



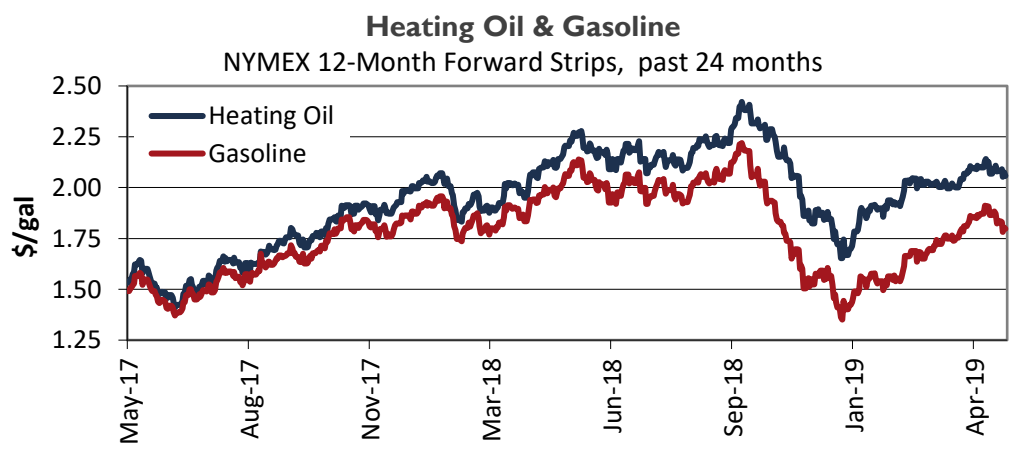
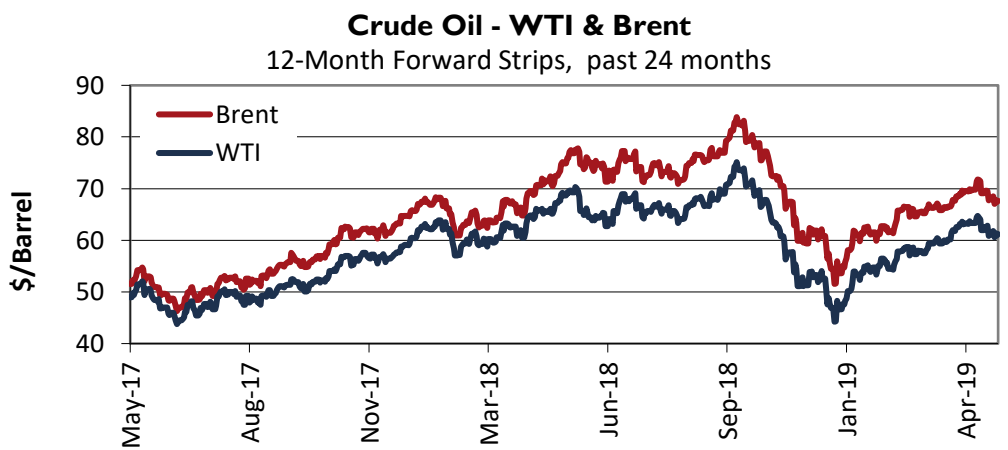
Competitive Energy Services Weekly Market Summary

May 6 - 10, 2019

Synopsis of Last Week's Energy Markets

Crude oil dropped 0.5% last week. Setbacks in US-China trade negotiations pressured prices while falling US stockpiles pushed concerns of tighter supply. Natural gas prices rose for the third week in a row as mixed weather could boost demand in the coming days. Storage builds remain strong thanks to high production and the inventory deficit has narrowed to 16% below the 5-year average.

Oil Market



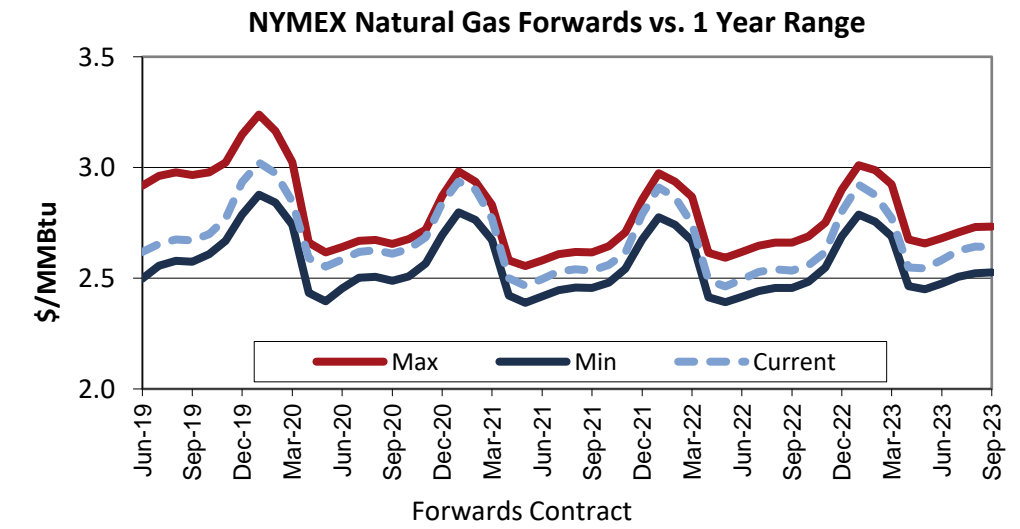
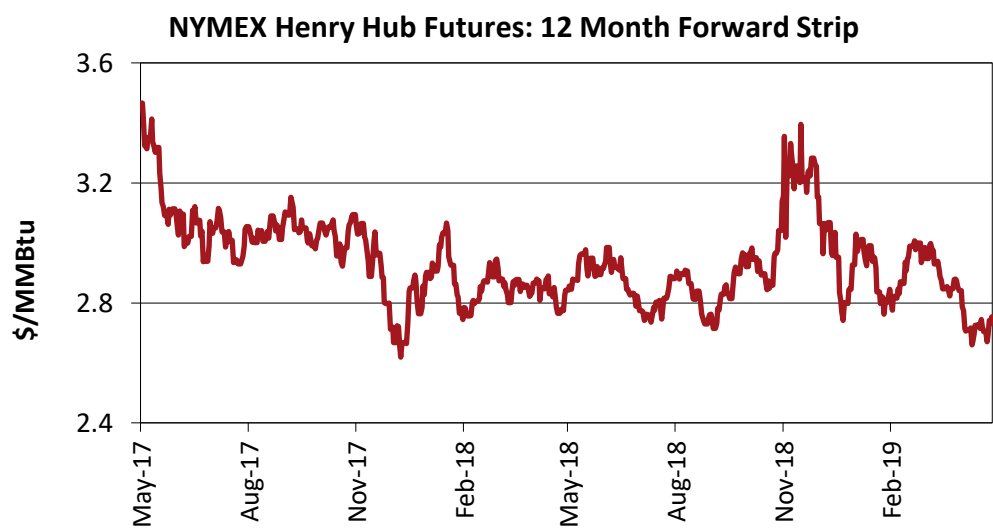
NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$61.07	\$61.17	\$75.39	\$43.82
date	5/10/19	5/3/19	10/3/18	6/21/17
change from last close		-0.2%	-19.0%	39%

NYMEX Heating Oil	last close	previous week	24-month high	24-month low
12 month strip, \$/gal	\$2.06	\$2.08	\$2.43	\$1.41
date	5/10/19	5/3/19	10/3/18	6/21/17
change from last close		-0.8%	-15%	46%

US STORAGE (in million bbls)		crude oil
domestic stocks as of	5/3/19	467
gain / loss from previous week		-4.0
comparison to historic range		within

US STORAGE (in million bbls)		distillate	propane	gasoline
domestic stocks as of	5/3/19	126	60	226
gain / loss from previous week		-0.2	1.0	-0.6
comparison to historic range		within	within	within

Natural Gas Market



NYMEX PRICING	last close	previous week	24-month high	24-month low
12 mo. strip, \$/MMBTu	\$2.75	\$2.70	\$3.47	\$2.61
date	5/10/19	5/3/19	5/12/17	12/21/17
change from last close		1.7%	-21%	5%

FORWARDS	12 month	18 month	24 month	36 month
strip (\$/MMBTu)	\$2.75	\$2.71	\$2.72	\$2.69

CES SCORE	
12 month	62
18 month	51
24 month	47
36 month	48

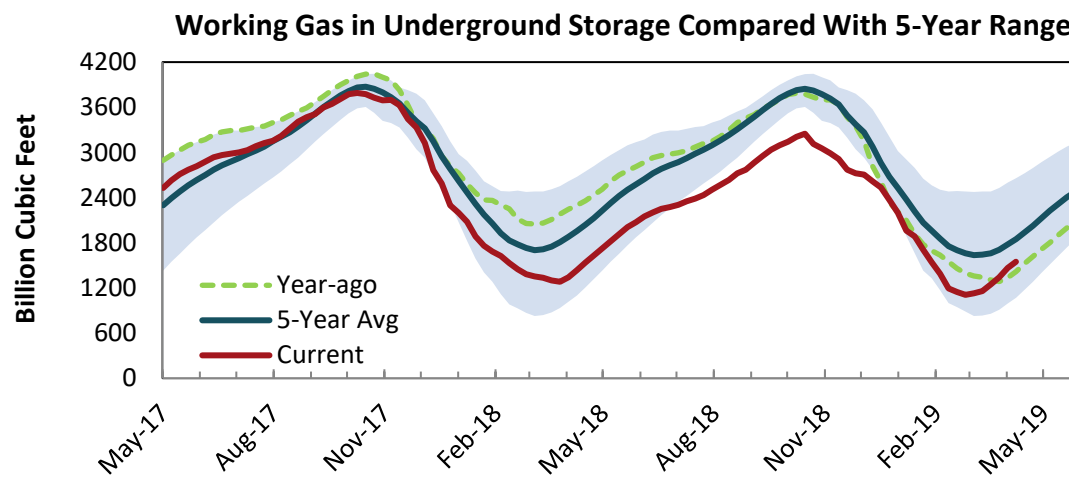
The Score provides a measure of how current prices compare to their 52-week range. A score close to 0 indicates that current prices are close to their 52-week highs; a score close to 100 indicates that current prices are close to their 52-week lows.

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	4/26/19	1,462	
Most Recent Stock Level	5/3/19	1,547	
Year-ago Stock Level		1,419	9.0%
5-Year Average Stock Level		1,850	-16.4%
Most Recent Net Change	5/3/19	85	
Year-Ago Net Change		85	
5-Year Average Net Change		72	

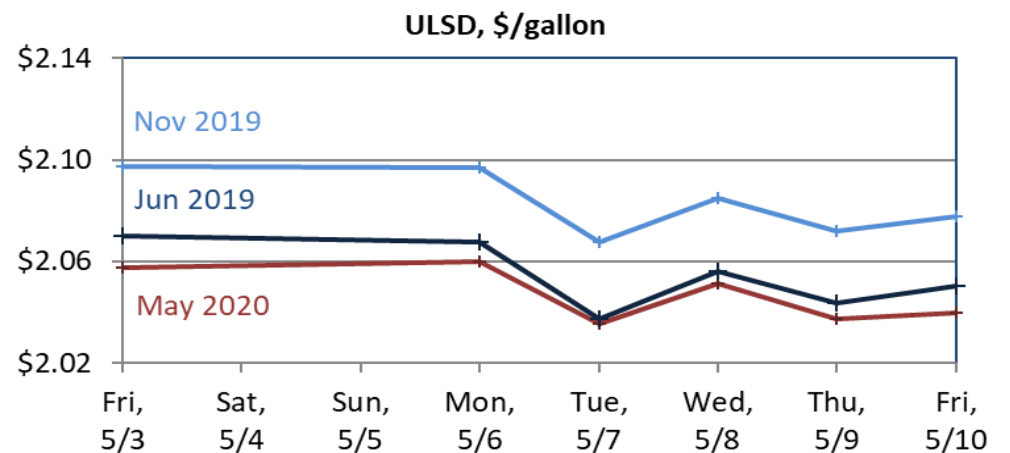
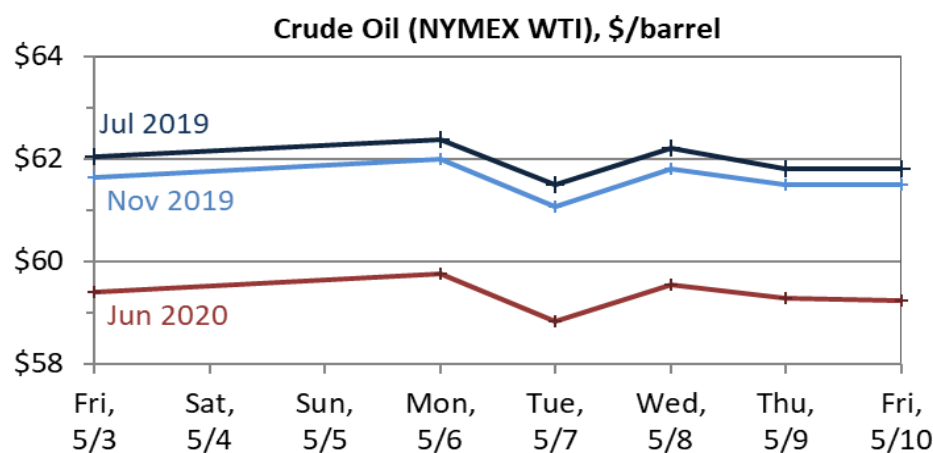
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

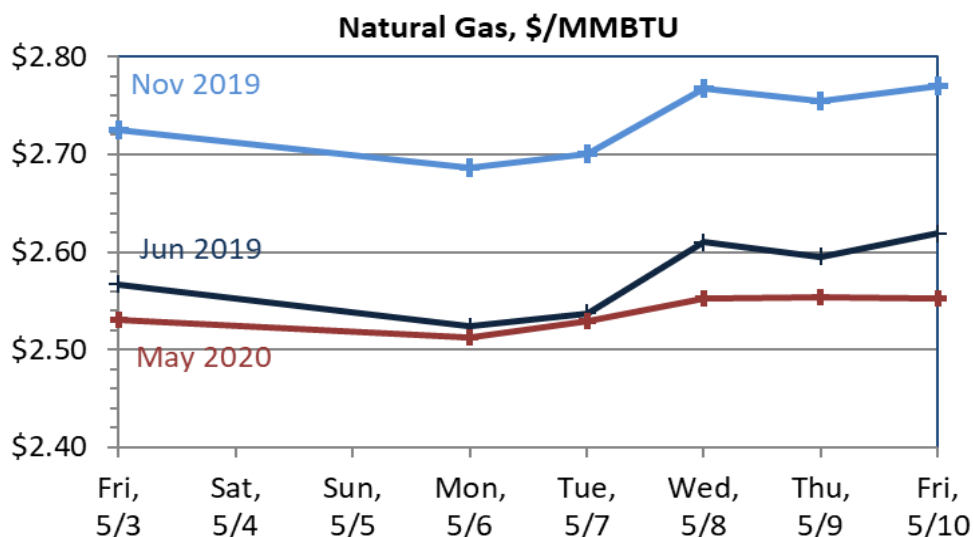
NYMEX Futures Summary Statistics

	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	May-19	4/22/19	\$65.70	Jun-19	\$61.66	Aug-19	\$61.86	Jun-20	\$59.24	\$60.90
Heating oil	May-19	4/30/19	\$2.08	Jun-19	\$2.05	Jan-20	\$2.08	May-20	\$2.04	\$2.08
Natural gas	May-19	4/26/19	\$2.57	Jun-19	\$2.62	Jan-20	\$2.02	May-20	\$2.55	\$2.91

NYMEX End-of-Day Settlements



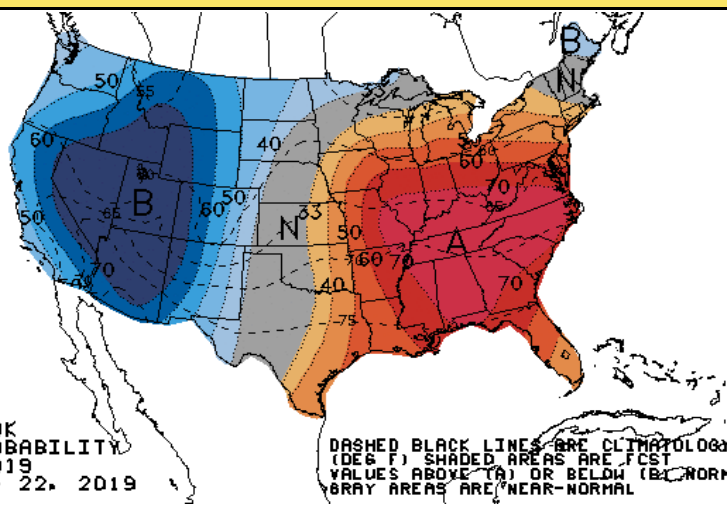
Crude oil fell just 0.5% last week, making three straight weeks of losses. Trade talks between China and the US suffered setbacks as the US hiked tariffs on \$200 billion worth of Chinese imports from 10% to 25% Friday morning after threats earlier in the week, with the further threat of tariffs on an additional \$325 billion worth of goods if no deal is reached soon. Domestic crude stockpiles dropped by the more than 4 million barrels the prior week, despite universal expectations of an increase. Refinery runs dropped below 87% as refiners expand their maintenance season, shifting ahead maintenance typically scheduled for the fall, so that they may produce greater volumes of compliant fuels ahead of a 2020 sulfur reduction mandate for shipping fuels.



Natural gas prices rose 2% last week despite a large inventory build as weather forecasts show demand could rise above typical levels in the coming weeks. Lingering heating and rising cooling demand may impact market balance in the near-term, while strong LNG exports and rising demand for gas generation could curb storage injections through the summer. Near-record high production continues to weigh on markets, however – the EIA reported that the storage deficit has fallen to 16% vs the 5-year average after the last nine storage injections were stronger than usual. June contracts fell after the announcement but recovered on Friday to close the week at \$2.619/MMBtu, five cents higher than the previous week's close.

The National Weather Service near-term forecast calls for above-average temperatures for most of the Northeast, Midwest and Southern US and below-average temps for the Western US. The CES Market Score on page 1 decreased 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 May 18 - 22

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



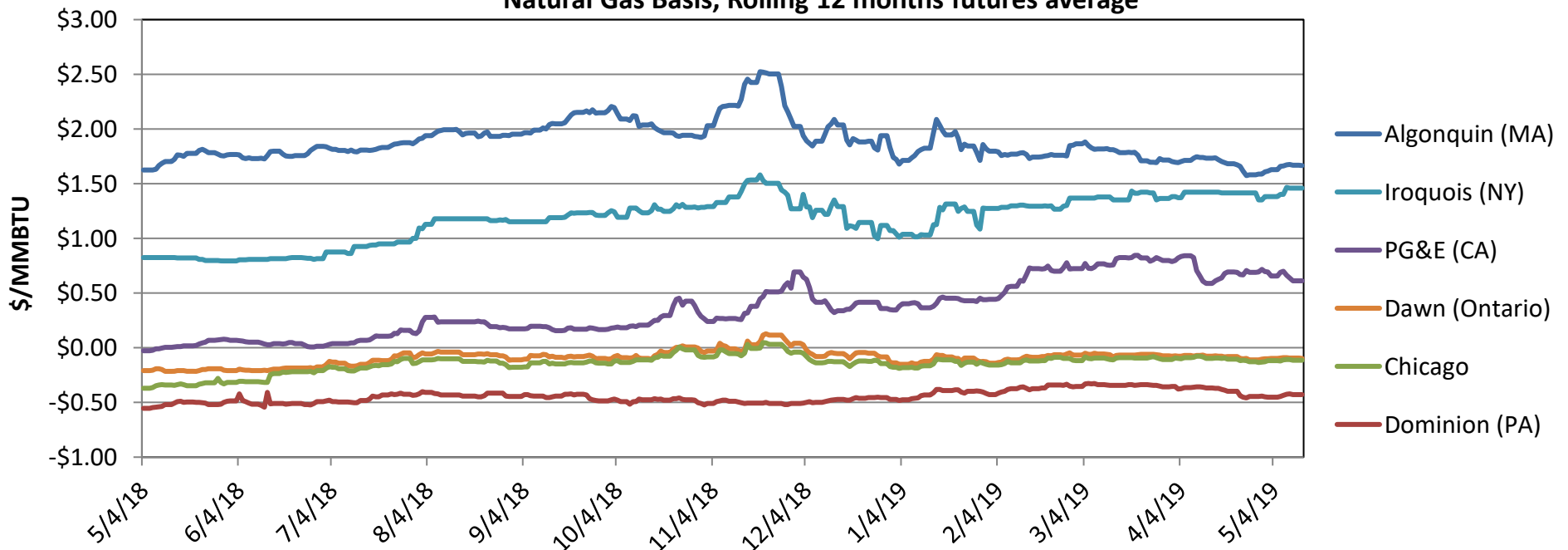
6-10 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 12 MAY 2019
VALID MAY 18 - 22, 2019

DASHED BLACK LINES ARE CLIMATOLOGY (DEG F). SHADED AREAS ARE FCST VALUES ABOVE (A) OR BELOW (B) NORMAL. GRAY AREAS ARE NEAR-NORMAL.

Natural Gas Basis Futures

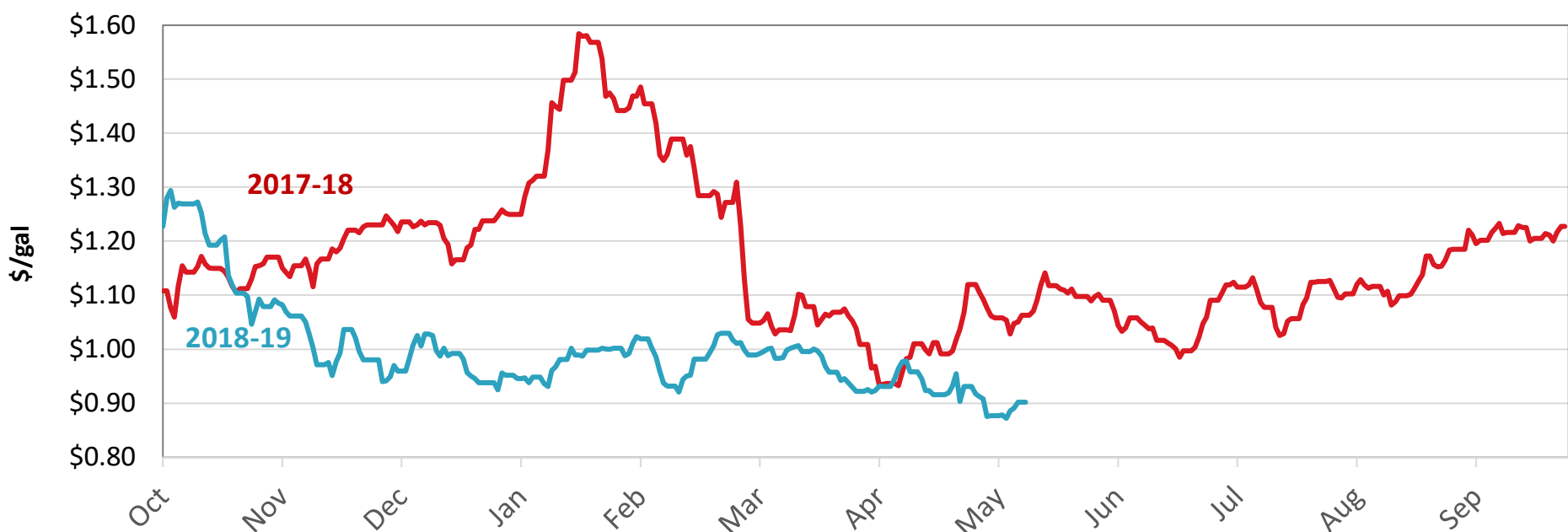
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated 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
		5/6/19	5/7/19	5/8/19	5/9/19	5/10/19	5/11/19	5/12/19	
Power (\$/MWh)	Maine RT On Pk	21	24	20	21	30			23
	Maine RT Off Pk	19	16	19	14	19	18	23	18
	NH RT On Pk	21	24	22	21	31			23
	NH RT Off Pk	19	16	19	14	19	18	24	18
	Vermont RT On Pk	20	23	21	20	29			23
	Vermont RT Off Pk	19	16	19	14	19	18	23	18
	Connecticut RT On Pk	21	23	22	20	30			23
	Connecticut RT Off Pk	19	16	19	14	19	18	24	18
	Rhode Island RT On Pk	21	23	22	20	30			23
	Rhode Island RT Off Pk	19	16	19	14	19	18	23	18
	NE Mass RT On Pk	21	24	22	21	31			24
	NE Mass RT Off Pk	19	16	19	14	19	18	24	19
	SE Mass RT On Pk	21	23	22	20	31			23
	SE Mass RT Off Pk	19	16	19	14	19	18	24	18
	WC Mass RT On Pk	21	24	22	20	31			23
	WC Mass RT Off Pk	19	16	19	14	19	18	24	19
New York ISO Real Time Power Pricing By Zone (\$/MWh)									Avg
	Capital RT On Pk	18	17	13	16	37			20
	Capital RT Off Pk	14	13	17	8	9	22	16	14
	Central RT On Pk	17	17	12	13	22			16
	Central RT Off Pk	14	12	17	7	5	18	14	12
	Hudson RT On Pk	18	18	13	15	32			19
	Hudson RT Off Pk	14	13	18	8	8	21	16	14
	Mohawk RT On Pk	17	17	12	13	22			16
	Mohawk RT Off Pk	14	12	17	7	5	18	14	12
	Milwood RT On Pk	18	18	13	16	33			20
	Milwood RT Off Pk	15	13	18	8	8	21	16	14
	NYC RT On Pk	24	22	22	39	52			32
	NYC RT Off Pk	15	13	18	13	13	27	22	17
PJM Real Time Power Pricing By Zone (\$/MWh)									Avg
	Eastern Hub On Pk	18	17	17	17	17			17
	Eastern Hub Off Pk	16	16	16	14	14	14	14	15
	Western Hub On Pk	23	22	22	28	28			25
	Western Hub Off Pk	16	17	17	18	18	18	18	17
	PPL Zone On Pk	19	17	19	25	25			21
	PPL Zone Off Pk	15	16	16	16	16	16	16	16
	AEP RT On Pk	25	24	23	31	31			27
	AEP RT Off Pk	16	18	17	19	19	19	19	18
	Chicago RT On Pk	24	24	21	30	30			26
	Chicago RT Off Pk	16	17	16	19	19	19	19	18
	New Jersey Hub On Pk	19	18	18	21	21			19
	New Jersey Hub Off Pk	16	16	16	15	15	15	15	15
California ISO Real Time Power Pricing (\$/MWh)									Avg
	SoCal Edison RT On Pk	17	27	34	22	55			31
	SoCal Edison RT Off Pk	22	51	16	24	33	22	9	25
Natural Gas \$/MMBtu		5/6/19	5/7/19	5/8/19	5/9/19	5/10/19	5/11/19	5/12/19	Avg
	Henry Hub, LA	2.56	2.56	2.64	2.57	2.54			2.57
	TZ6, MA	2.36	2.36	2.35	2.35	2.35			2.35
	Algonquin, MA	2.25	2.33			2.30			2.29
	Chicago Hub, IL	2.36	2.34	2.36	2.33	2.35			2.35
	New York, NY	2.24	2.22	2.28	2.17	2.18			2.22
	Dominion South, PA	2.19	2.20	2.21	2.18	2.15			2.19
	Opal Hub, WY	2.07	2.20	2.11	2.00	1.90			2.06
PG&E Citygate, CA	3.44	3.32	3.20	3.31	3.16			3.29	