

OE ENERGY MARKET SNAPSHOT

Southeast States Version – May 2013 Data

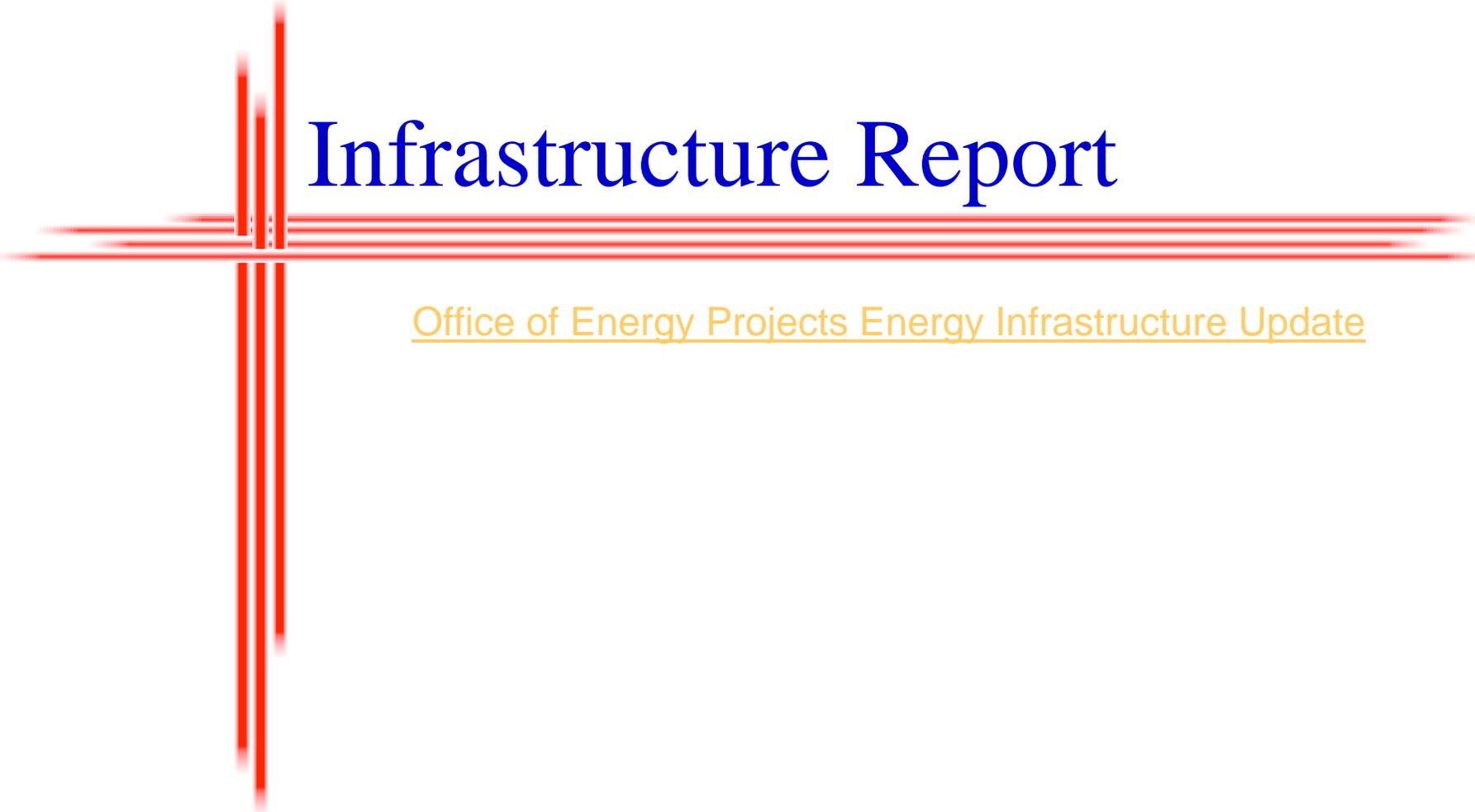
Office of Enforcement
Federal Energy Regulatory Commission
June 2013

2012 State of the Markets Report

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

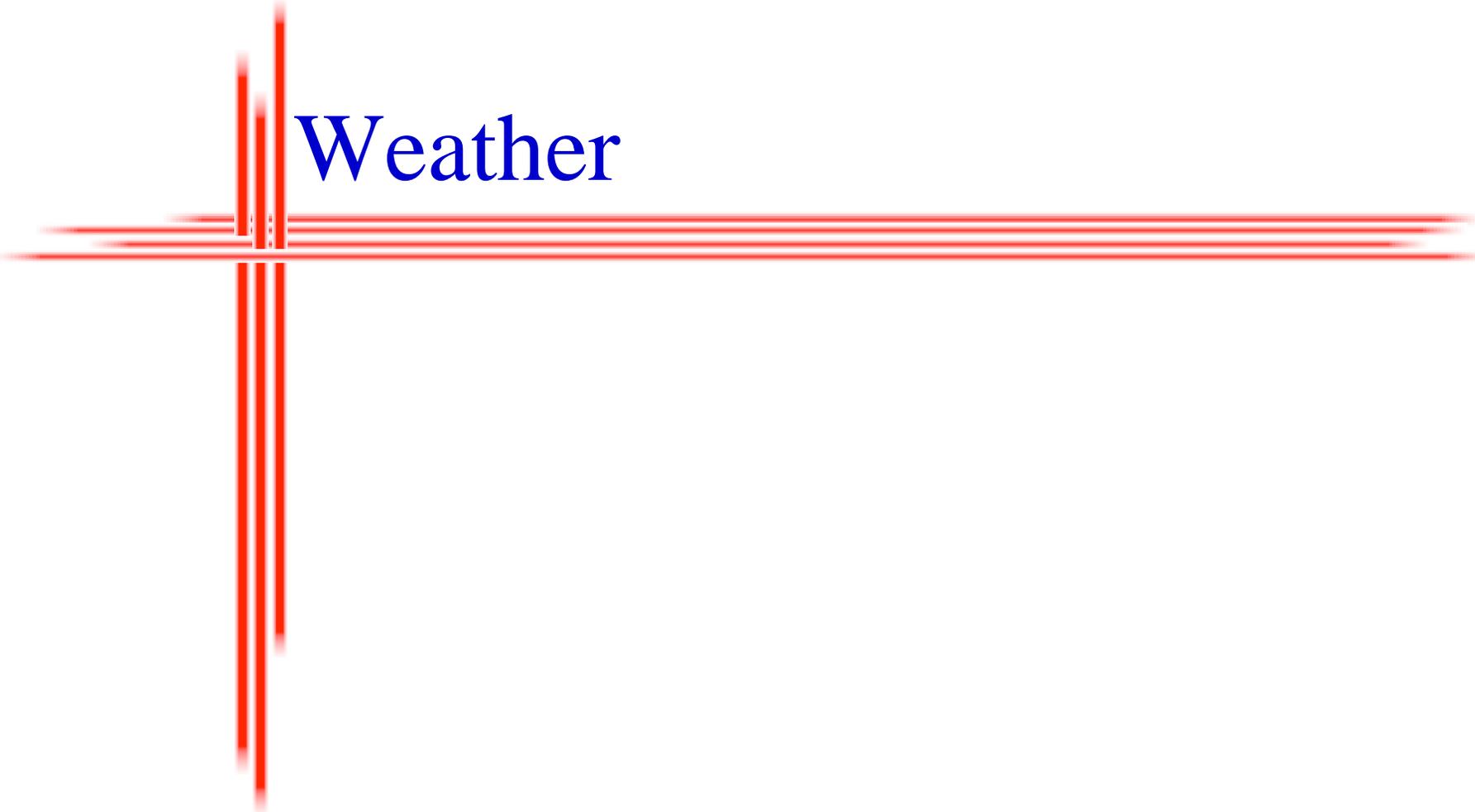
Summer 2013 Energy Market and Reliability Assessment

<http://www.ferc.gov/market-oversight/reports-analyses/mkt-views/2013/05-16-13.pdf>



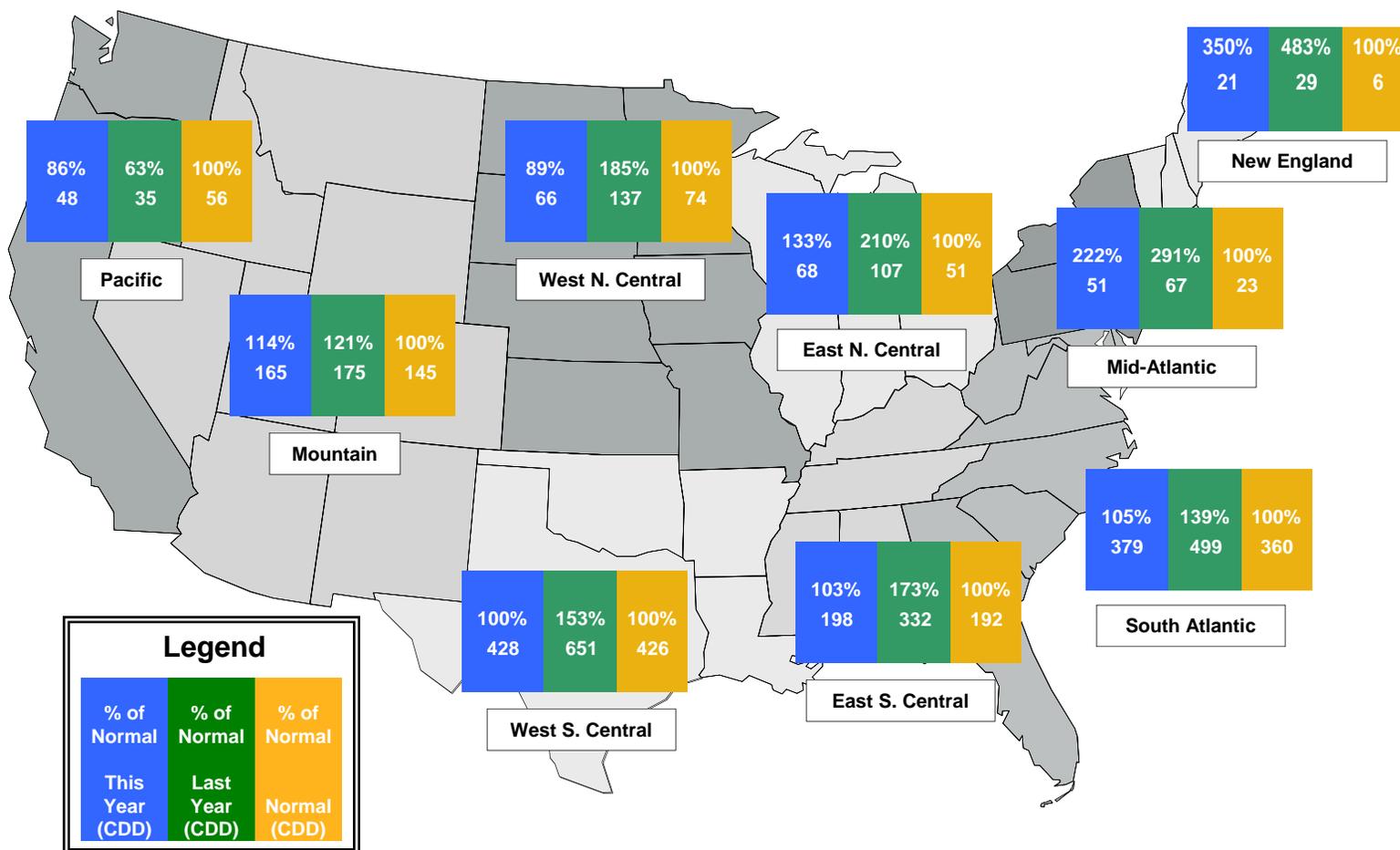
Infrastructure Report

Office of Energy Projects Energy Infrastructure Update



Weather

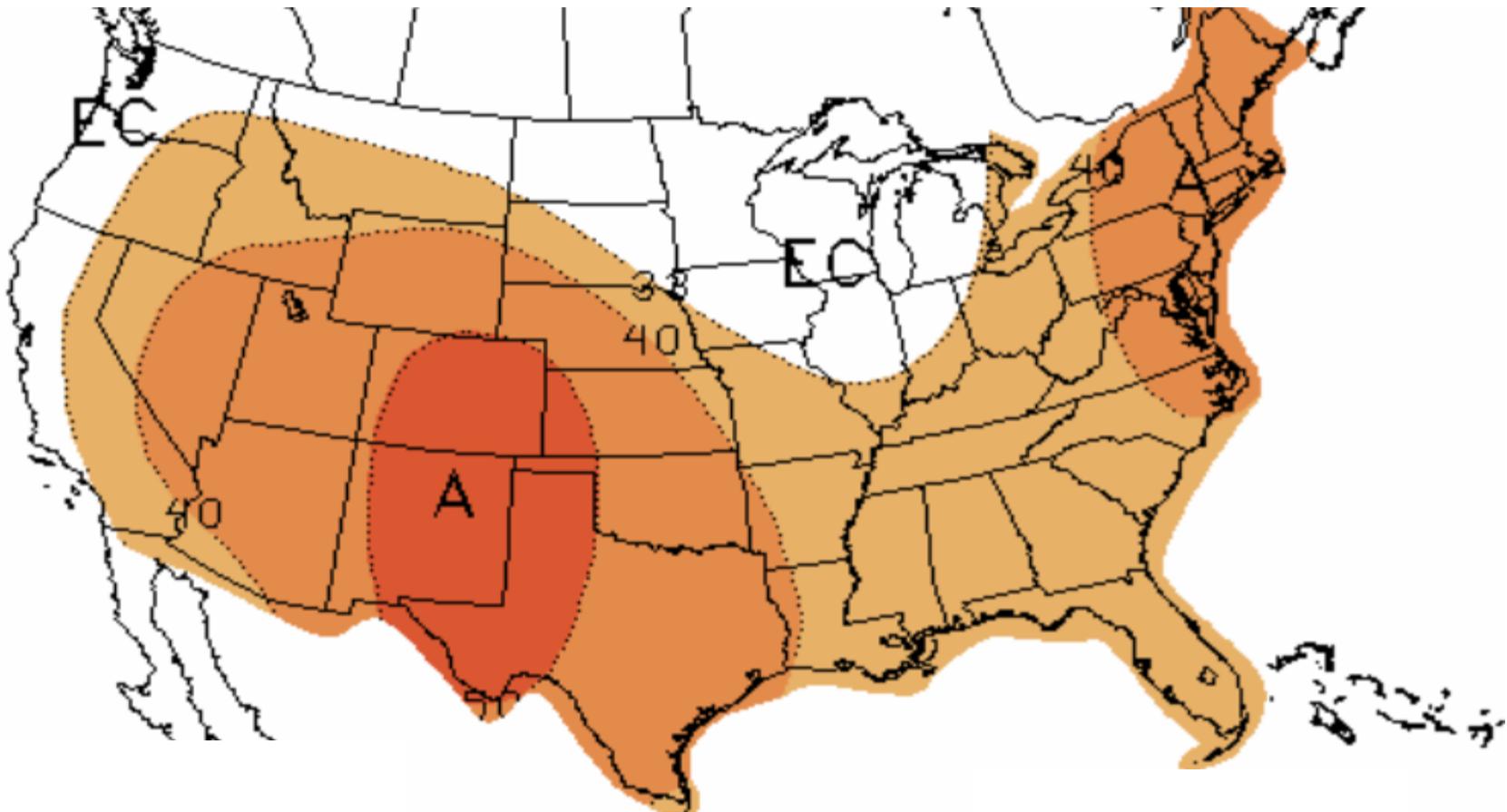
Regional Cooling Degree Days – January to June 2013



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

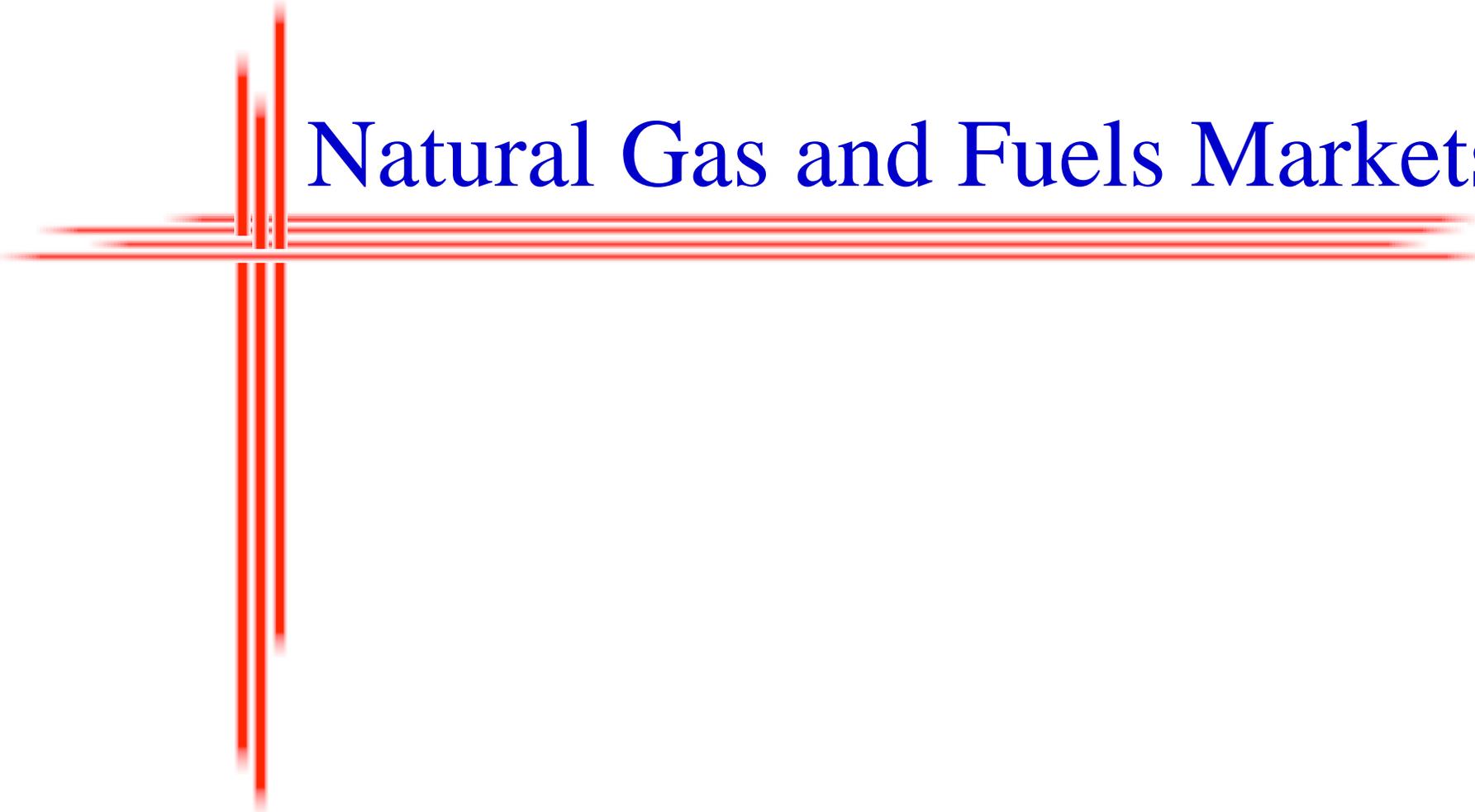
Updated: June 7, 2013

NOAA's 3 Month Temperature Forecast Made February 21, 2013, Valid for July 2013 – August 2013



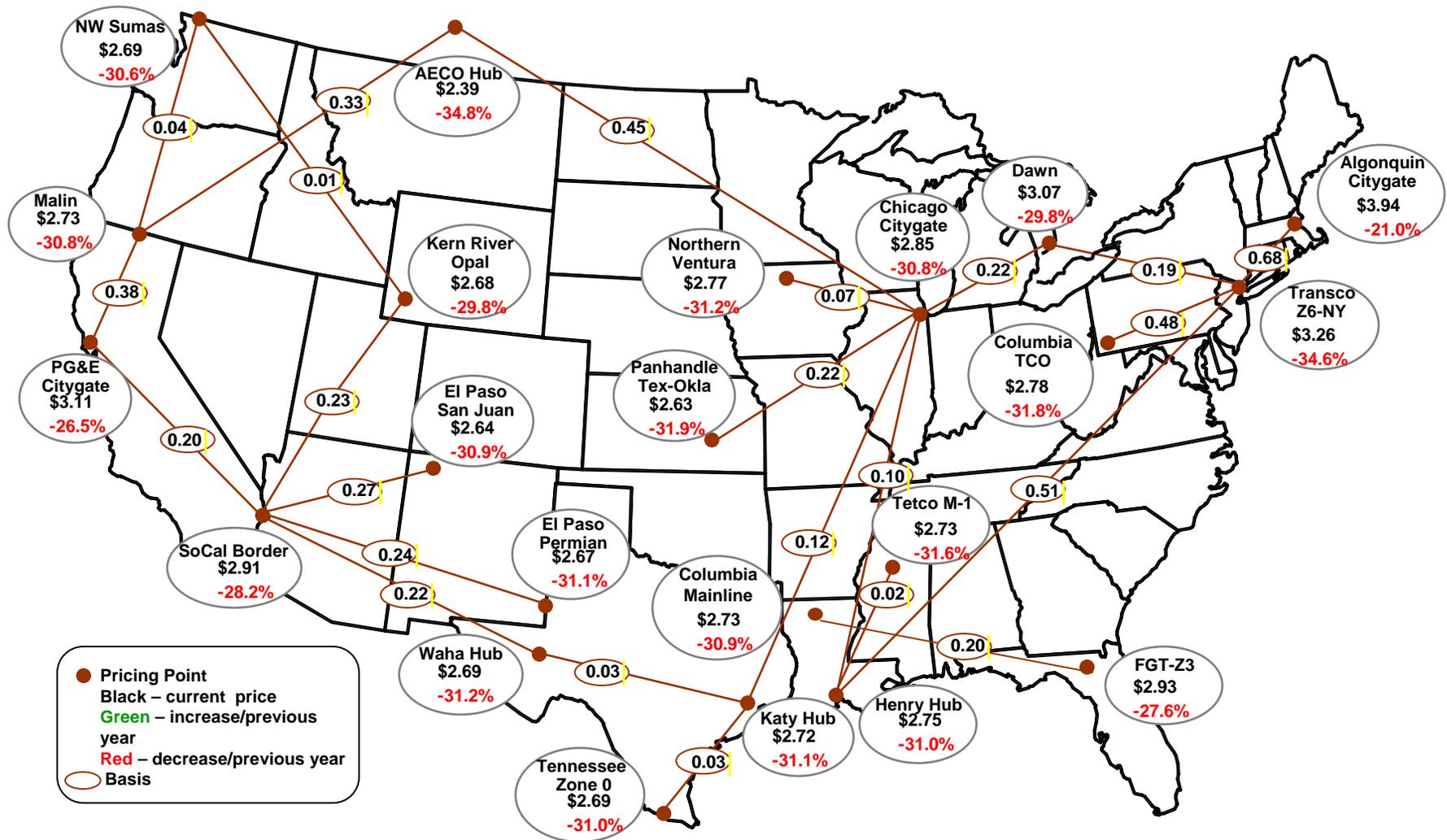
Note: "A" areas are above normal, "B" areas are below normal and "EC" means equal chance. Normal is based on the last 30 years of data.
Source: Derived from NOAA data.

Updated: June 7, 2013

A decorative graphic consisting of several thick, parallel red lines. One vertical line runs down the left side of the page, and several horizontal lines cross it, creating a grid-like structure. The lines are slightly blurred and have a glowing effect.

Natural Gas and Fuels Markets

Average Spot Gas Prices, 2012 (\$MMBtu)

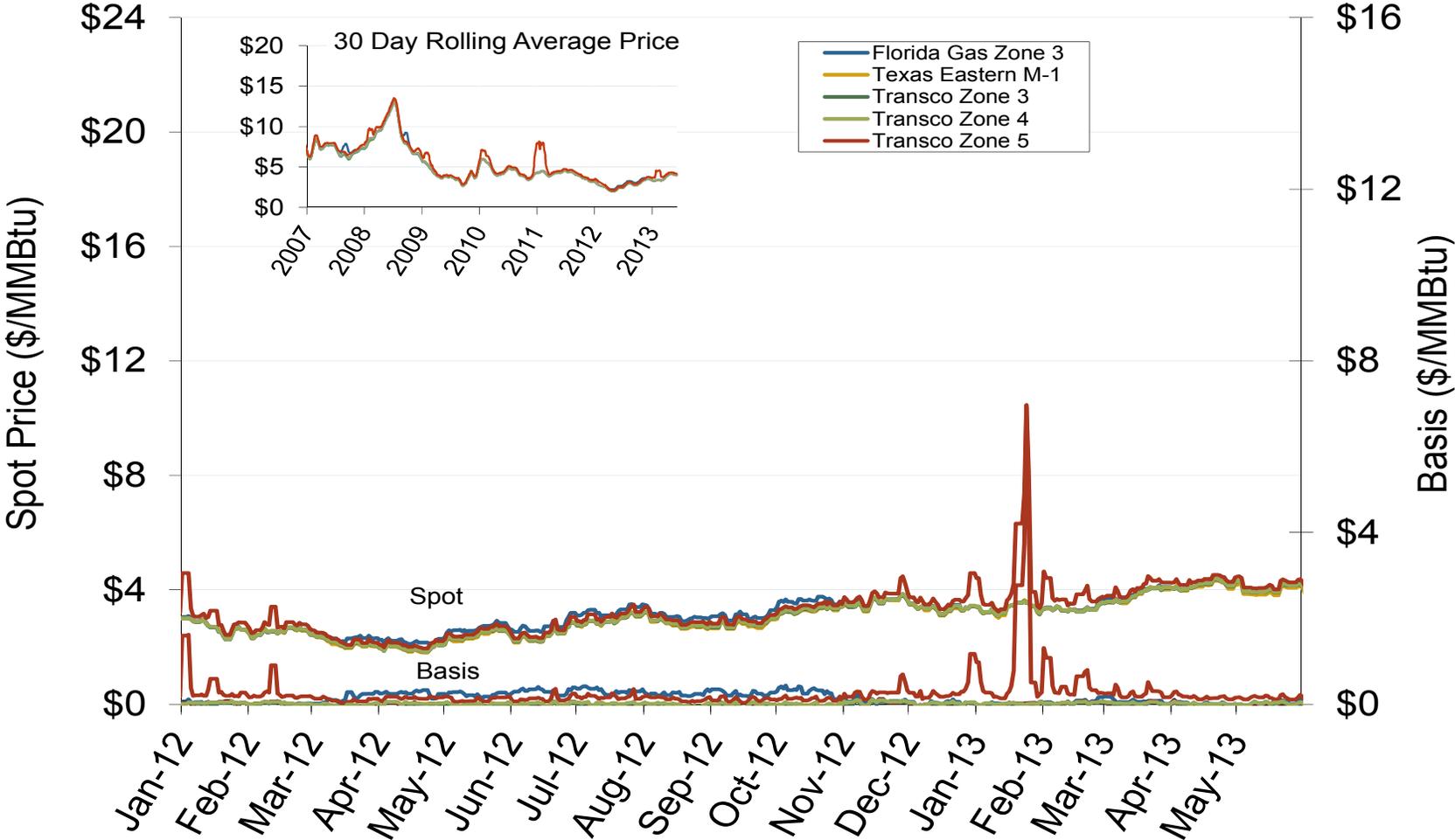


Source: Derived from *Platts* data.
June 2013 Southeast Snapshot Report

Southeast Annual Average Spot Hub Prices

Annual Average Day Ahead Prices (\$/MMBtu)						
	2008	2009	2010	2011	2012	5-Year Avg
Henry Hub	\$8.85	\$3.92	\$4.37	\$3.99	\$2.75	\$4.78
Florida Gas Zone 3	\$9.13	\$3.98	\$4.42	\$4.05	\$2.93	\$4.90
Transco Station 65	\$8.92	\$3.96	\$4.38	\$3.98	\$2.74	\$4.80
Transco Zone 4	\$8.98	\$3.98	\$4.39	\$4.00	\$2.76	\$4.82
Transco Zone 5	\$9.46	\$4.33	\$5.04	\$4.52	\$2.94	\$5.26
Tetco M1	\$8.98	\$3.98	\$4.40	\$3.98	\$2.73	\$4.81

Southeastern Day-Ahead Hub Spot Prices and Basis



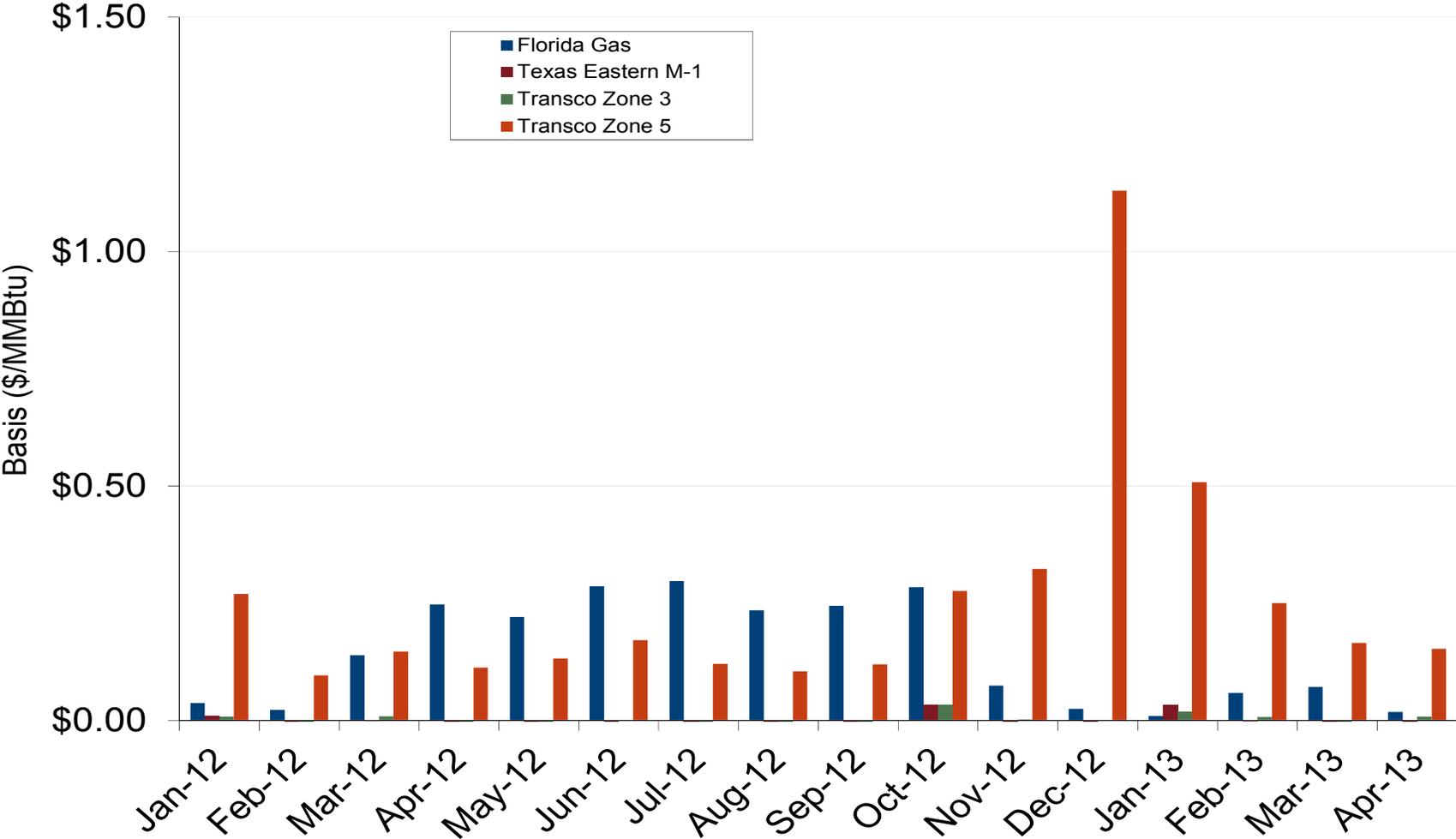
Source: Derived from Platts data
June 2013 Southeast Snapshot Report

Updated: June 06, 2013

Southeast Natural Gas Market: Average Basis to Henry Hub

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Southeastern Monthly Average Basis Value to Henry Hub



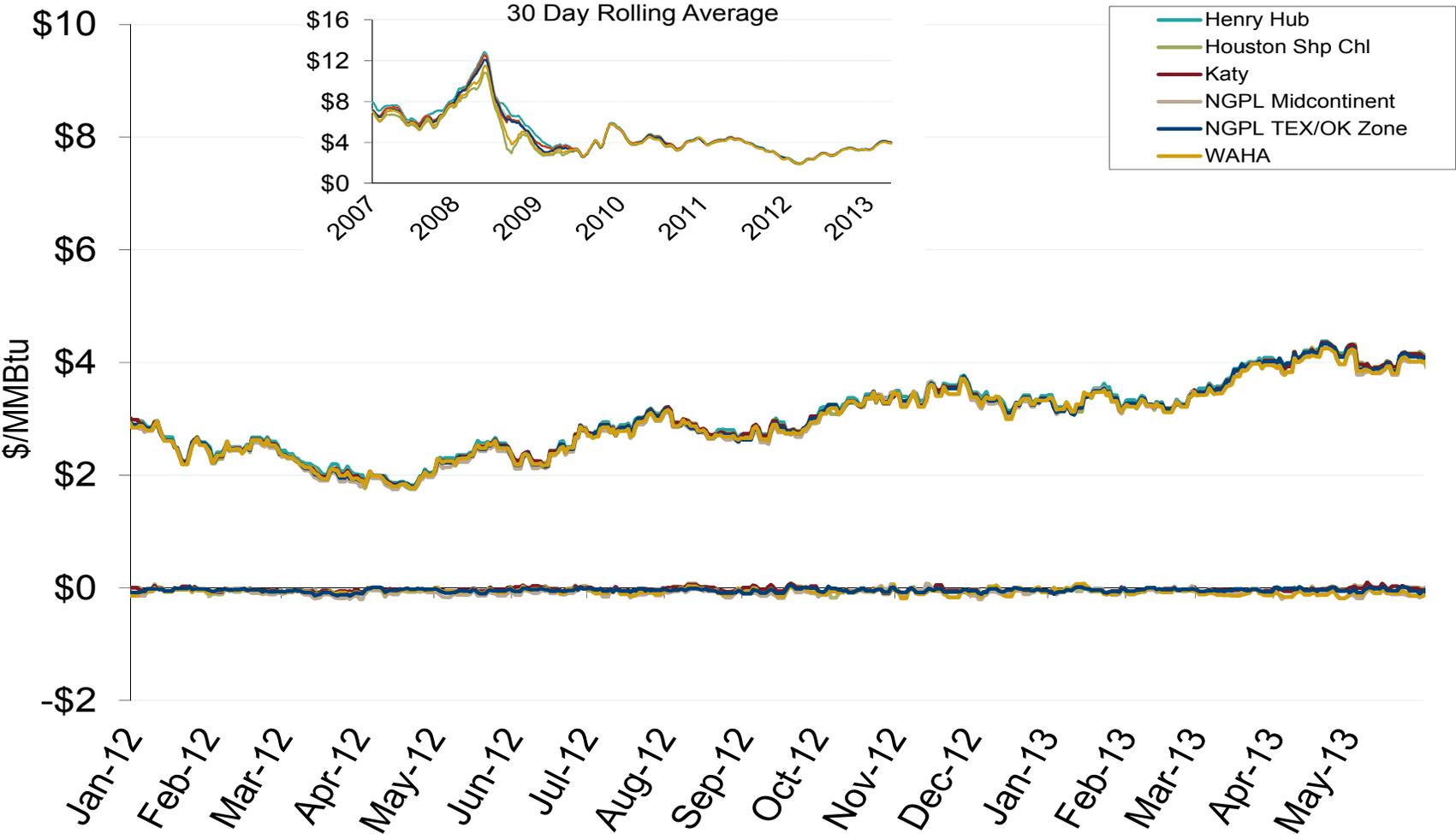
Source: Derived from Platts data
June 2013 Southeast Snapshot Report

Updated: June 06, 2013

Gulf Annual Average Spot Hub Prices

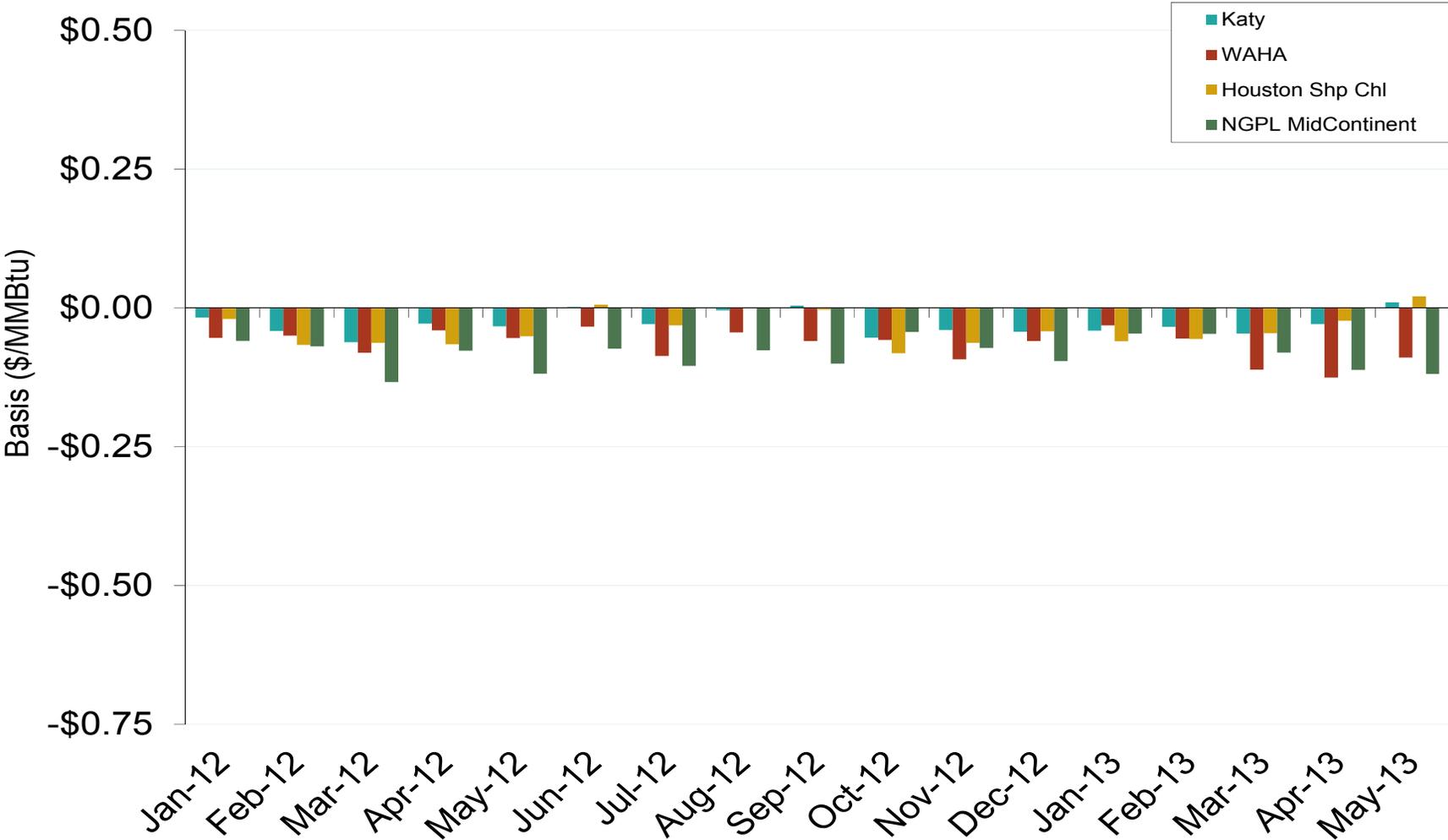
Annual Average Day Ahead Prices (\$/MMBtu)						
	2008	2009	2010	2011	2012	5-Year Avg
Henry Hub	\$8.85	\$3.92	\$4.37	\$3.99	\$2.75	\$4.78
NGPL Midcontinent	\$7.11	\$3.32	\$4.16	\$3.88	\$2.66	\$4.23
Houston Ship Channel	\$8.50	\$3.75	\$4.34	\$3.94	\$2.71	\$4.65
Katy	\$8.51	\$3.75	\$4.33	\$3.95	\$2.72	\$4.65
Waha	\$7.57	\$3.47	\$4.21	\$3.91	\$2.69	\$4.37
El Paso Permian	\$7.44	\$3.41	\$4.16	\$3.87	\$2.67	\$4.31
Panhandle TX/OK	\$7.07	\$3.27	\$4.14	\$3.86	\$2.63	\$4.19
Tennessee Zone 0	\$8.50	\$3.74	\$4.29	\$3.90	\$2.69	\$4.63

Gulf Day-Ahead Hub Spot Prices and Basis



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Gulf Monthly Average Basis Value to Henry Hub



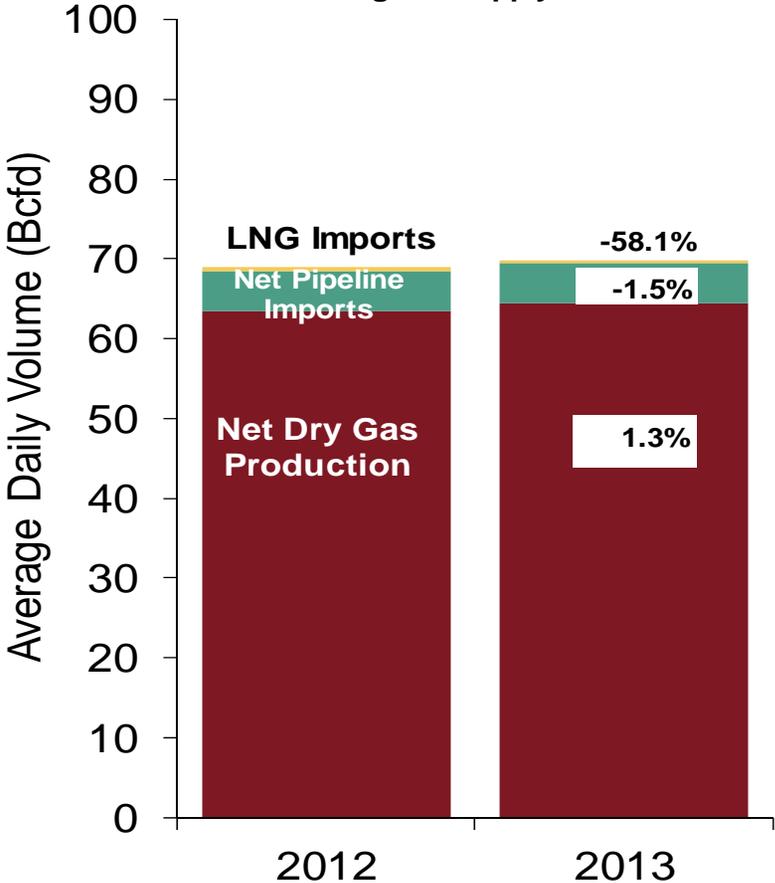
Source: Derived from *Platts* data
June 2013 Southeast Snapshot Report

Updated: June 06, 2013

U.S. NG Supply and Demand 2012 vs. 2013: January - May

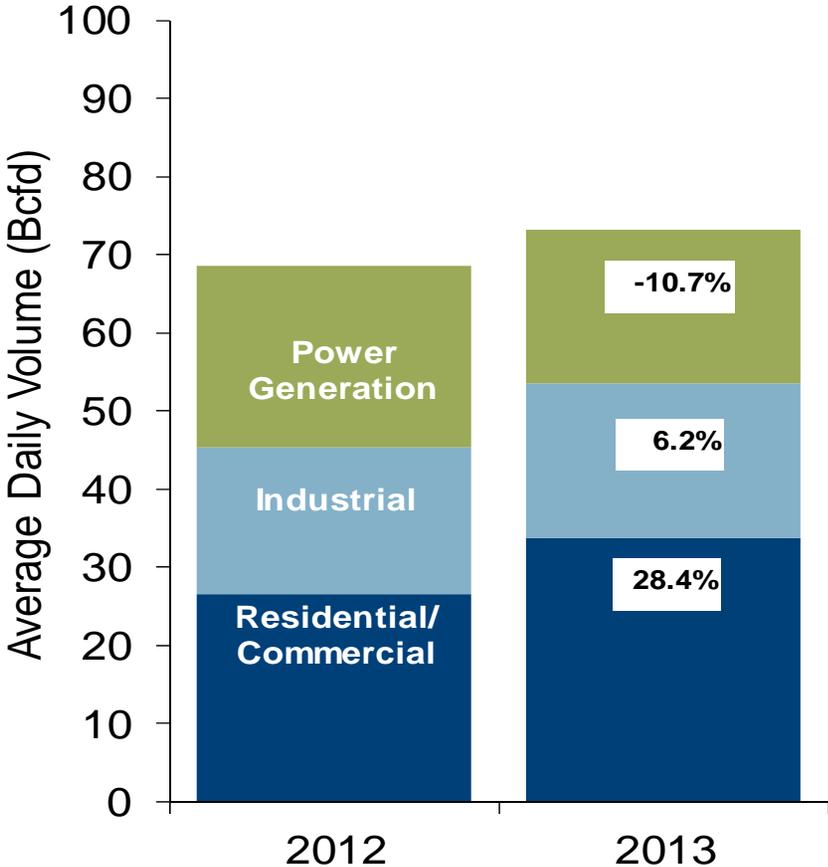
US Natural Gas Supply

Total Change in Supply 0.0%



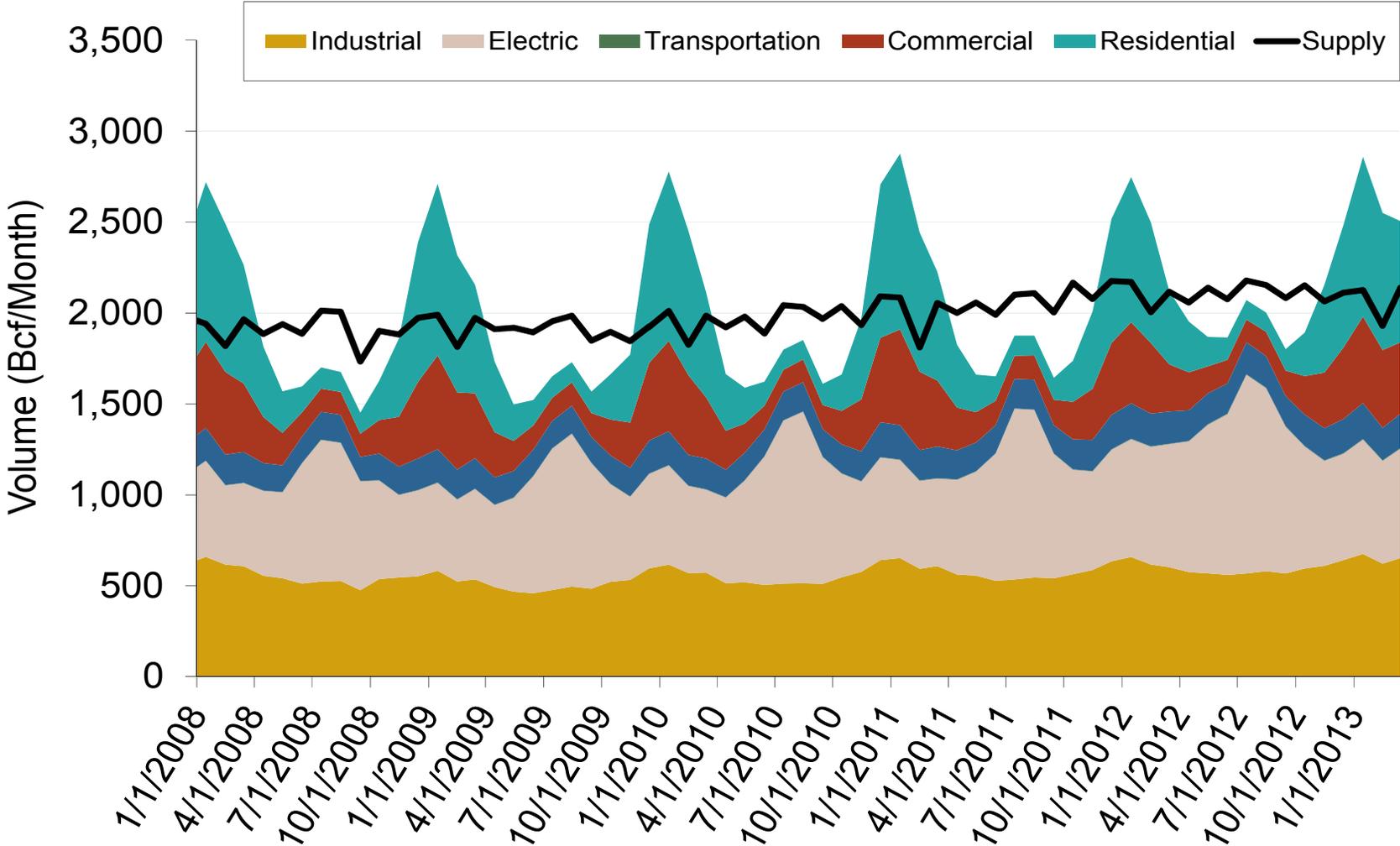
US Natural Gas Demand

Total Change in Demand 10.4%



Note: Balance includes all amounts not attributable to other categories.
Source: Derived from Bentek Energy data
June 2013 Southeast Snapshot Report

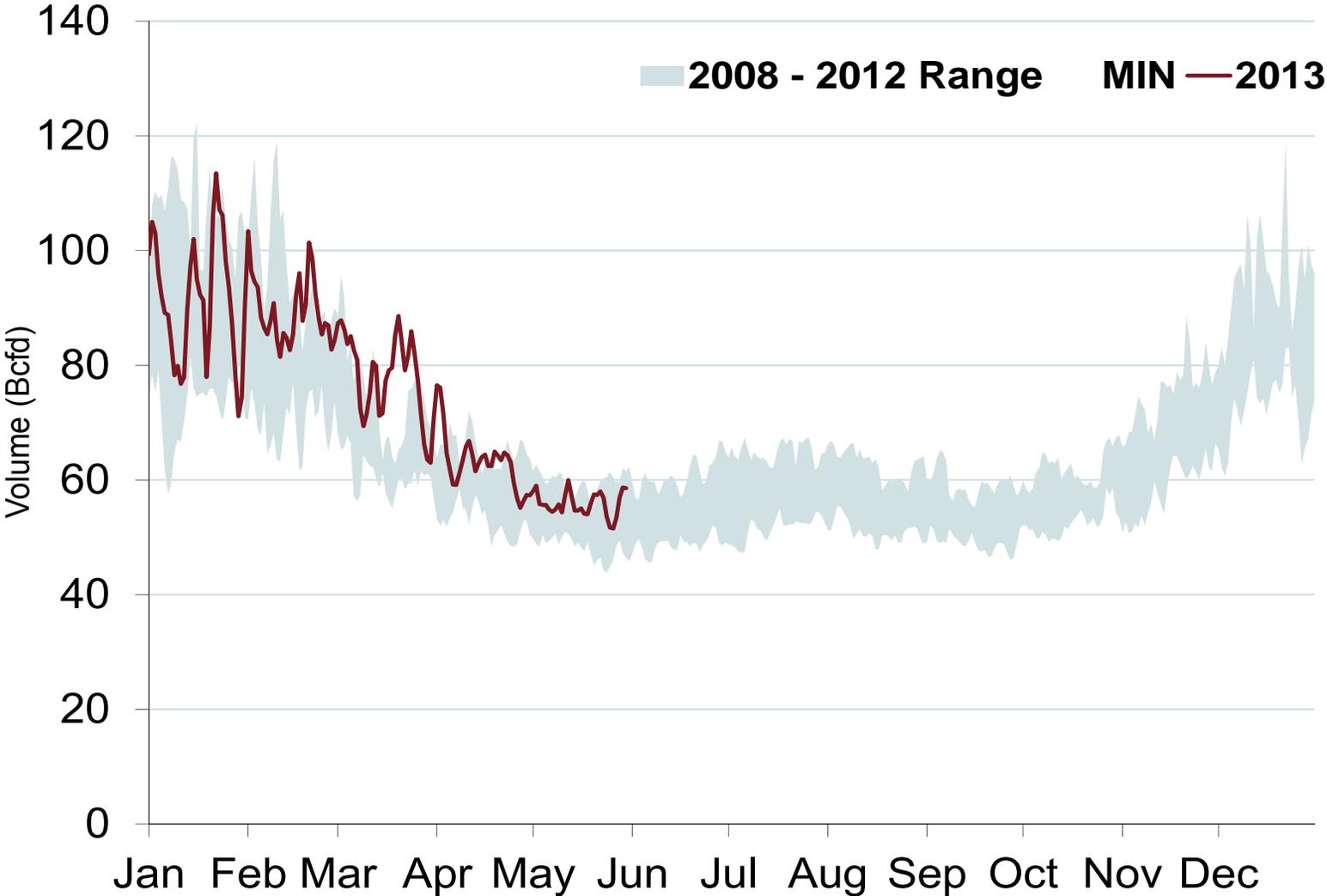
Annual U.S. Natural Gas Consumption by Sector



Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports
Source: Derived from EIA data
June 2013 Southeast Snapshot Report

Updated: June 07, 2013

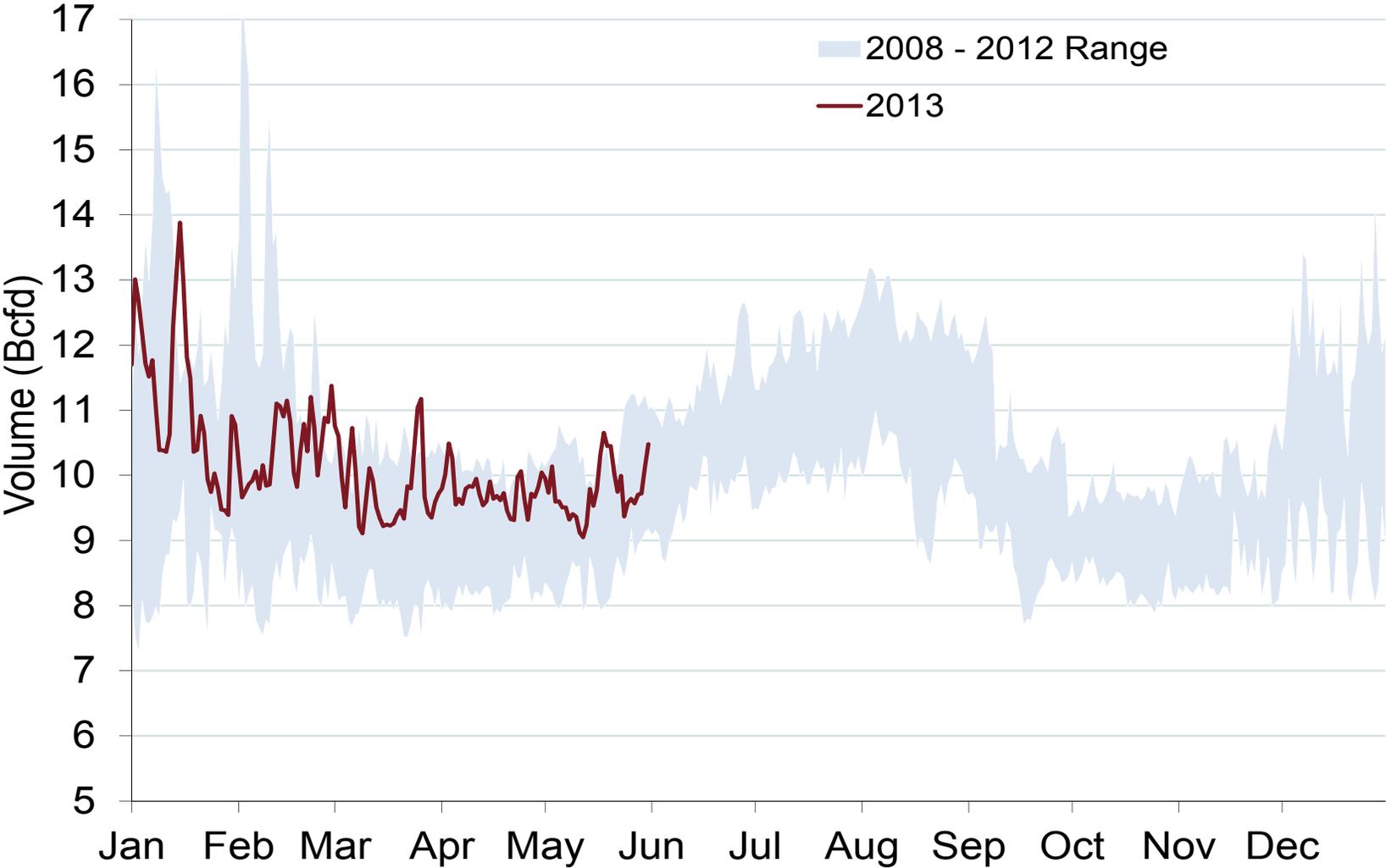
Total U.S. Natural Gas Demand All Sectors



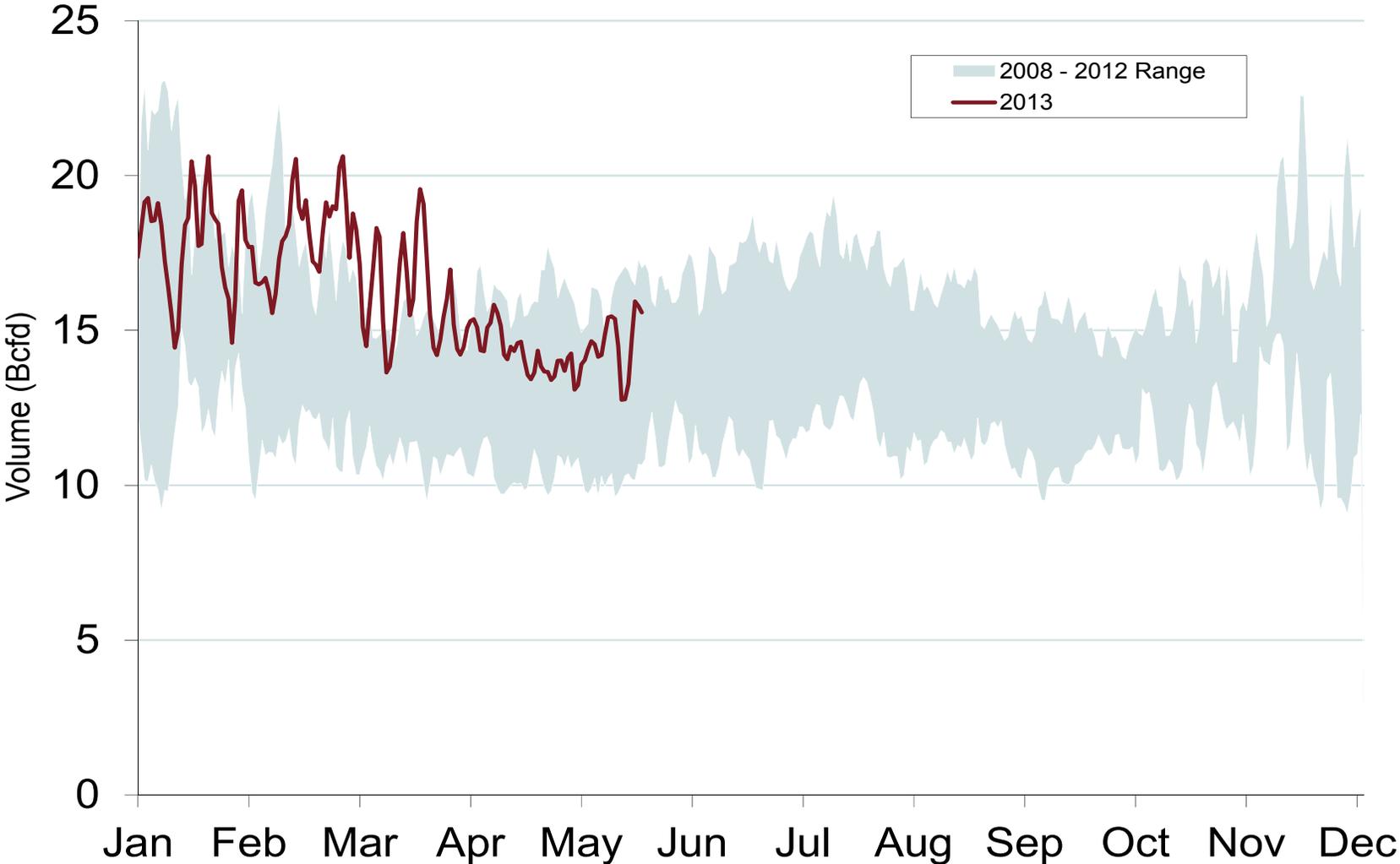
Source: Derived from *Bentek Energy* data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

Daily Gulf Natural Gas Demand All Sectors



Daily Southeast Natural Gas Demand All Sectors

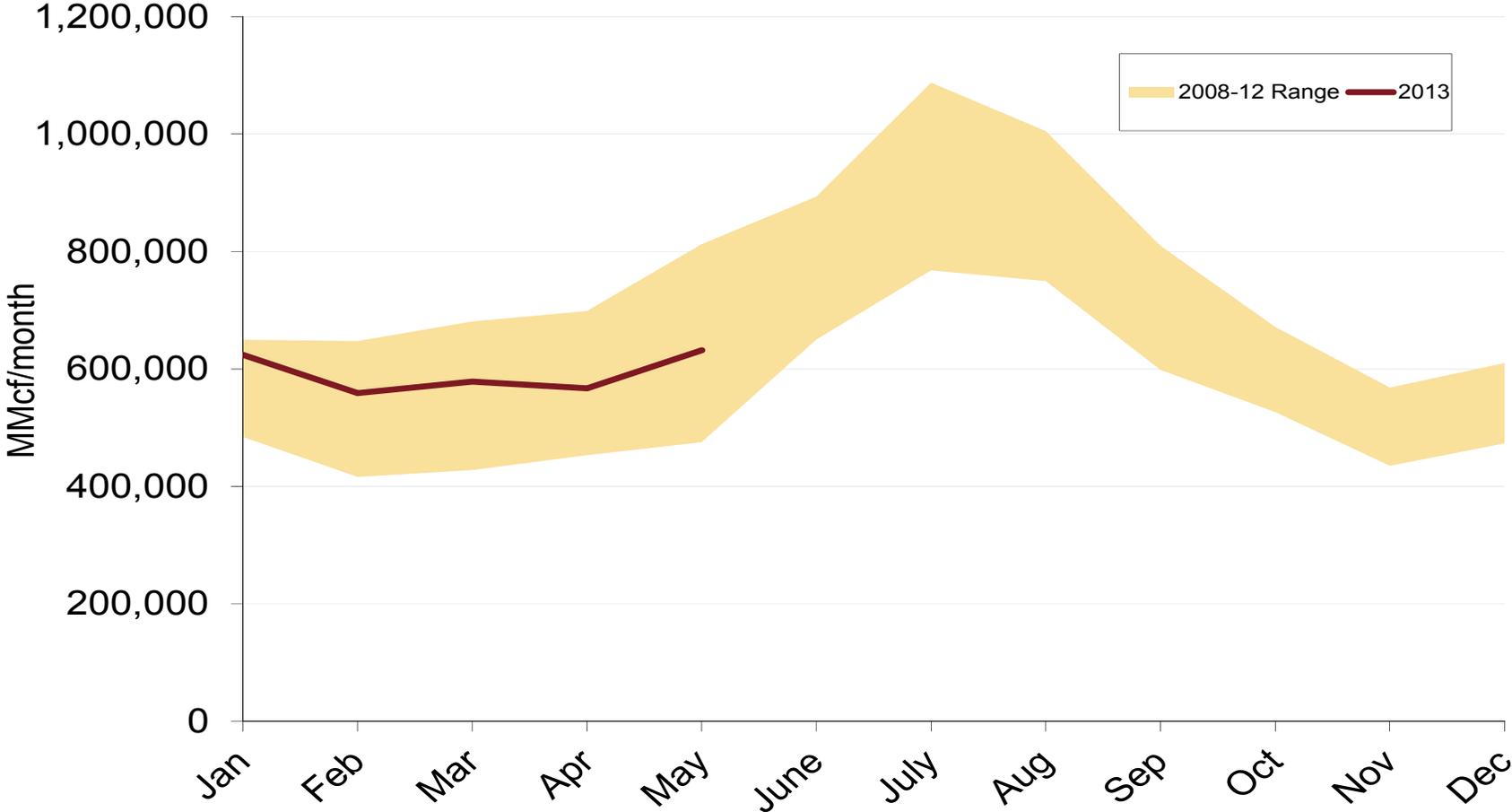


Source: Derived from *Bentek Energy* data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

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U.S. Natural Gas Consumption for Power Generation



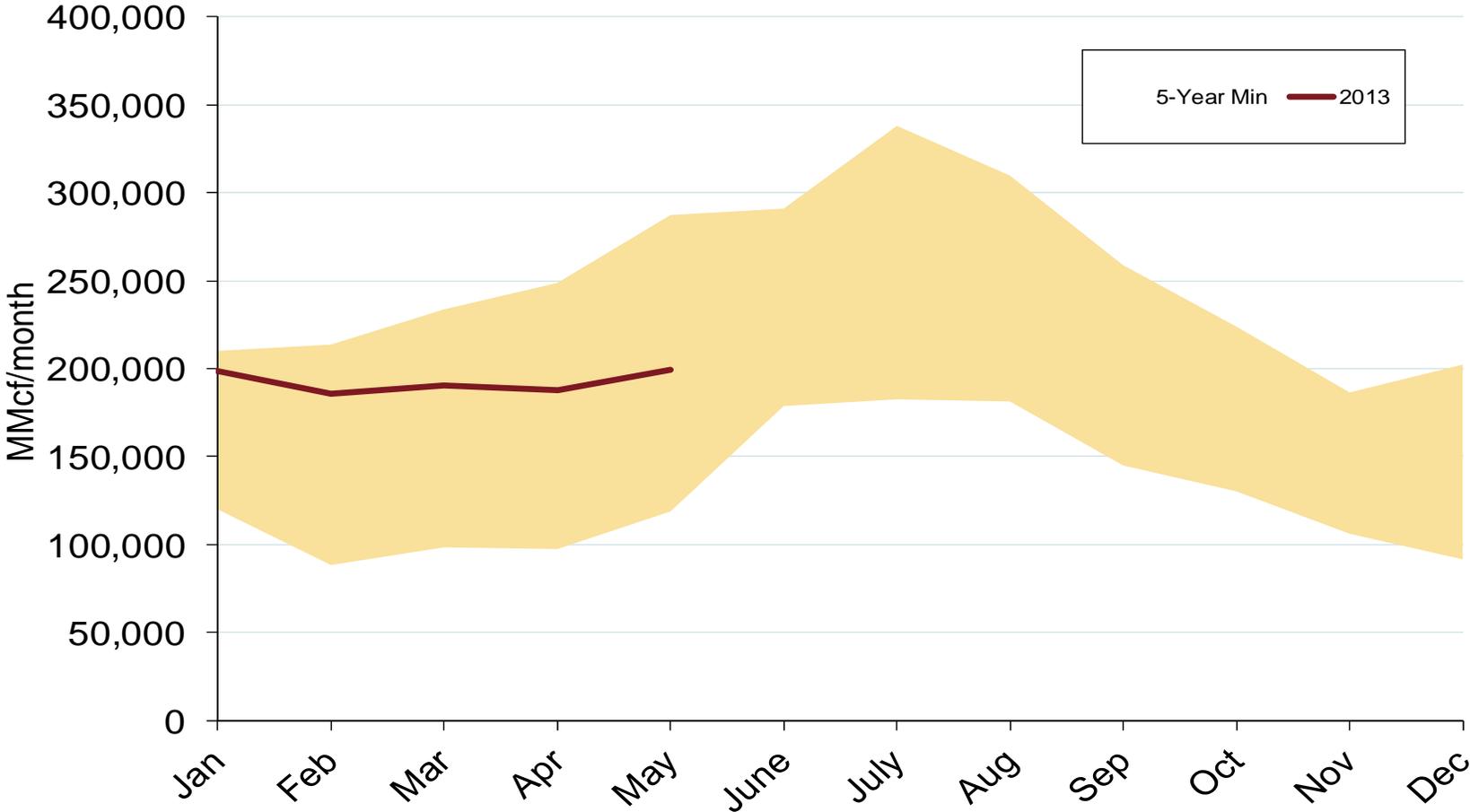
Source: Derived from *Bentek Energy* data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

Southeast Natural Gas Market: NG Consumption for Power Generation

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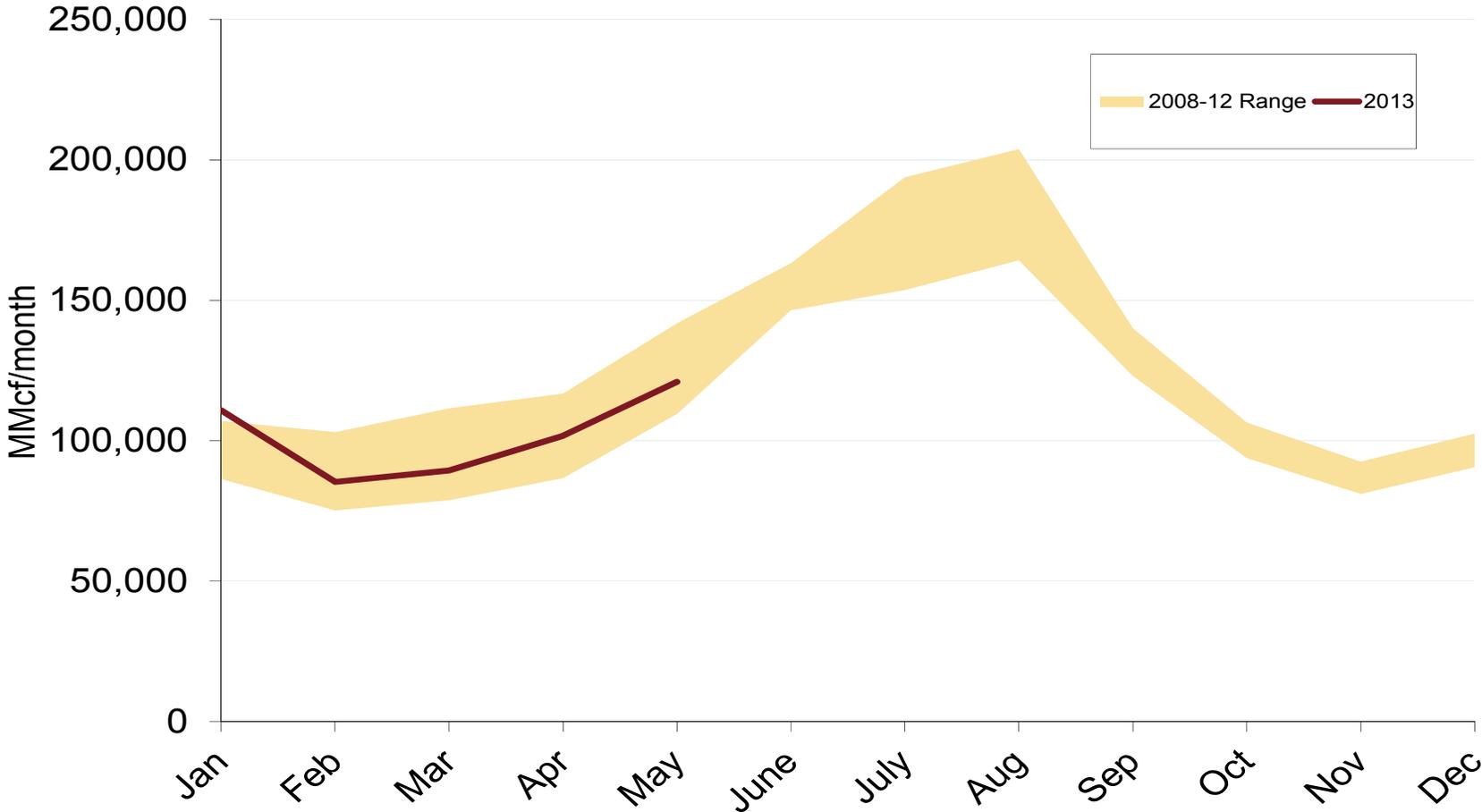
Southeast Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data
June 2013 Southeast Snapshot Report

Updated: June 8, 2013

Gulf Natural Gas Consumption for Power Generation

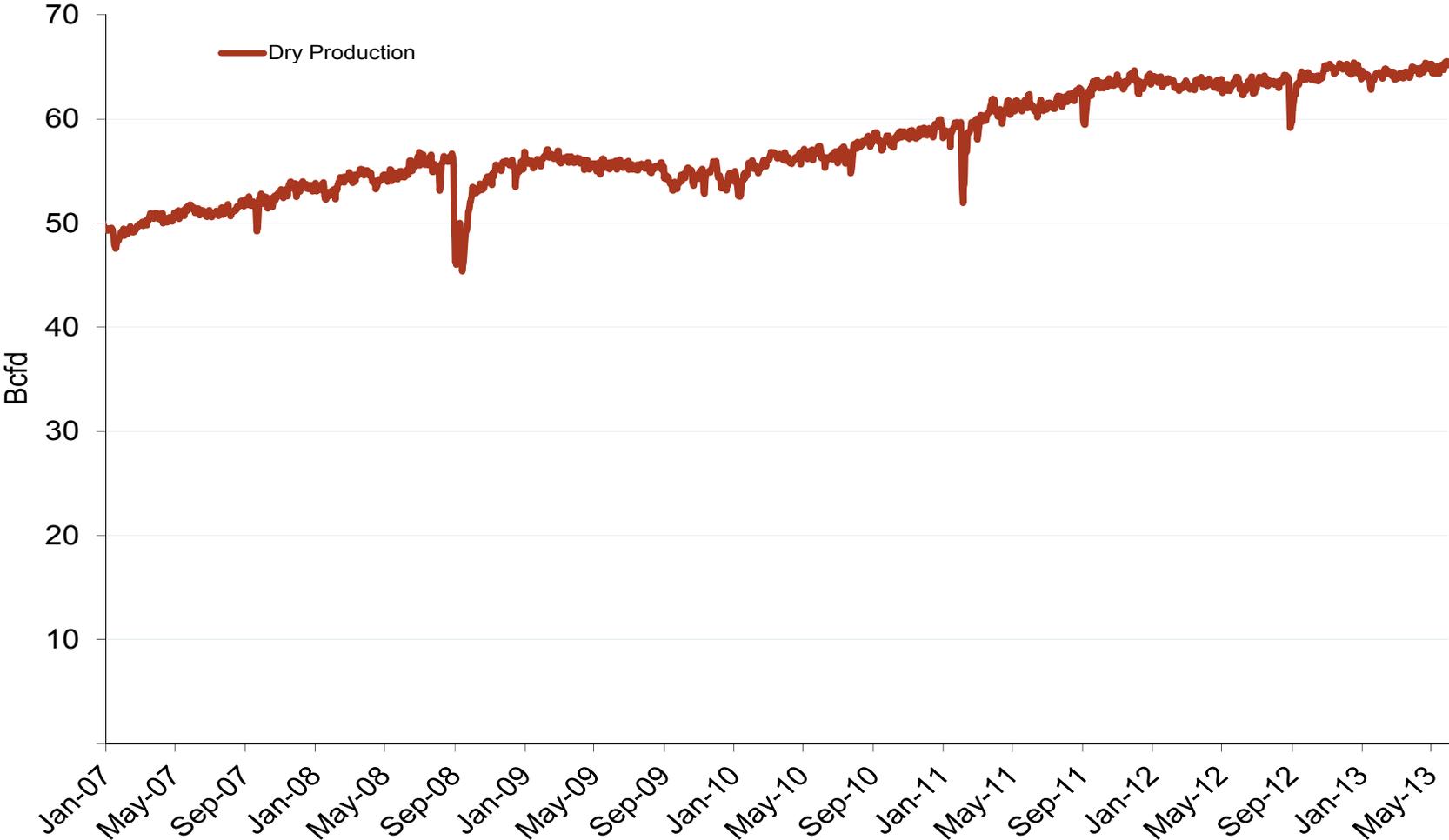


Source: Derived from *Bentek Energy* data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

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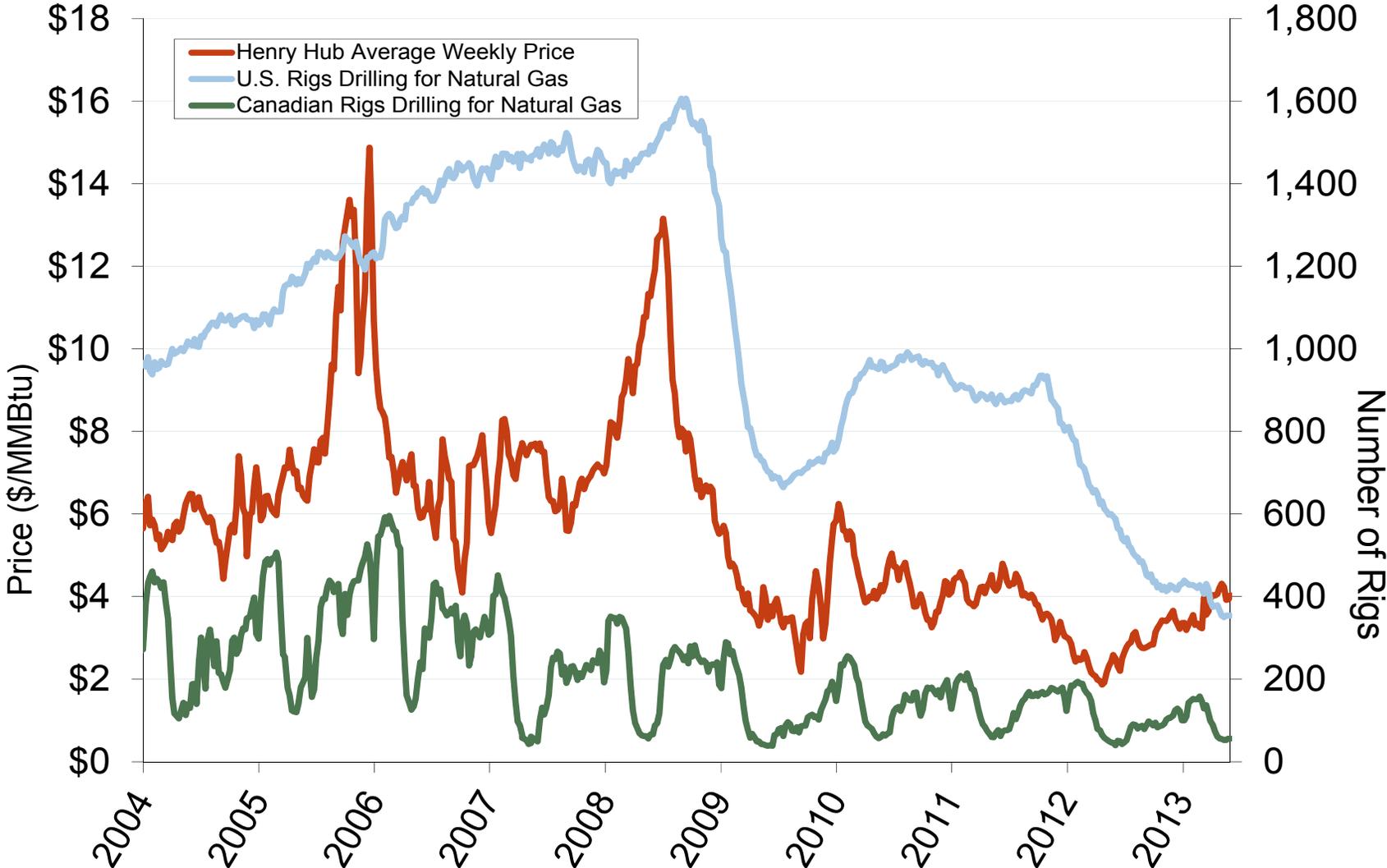
Monthly U.S. Dry Gas Production – Lower 48 States



Note: Prior to July 2010, chart was derived from a combination of EIA and Bentek Energy data
Source: Derived from Bentek Energy data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

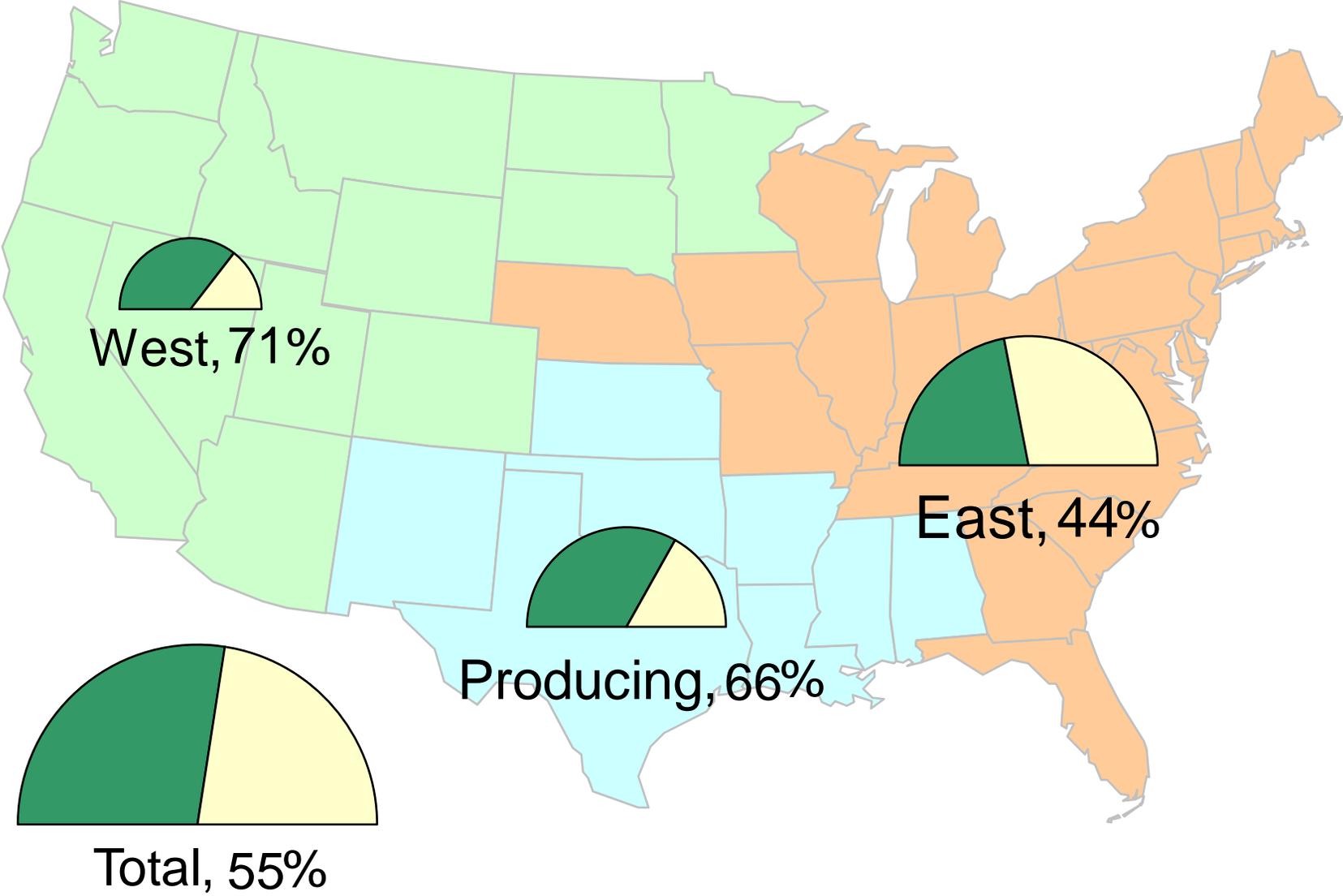
U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data
June 2013 Southeast Snapshot Report

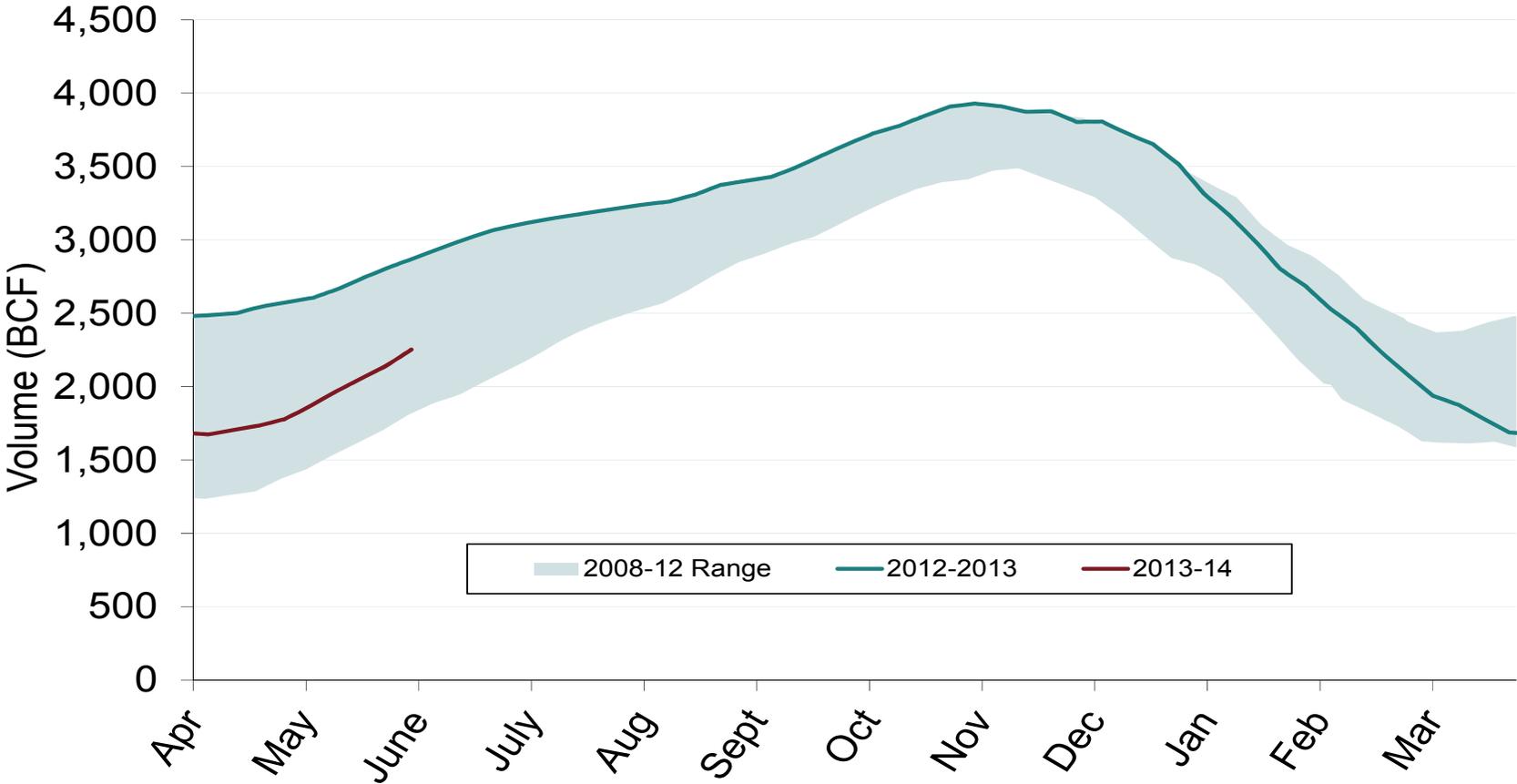
Updated: June 07, 2013

Natural Gas Storage Inventories – May 31, 2013



Source: Derived from EIA Storage and Estimated Working Gas Capacity data
June 2013 Southeast Snapshot Report

Total U.S. Working Gas in Storage

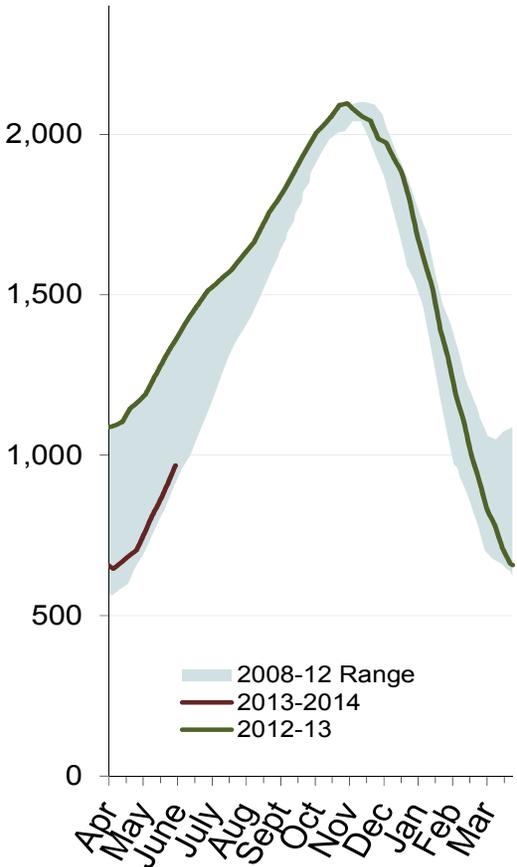


Source: Derived from EIA data
June 2013 Southeast Snapshot Report

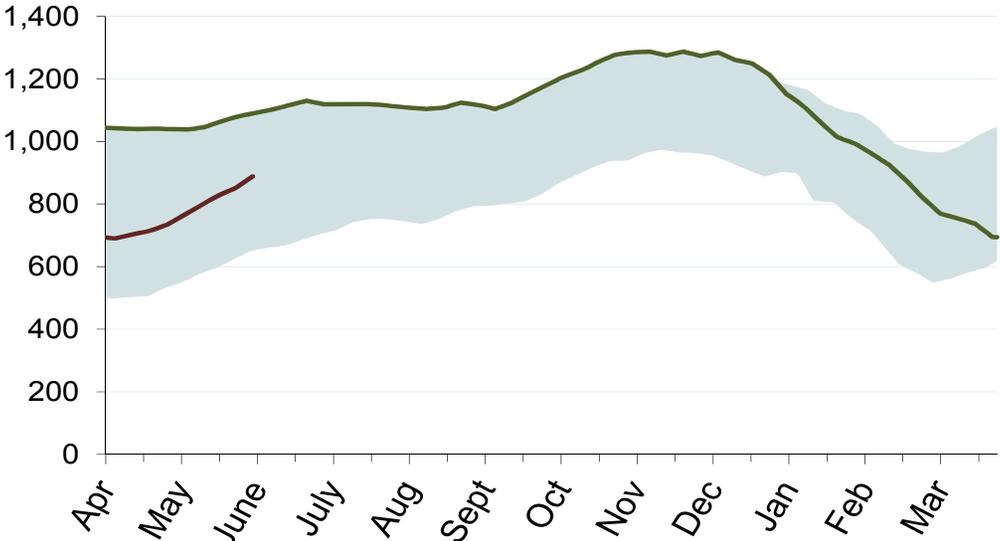
Updated: June 07, 2013

Regional Totals of Working Gas in Storage

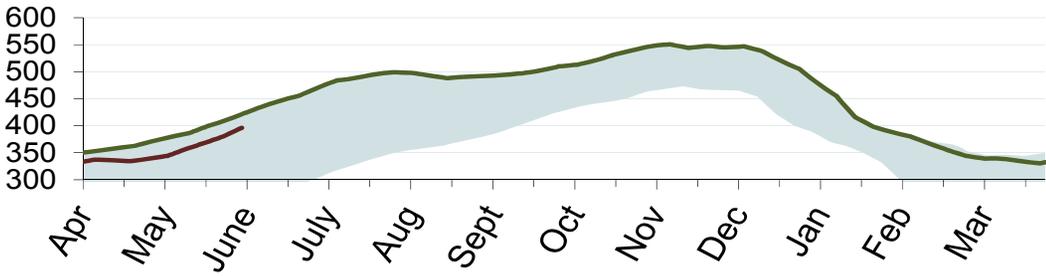
Eastern Consuming Region



Producing Region



Western Consuming Region



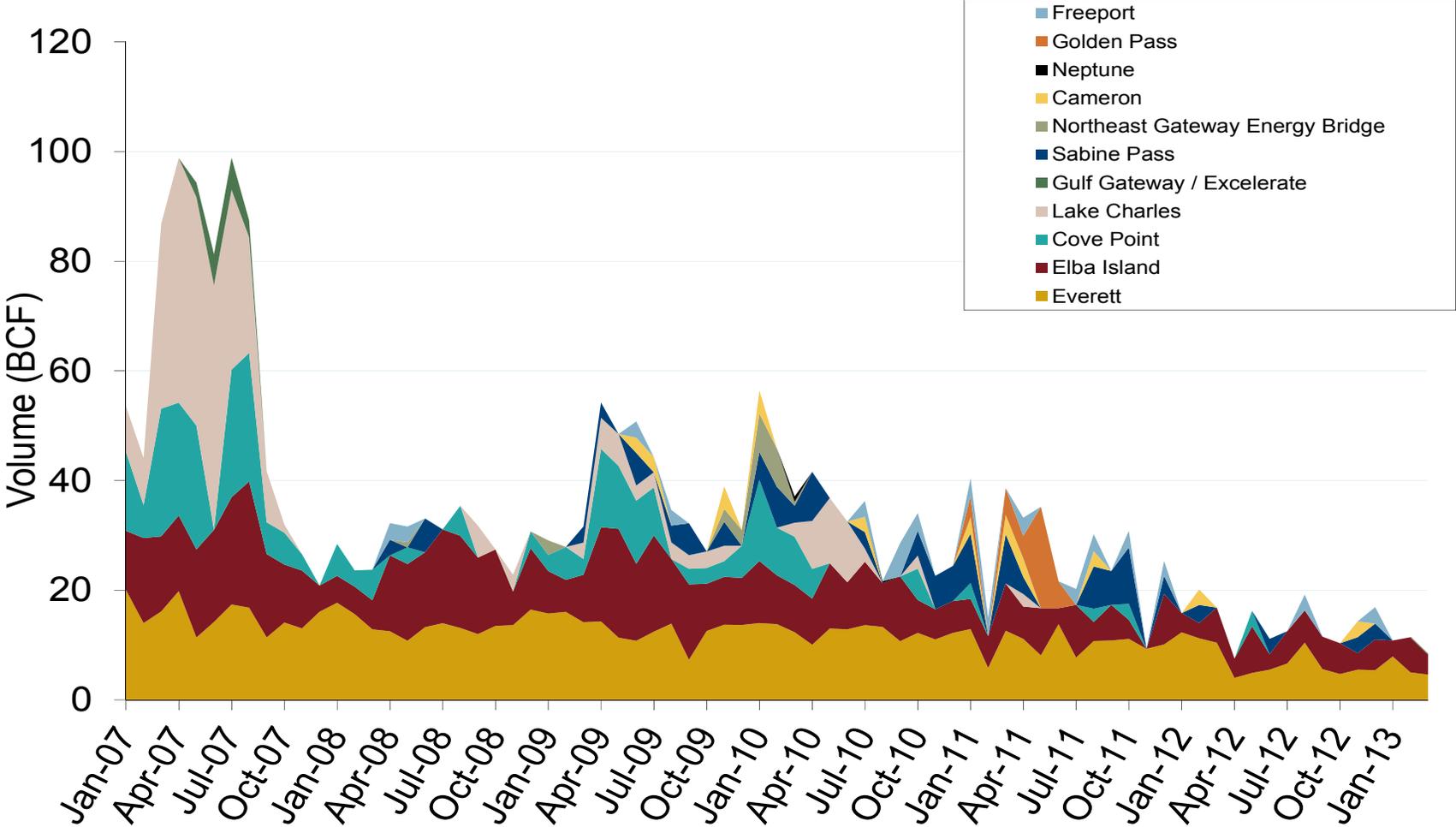
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World LNG Estimated July 2013 Landed Prices



Source: Waterborne Energy, Inc. Data in \$US/MMBtu
June 2013 Southeast Snapshot Report

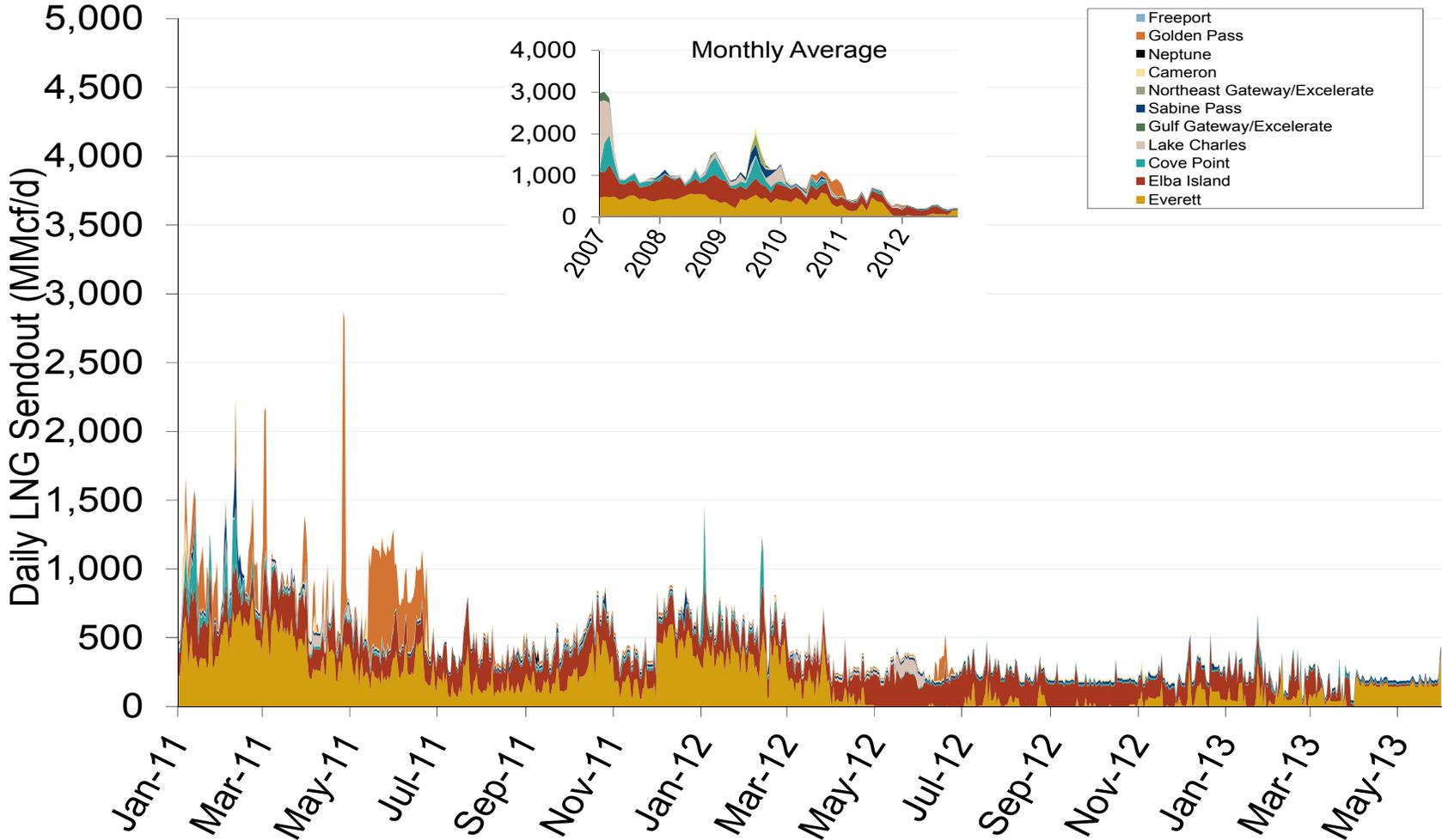
Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data
June 2013 Southeast Snapshot Report

Updated: June 11, 2013

Daily Gas Sendout from Existing U.S. LNG Facilities



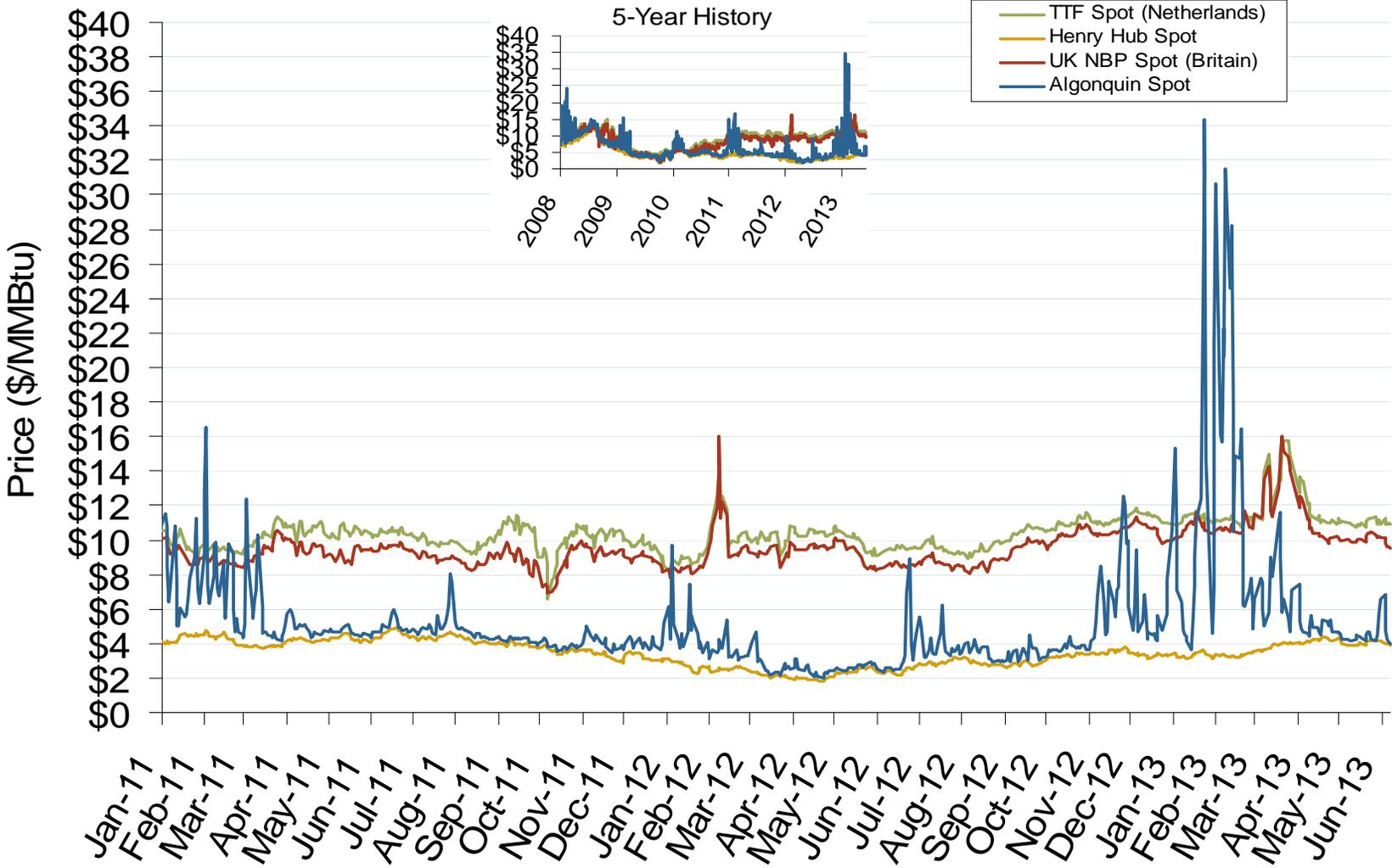
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes flows to the Freeport LNG which flows via intrastate pipelines and flows to the Mystic 8 and 9 power plants.

Source: Derived from *Bentek Energy* data

June 2013 Southeast Snapshot Report

Updated: June 05, 2013

Atlantic Basin European and US Spot Natural Gas Prices

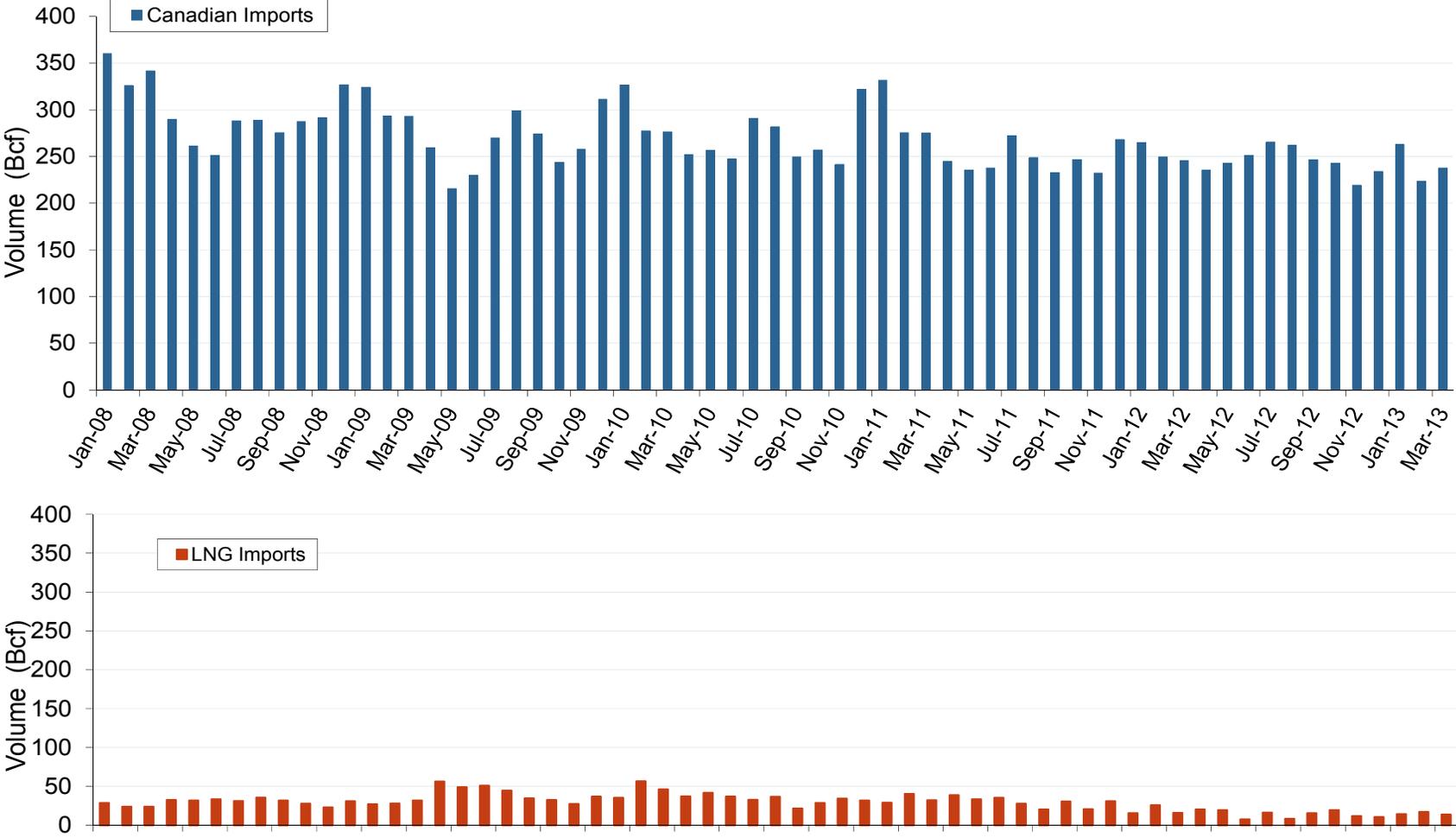


Source: Derived from *Bloomberg* and *ICE* data
June 2013 Southeast Snapshot Report

Updated: June 7, 2013

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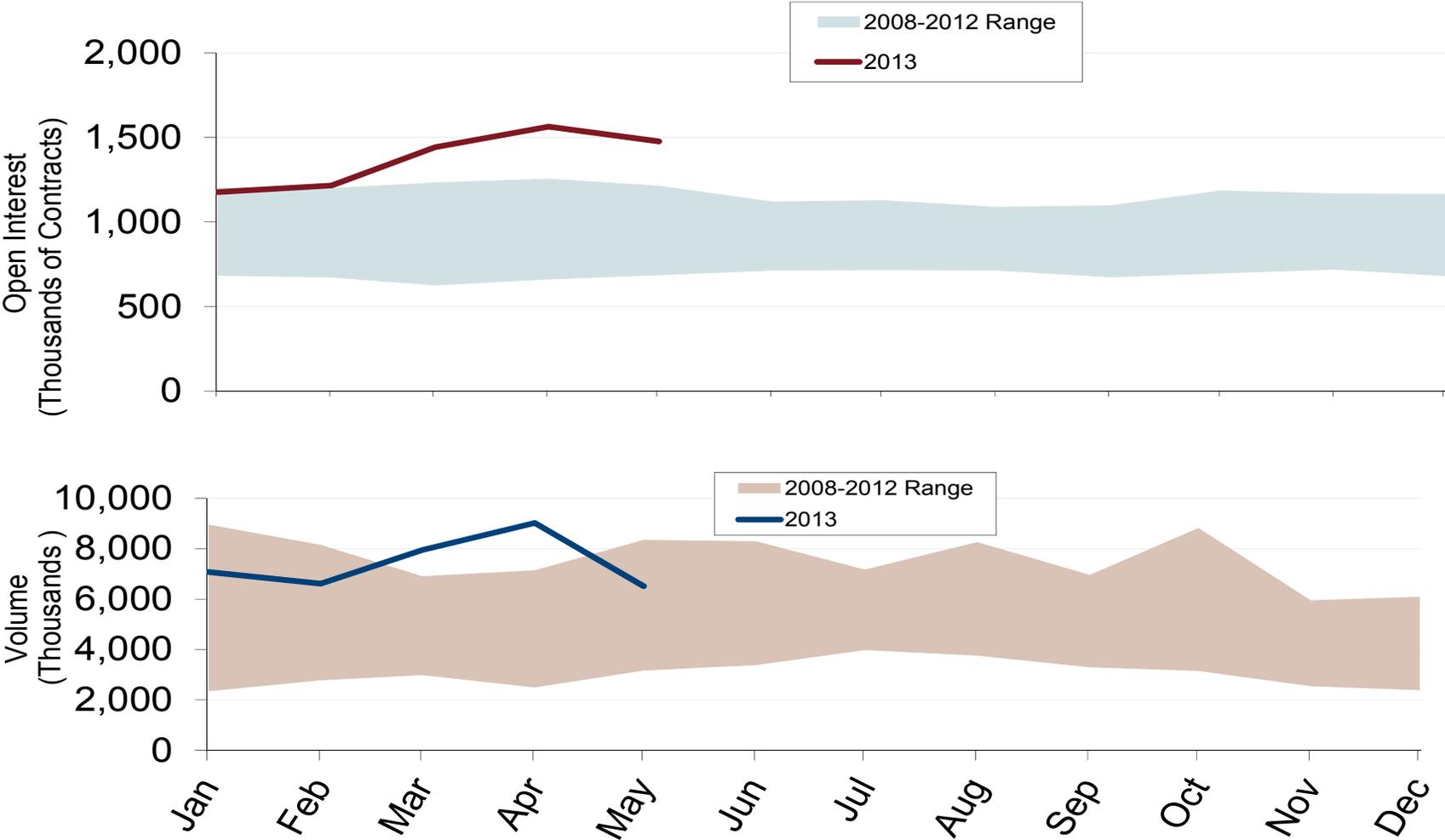
Canadian and LNG Natural Gas Imports Into the U.S.



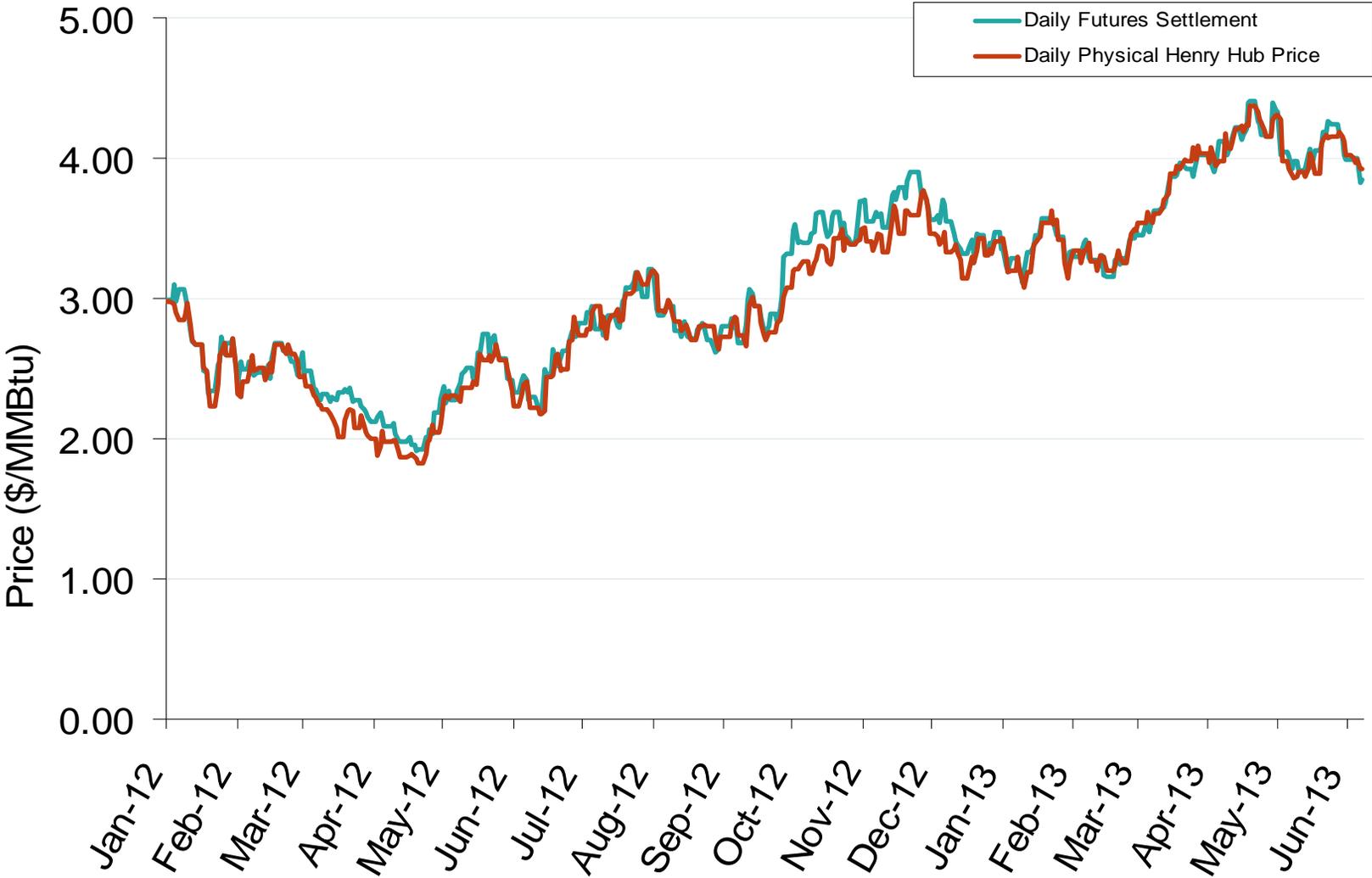
Source: EIA Natural Gas Monthly
June 2013 Southeast Snapshot Report

Updated: June 07, 2013

Nymex NG Futures Month-End Open Interest and Monthly Volume



Daily Physical Index Price & Daily Futures Settlement Price

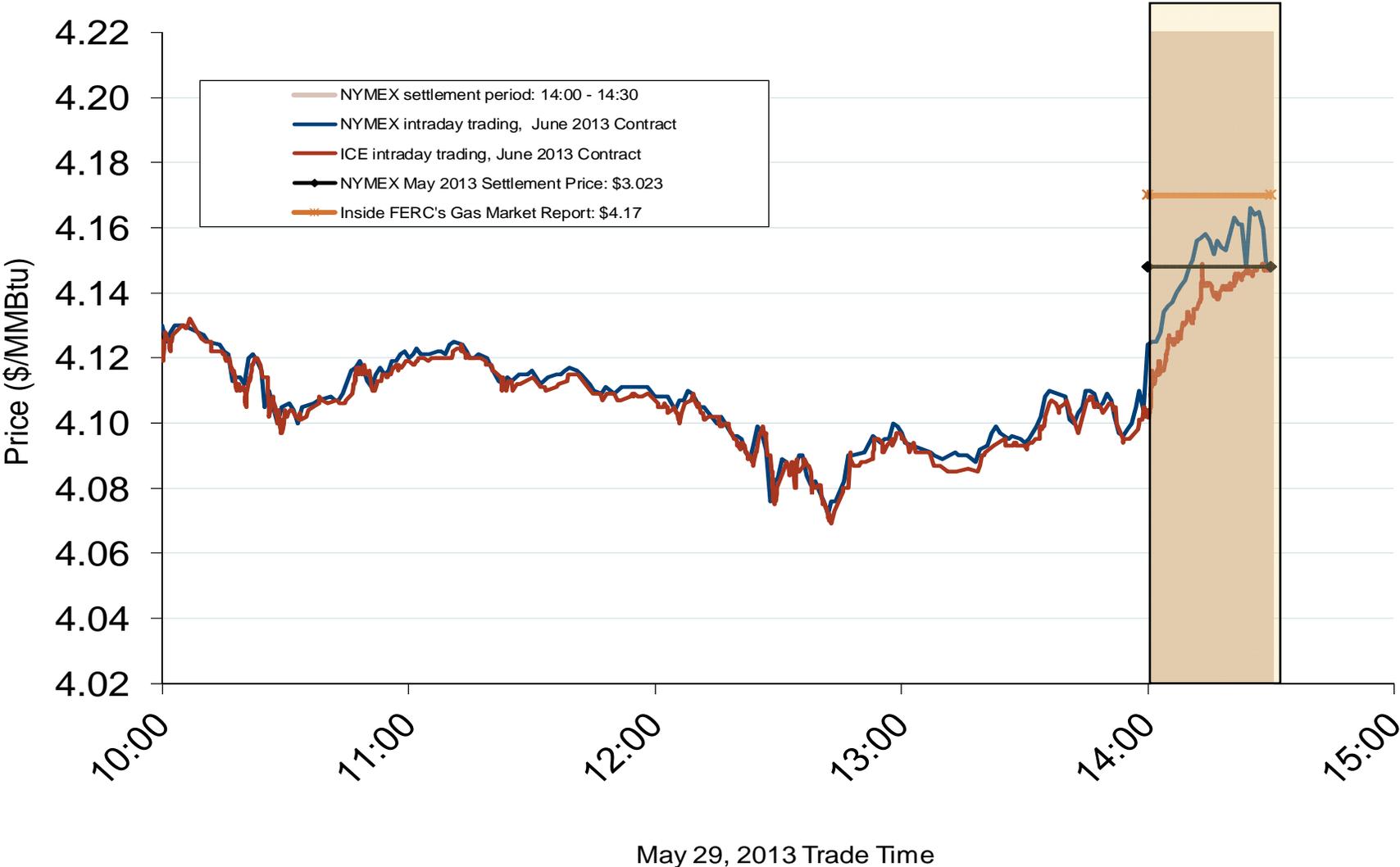


Source: Derived from *Bloomberg* data
June 2013 Southeast Snapshot Report

Updated: June 7, 2013

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Nymex and ICE Contract Final Settlement - June 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

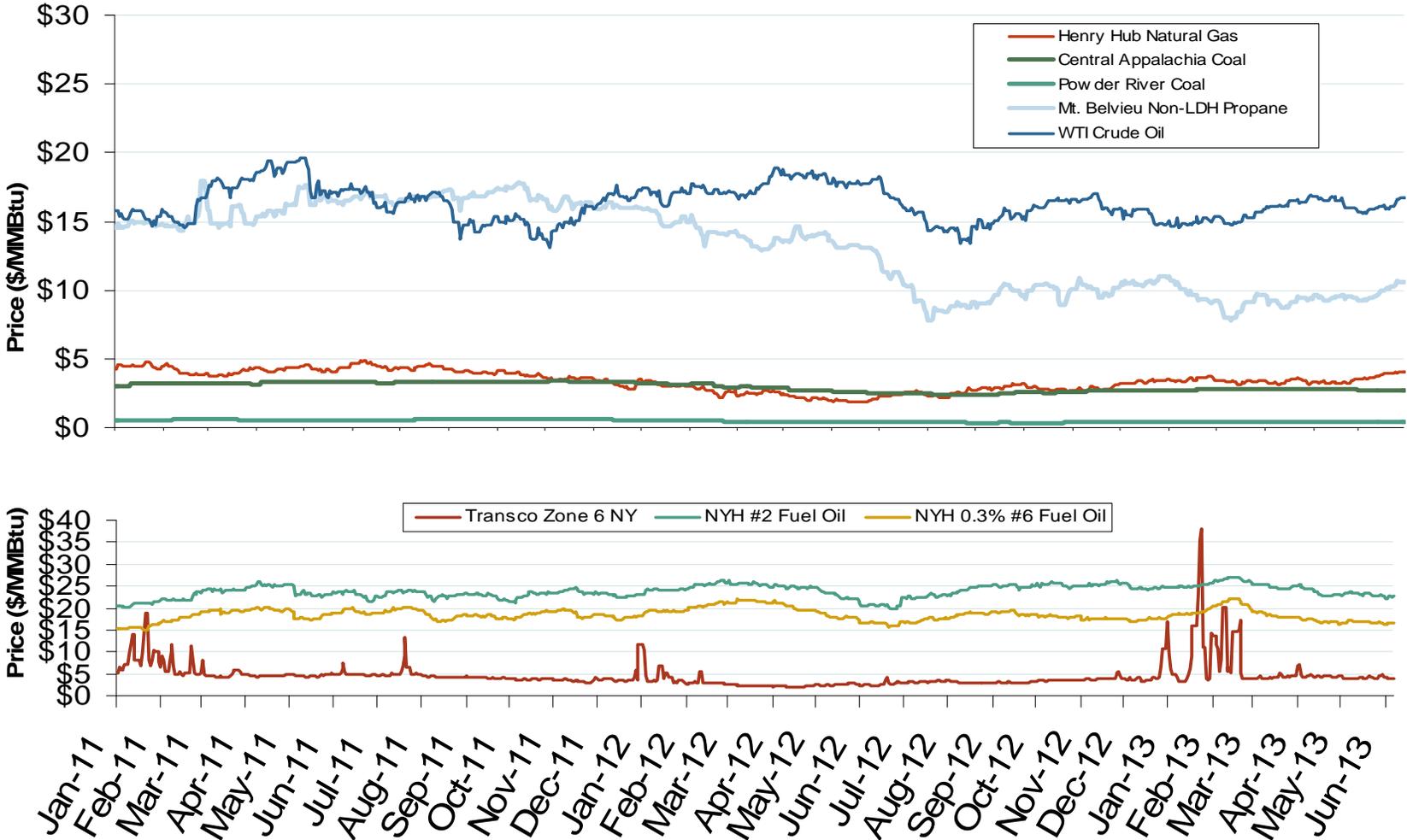
June 2013 Southeast Snapshot Report

Updated: June 8, 2013

Other Fuels Market: Fossil Fuel Prices

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Oil, Coal, Natural Gas and Propane Daily Spot Prices



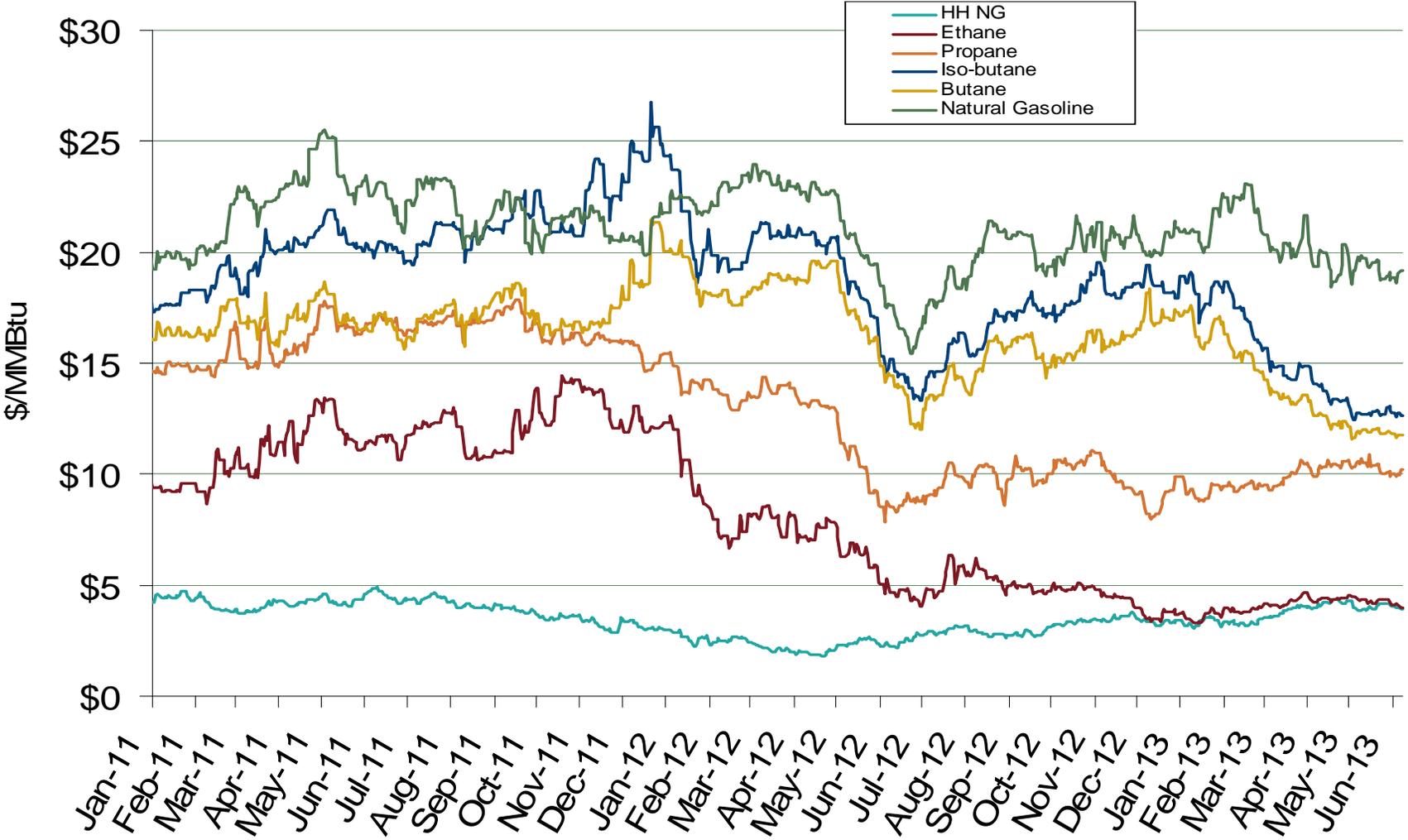
Notes: Coal prices are quoted in \$/ton. Conversion factors to \$/MMBtu are based on contract specifications of 12,000 btus/pound for Central Appalachian coal and 8800 btus/pound for Powder River Basin coal

Source: Derived from ICE and Bloomberg data
June 2013 Southeast Snapshot Report

Updated: June 7, 2013

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



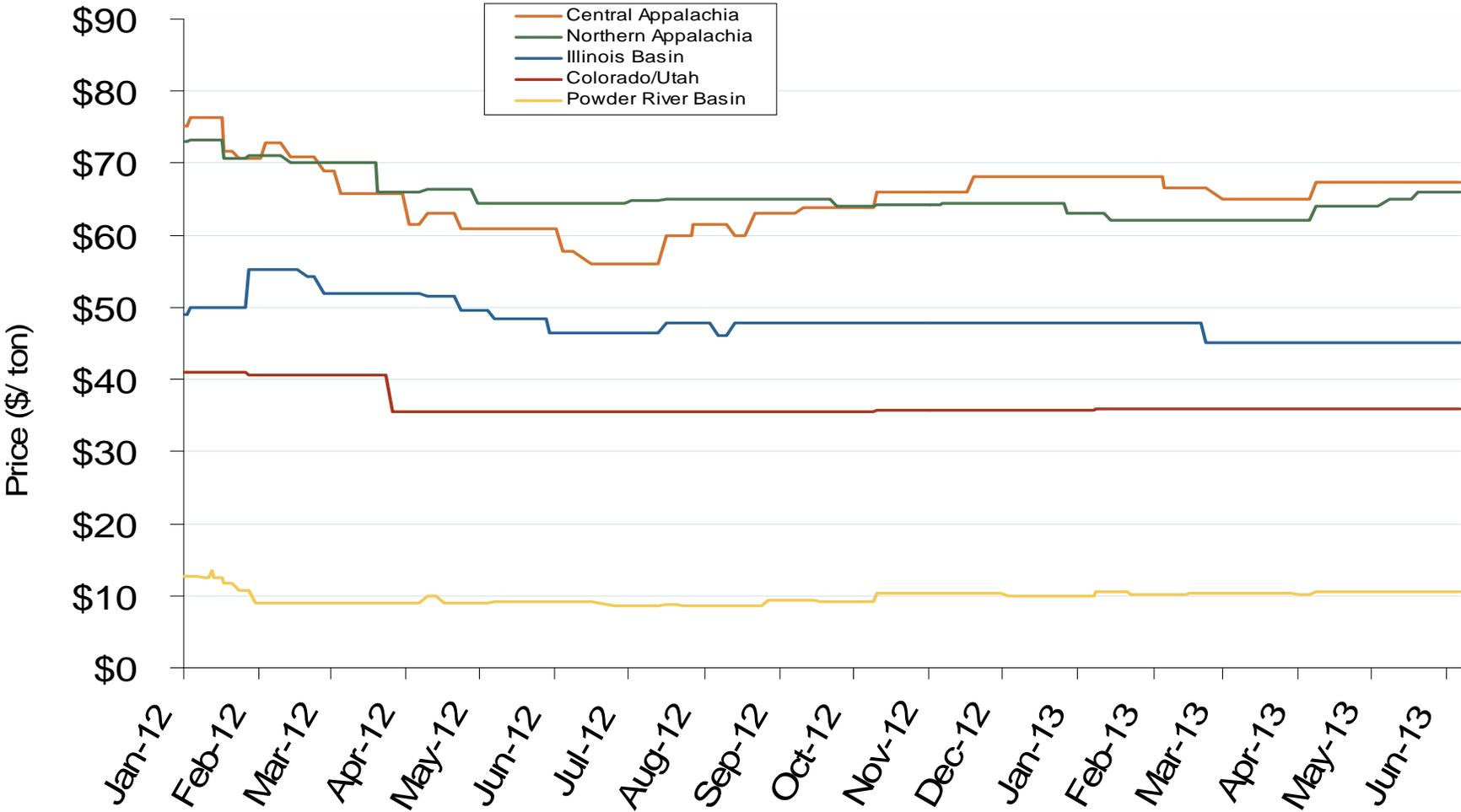
Source: Derived from Bloomberg Data
June 2013 Southeast Snapshot Report

Updated: June 7, 2013

National Electric Market Overview: Coal Prices

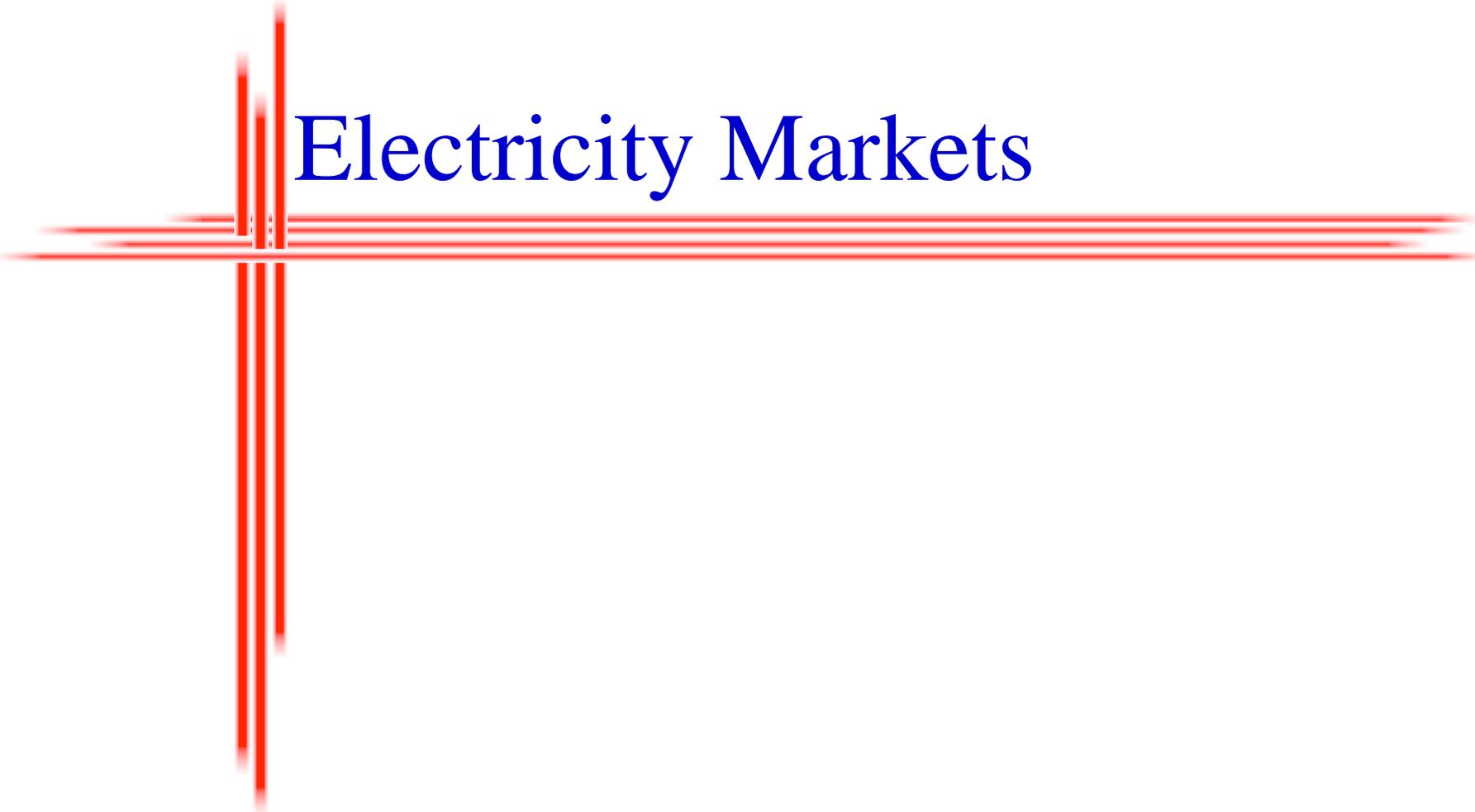
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Central Appalachian and Powder River Basin Coal Prices



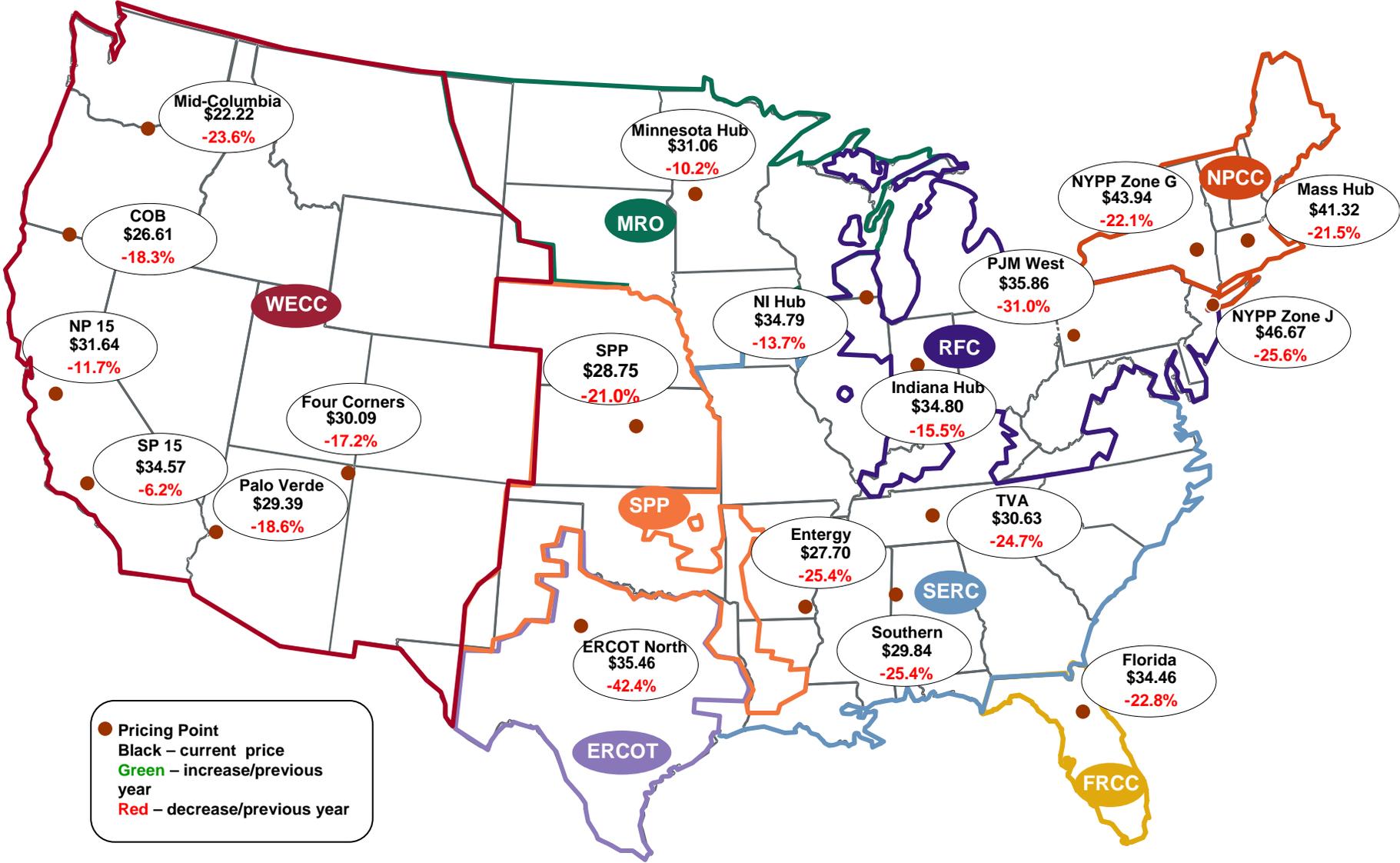
Notes: The Central Appalachian (CAPP) coal is priced at Big Sandy. All others are mine mouth prices. Prices do not include transportation costs to a plant, as those can vary widely by contract specifications. Prices exclude incremental cost of emissions allowances

Source: Derived from Bloomberg data



Electricity Markets

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



Source: Derived from *Platts* data.
June 2013 Southeast Snapshot Report

Updated: January 6, 2013

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.

June 2013 Southeast Snapshot Report

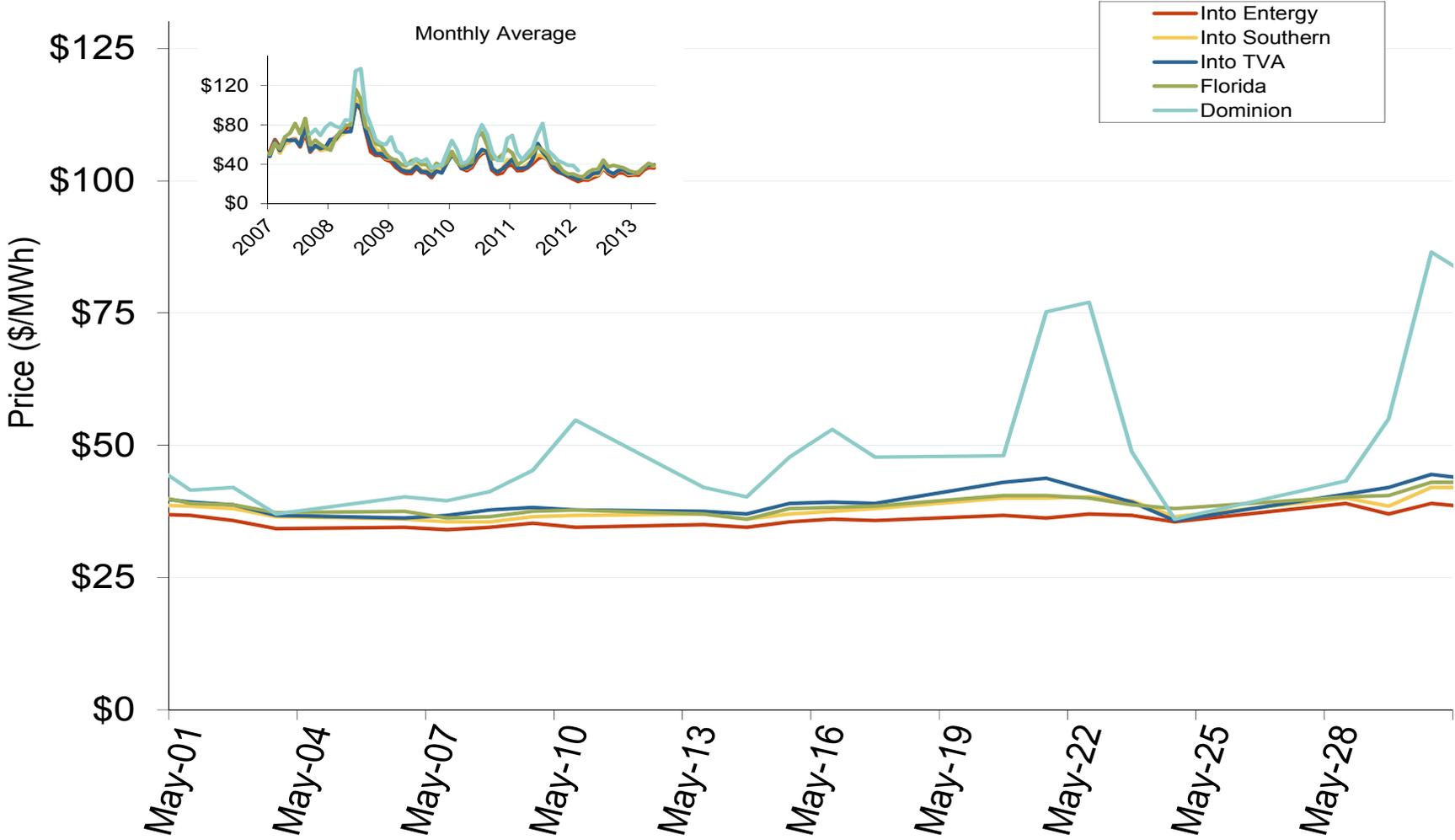
Southeast Annual Average Bilateral Prices

Annual Average Day Ahead On Peak Prices (\$/MWh)						
	2008	2009	2010	2011	2012	5-Year Avg
VACAR	\$70.86	\$36.42	\$43.24	\$44.44	\$32.65	\$45.55
Southern	\$70.13	\$36.58	\$42.61	\$39.97	\$29.83	\$43.86
TVA	\$69.01	\$34.91	\$41.79	\$40.68	\$30.63	\$43.44
Florida	\$74.66	\$40.75	\$50.81	\$44.62	\$34.39	\$49.08
Entergy	\$68.49	\$33.57	\$40.07	\$37.14	\$27.75	\$41.44

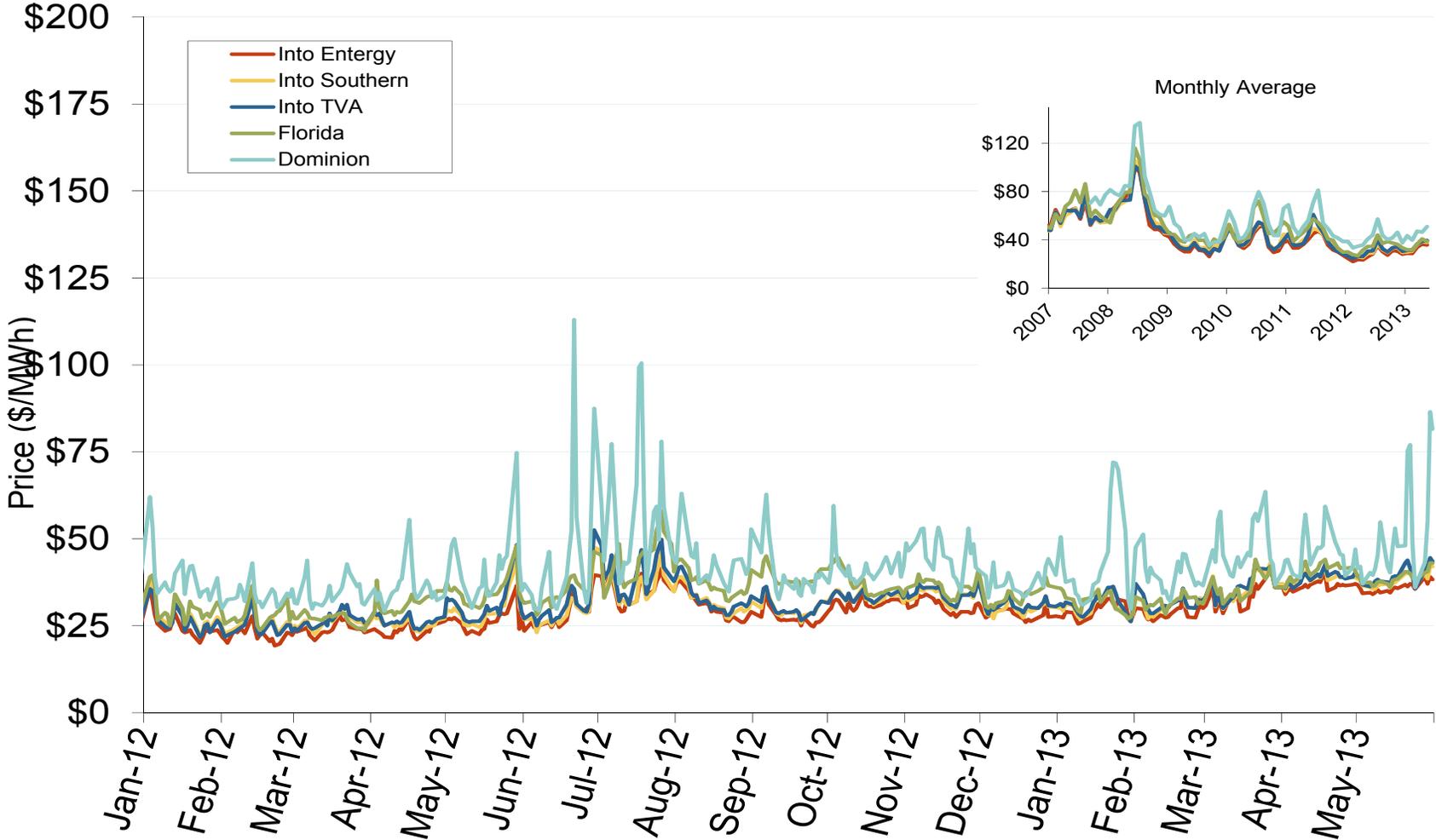
Southeast Electric Market: Last Month's Southeastern Index Prices

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Southeastern Daily Index Day-Ahead On-Peak Prices



Southeastern Daily Index Day-Ahead On-Peak Prices



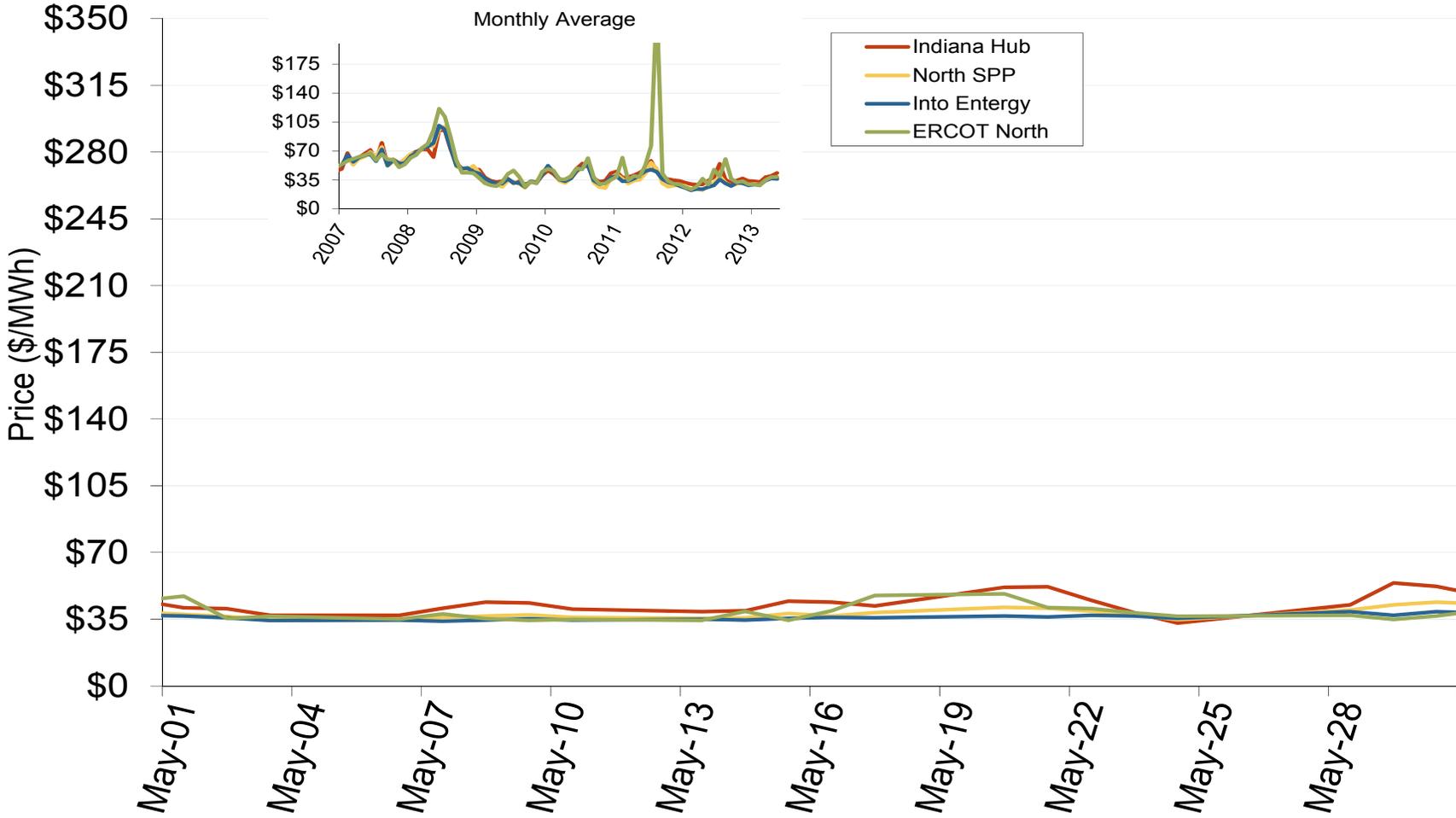
Source: Derived from Platts data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

Southeast Electric Market: Last Month's Midwestern Index Prices

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Midwestern Daily Index Day-Ahead On-Peak Prices



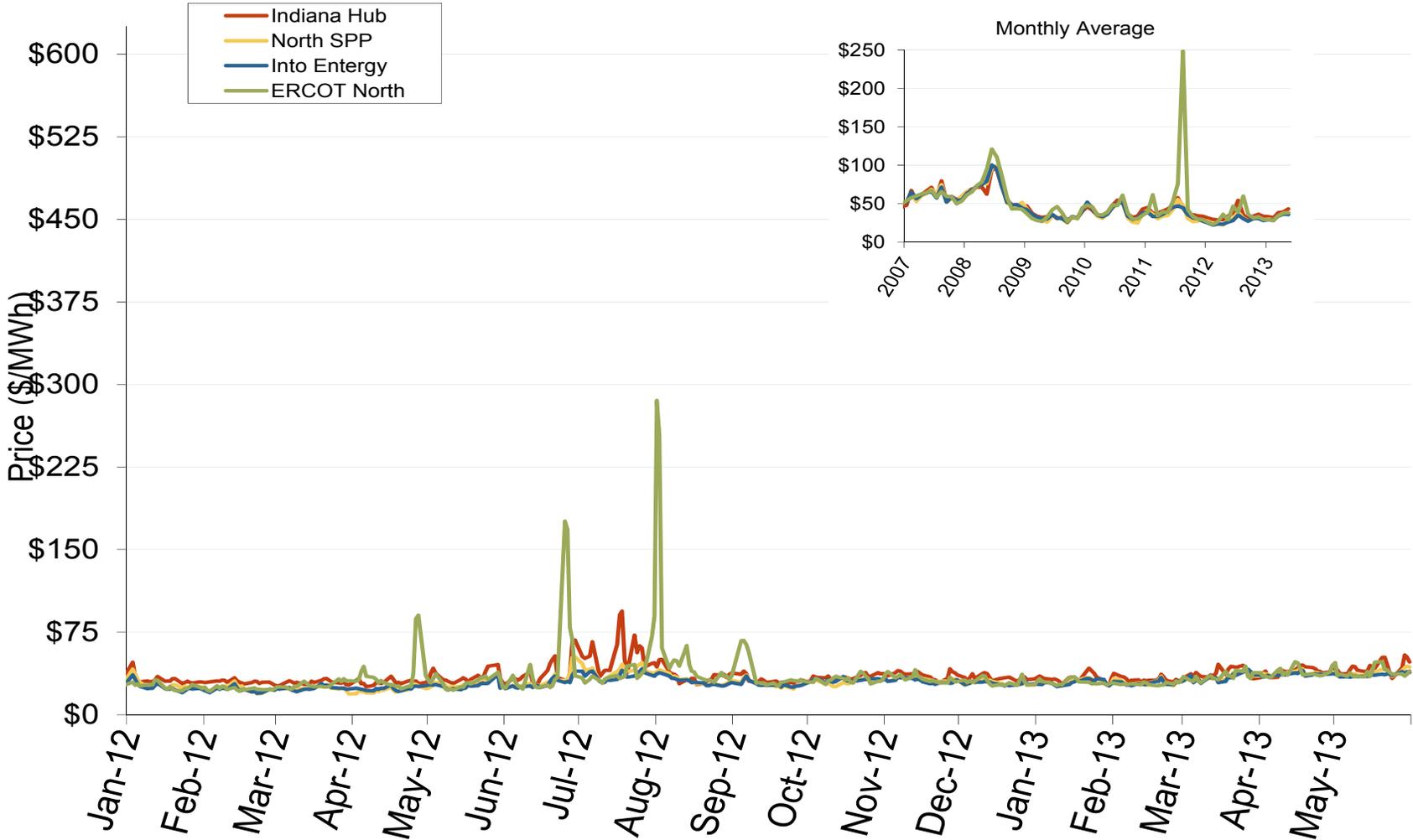
Source: Derived from Platts data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

Southeast Electric Market: Midwestern Index Prices

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Midwestern Daily Index Day-Ahead On-Peak Prices



Source: Derived from Platts data
June 2013 Southeast Snapshot Report

Updated: June 05, 2013

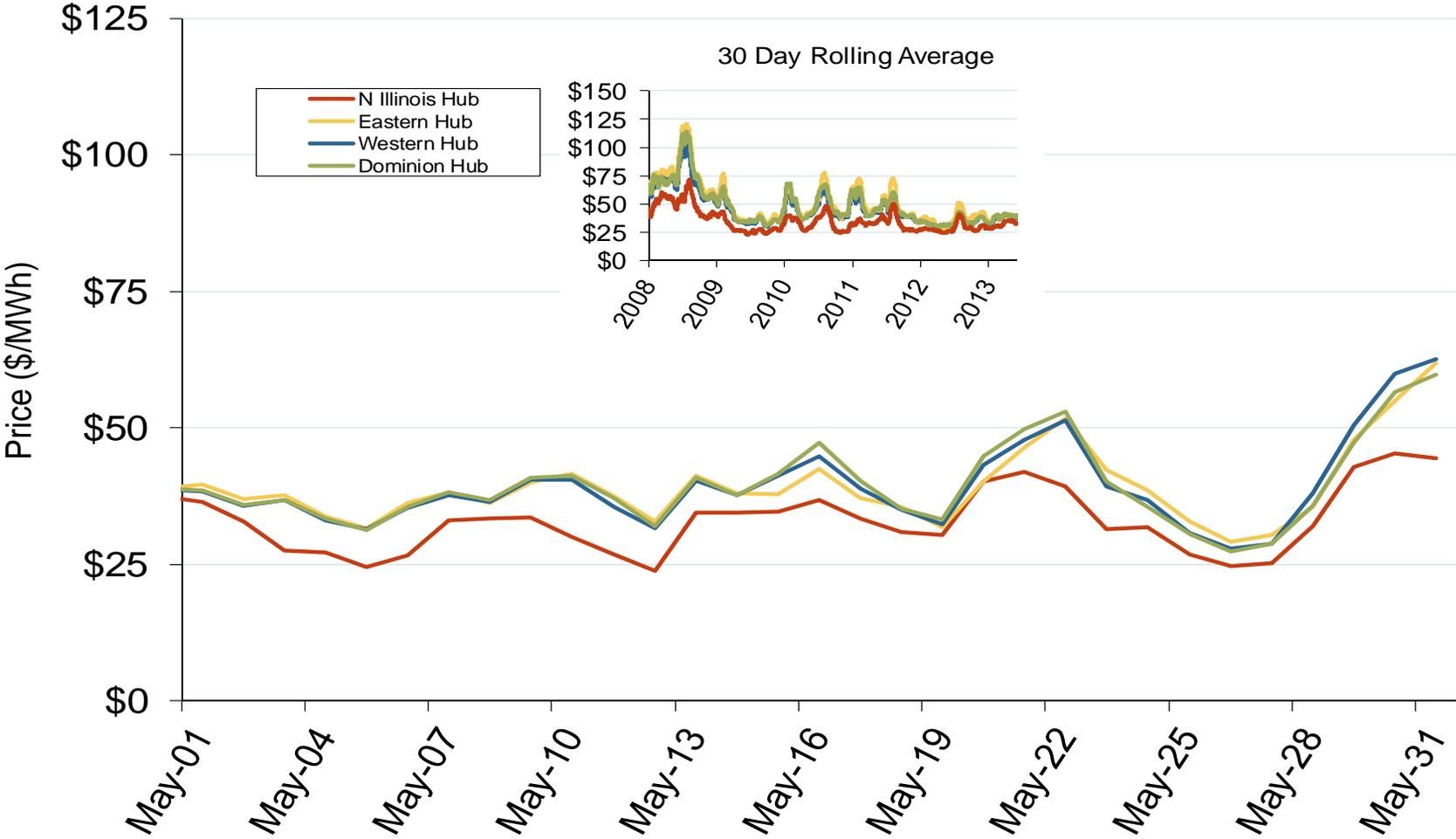
PJM Annual Average Bilateral Prices

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

PJM Electric Market: Last Month's RTO Prices

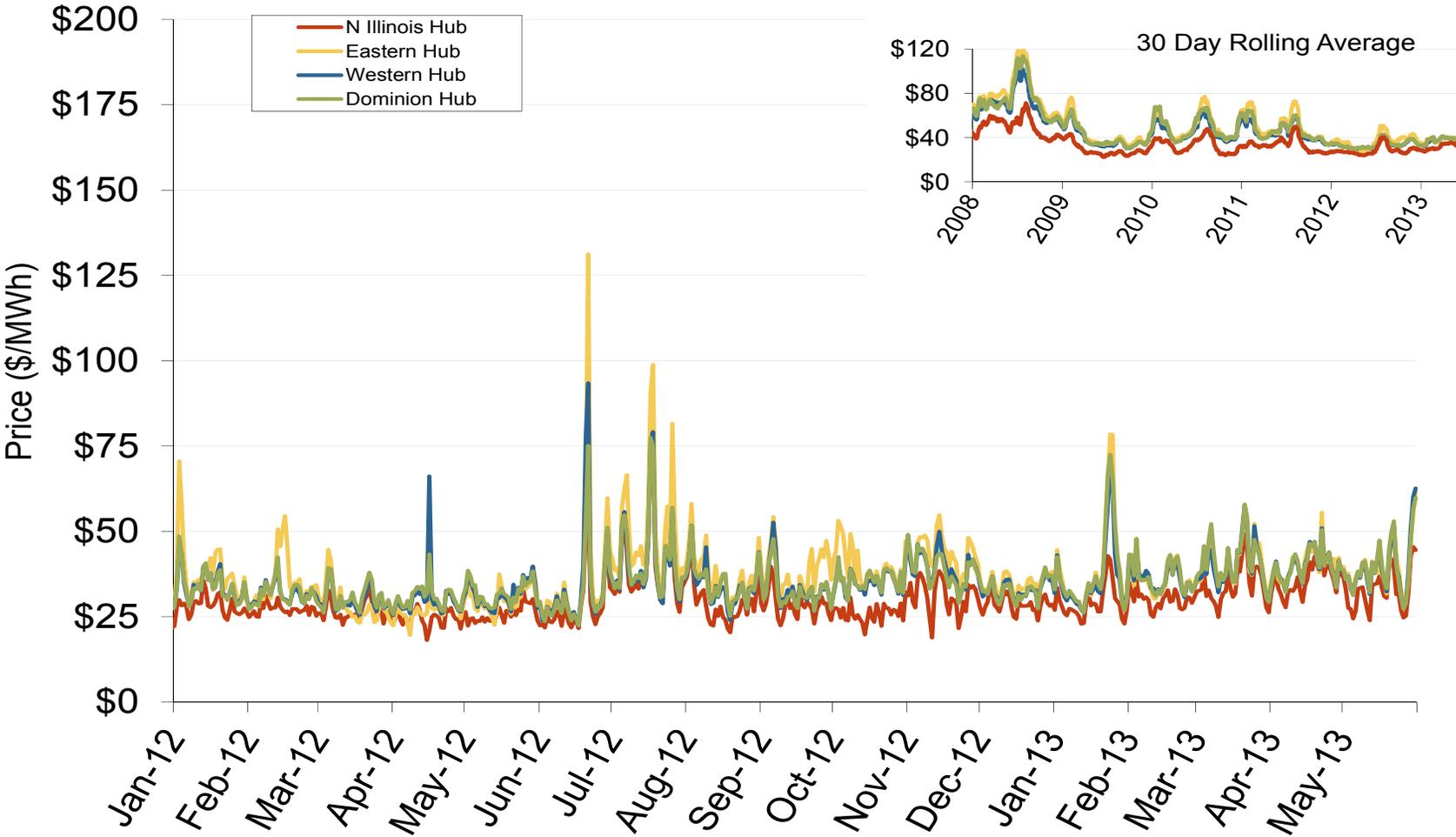
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Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data
June 2013 Southeast Snapshot Report

Daily Average of PJM Day-Ahead Prices - All Hours



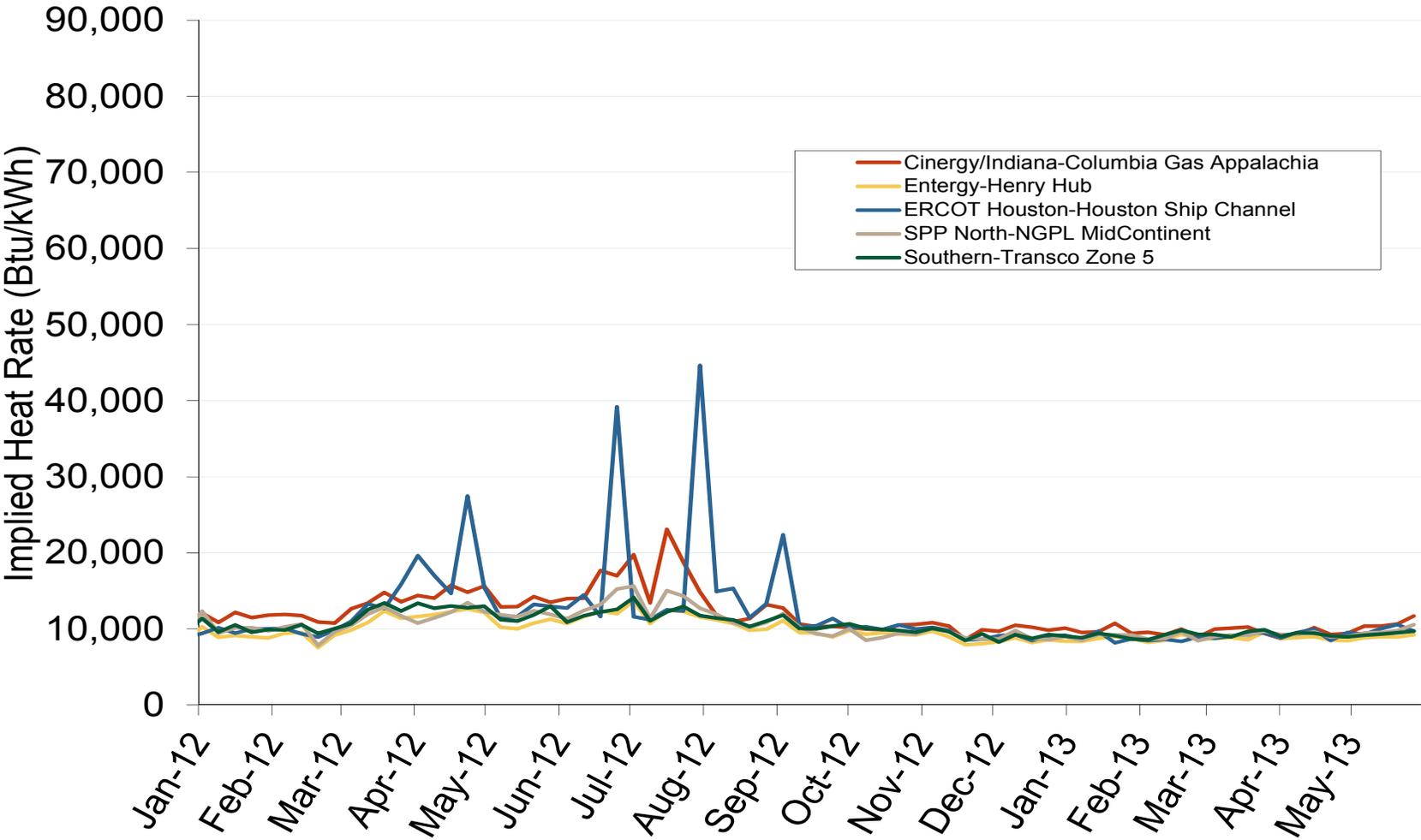
Source: Derived from Bloomberg data
June 2013 Southeast Snapshot Report

Updated: June 07, 2013

Southeast Electric Market: South Central Implied Heat Rates

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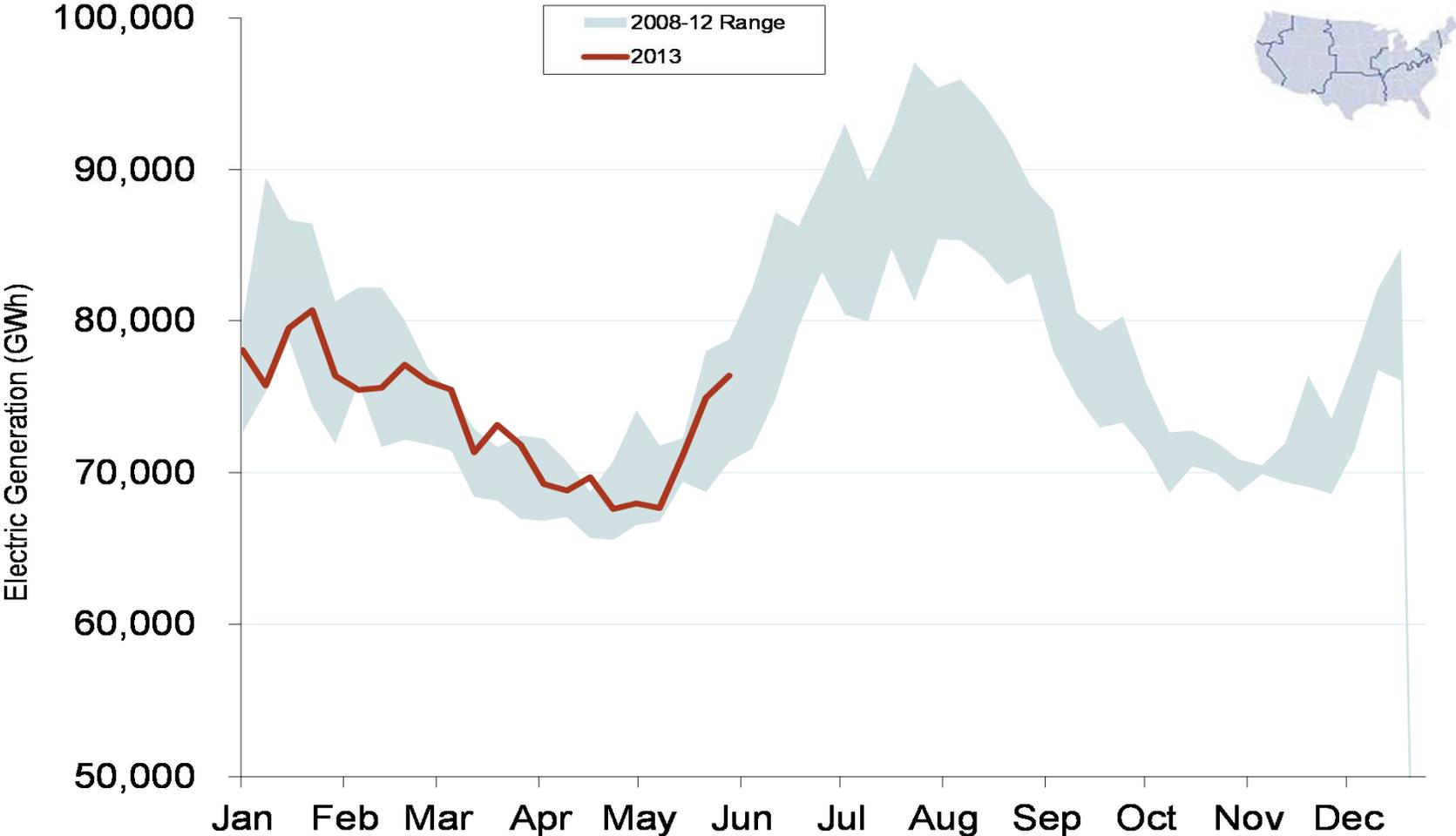
Implied Heat Rates at South Central Trading Points - Weekly Avgs.



Source: Derived from Platts on-peak electric and natural gas price data
June 2013 Southeast Snapshot Report

Updated: June 06, 2013

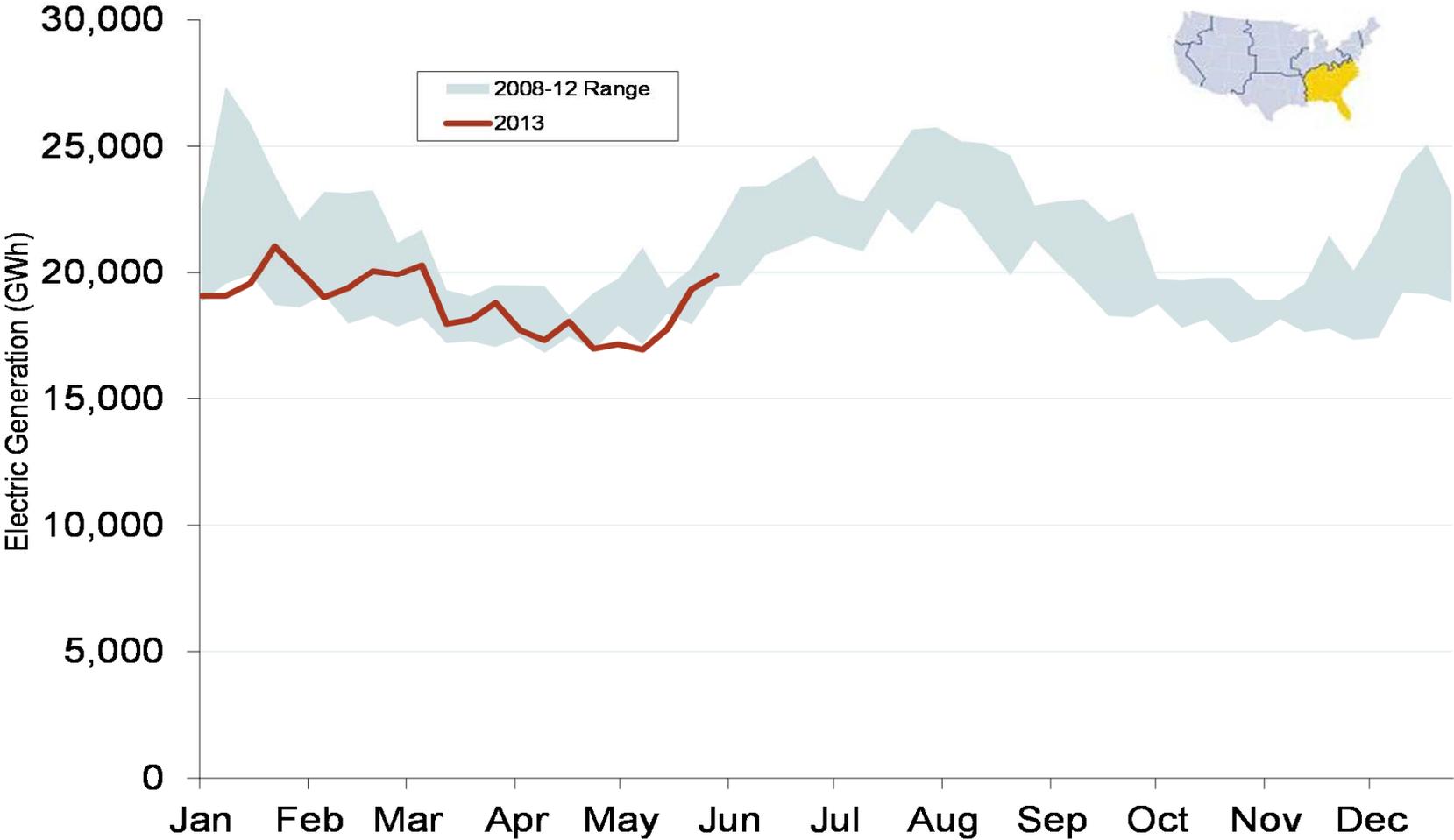
Weekly U.S. Electric Generation Output



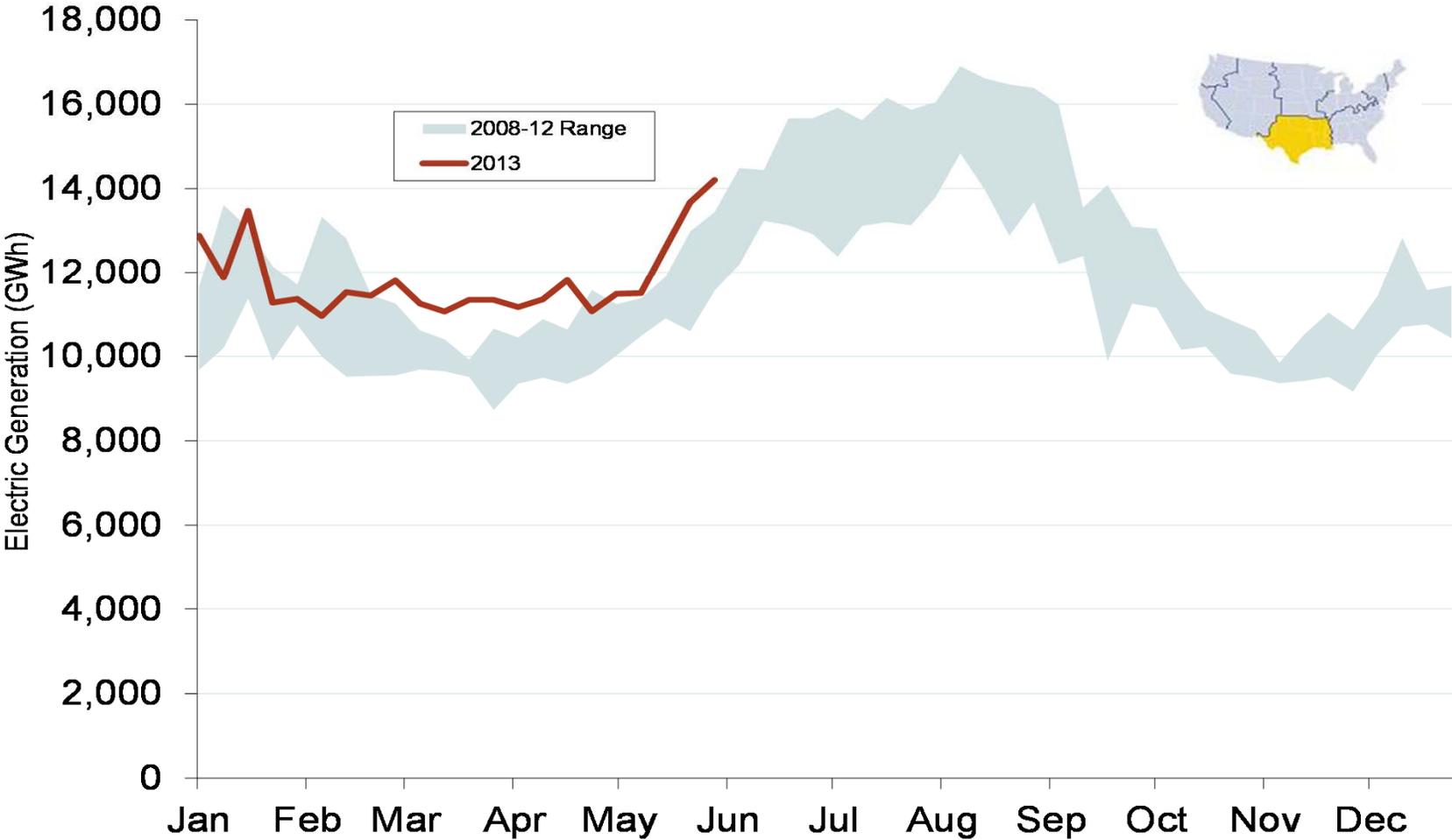
Source: Derived from *EEI* data
June 2013 Southeast Snapshot Report

Updated: June 06, 2013

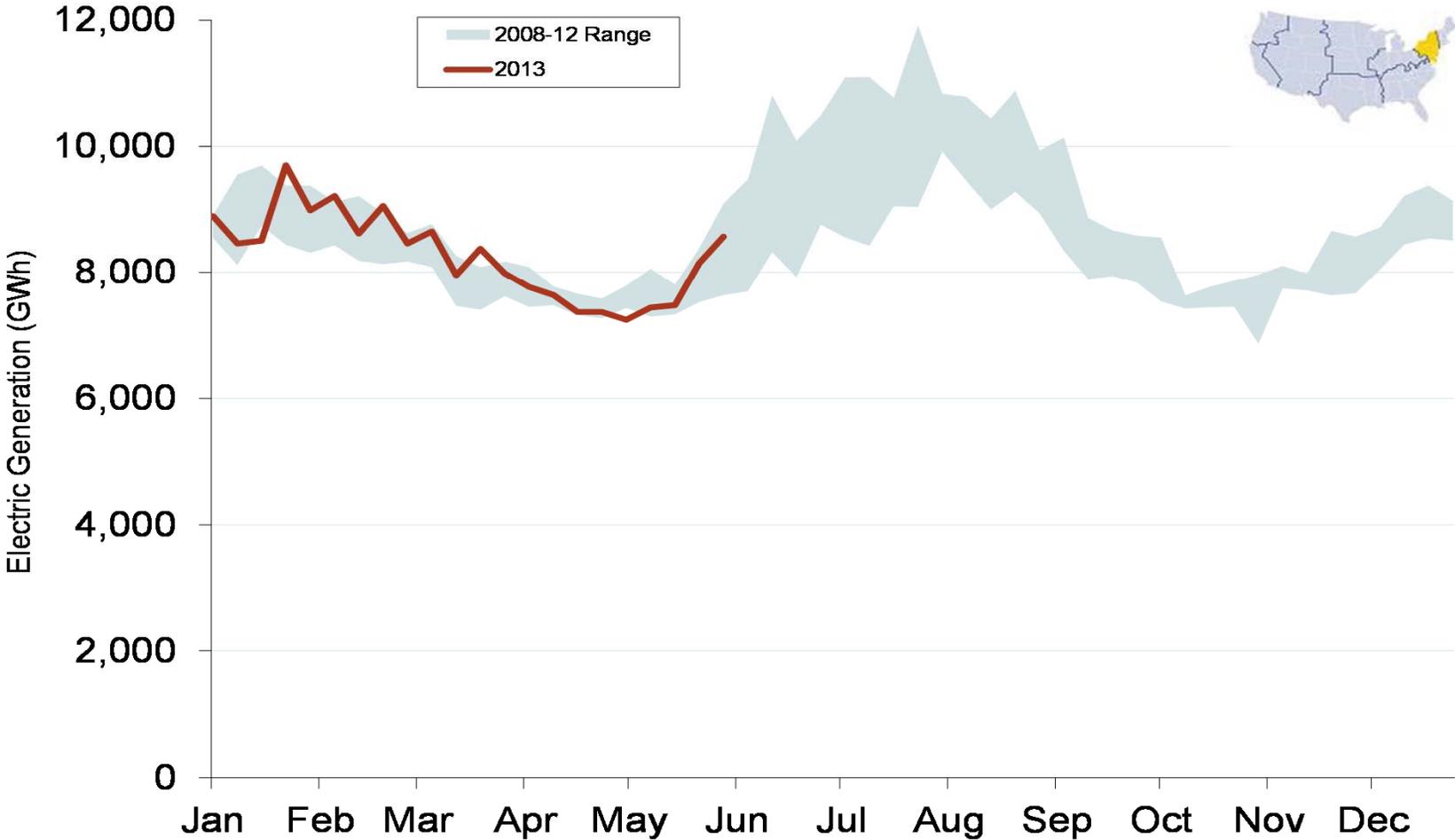
Weekly Generation Output - Southeast



Weekly Generation Output - South Central



Weekly Generation Output - Mid Atlantic



Monthly Southeastern Hydroelectric Generation

