



Competitive Energy Services Weekly Market Summary

March 18 - 22, 2019

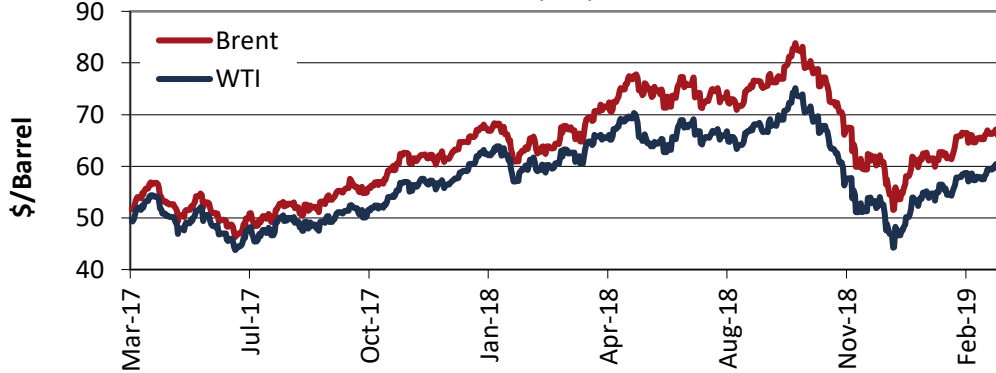
Synopsis of Last Week's Energy Markets

Crude oil rose less than 1% last week. End-of-week concerns for slowing economic growth tempered bullish news regarding OPEC's production cuts and tightening US supplies. Natural gas prices slumped 2% last week amid mild weather and waning demand. Inventories remain far below typical levels, but strong production continues to weigh on pricing.

Oil Market

Crude Oil - WTI & Brent

12-Month Forward Strips, past 24 months

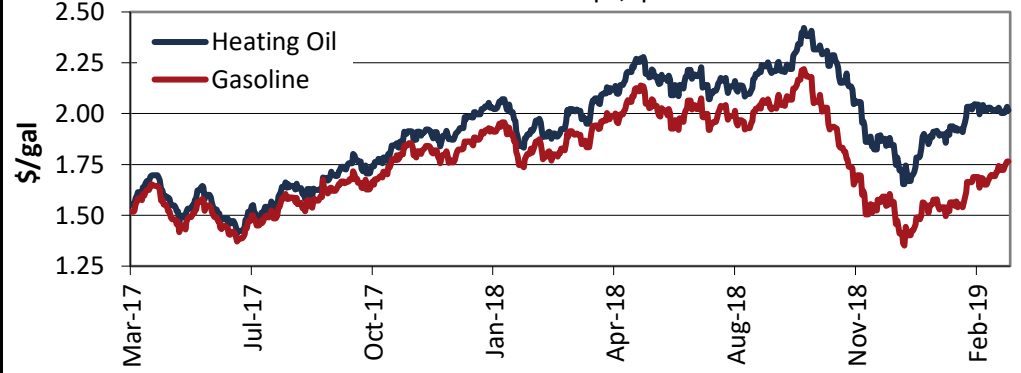


NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$59.51	\$59.39	\$75.39	\$43.82
date	3/22/19	3/15/19	10/3/18	6/21/17
change from last close		0.2%	-21.1%	36%

US STORAGE (in million bbls)	crude oil
domestic stocks as of 3/15/19	439
gain / loss from previous week	-9.6
comparison to historic range	within

Heating Oil & Gasoline

NYMEX 12-Month Forward Strips, past 24 months

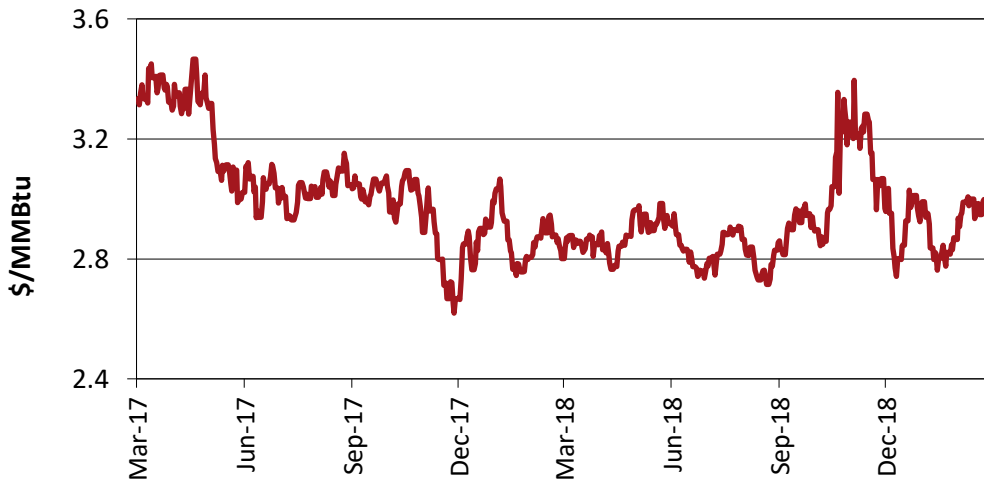


NYMEX Heating Oil	last close	previous week	24-month high	24-month low
12 month strip, \$/gal	\$2.00	\$2.00	\$2.43	\$1.41
date	3/22/19	3/15/19	10/3/18	6/21/17
change from last close		-0.2%	-18%	42%

US STORAGE (in million bbls)	distillate	propane	gasoline
domestic stocks as of 3/15/19	132	51	242
gain / loss from previous week	-4.1	1.0	-4.6
comparison to historic range	within	within	above

Natural Gas Market

NYMEX Henry Hub Futures: 12 Month Forward Strip



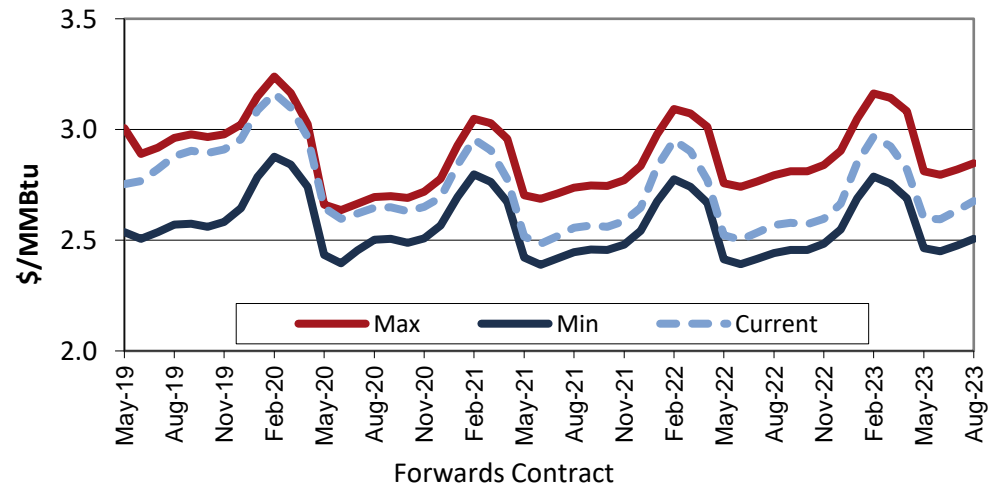
NYMEX PRICING	last close	previous week	24-month high	24-month low
12 mo. strip, \$/MMBtu	\$2.93	\$2.95	\$3.48	\$2.61
date	3/22/19	3/15/19	4/6/17	12/21/17
change from last close		-0.5%	-16%	12%

CES SCORE

12 month	24
18 month	23
24 month	28
36 month	39

The Score provides a measure of how current prices compare to their 52-week range. A score close to 0 indicates that current prices are close to their 52-week highs; a score close to 100 indicates that current prices are close to their 52-week lows.

NYMEX Natural Gas Forwards vs. 1 Year Range



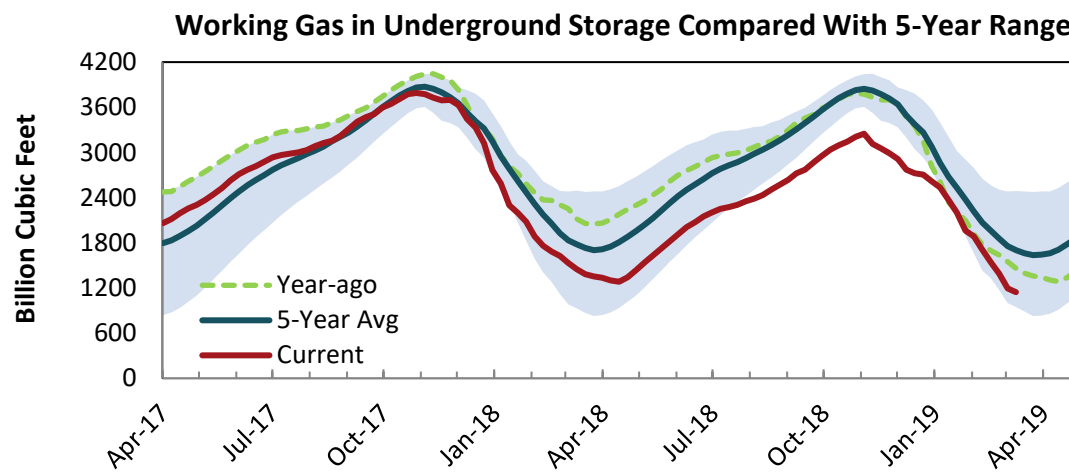
FORWARDS	12 month	18 month	24 month	36 month
strip (\$/MMBtu)	\$2.93	\$2.83	\$2.83	\$2.77

Natural gas futures are useful for both natural gas and electricity consumers because they drive electricity pricing in many U.S. markets. This chart compares the current natural gas price for each forward month on the NYMEX exchange to the highest and lowest prices for the same month over the past 12 months.



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Natural Gas Storage



This chart shows the amount of natural gas in storage at each point in time (red line) compared to the highest, lowest, and average amounts in the past 5 calendar years.

EIA Storage Data		date	Bcf	+/-
Previous Stock Level		3/8/19	1,190	
Most Recent Stock Level		3/15/19	1,143	
Year-ago Stock Level			1,458	-21.6%
5-Year Average Stock Level			1,699	-32.7%
Most Recent Net Change		3/15/19	-47	
Year-Ago Net Change			-87	
5-Year Average Net Change			-56	

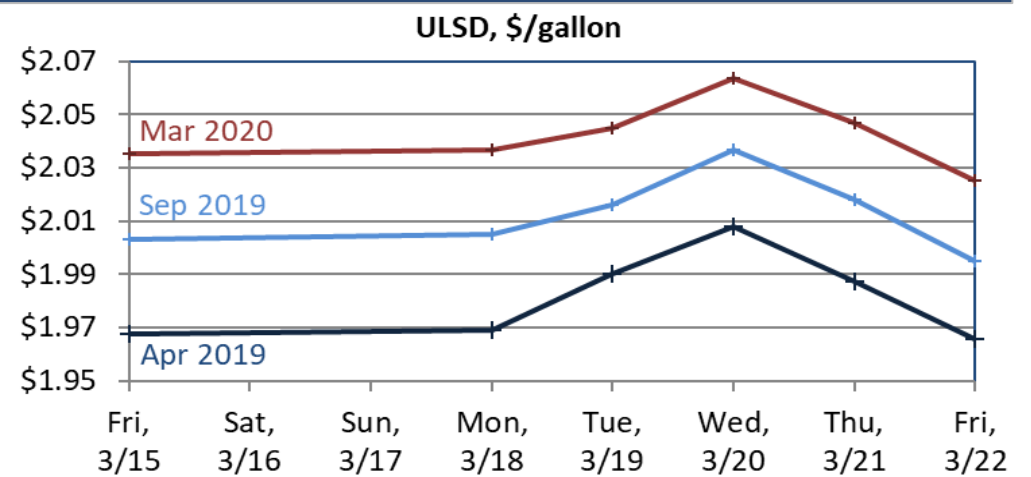
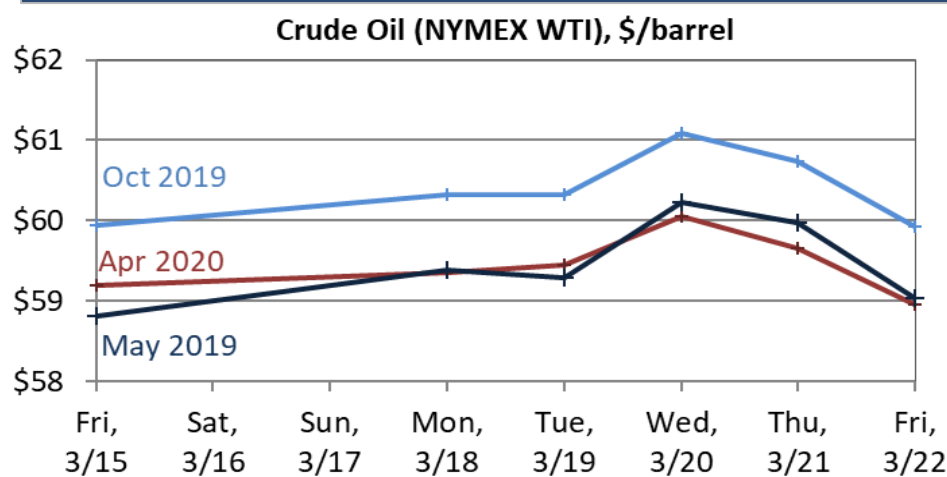
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

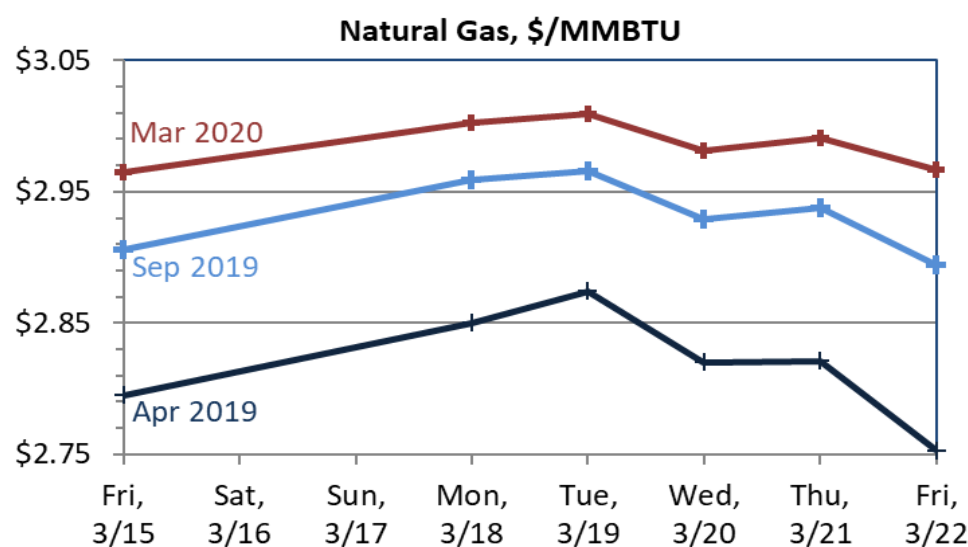
NYMEX Futures Summary Statistics

	Last Expired Contract	Exp. Date	Price	Prompt Month	Price	Most Expensive Next 12 Months	Price	Least Expensive Next 12 Months	Price	Next Winter Avg (Nov19-Mar20)
Crude oil	Apr-19	3/20/19	\$59.83	May-19	\$59.04	Nov-19	\$59.92	May-19	\$59.04	\$59.54
Heating oil	Mar-19	2/28/19	\$2.02	Apr-19	\$1.97	Feb-20	\$2.03	Apr-19	\$1.97	\$2.02
Natural gas	Mar-19	2/26/19	\$2.86	Apr-19	\$2.75	Jan-20	\$3.16	Apr-19	\$2.75	\$3.05

NYMEX End-of-Day Settlements



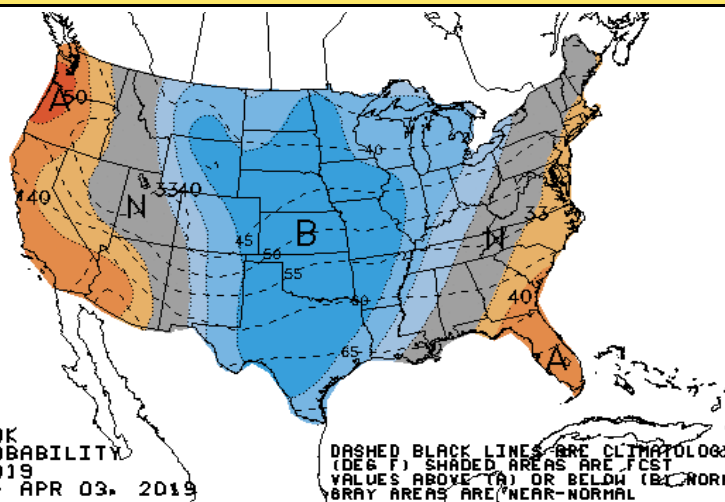
Crude oil gained less than 1% last week, despite bullish factors both domestically and internationally briefly pushing WTI futures over \$60/barrel. News of OPEC's extension of production cuts until their June meeting pushed up early week prices. Under this revised schedule, a decision on whether to extend the cuts will come shortly before their expiration on July 1. Domestically, the EIA reported that crude inventories fell by nearly 10 million barrels, the most since July 2018, as exports surged to near record highs and imports from Saudi Arabia fell by half. Demand for refined products, particularly gasoline, is rising, and unexpected delays to refinery maintenance are stoking fears that a supply crunch for gasoline may be on the horizon, as steep stock drops in recent weeks have cut into the glut that had formed, and refinery production may not increase fast enough to match rising demand as driving season approaches.



Natural gas prices saw a week-over-week decline for a second time as temperatures eased, signaling an end to winter. Mild weather through the middle of March suppressed heating demand, which, according to the EIA, contributed to this week's lower-than-average storage withdrawal. This is in stark contrast to the beginning of the month when inventories plummeted during a cold snap that led to the highest March withdrawal on record. Today, stocks remain 33% below the five-year average, but could recover before next winter thanks to record-high domestic production. This prospect has held down prices: despite tight storage, April contracts traded down 4 cents to close at \$2.75/MMBtu on Friday afternoon.

The National Weather Service near-term forecast calls for below-average temperatures for the central US and above-average temperatures along both coasts. The CES Market Score on page 1 improved from the previous week. Clients with electricity or natural gas contracts expiring in 2019 should consult with a CES representative for customized guidance.

National Weather Service Forecast



6 - 10 Day Forecast for Mar 30 - Apr 3

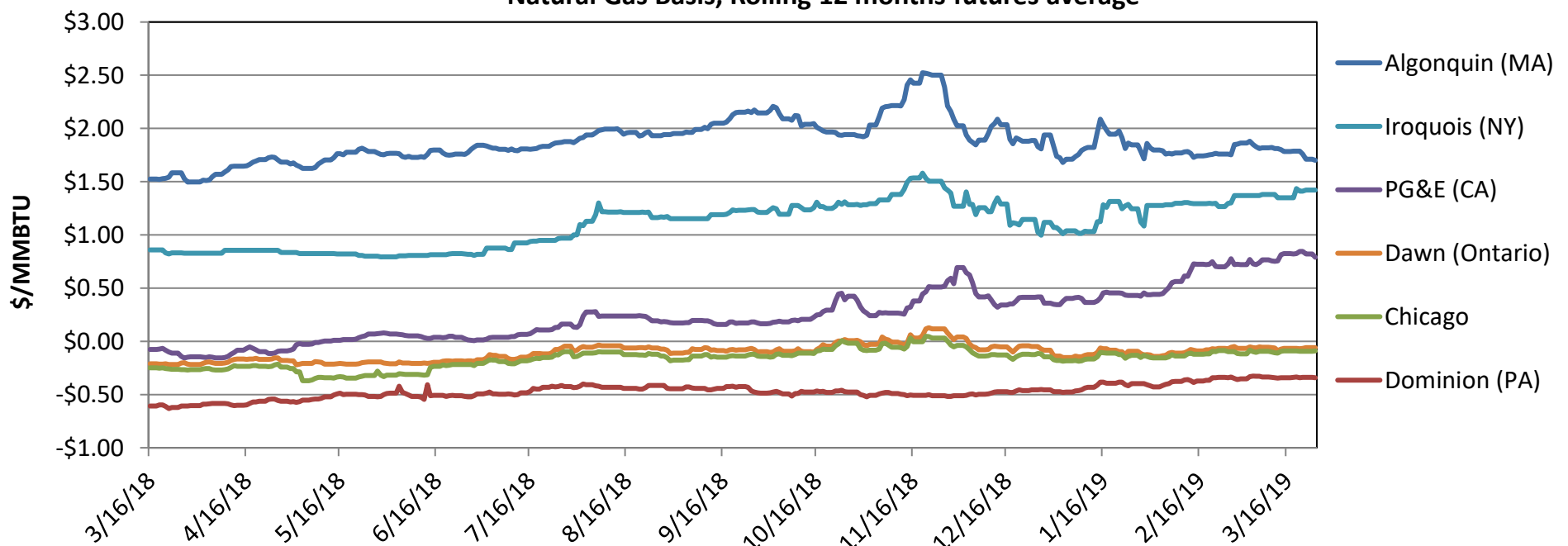
This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase the price for natural gas, oil, and electricity.

Source: Chart from the National Weather Service Climate Prediction

Natural Gas Basis Futures

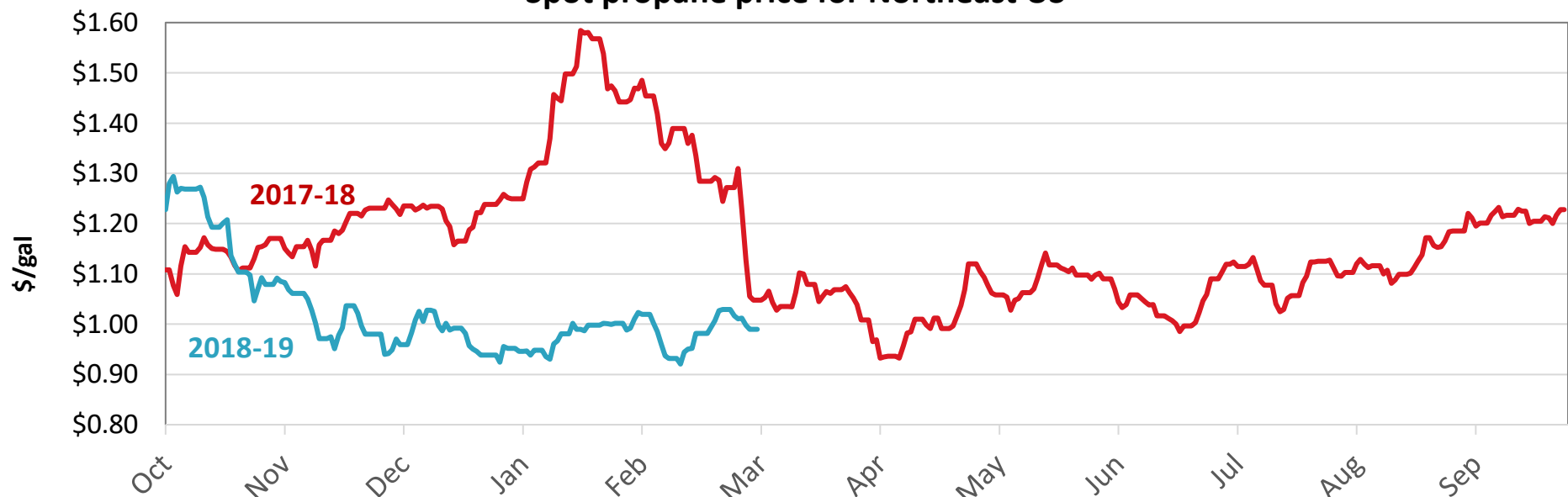
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated by adding the basis price for the appropriate liquidity point to the NYMEX futures contract. Basis prices can be negative (indicating that natural gas at a liquidity point is cheaper than at the Henry Hub) or positive (indicating that natural gas at a different liquidity point is more expensive than at the Henry Hub). Basis prices are a key component of regional electricity and natural gas costs.

Natural Gas Basis, Rolling 12 months futures average



Propane

Spot propane price for Northeast US



Spot Prices

		New England ISO Real Time Power Pricing By Zone (\$/MWh)							Avg	
		3/18/19	3/19/19	3/20/19	3/21/19	3/22/19	3/23/19	3/24/19		
Power (\$/MWh)	Maine RT On Pk	35	36	35	25	32			33	
	Maine RT Off Pk	30	32	31	25	23	23	18	26	
	NH RT On Pk	35	36	35	25	33			33	
	NH RT Off Pk	30	32	31	26	23	24	20	27	
	Vermont RT On Pk	35	35	34	25	33			33	
	Vermont RT Off Pk	30	32	31	26	23	24	20	26	
	Connecticut RT On Pk	35	36	34	25	33			33	
	Connecticut RT Off Pk	30	31	30	26	23	25	20	27	
	Rhode Island RT On Pk	35	36	34	25	33			33	
	Rhode Island RT Off Pk	30	32	31	26	23	25	20	27	
	NE Mass RT On Pk	36	37	35	25	34			33	
	NE Mass RT Off Pk	31	32	31	26	23	25	20	27	
	SE Mass RT On Pk	35	36	35	25	33			33	
	SE Mass RT Off Pk	30	32	31	26	23	25	20	27	
	WC Mass RT On Pk	36	36	35	25	33			33	
	WC Mass RT Off Pk	31	32	31	26	23	25	20	27	
		New York ISO Real Time Power Pricing By Zone (\$/MWh)							Avg	
	Capital RT On Pk	36	37	32	29	33			33	
	Capital RT Off Pk	29	30	29	26	25	32	23	28	
	Central RT On Pk	34	36	30	29	32			32	
	Central RT Off Pk	28	29	25	25	24	23	22	25	
	Hudson RT On Pk	38	40	34	35	36			37	
	Hudson RT Off Pk	30	31	29	27	26	32	24	29	
	Mohawk RT On Pk	35	37	31	29	32			33	
	Mohawk RT Off Pk	28	29	26	25	24	23	22	25	
	Milwood RT On Pk	38	40	35	36	37			37	
	Milwood RT Off Pk	30	31	29	27	26	33	25	29	
	NYC RT On Pk	40	42	36	37	38			39	
	NYC RT Off Pk	30	32	30	28	27	33	25	29	
			PJM Real Time Power Pricing By Zone (\$/MWh)							Avg
		Eastern Hub On Pk	32	27	29	37	37			32
Eastern Hub Off Pk		37	50	37	20	20	20	20	29	
Western Hub On Pk		32	28	30	36	36			32	
Western Hub Off Pk		37	49	37	21	21	21	21	30	
PPL Zone On Pk		31	26	34	29	29			30	
PPL Zone Off Pk		36	47	32	20	20	20	20	28	
AEP RT On Pk		31	28	29	35	35			32	
AEP RT Off Pk		36	50	36	23	23	23	23	30	
Chicago RT On Pk		30	27	32	39	39			33	
Chicago RT Off Pk		35	30	22	22	22	22	22	25	
New Jersey Hub On Pk		32	27	32	38	38			33	
New Jersey Hub Off Pk		37	50	36	20	20	20	20	29	
		California ISO Real Time Power Pricing (\$/MWh)							Avg	
		SoCal Edison RT On Pk	42	33	106	32	21			47
	SoCal Edison RT Off Pk	36	28	30	25	24	59	39	34	
		3/18/19	3/19/19	3/20/19	3/21/19	3/22/19	3/23/19	3/24/19	Avg	
Natural Gas \$/MMBtu	Henry Hub, LA	2.90	2.93	2.86	2.80	2.77			2.85	
	TZ6, MA	3.19	3.09	2.96	2.91	2.98			3.03	
	Algonquin, MA	3.20	3.12	2.88	2.92	3.01			3.03	
	Chicago Hub, IL	2.73	2.74	2.68	2.68	2.66			2.70	
	New York, NY	2.71	2.70	2.68	2.70	2.66			2.69	
	Dominion South, PA	2.63	2.64	2.61	2.58	2.56			2.60	
	Opal Hub, WY	2.85	2.77	2.66	2.43	2.46			2.63	
	PG&E Citygate, CA	3.55	3.70	3.78	3.64	3.53			3.64	