



Competitive Energy Services Weekly Market Summary

July 31 - August 4, 2017

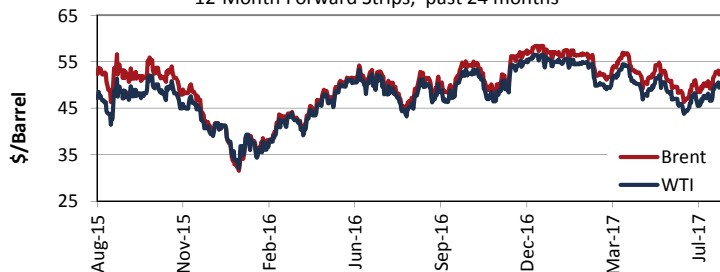
Synopsis of Last Week's Energy Markets

Crude oil prices vacillated last week. US production continues to rise, and OPEC production rose in July. On the bullish side, the trend in increasing US oil rigs appears to be slowing and OPEC and other producers are meeting this week to discuss compliance with production cuts. Natural gas prices fell last week as forecasts for mild weather across the central U.S. weakened expectations for cooling demand through mid-August. The EIA reported a lower-than-average storage injection, bringing the surplus to 3% to the 5-year average.

Oil Market

Crude Oil - WTI & Brent

12-Month Forward Strips, past 24 months

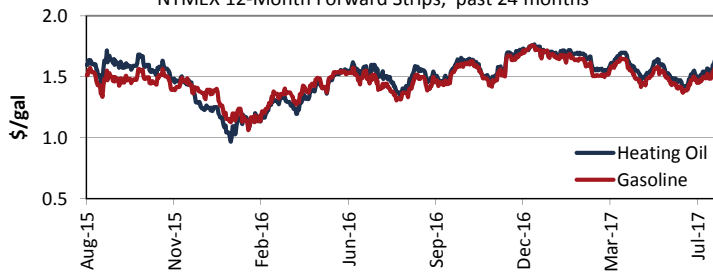


NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$50.11	\$50.07	\$56.70	\$32.40
date	8/4/17	7/28/17	1/6/17	1/20/16
change from last close		0.1%	-11.6%	55%

US STORAGE (in million bbls)	crude oil
domestic stocks as of	7/28/17
gain / loss from previous week	482
comparison to historic range	-1.5
	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	\$1.65	\$1.64	\$1.76	\$0.97
date	8/4/17	7/28/17	1/2/17	1/20/16
change from last close		0.6%	-7%	70%

US STORAGE (in million bbls)	distillate	propane	gasoline
domestic stocks as of	7/28/17		
gain / loss from previous week	149	68	228
comparison to historic range	-0.2	1.7	-2.5
	within	within	within

Natural Gas Market

NYMEX Henry Hub Futures: 12 Month Forward Strip

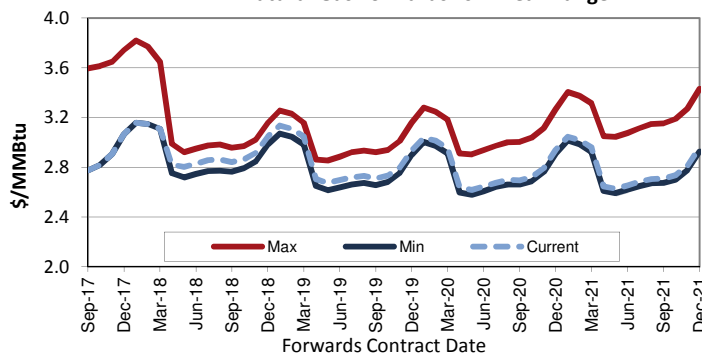


NYMEX PRICING	last close	previous week	24-month high	24-month low
12 mo. strip, \$/MMBtu	\$2.93	\$3.01	\$3.70	\$2.11
date	8/4/17	7/28/17	12/28/16	2/25/16
change from last close		-2.6%	-21%	39%

CES SCORE	
12 month	84
18 month	77
24 month	76
36 month	79

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	\$2.95	\$2.90	\$2.86

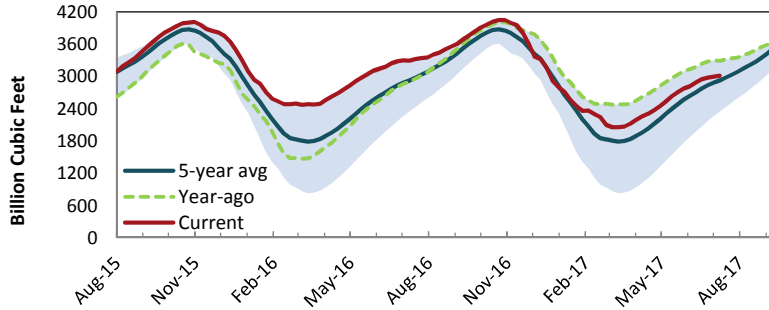
Natural gas futures are useful for both natural gas and electricity consumers because they drive electricity pricing in many U.S. markets. This chart compares the current natural gas price for each forward month on the NYMEX exchange to the highest and lowest prices for the same month over the past 12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



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Natural Gas Storage

Working Gas in Underground Storage Compared With 5-Year Range



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	7/21/17	2,990	
Most Recent Stock Level	7/28/17	3,010	
Year-ago Stock Level		3,289	-8.5%
5-Year Average Stock Level		2,923	3.0%
Most Recent Net Change	7/28/17	20	
Year-Ago Net Change		-3	
5-Year Average Net Change		44	

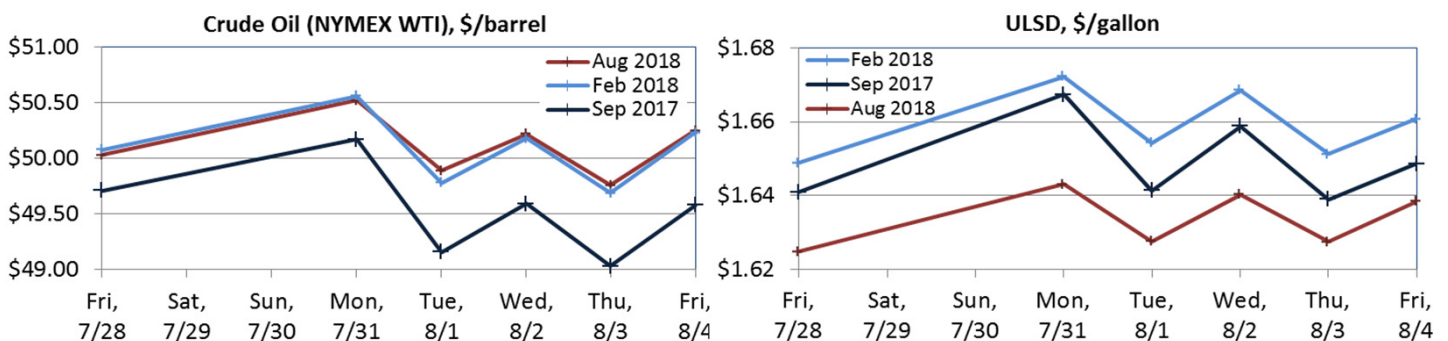
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

NYMEX Futures Summary Statistics

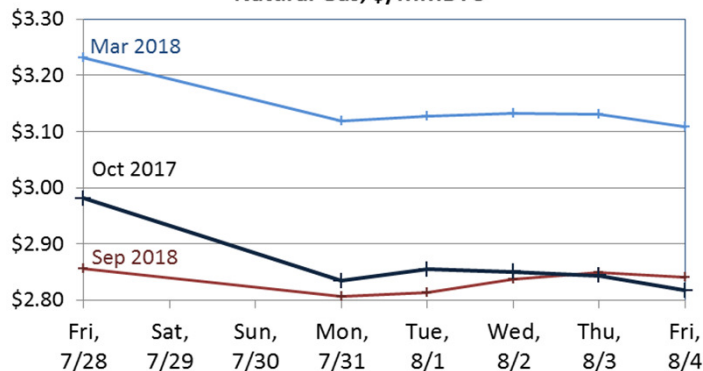
	Last Expired Contract	Exp. Date	Price	Prompt Month	Price	Most Expensive Next 12 Months	Price	Least Expensive Next 12 Months	Price	Next Winter Avg (Nov17-Mar18)
Crude oil	Aug-17	7/20/17	\$46.79	Sep-17	\$49.58	Apr-18	\$50.31	Sep-17	\$49.58	\$50.11
Heating oil	Aug-17	7/31/17	\$1.65	Sep-17	\$1.65	Jan-18	\$1.66	Jun-18	\$1.63	\$1.66
Natural gas	Aug-17	7/27/17	\$2.97	Sep-17	\$2.77	Jan-18	\$3.16	May-18	\$2.77	\$3.08

NYMEX End-of-Day Settlements



Crude oil prices see-sawed this week and prompt month WTI crested just over the \$50 mark on Monday. WTI futures are remarkably flat, with roughly a 70-cent spread between the most and least expensive contracts in the next twelve months, indicating that there is no clear trend as to which direction prices will go. A Reuters survey indicated that OPEC's July production was at the highest so far for 2017, largely attributable to Libya's exemption from the group's production cuts. OPEC is meeting August 7-8 to discuss tightening compliance with the agreement. On Friday, Baker Hughes Inc. reported that US oil rigs had declined for the second time in three weeks, boosting prices to wrap up the week.

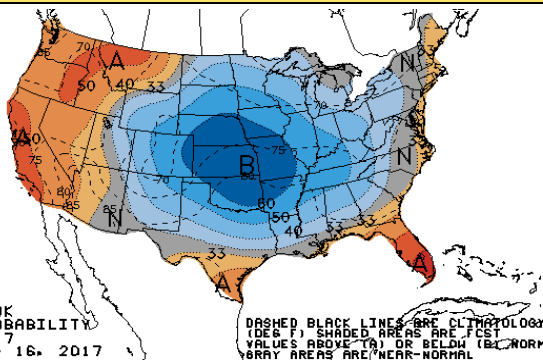
Natural Gas, \$/MMBTU



Natural gas prices slipped last week following forecasts of lower-than-average temperatures that could mute cooling demand through the first weeks of August. September futures fell 16.7 cents (6%) by the end of the week after a nearly 15-cent price drop on Monday alone. The sweltering heat forecasted for this summer has yet to sweep the country and according to the EIA, 2017 natural gas demand for generation has been 7% lower than last year thanks to this year's higher gas prices. The EIA reported a low storage injection of 20 Bcf, compared to the average of 44 Bcf, the result of power burn demand that is high relative to the past five years and rising pipeline and LNG exports.

The National Weather Service near-term forecast calls for below-normal temperatures for most of the central and eastern United States and warmer-than-normal temperatures west of the Rockies. The natural gas market scores on page 1 improved from the previous week. Clients with electricity or natural gas contracts expiring in 2017 or 2018 should consult with a CES representative for customized guidance.

National Weather Service Forecast



6 - 10 Day Forecast for August 12 - 16, 2017

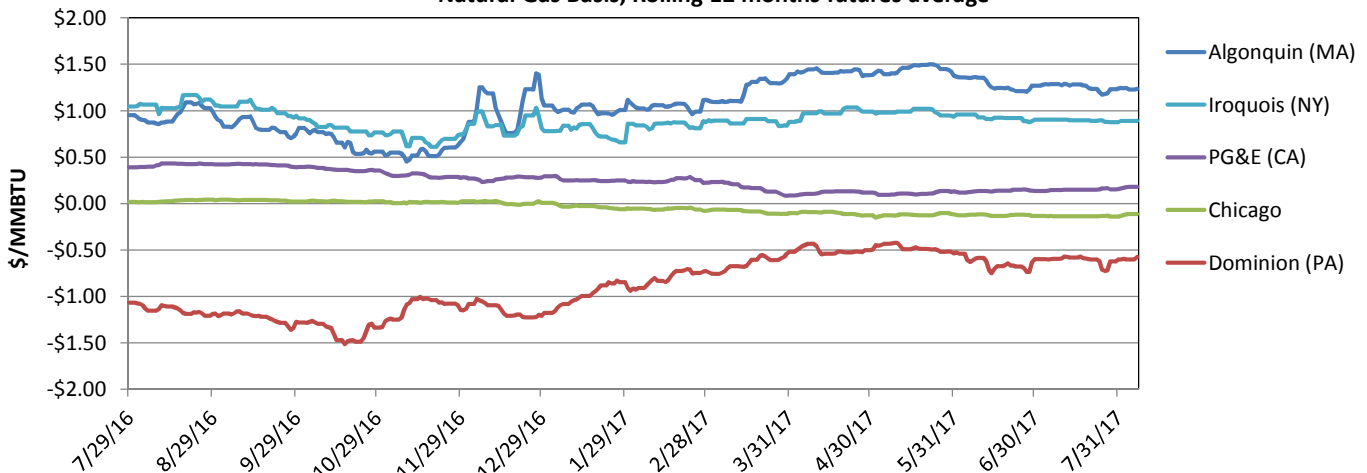
This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase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

Source: Chart from the National Weather Service Climate Prediction Center www.cpc.ncep.noaa.gov

Natural Gas Basis Futures

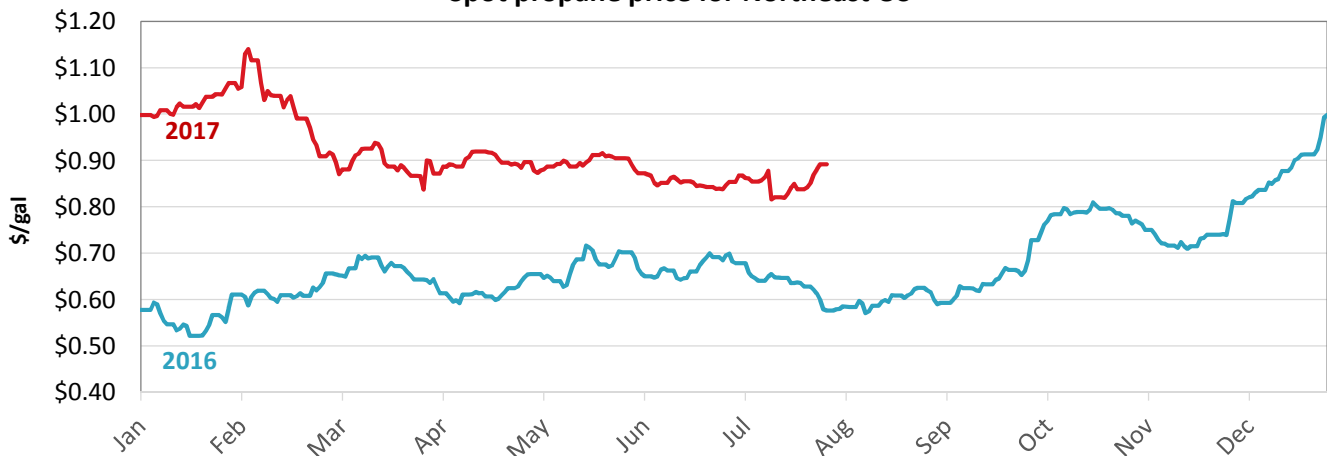
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated 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	
		7/31/17	8/1/17	8/2/17	8/3/17	8/4/17	8/5/17	8/6/17		
Power (\$/MWh)	Maine RT On Pk	42	40	27	34	54			39	
	Maine RT Off Pk	14	20	29	19	27	29	13	22	
	NH RT On Pk	42	42	28	36	55			41	
	NH RT Off Pk	15	21	30	20	27	29	12	22	
	Vermont RT On Pk	42	42	28	36	54			40	
	Vermont RT Off Pk	15	21	30	20	27	29	14	22	
	Connecticut RT On Pk	42	43	28	36	55			41	
	Connecticut RT Off Pk	15	21	30	20	28	29	14	22	
	Rhode Island RT On Pk	41	42	27	35	54			40	
	Rhode Island RT Off Pk	15	21	30	20	27	29	14	22	
	NE Mass RT On Pk	42	42	27	35	55			40	
	NE Mass RT Off Pk	15	21	30	20	27	29	14	22	
	SE Mass RT On Pk	42	42	27	35	55			40	
	SE Mass RT Off Pk	15	21	30	20	27	29	14	22	
	WC Mass RT On Pk	42	42	28	36	55			41	
	WC Mass RT Off Pk	15	21	30	20	27	29	14	22	
	New York ISO Real Time Power Pricing By Zone (\$/MWh)							Avg		
		Capital RT On Pk	43	39	27	36	38			37
		Capital RT Off Pk	17	21	24	32	24	27	17	23
		Central RT On Pk	42	37	26	27	31			33
	Central RT Off Pk	16	20	23	(27)	22	19	14	13	
	Hudson RT On Pk	44	39	28	33	37			37	
	Hudson RT Off Pk	18	21	25	12	24	25	16	20	
	Mohawk RT On Pk	43	35	26	24	32			32	
	Mohawk RT Off Pk	16	20	23	(37)	23	20	14	11	
	Milwood RT On Pk	45	40	29	33	38			37	
	Milwood RT Off Pk	18	21	25	9	24	26	16	20	
	NYC RT On Pk	45	39	29	33	39			37	
	NYC RT Off Pk	18	22	25	0	25	26	17	19	
PJM Real Time Power Pricing By Zone (\$/MWh)							Avg			
	Eastern Hub On Pk	40	34	30	34	34			34	
	Eastern Hub Off Pk	15	20	21	18	18	18	18	18	
	Western Hub On Pk	41	34	30	34	34			35	
	Western Hub Off Pk	18	20	21	18	18	18	18	19	
	PPL Zone On Pk	39	33	29	33	33			33	
	PPL Zone Off Pk	16	19	20	18	18	18	18	18	
	AEP RT On Pk	41	31	29	37	37			35	
	AEP RT Off Pk	20	20	21	19	19	19	19	19	
	Chicago RT On Pk	40	29	32	37	37			35	
	Chicago RT Off Pk	19	20	20	18	18	18	18	19	
	New Jersey Hub On Pk	40	35	30	34	34			35	
	New Jersey Hub Off Pk	15	20	21	18	18	18	18	18	
California ISO Real Time Power Pricing (\$/MWh)							Avg			
	SoCal Edison RT On Pk	33	42	53	78	38			49	
	SoCal Edison RT Off Pk	26	29	33	34	31	23	26	29	
Natural Gas \$/MMBtu		7/31/17	8/1/17	8/2/17	8/3/17	8/4/17	8/5/17	8/6/17	Avg	
	Henry Hub, LA	2.84	2.75	2.77	2.78	2.76			2.78	
	TZ6, MA	2.71	2.68	3.23	2.49	1.91			2.60	
	Algonquin, MA	2.74	2.67	3.27	2.61	1.94			2.65	
	Chicago Hub, IL	2.78	2.71	2.77	2.76	2.67			2.74	
	New York, NY	1.90	1.83	1.69	1.71	1.64			1.75	
	Dominion South, PA	1.85	1.94	1.92	1.70	1.46			1.77	
	Opal Hub, WY	2.66	2.59	2.59	2.54	2.46			2.57	
	PG&E Citygate, CA	3.25	3.20	3.25	3.25	3.18			3.23	
	Kern River Deliveries	3.11	3.18	3.26	3.07	2.87			3.10	