



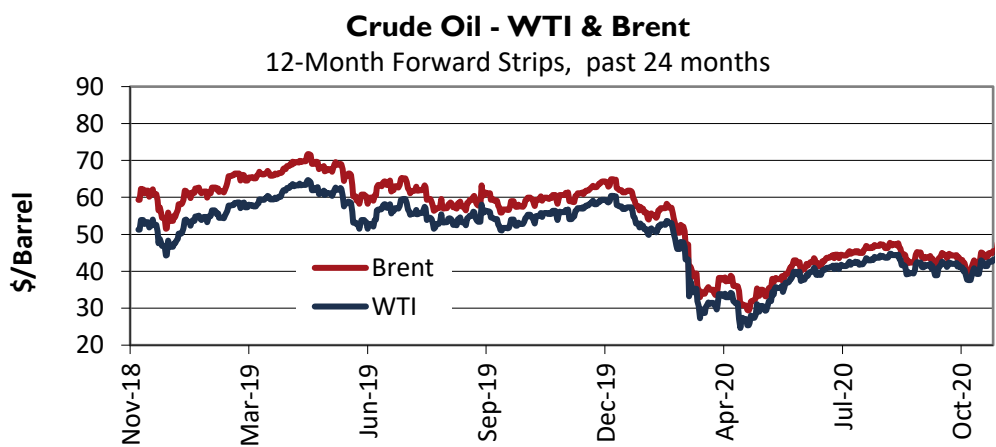
# Competitive Energy Services Weekly Market Summary

November 23 - 27, 2020

## Synopsis of Last Week's Energy Markets

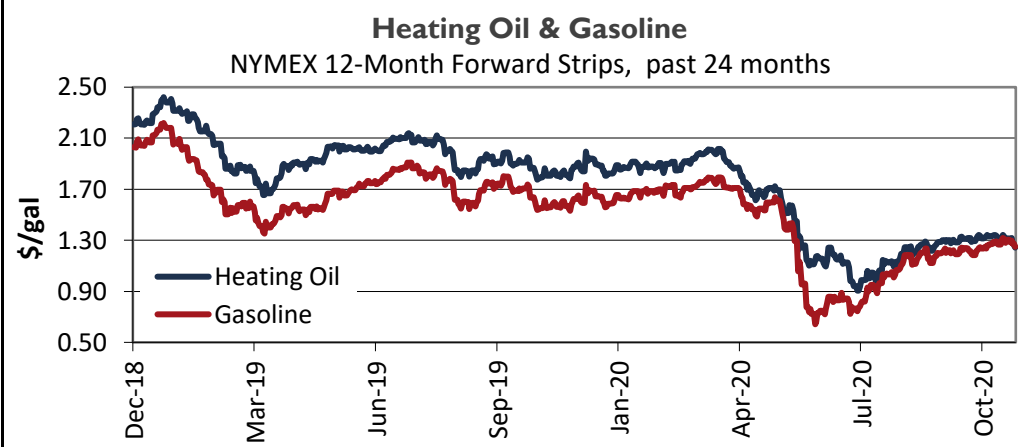
Crude oil prices ended Friday at \$45.53/barrel, an 8% increase from the week prior. Though rising coronavirus cases continue to dampen demand outlook, continued progress on three potential vaccines led to a fourth straight week of increases. A cooler national weather forecast and elevated LNG exports caused US natural gas futures to rise 7% from the previous week to settle at \$2.84/MMBtu last Friday. As of November 20, gas inventories decreased 18 Bcf week-over-week to bring total stockpiles to 3,940 Bcf.

## Oil Market



NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$43.09	\$43.04	\$64.69	\$23.66
date	11/27/20	11/20/20	4/23/19	4/21/20
change from last close		0.1%	-33.4%	82%

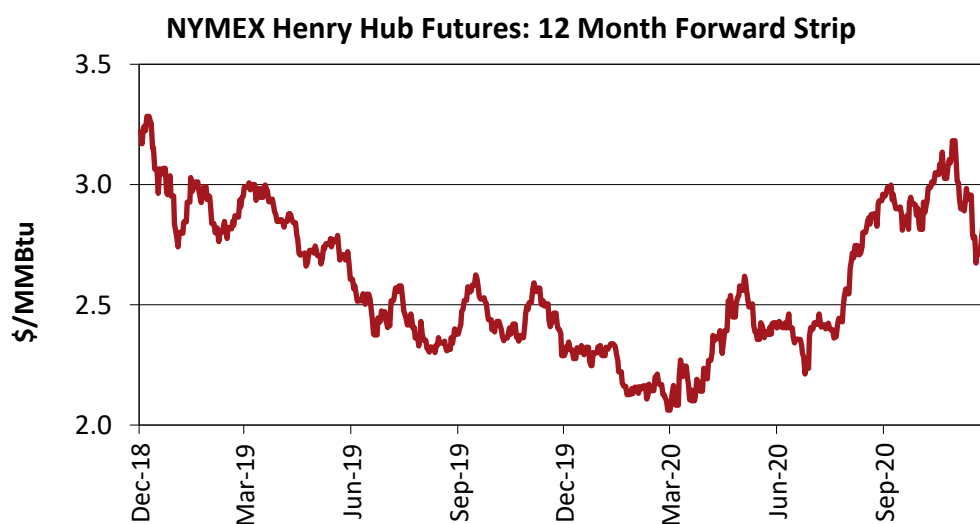
US STORAGE (in million bbls)		crude oil
domestic stocks as of	11/20/20	489
gain / loss from previous week		-0.8
comparison to historic range		outside



NYMEX Heating Oil	last close	previous week	24-month high	24-month low
12 month strip, \$/gal	\$1.32	\$1.32	\$2.14	\$0.90
date	11/27/20	11/20/20	4/23/19	4/28/20
change from last close		0.6%	-38%	47%

US STORAGE (in million bbls)		distillate	propane	gasoline
domestic stocks as of	11/20/20	143	0	230
gain / loss from previous week		-1.4	0.0	2.2
comparison to historic range		within	within	within

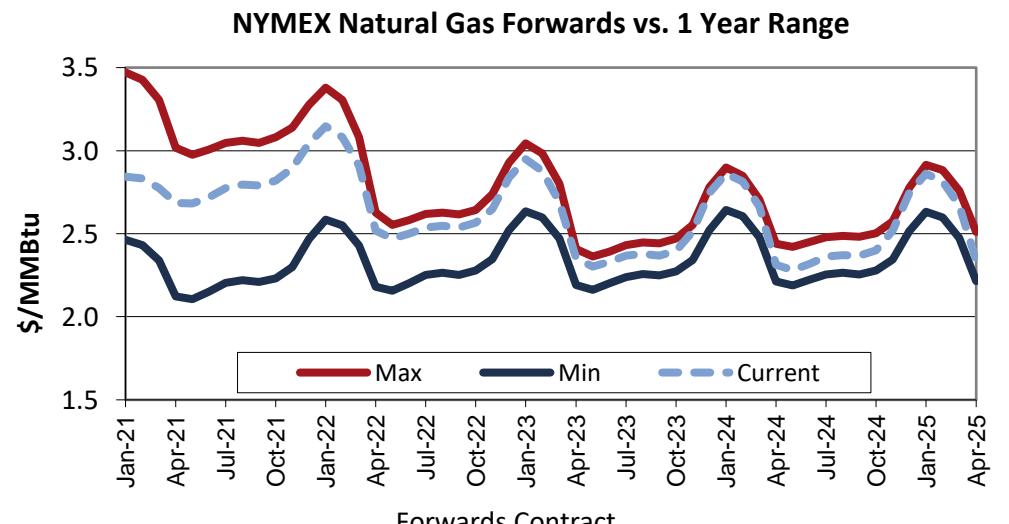
## Natural Gas Market



NYMEX PRICING	last close	previous week	24-month high	24-month low
12 mo. strip, \$/MMBtu	\$2.71	\$2.71	\$3.37	\$2.05
date	11/27/20	11/20/20	11/28/18	2/28/20
change from last close		0.1%	-20%	32%

CES SCORE	
12 month	39
18 month	34
24 month	31
36 month	30

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.



FORWARDS	12 month	18 month	24 month	36 month
strip (\$/MMBtu)	\$2.71	\$2.79	\$2.75	\$2.67

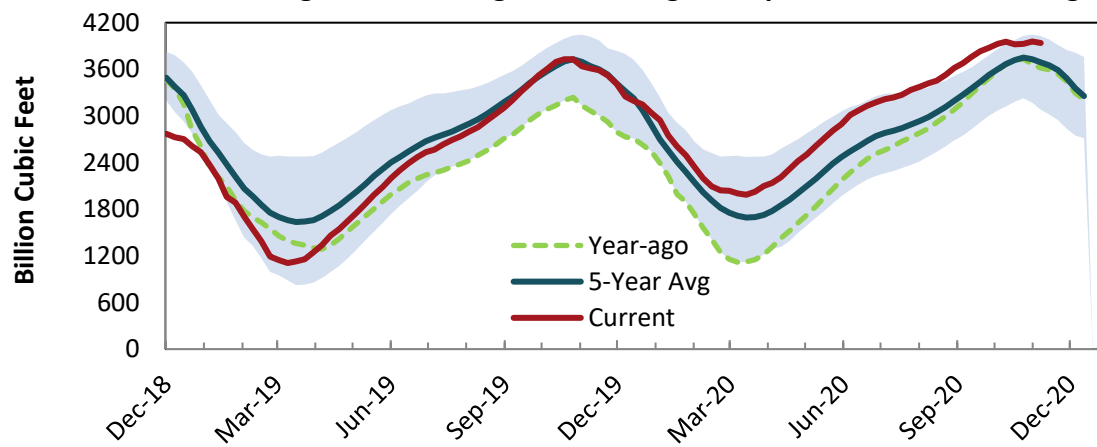
Natural gas futures are useful for both natural gas and electricity consumers because they drive electricity pricing in many U.S. markets. This chart compares the current natural gas price for each forward month on the NYMEX exchange to the highest and lowest prices for the same month over the past 12 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	11/13/20	3,958	
Most Recent Stock Level	11/20/20	3,940	
Year-ago Stock Level		3,618	8.9%
5-Year Average Stock Level		3,690	
Most Recent Net Change	11/20/20	-18	
Year-Ago Net Change		-47	
5-Year Average Net Change		-37	

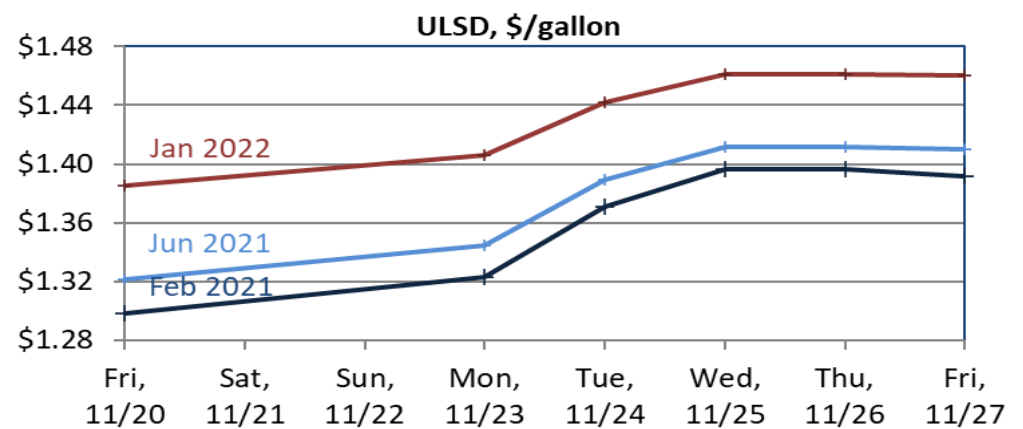
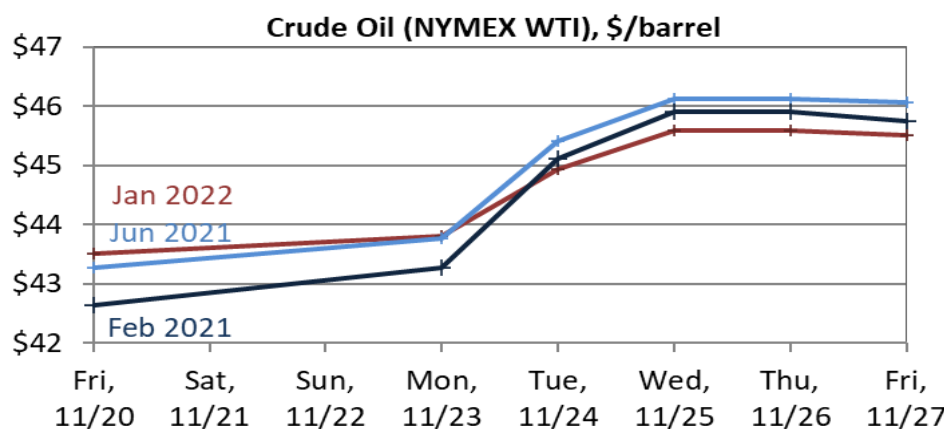
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

### Market Assessment

NYMEX Futures Summary Statistics

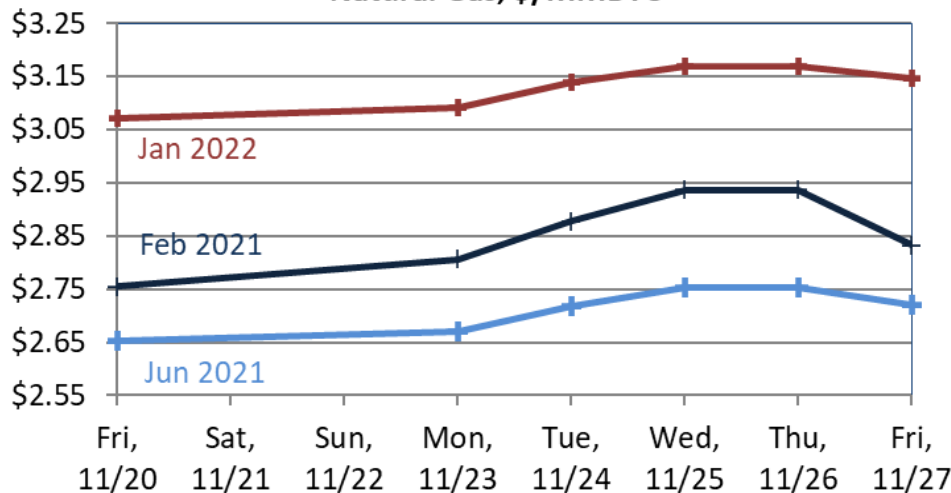
	Last Expired Contract	Exp. Date	Price	Prompt Month	Price	Most Expensive Next 12 Months	Price	Least Expensive Next 12 Months	Price	Winter Avg (Nov20-Mar21)
Crude oil	Dec-20	11/20/20	\$42.15	Jan-21	\$45.74	Jun-21	\$46.07	Jan-21	\$45.53	\$45.97
Heating oil	Dec-20	11/27/20	\$1.38	Jan-21	\$1.38	Dec-21	\$1.45	Jan-21	\$1.38	\$1.40
Natural gas	Dec-20	11/25/20	\$2.90	Jan-21	\$2.84	Dec-21	\$3.04	May-21	\$2.68	\$2.74

NYMEX End-of-Day Settlements



Crude oil prices ended Friday at \$45.53/barrel, an 8% increase from the week prior. Oil continued its climb to the highest prices seen since March due to promising developments on three different coronavirus vaccines, increasing the likelihood of demand rebounds next year. Conversely, there have been some recent concerns raised about the experimental nature of the vaccines, which kept a cap on gains. Also, weighing on the market was the impending OPEC+ panel this past weekend and the formal meetings planned for Monday and Tuesday this week. OPEC+ has been considering increasing oil outputs in January for some time, but recent tensions among OPEC members and allies about recent supply cuts led to a virtual gathering, scheduled to try and remedy these issues.

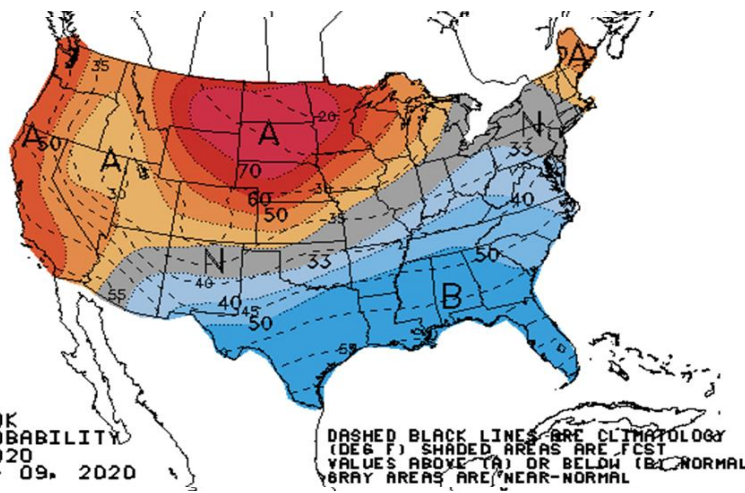
Natural Gas, \$/MMBTU



January front-month natural gas futures rose to \$2.84/MMBtu on Friday. A colder December weather outlook for the eastern and southern regions of the US is expected to increase total residential heating demand. Additionally, high gas exports to Mexico and continued strong Asian demand for LNG provided upward pressures on natural gas markets. LNG feedgas flows increased by 5% from the previous week to reach 10.4 Bcf/day last Friday, marking a 42% year-over-year increase. These high export levels could place pressure on the market if colder weather and associated national heating demand persist. As of November 20, gas inventories fell 18 Bcf week-over-week to bring total stockpiles to 3,940 Bcf.

The National Weather Service near-term forecast calls for above average temperatures across most of the Western and Central U.S. with below average temperatures in the South. The CES Market Score on page 1 decreased from the previous week. Clients with electricity or natural gas contracts expiring in 2020 should consult with a CES representative for customized guidance.

**National Weather Service Forecast**



**6 - 10 Day Forecast for Dec 5 - 9**

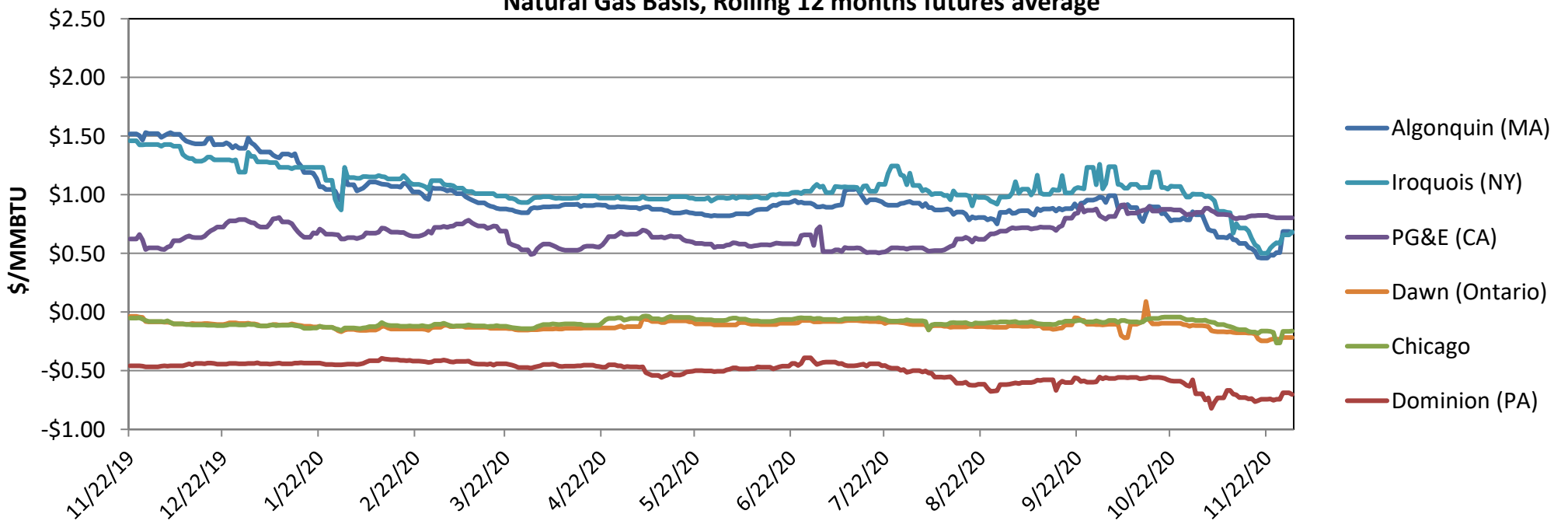
This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase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

Source: Chart from the National Weather Service Climate Prediction Center [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)

**Natural Gas Basis Futures**

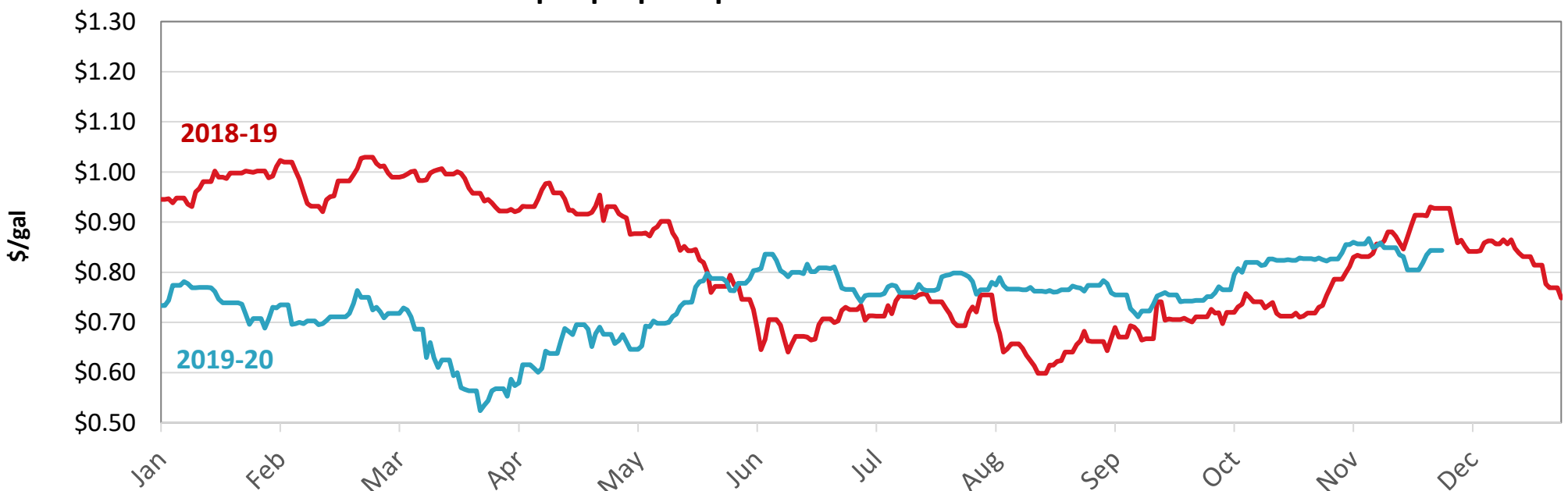
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated 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**

		<b>New England ISO Real Time Power Pricing By Zone (\$/MWh)</b>							<b>Avg</b>	
		11/23/20	11/24/20	11/25/20	11/26/20	11/27/20	11/28/20	11/29/20		
Power (\$/MWh)	Maine RT On Pk	36	25	28	16	13			24	
	Maine RT Off Pk	18	20	21	10	4	12	11	14	
	NH RT On Pk	37	26	28	17	13			24	
	NH RT Off Pk	18	22	21	10	4	12	11	14	
	Vermont RT On Pk	36	25	27	16	13			23	
	Vermont RT Off Pk	18	21	20	10	4	12	11	14	
	Connecticut RT On Pk	36	25	27	16	13			23	
	Connecticut RT Off Pk	18	22	21	10	4	12	11	14	
	Rhode Island RT On Pk	37	25	27	16	13			24	
	Rhode Island RT Off Pk	18	22	21	10	4	12	11	14	
	NE Mass RT On Pk	37	26	28	17	13			24	
	NE Mass RT Off Pk	18	22	21	10	4	13	11	14	
	SE Mass RT On Pk	37	26	28	17	13			24	
	SE Mass RT Off Pk	18	22	21	10	4	13	11	14	
	WC Mass RT On Pk	37	26	28	16	13			24	
	WC Mass RT Off Pk	18	22	21	10	4	12	11	14	
		<b>New York ISO Real Time Power Pricing By Zone (\$/MWh)</b>							<b>Avg</b>	
Power (\$/MWh)	Capital RT On Pk	34	22	26	19	17			24	
	Capital RT Off Pk	21	25	26	14	11	13	15	18	
	Central RT On Pk	24	19	19	17	17			19	
	Central RT Off Pk	13	13	10	13	10	12	14	12	
	Hudson RT On Pk	31	22	24	19	17			23	
	Hudson RT Off Pk	19	21	21	14	11	13	15	16	
	Mohawk RT On Pk	28	20	19	18	17			20	
	Mohawk RT Off Pk	12	13	10	14	10	12	14	12	
	Milwood RT On Pk	31	22	24	19	18			23	
	Milwood RT Off Pk	19	21	21	14	11	13	15	16	
	NYC RT On Pk	31	22	24	19	18			23	
	NYC RT Off Pk	19	21	21	14	11	13	15	16	
			<b>PJM Real Time Power Pricing By Zone (\$/MWh)</b>							<b>Avg</b>
	Power (\$/MWh)	Eastern Hub On Pk	18	20	20	20	20			20
		Eastern Hub Off Pk	14	16	16	16	16	12	12	14
		Western Hub On Pk	20	21	21	21	21			21
Western Hub Off Pk		15	17	17	17	17	15	15	16	
PPL Zone On Pk		18	21	21	21	21			20	
PPL Zone Off Pk		13	16	16	16	16	12	12	14	
AEP RT On Pk		23	22	22	22	22			22	
AEP RT Off Pk		16	19	19	19	19	18	18	18	
Chicago RT On Pk		22	21	21	21	21			21	
Chicago RT Off Pk		16	14	14	14	14	17	17	15	
New Jersey Hub On Pk		19	20	20	20	20			20	
New Jersey Hub Off Pk		14	16	16	16	16	12	12	14	
		<b>California ISO Real Time Power Pricing (\$/MWh)</b>							<b>Avg</b>	
Power (\$/MWh)		SoCal Edison RT On Pk	28	31	23	18	16			23
		SoCal Edison RT Off Pk	27	30	29	27	26	30	27	28
		11/23/20	11/24/20	11/25/20	11/26/20	11/27/20	11/28/20	11/29/20	<b>Avg</b>	
Natural Gas \$/MMBtu	Henry Hub, LA	2.22	2.23	2.23	2.23	2.23			2.23	
	TZ6, MA	2.15	2.15	2.15	1.80	1.80			2.01	
	Algonquin, MA	1.83	3.26	1.98	1.30	1.30			1.93	
	Chicago Hub, IL	2.16	2.24	2.25	2.44	2.44			2.31	
	New York, NY	1.68	2.09	1.55	1.29	1.29			1.58	
	Dominion South, PA	1.46	1.63	1.40	1.01	1.01			1.30	
	Opal Hub, WY	3.12	3.12	3.12	3.12	3.12			3.12	
	PG&E Citygate, CA	3.70	3.70	3.71	3.71	3.71			3.71	