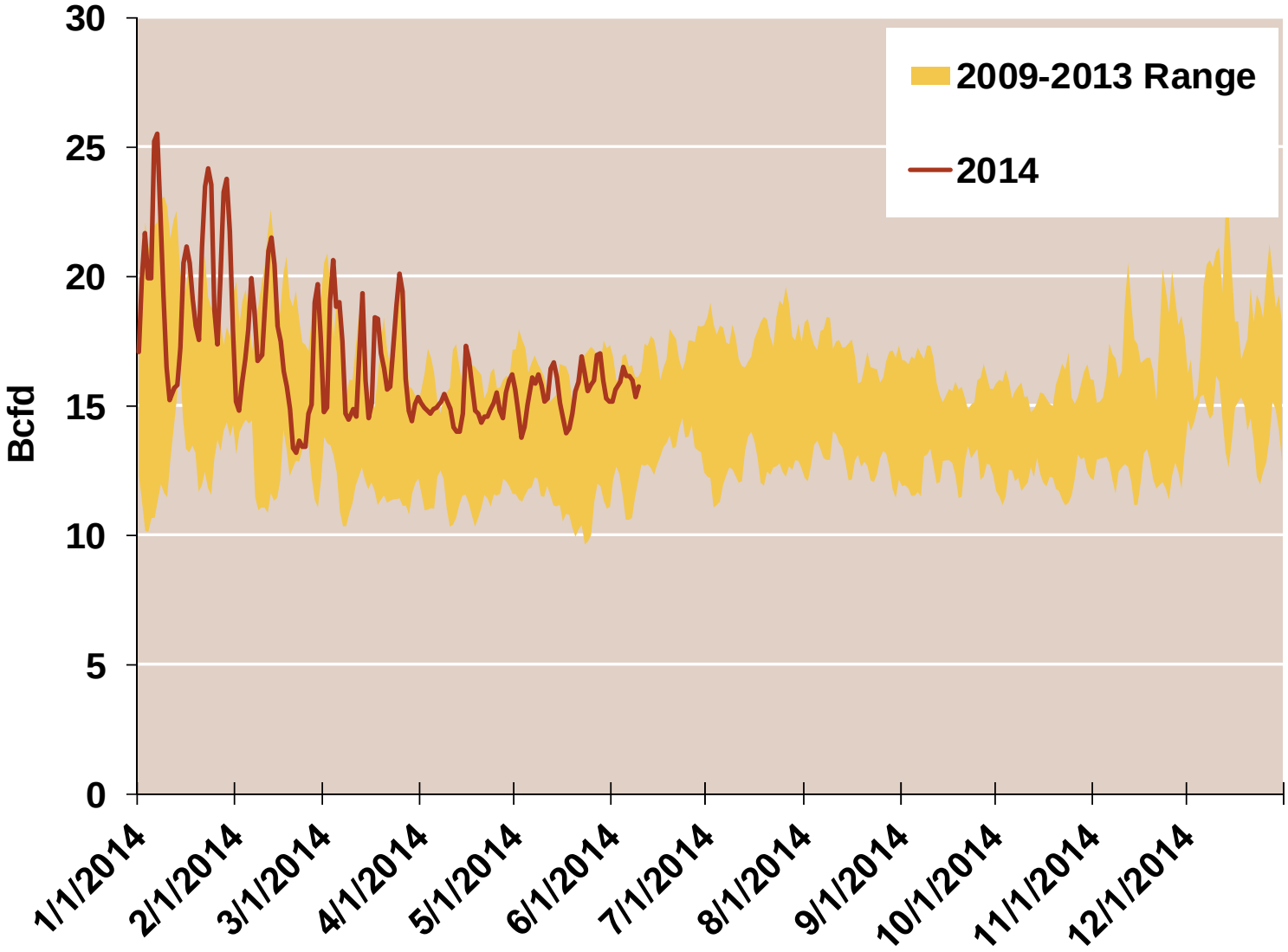


Notes:

Source: Derived from ICE data

Updated 6/19/2014

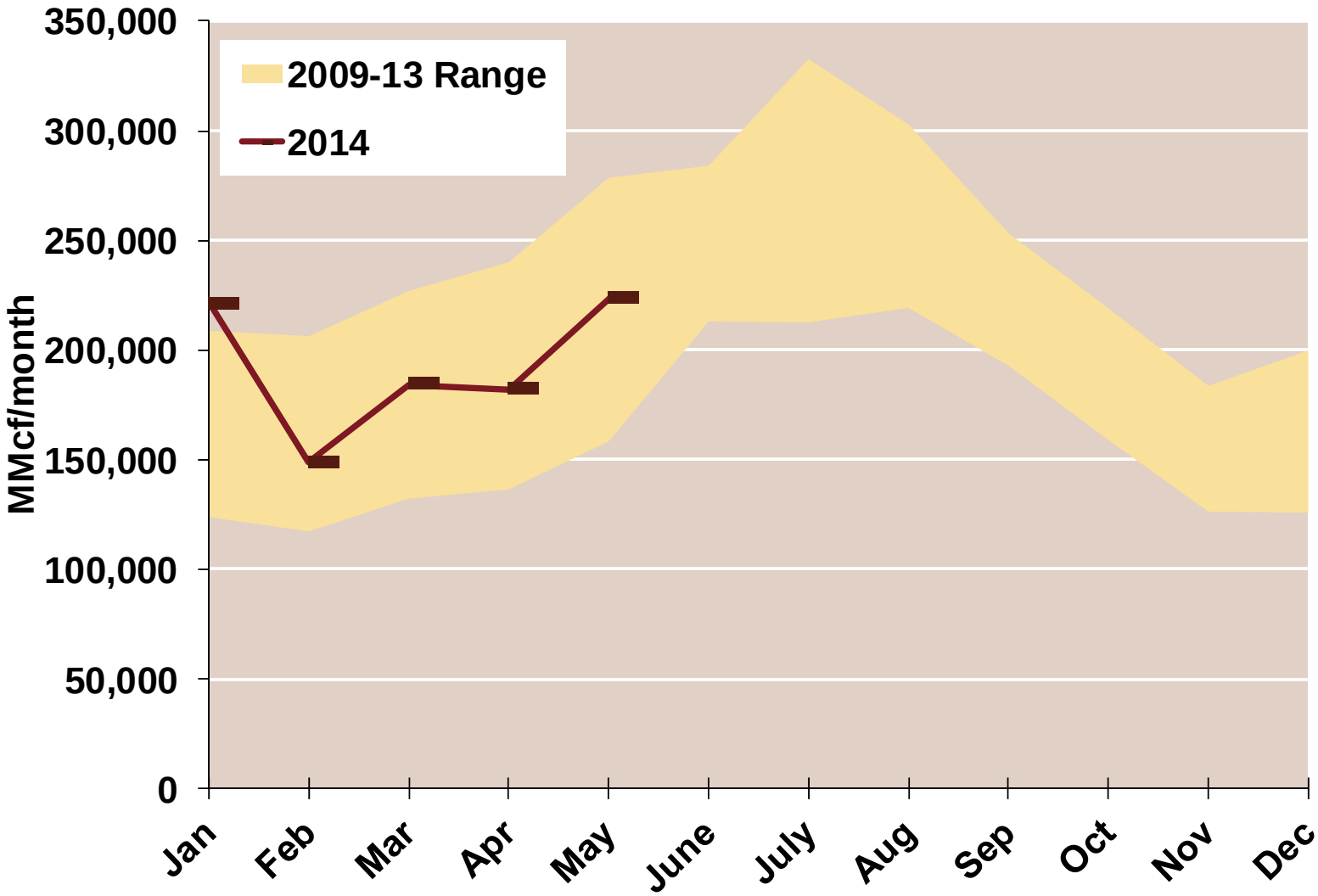
Daily Southeast Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data

Updated: May 2014

Southeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data

Updated: May 2014

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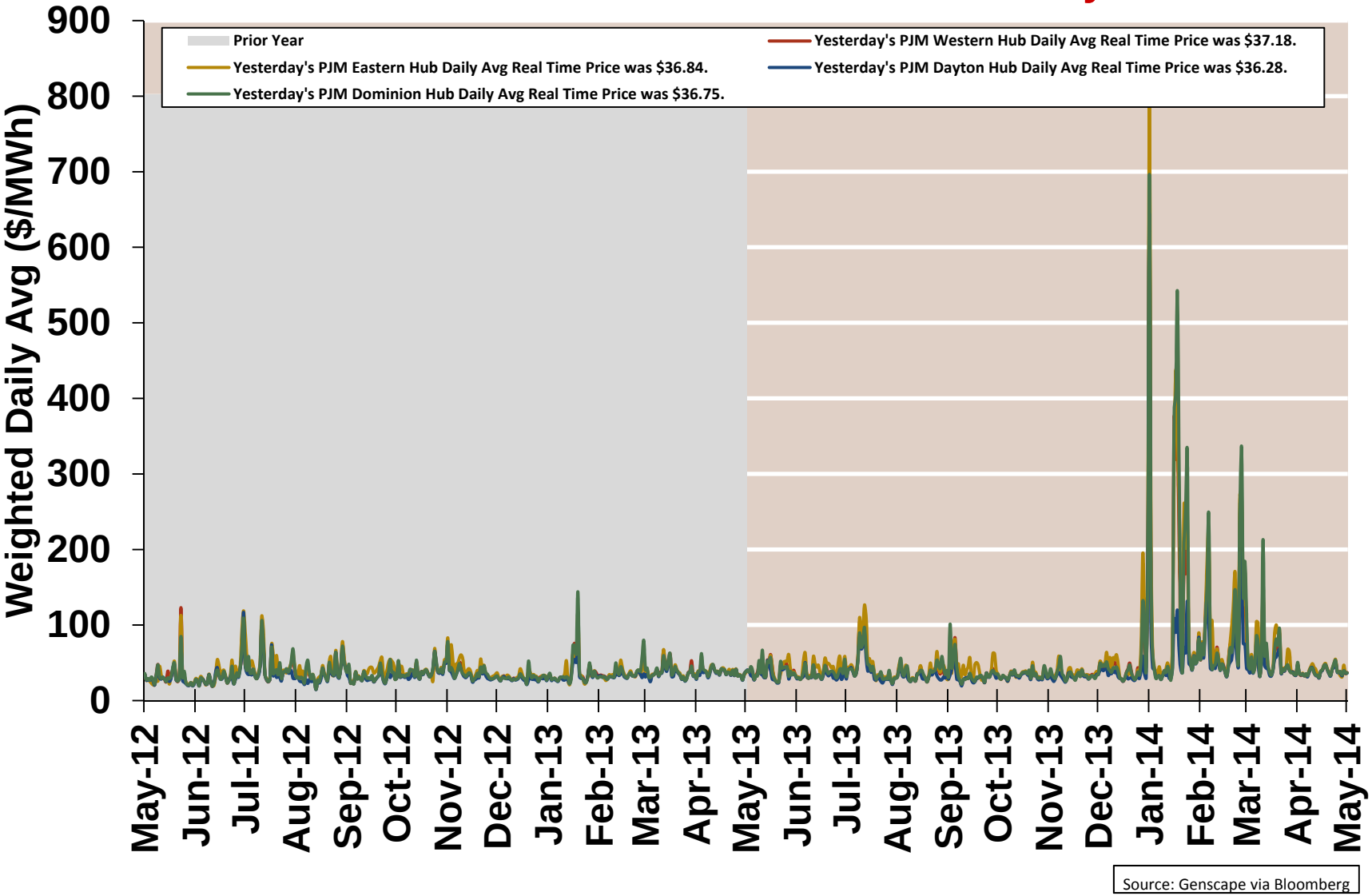
Electricity Markets

East

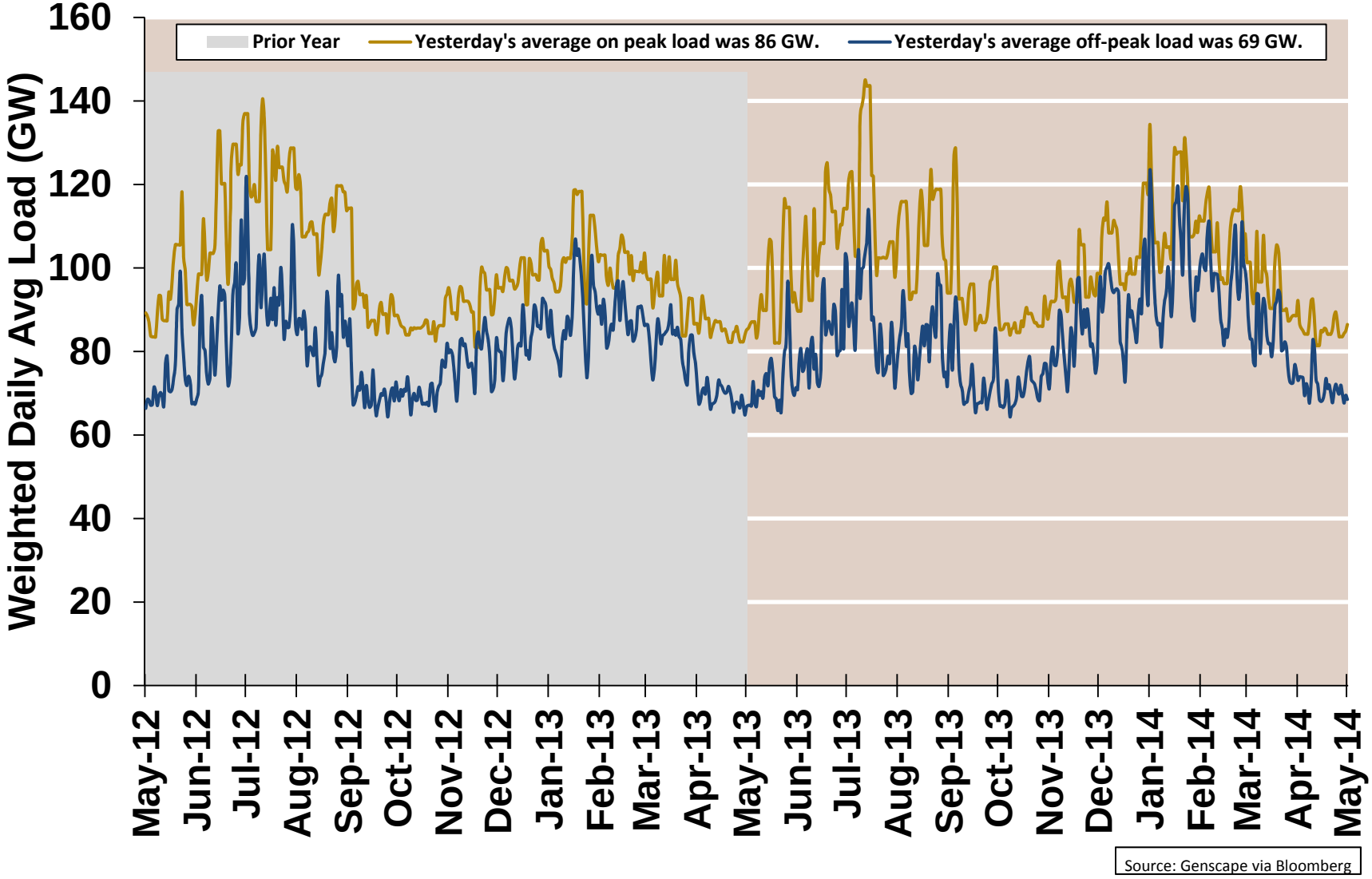
PJM Real Time Prices—Two Year History



Source: Genscape via Bloomberg

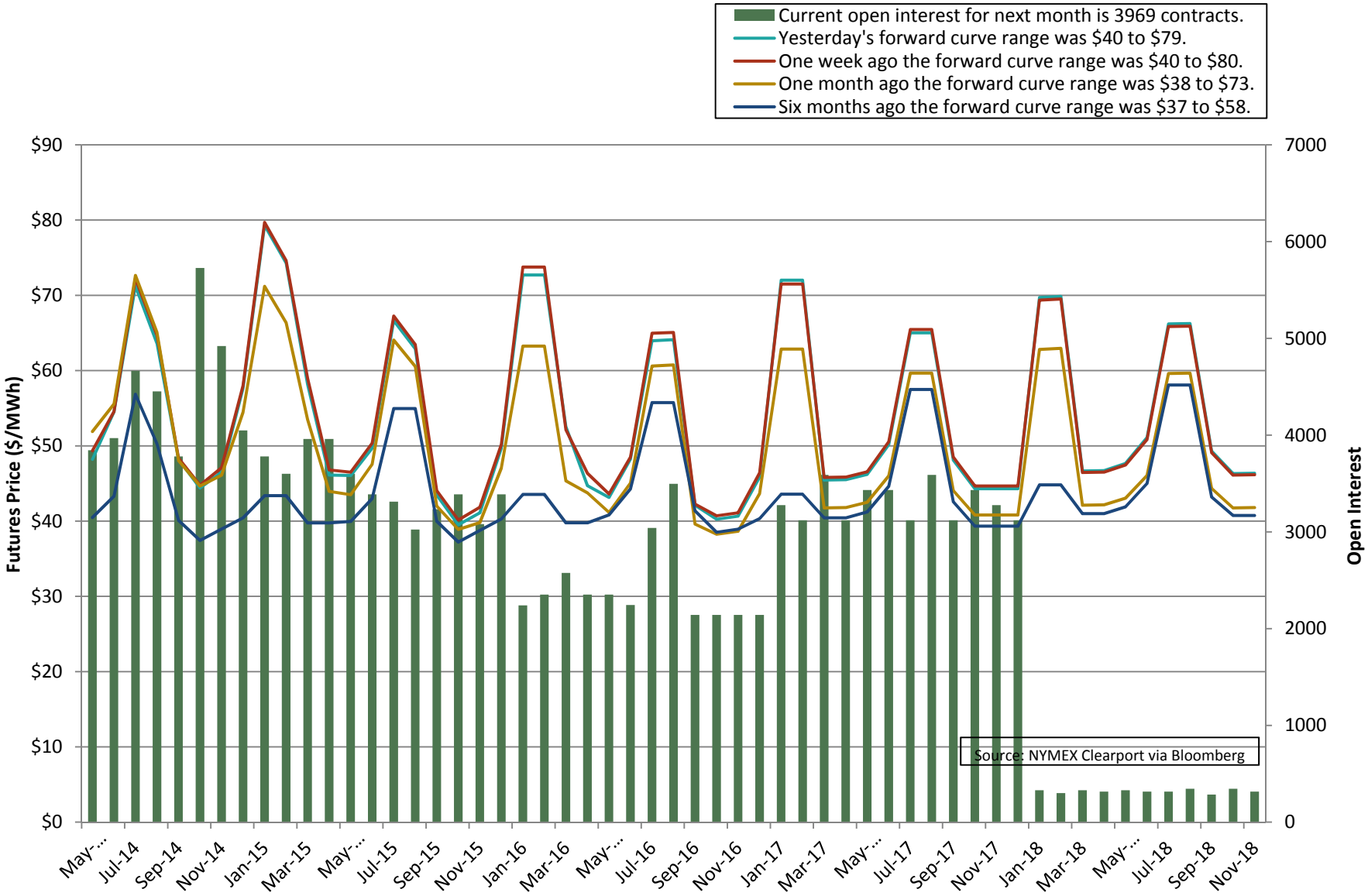
Updated: June 16, 2014

PJM System Daily Average Load —Two Year History



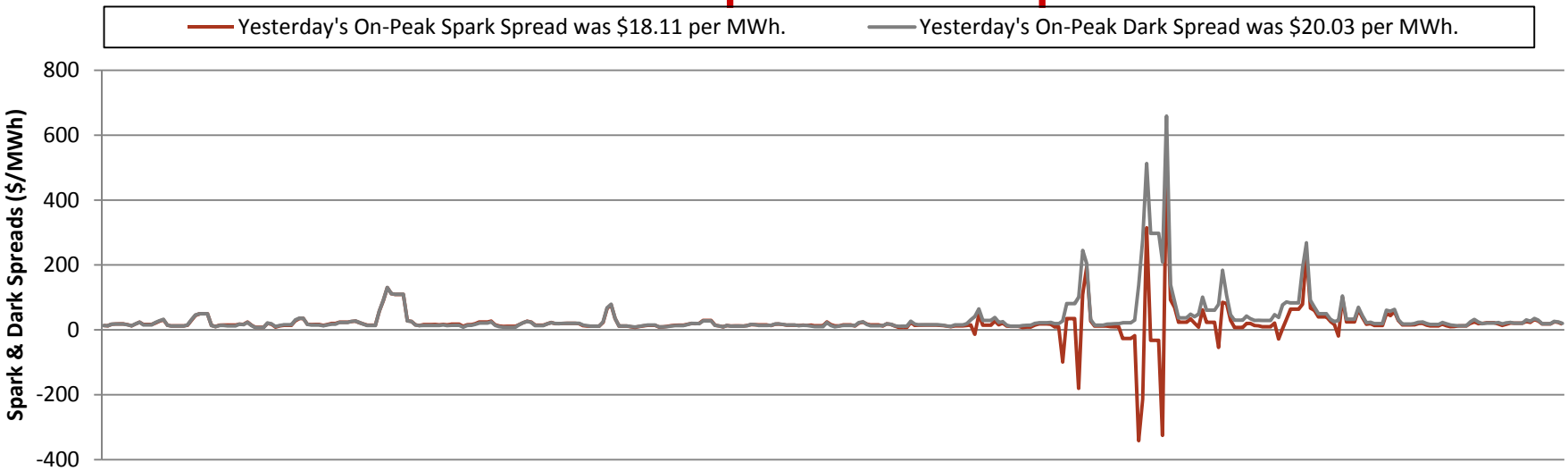
Updated: June 16, 2014

PJM Western Hub Peak RT Futures

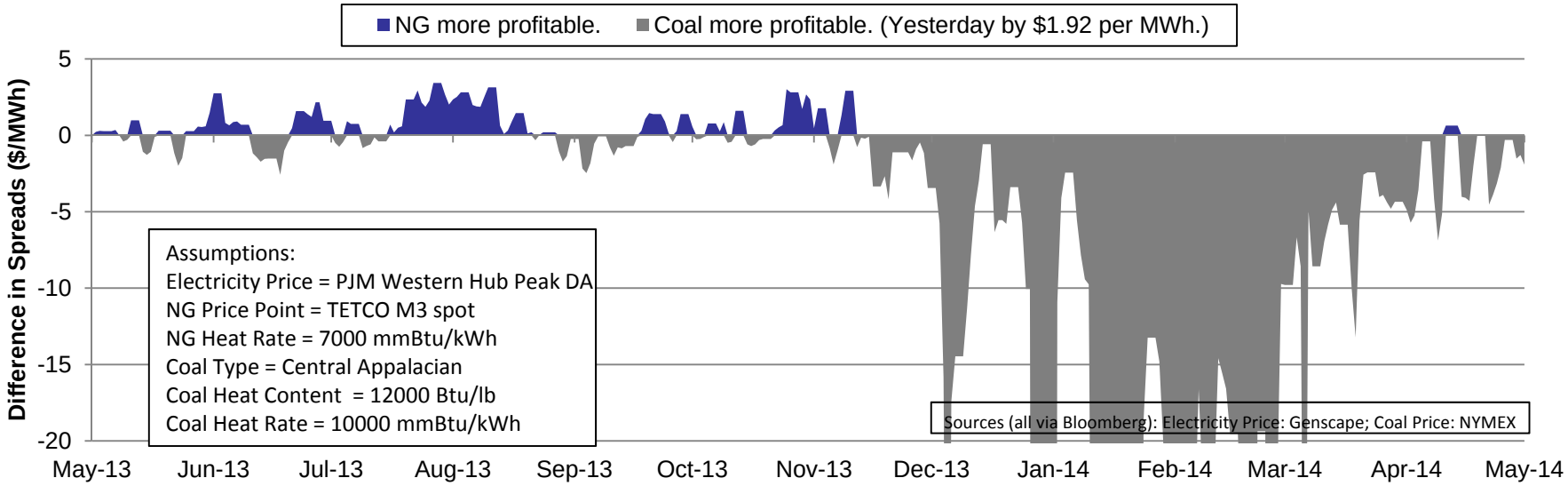


Updated: June 16, 2014

PJM On-Peak Spark & Dark Spreads

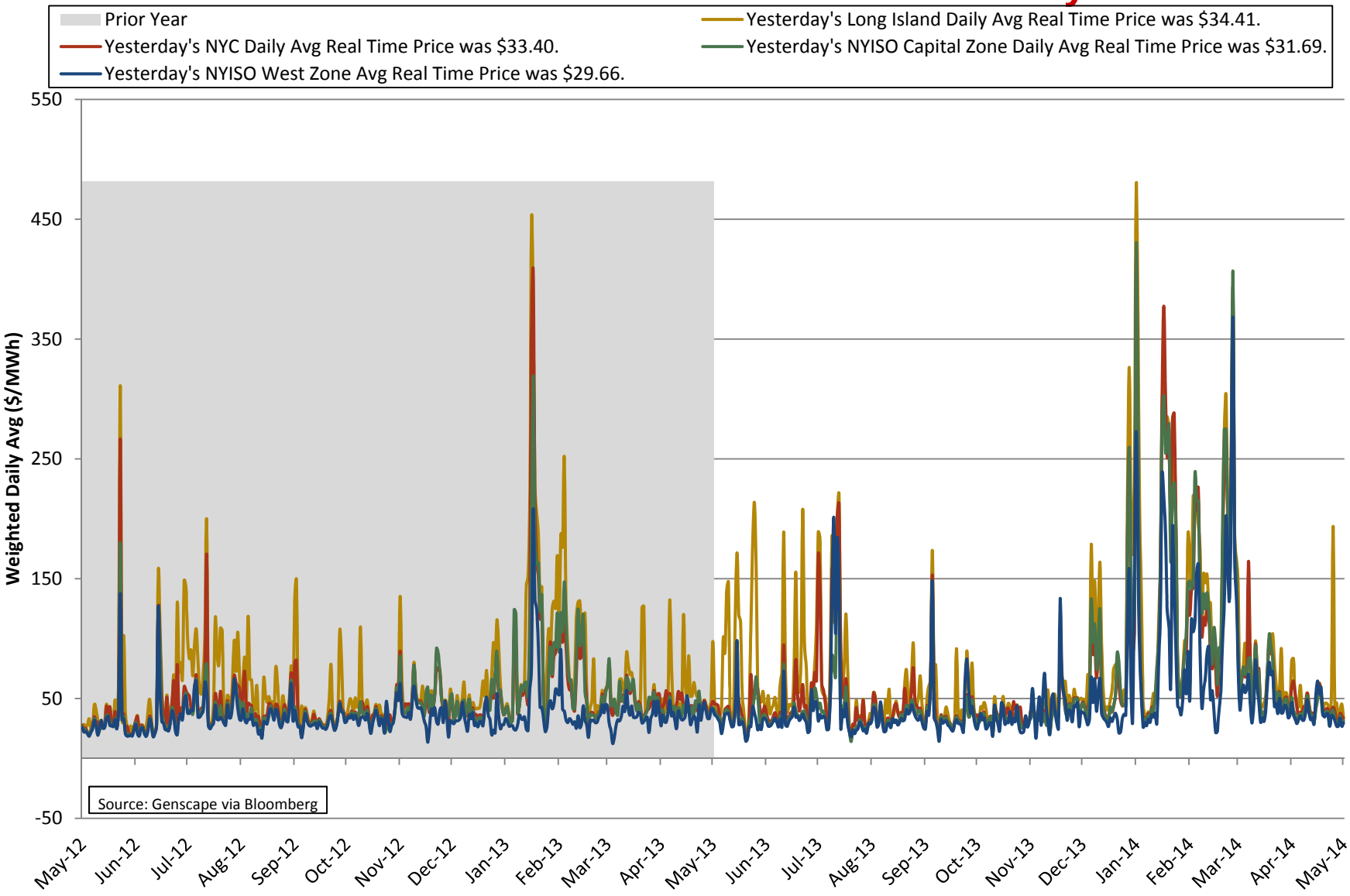


Spark Spread minus Dark Spread, 5/7/13 to 5/7/14



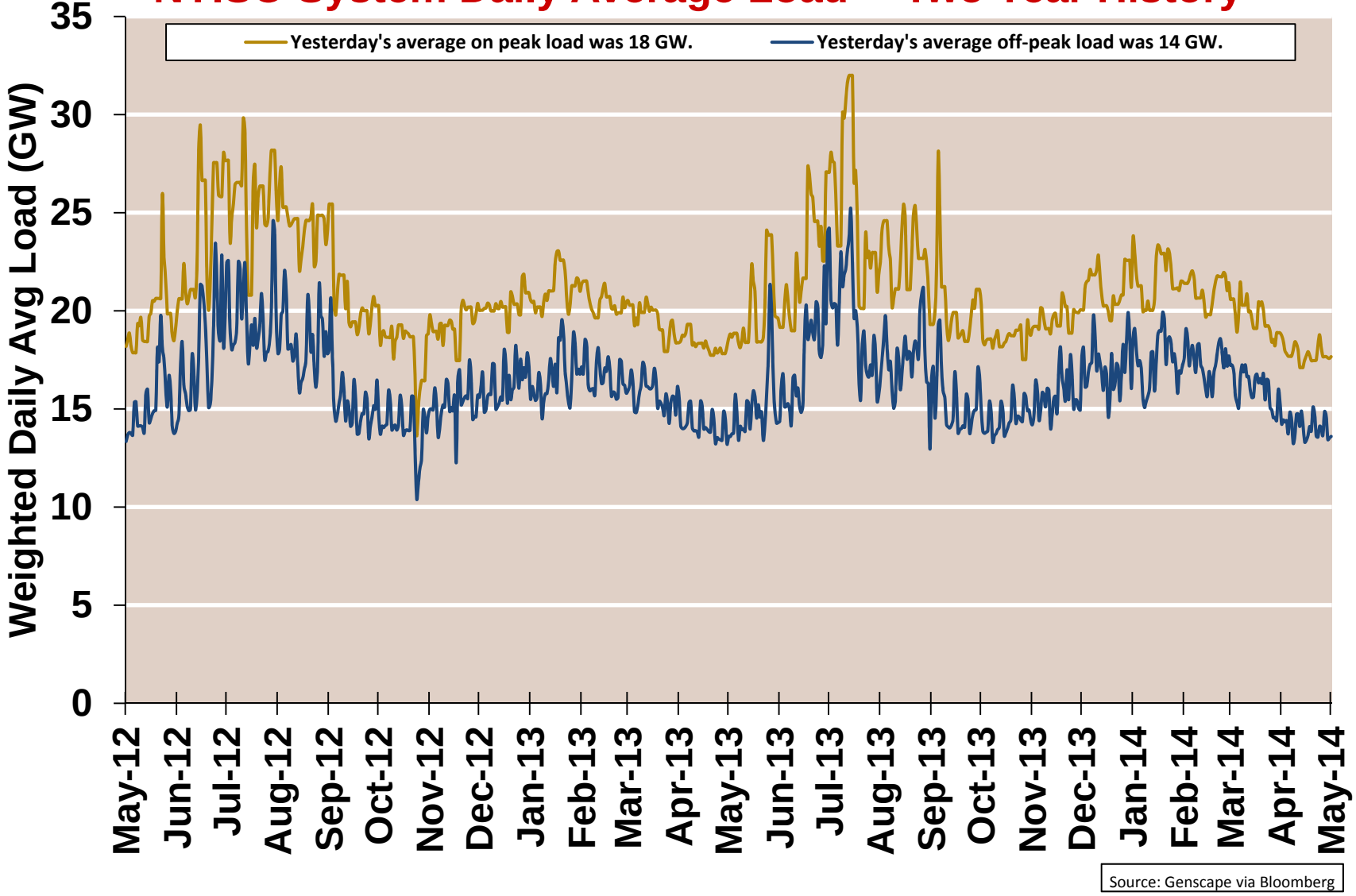
Updated: June 16, 2014

NYISO Real Time Prices—Two Year History



Updated June 16, 2014

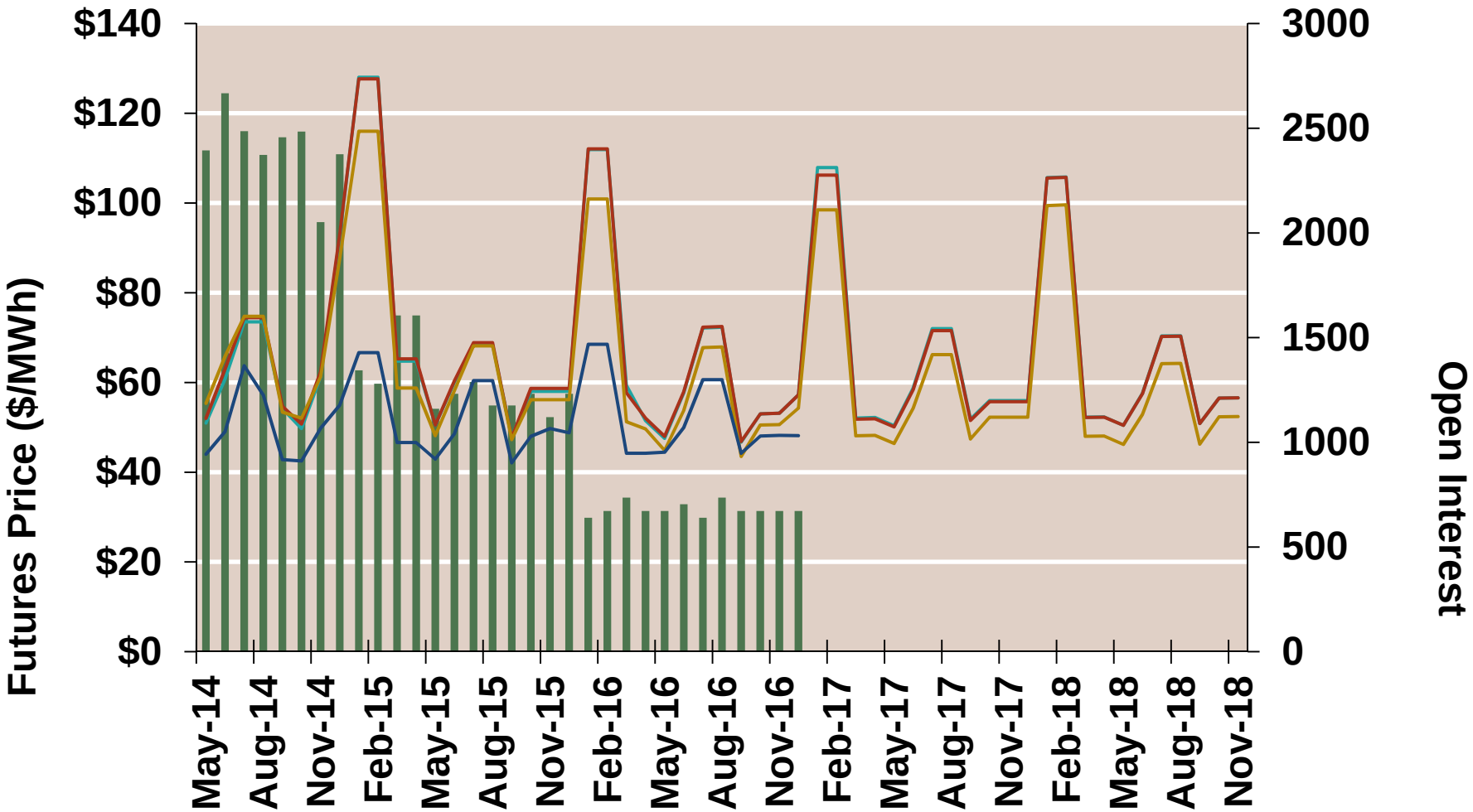
NYISO System Daily Average Load —Two Year History



Source: Genscape via Bloomberg

Updated June 16, 2014

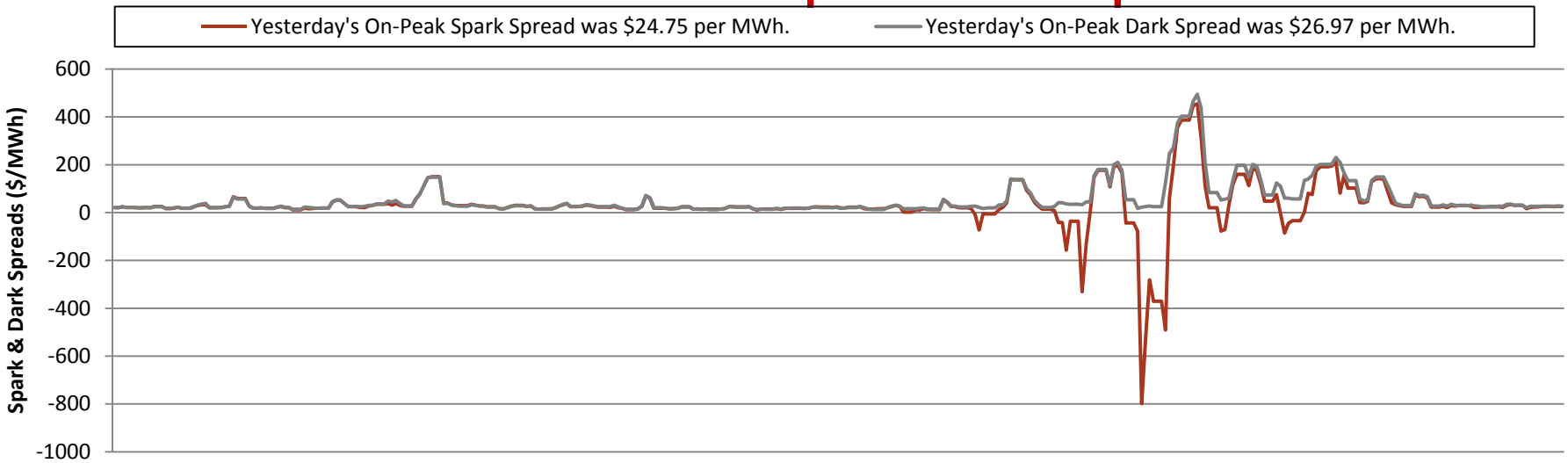
NYISO Hudson Valley Zone Peak DA Futures



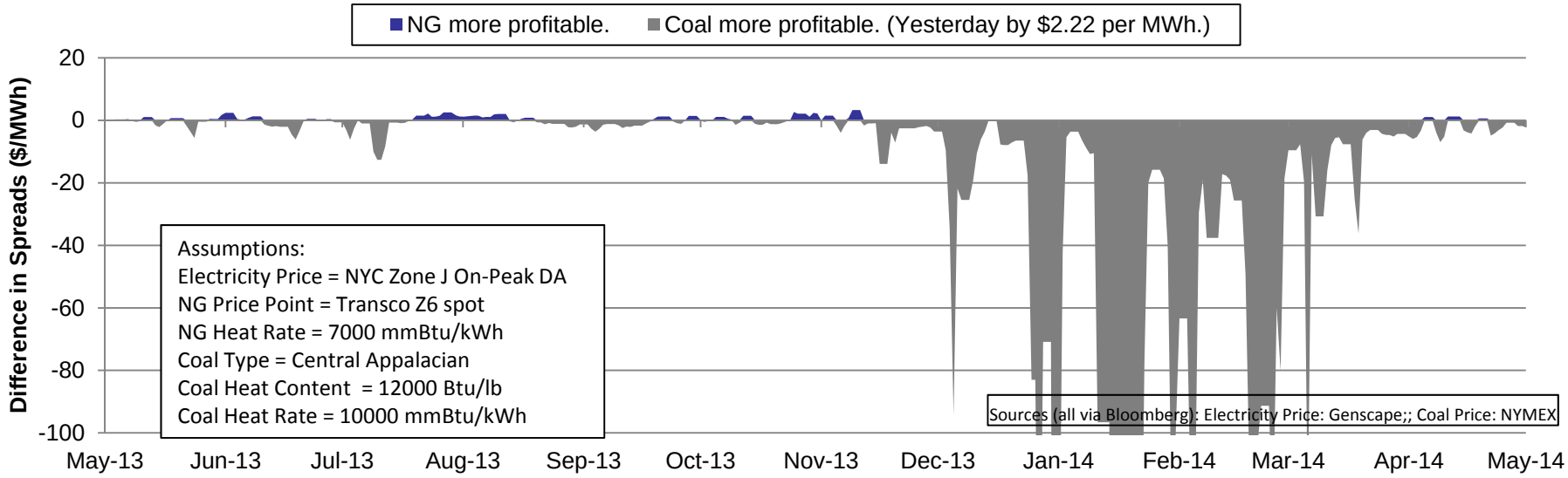
Source: NYMEX Clearport via Bloomberg

Updated June 16, 2014

NYISO NYC On-Peak Spark & Dark Spreads



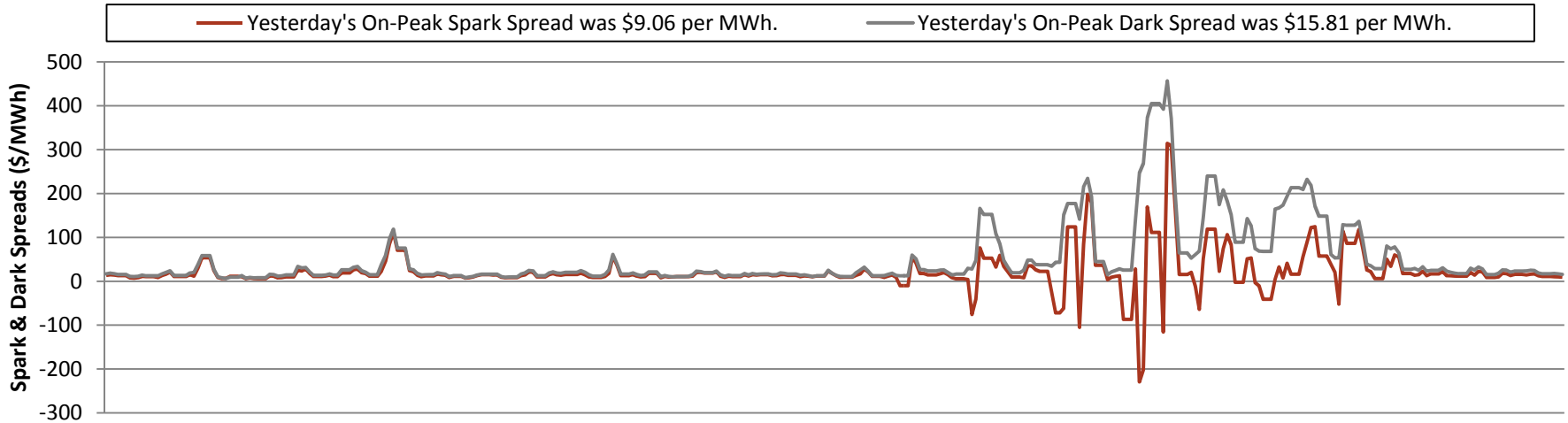
Spark Spread minus Dark Spread, 5/7/13 to 5/7/14



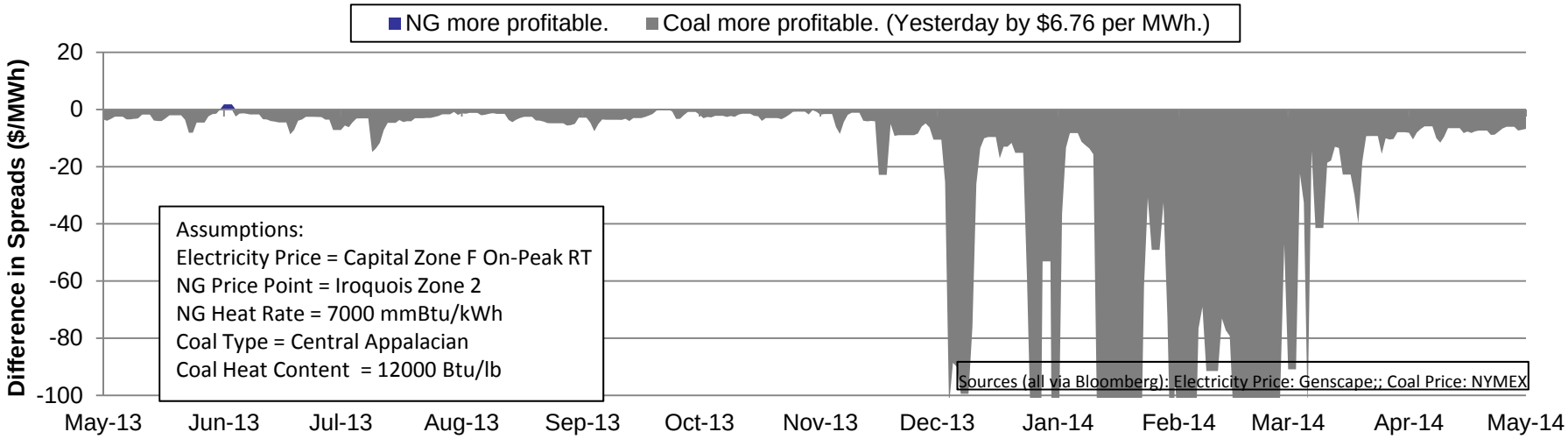
Updated: June 16, 2014

NYISO NYC On-Peak Spark & Dark Spreads

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

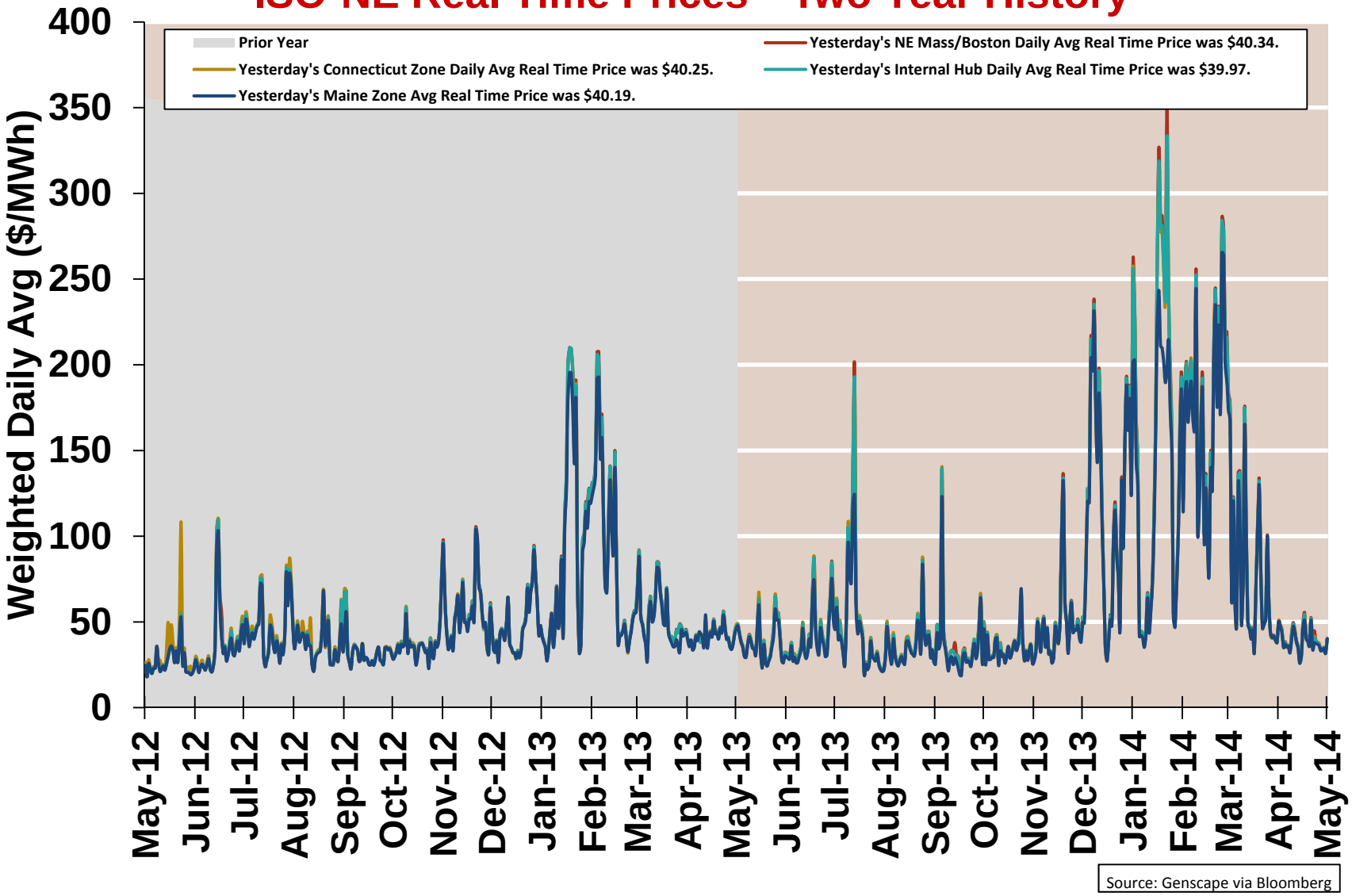


Spark Spread minus Dark Spread, 5/7/13 to 5/7/14



Updated June 16, 2014

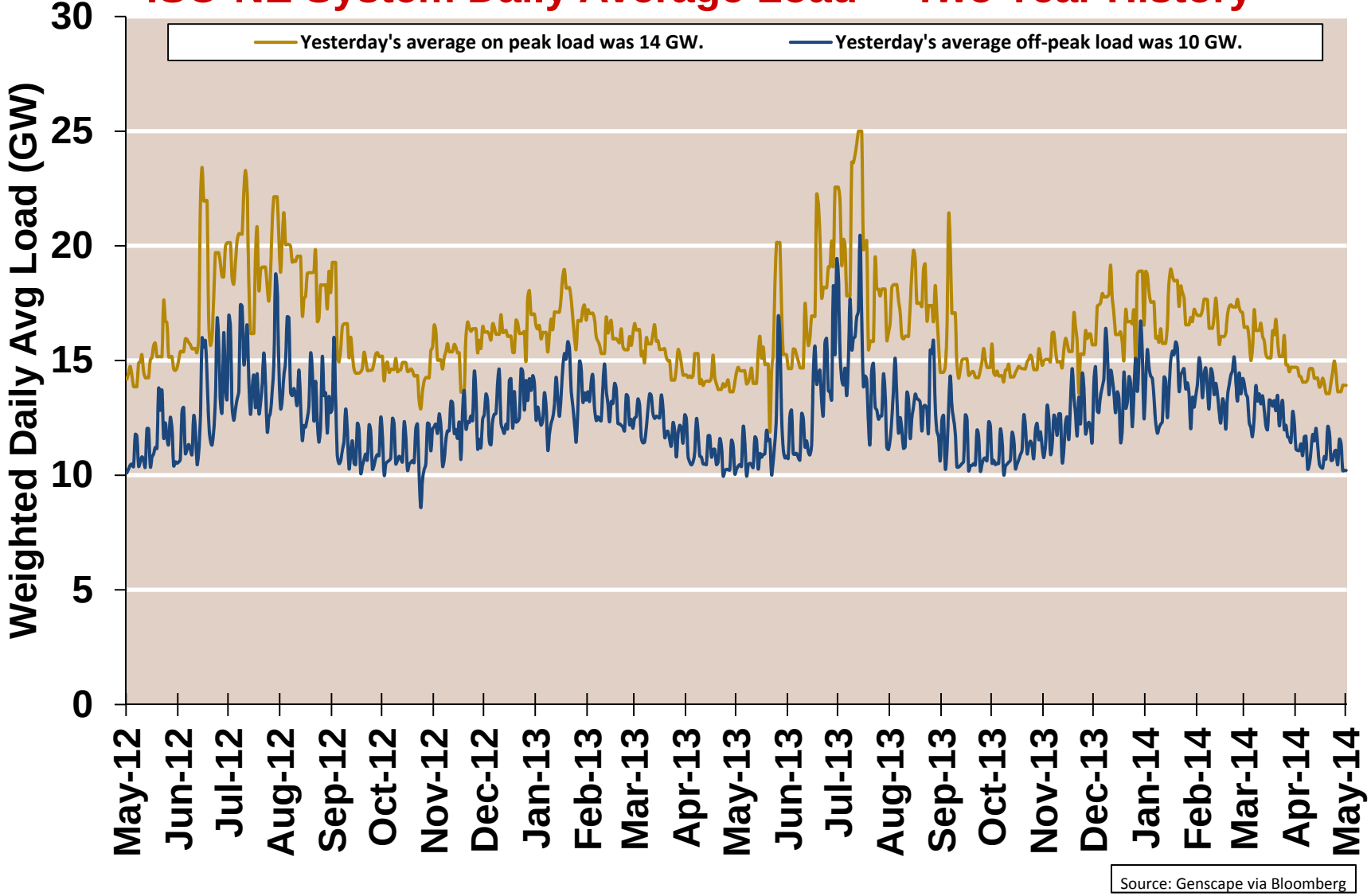
ISO-NE Real Time Prices—Two Year History



Source: Genscape via Bloomberg

Updated: June 16, 2014

ISO-NE System Daily Average Load —Two Year History



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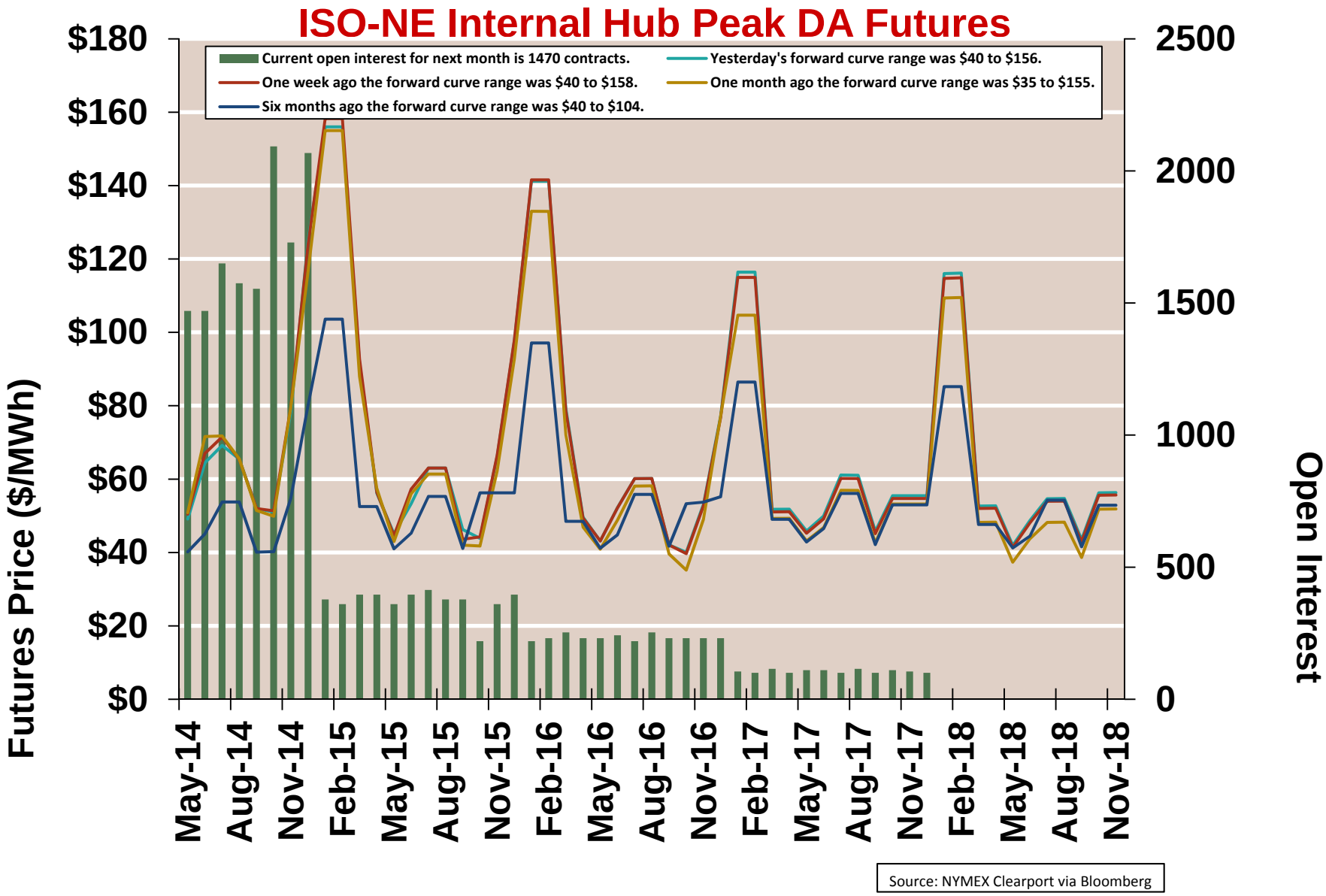

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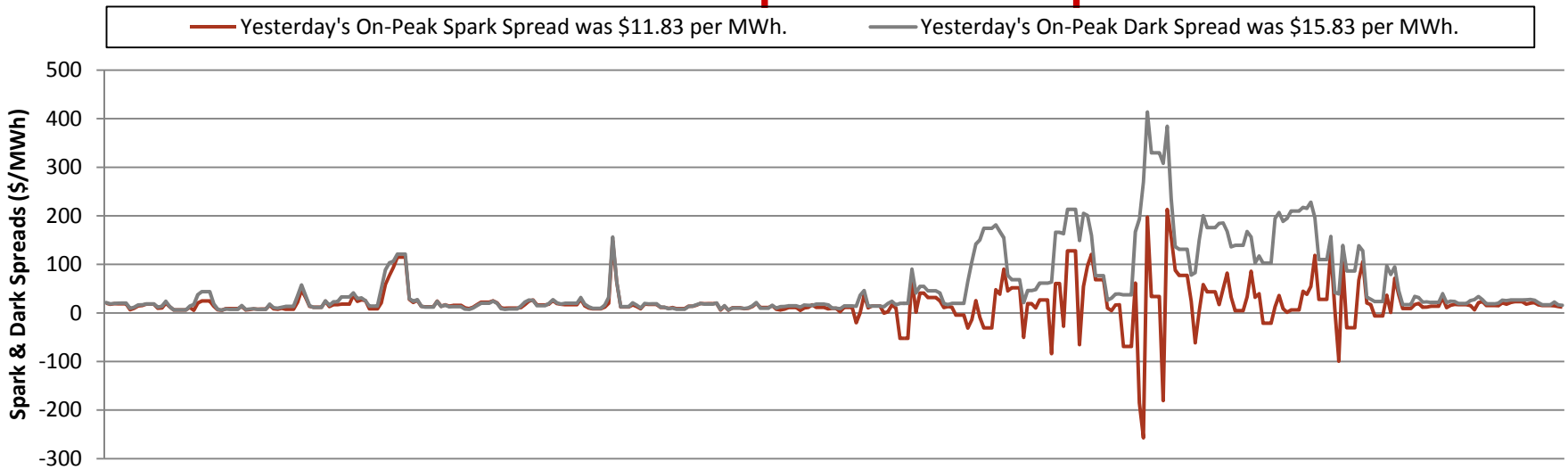
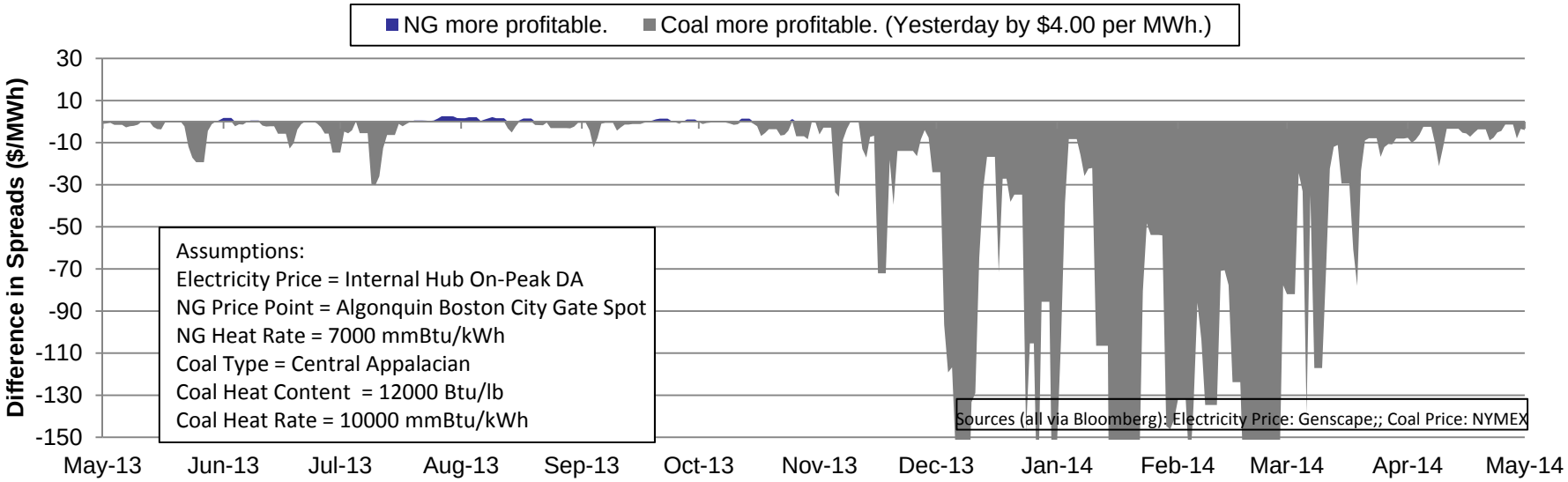
ISO-NE On-Peak Spark & Dark Spreads



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



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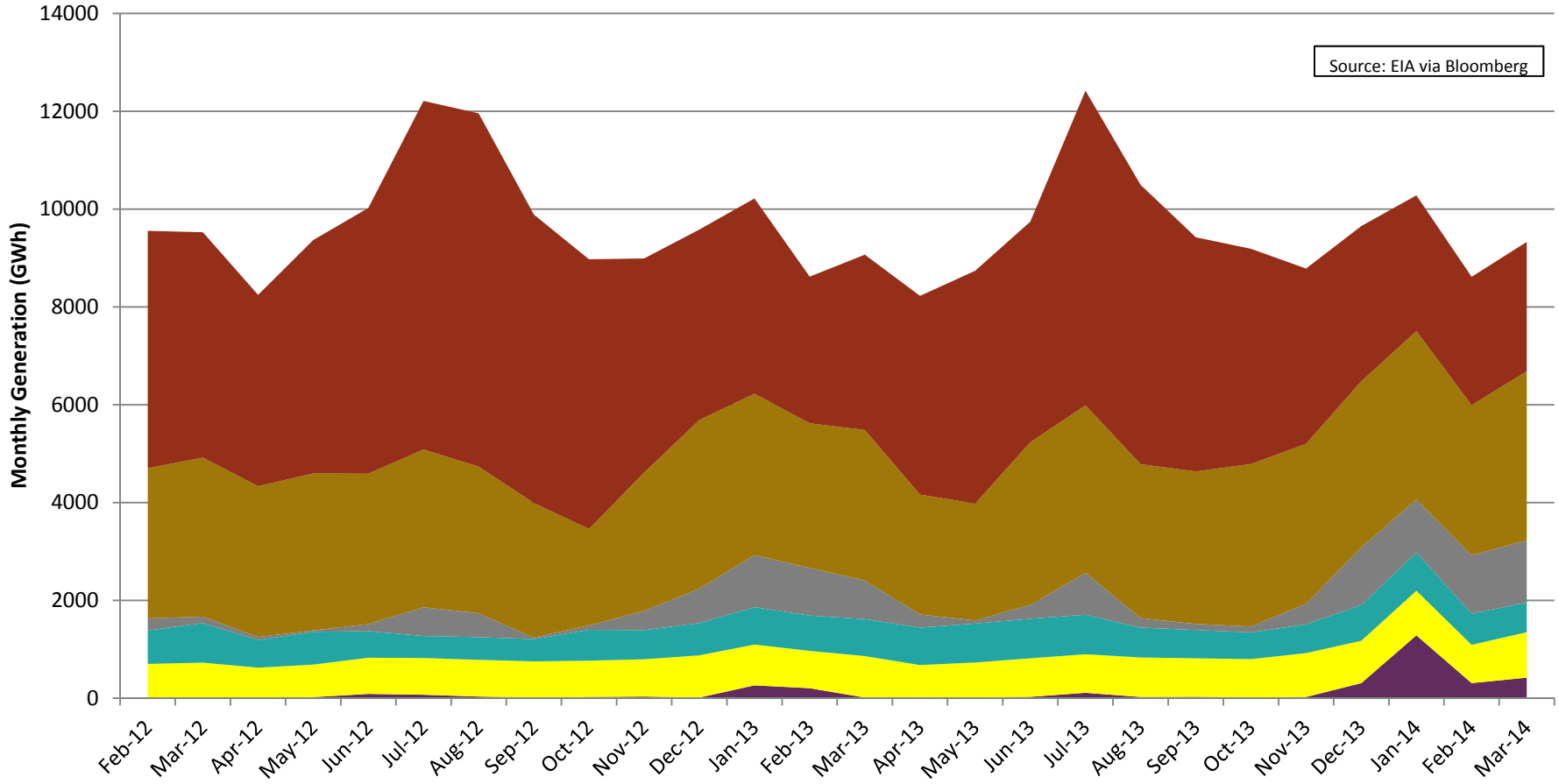
New England Regional Generation Mix, Feb '12 to Mar '14

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.

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



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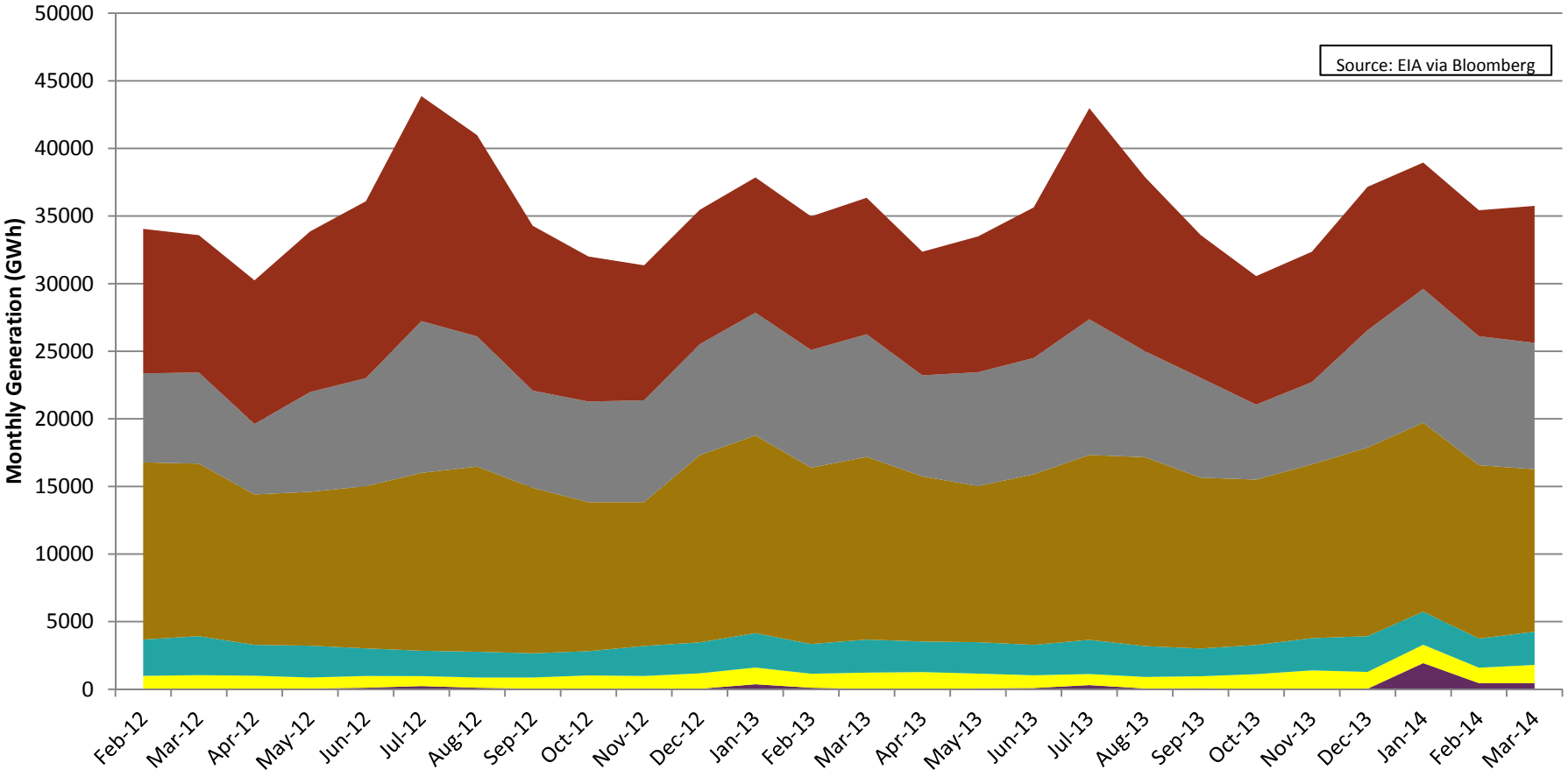
Middle Atlantic Regional Generation Mix, Feb '12 to Mar '14

- 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.

States: NJ, NY, PA



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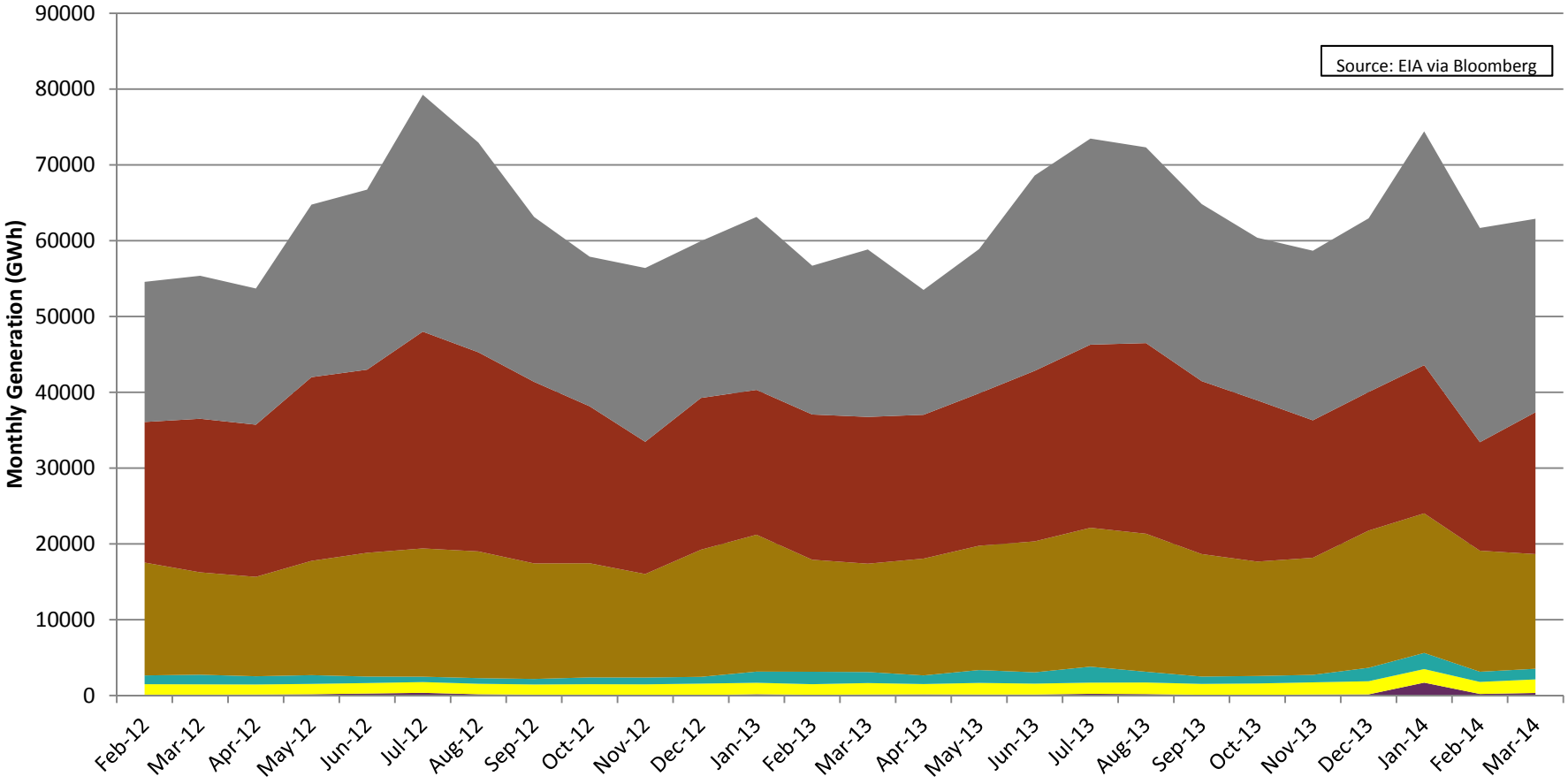
South Atlantic Regional Generation Mix, Feb '12 to Mar '14

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.



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