



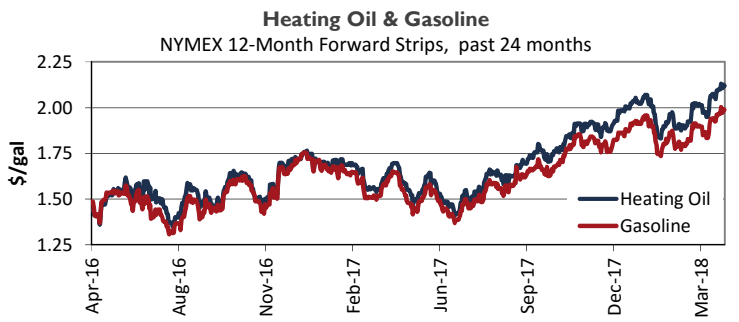
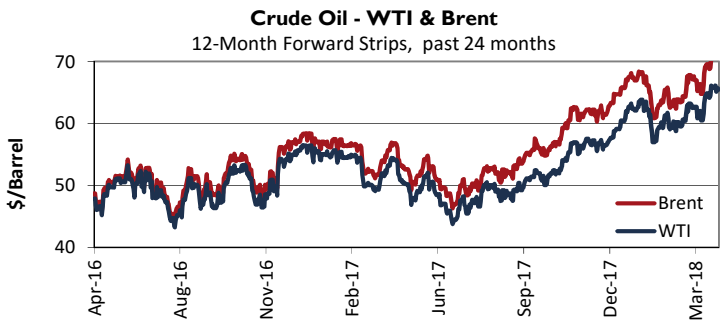
Competitive Energy Services Weekly Market Summary

April 23 - 27, 2018

Synopsis of Last Week's Energy Markets

WTI was steady last week while Brent rose slightly. All eyes are on whether President Trump recertifies Iran's compliance with the nuclear deal, a decision that must be made by May 12. Otherwise, economic sanctions will be reinstated against Iran, including its oil. Natural gas prices remain in a narrow trading range as late-season heating demand recedes. Storage stands at a 29% deficit to the 5-year average but is expected refill quickly through the summer as record-high production continues to climb.

Oil Market



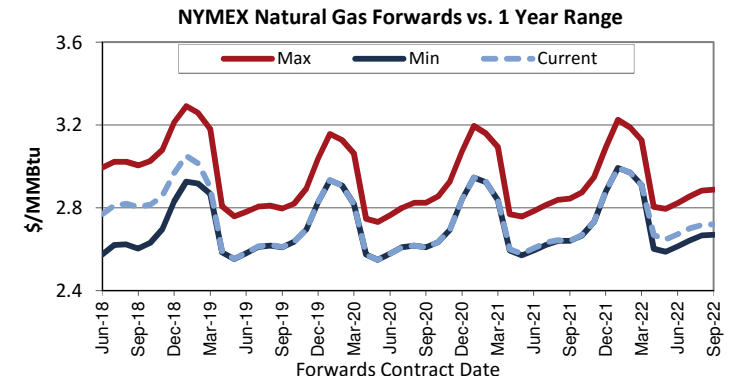
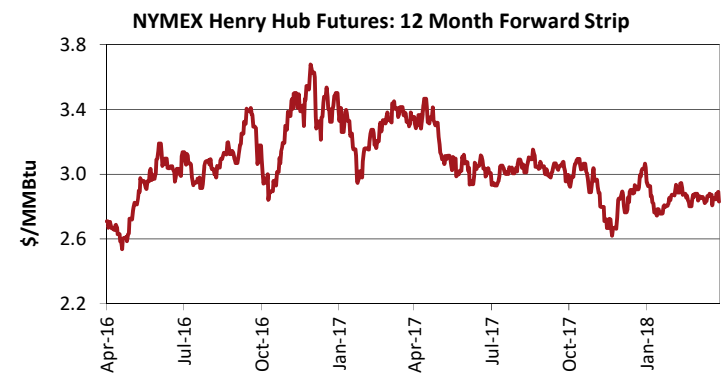
NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$65.58	\$63.49	\$65.92	\$43.04
date	4/27/18	1/24/18	4/23/18	8/2/16
change from last close		3.3%	-0.5%	52%

NYMEX Heating Oil	last close	previous week	24-month high	24-month low
12 month strip, \$/gal	\$2.12	\$2.06	\$2.12	\$1.34
date	4/27/18	1/24/18	4/26/18	8/2/16
change from last close		2.9%	0%	58%

US STORAGE (in million bbls)	crude oil
domestic stocks as of 4/20/18	430
gain / loss from previous week	2.2
comparison to historic range	within

US STORAGE (in million bbls)	distillate	propane	gasoline
domestic stocks as of 4/20/18	123	36	237
gain / loss from previous week	-2.6	-0.2	0.8
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	\$2.83	\$2.99	\$3.70	\$2.54
date	4/27/18	1/24/18	12/28/16	5/18/16
change from last close		-5.3%	-23%	12%

FORWARDS	12 month	18 month	24 month	36 month
strip (\$/MMBtu)	\$2.83	\$2.76	\$2.76	\$2.74

CES SCORE	
12 month	67
18 month	78
24 month	83
36 month	89

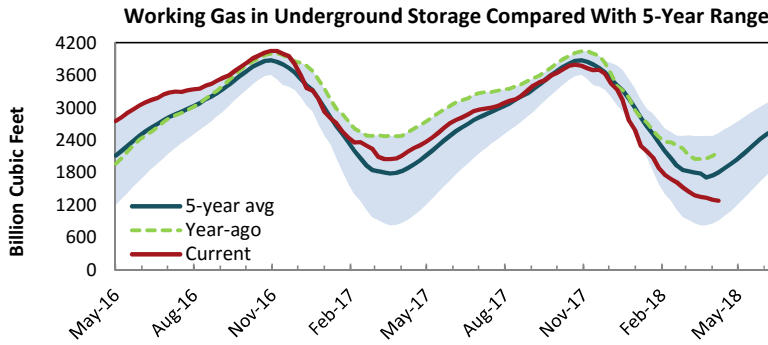
The Score provides a measure of how current prices compare to their 52-week range. A score close to 0 indicates that current prices are close to their 52-week highs; a score close to 100 indicates that current prices are close to their 52-week lows.

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	4/13/18	1,299	
Most Recent Stock Level	4/20/18	1,281	
Year-ago Stock Level		2,178	-41.2%
5-Year Average Stock Level		1,808	-29.1%
Most Recent Net Change	4/20/18	-18	
Year-Ago Net Change		71	-125%
5-Year Average Net Change		60	-130%

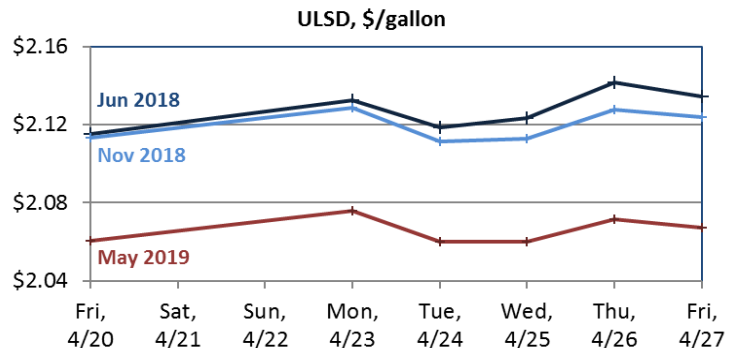
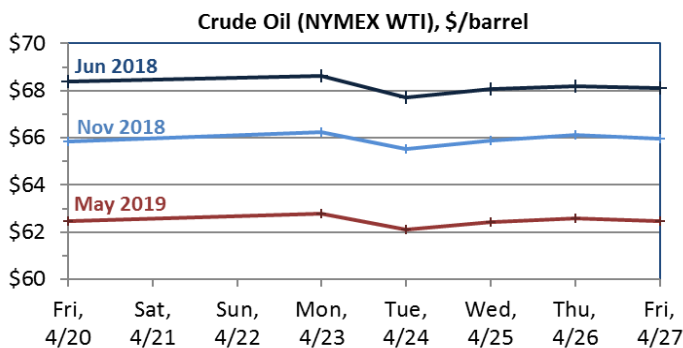
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

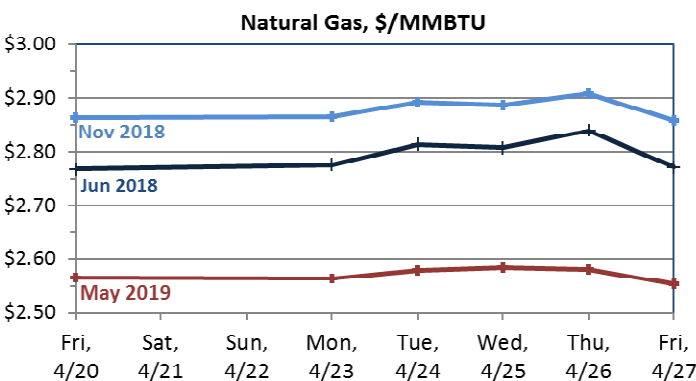
NYMEX Futures Summary Statistics

	Last Expired Contract	Exp. Date	Price	Prompt Month	Price	Most Expensive Next 12 Months	Price	Least Expensive Next 12 Months	Price	Next Winter Avg (Nov18-Mar19)
Crude oil	May-18	4/20/18	\$68.38	Jun-18	\$68.10	Jun-18	\$68.10	May-19	\$62.45	\$64.84
Heating oil	Apr-18	3/29/18	\$2.03	May-18	\$2.15	May-18	\$2.15	Apr-19	\$2.08	\$2.11
Natural gas	May-18	3/27/18	\$2.82	Jun-18	\$2.77	Jan-19	\$3.05	May-19	\$2.55	\$2.96

NYMEX End-of-Day Settlements



WTI prices were flat last week as French President Emmanuel Macron visited the Trump White House, followed by German Chancellor Angela Merkel on Friday. Both countries are parties to the Iran nuclear deal, along with China, Russia, the UK, the United States, and Iran. The agreement was signed in 2015 and waives economic sanctions against Iran in exchange for it halting its nuclear weapons program. President Trump has until May 12 to recertify Iran's compliance with the deal, but he has threatened to seek tougher terms to the agreement, which would require the approval of the parties. A reinstatement of sanctions could impact 250,000-350,000 barrels per day from Iran, OPEC's third largest producer. London-traded Brent oil rose slightly over the week, while WTI remained steady.



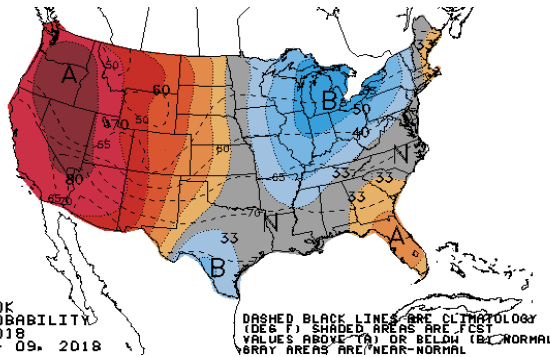
Natural gas prices remained unchanged last week: June contracts advanced just half a cent to \$2.77 as early-week gains were erased in trading on Friday, while May futures rallied to \$2.83 before expiring on Thursday afternoon. Forward prices have remained relatively stable despite a widening storage deficit with the 12-month strip trading in a tight ten-cent range since the start of April. Last week the EIA reported a withdrawal of 18 Bcf that left inventories 29% below average levels at a time when storage typically sees a 60-Bcf injection. Strong production is expected to outweigh gains in LNG exports and refill inventories as temperatures rise and heating demand recedes.

The National Weather Service near-term forecast calls for cooler-than-normal temperatures for much of the Midwest and parts of the Northeast, while the western half should see warmer-than-normal temperatures. The natural gas market scores on page 1 improved from the previous week. Clients with electricity or natural gas contracts expiring in 2018 should consult with a CES representative for customized guidance.

National Weather Service Forecast



6-10 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 29 APR 2018
VALID MAY 05 - 09, 2018



6 - 10 Day Forecast for May 5 - 9

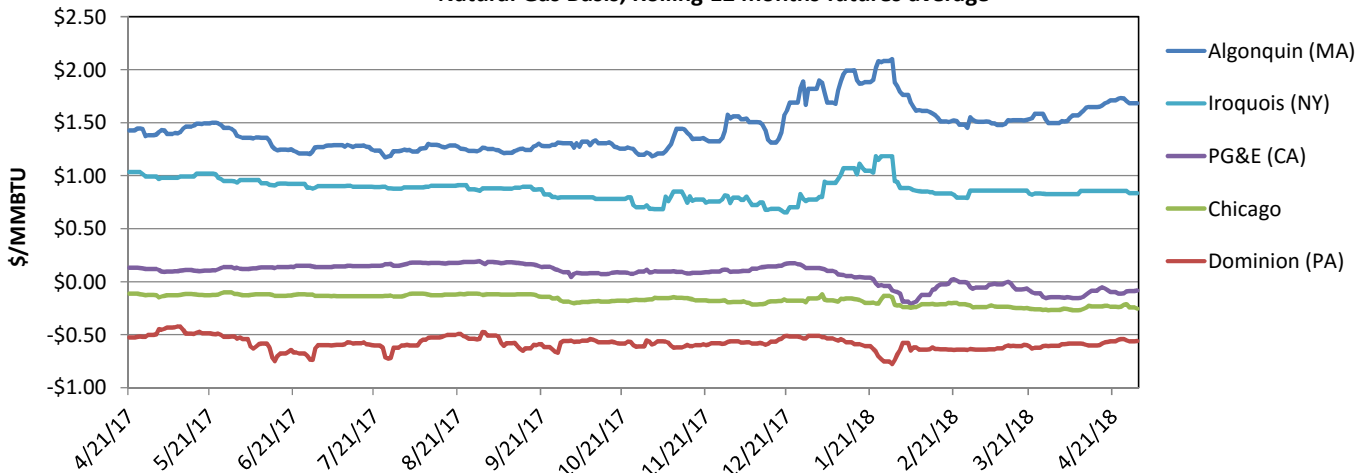
This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase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

Source: Chart from the National Weather Service Climate Prediction

Natural Gas Basis Futures

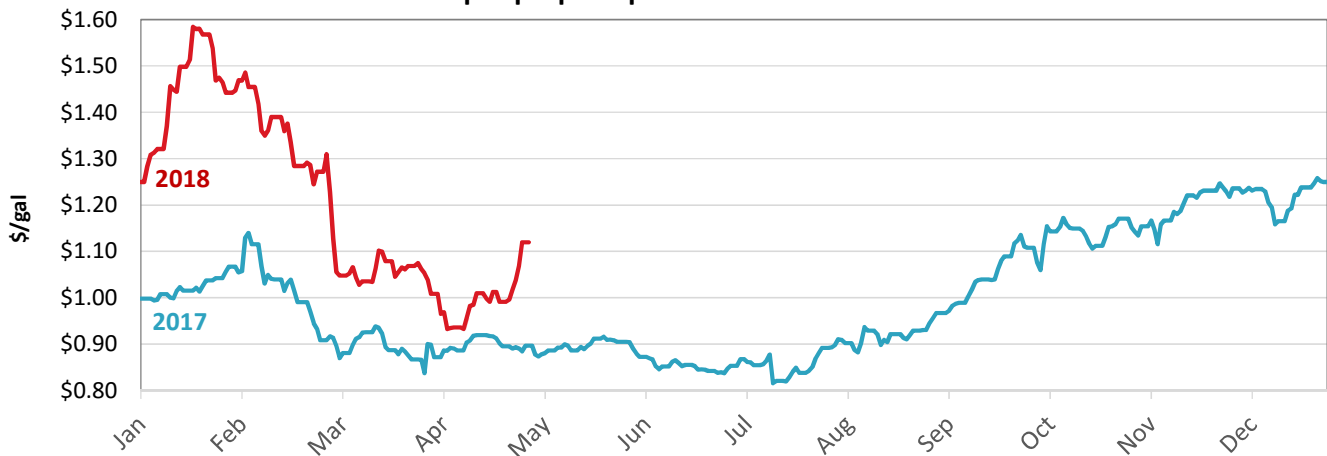
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated 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	
		4/23/18	4/24/18	4/25/18	4/26/18	4/27/18	4/28/18	4/29/18		
Power (\$/MWh)	Maine RT On Pk	24	21	22	19	24			22	
	Maine RT Off Pk	19	10	4	22	5	36	30	18	
	NH RT On Pk	24	24	23	20	24			23	
	NH RT Off Pk	20	20	5	26	7	36	31	21	
	Vermont RT On Pk	23	23	22	20	24			22	
	Vermont RT Off Pk	20	19	5	26	7	35	30	20	
	Connecticut RT On Pk	23	23	23	20	24			23	
	Connecticut RT Off Pk	20	20	5	26	7	36	31	21	
	Rhode Island RT On Pk	24	23	23	20	24			23	
	Rhode Island RT Off Pk	20	20	5	26	7	36	31	21	
	NE Mass RT On Pk	24	24	23	20	24			23	
	NE Mass RT Off Pk	20	20	6	26	7	36	31	21	
	SE Mass RT On Pk	24	24	23	20	24			23	
	SE Mass RT Off Pk	20	20	6	26	7	36	31	21	
	WC Mass RT On Pk	24	24	23	20	24			23	
	WC Mass RT Off Pk	20	20	6	26	7	36	31	21	
			New York ISO Real Time Power Pricing By Zone (\$/MWh)							Avg
		Capital RT On Pk	20	22	27	22	33			25
		Capital RT Off Pk	12	12	11	16	10	19	13	13
		Central RT On Pk	20	22	27	22	32			24
		Central RT Off Pk	11	6	11	15	9	19	12	12
		Hudson RT On Pk	21	23	28	23	35			26
		Hudson RT Off Pk	12	10	11	16	10	20	13	13
		Mohawk RT On Pk	20	21	27	22	33			24
		Mohawk RT Off Pk	11	5	10	15	9	19	12	12
		Milwood RT On Pk	21	23	28	23	35			26
		Milwood RT Off Pk	12	10	11	16	10	20	13	13
	NYC RT On Pk	26	29	32	27	36			30	
	NYC RT Off Pk	13	13	12	18	10	21	13	14	
		PJM Real Time Power Pricing By Zone (\$/MWh)							Avg	
	Eastern Hub On Pk	30	26	31	27	27			28	
	Eastern Hub Off Pk	21	19	25	21	21	21	21	22	
	Western Hub On Pk	35	32	32	31	31			32	
	Western Hub Off Pk	22	21	29	22	22	22	22	23	
	PPL Zone On Pk	28	20	30	26	26			26	
	PPL Zone Off Pk	20	16	23	20	20	20	20	20	
	AEP RT On Pk	39	44	32	32	32			36	
	AEP RT Off Pk	23	24	33	23	23	23	23	24	
	Chicago RT On Pk	36	39	28	32	32			33	
	Chicago RT Off Pk	20	23	17	22	22	22	22	21	
	New Jersey Hub On Pk	30	25	31	26	26			27	
	New Jersey Hub Off Pk	21	18	25	21	21	21	21	21	
		California ISO Real Time Power Pricing (\$/MWh)							Avg	
	SoCal Edison RT On Pk	17	15	12	32	21			19	
	SoCal Edison RT Off Pk	20	18	46	20	19	16	10	21	
		4/23/18	4/24/18	4/25/18	4/26/18	4/27/18	4/28/18	4/29/18	Avg	
Natural Gas \$/MMBtu	Henry Hub, LA	2.75	2.79	2.81	2.83	2.82			2.80	
	TZ6, MA	2.78	2.85	2.75	2.62	2.57			2.71	
	Algonquin, MA	2.76	2.78	2.72	2.58	2.64			2.70	
	Chicago Hub, IL	2.61	2.64	2.61	2.62	2.54			2.60	
	New York, NY	2.51	2.42	2.34	2.38	2.33			2.40	
	Dominion South, PA	2.46	2.40	2.33	2.34	2.39			2.38	
	Opal Hub, WY	1.96	2.06	2.01	1.92	1.79			1.95	
	PG&E Citygate, CA	2.66	2.76	2.71		2.72			2.71	