

4 November 2020

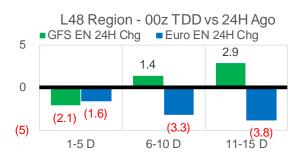
	Cu	rrent	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$	3.03	* \$ (0.03)	* \$ (0.21)

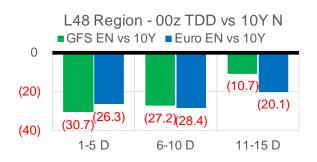
	Cı	urrent	Δ fro	m YD	Δ fron Av	
WTI Prompt	\$	38.71	\$	1.05	\$	2.2

	Cı	urrent	Δ fro	m YD	Δf	rom Avį	n 7D g
Brent Prompt	\$	40.83	\$	1.12		\$	2.6

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Price Summary





	Current	Δ from YD	Δ from 7D Avg
US Dry Production	90.5	▼ -1.10	1 .42

	Current	Δ from YD	Δ from 7D Avg		
US Power Burns	24.7	a 0.26	▼ -1.24		

	Current	Δ from YD	Δ from 7D Avg
US ResComm	18.3	▼ -4.68	▼ -7.52

	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	4.0	▼ -0.89	▼ -1.32

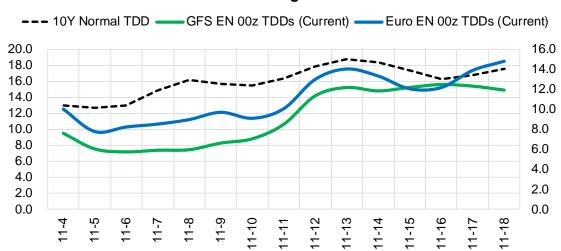
	Current	Δ from YD	Δ from 7D Avg		
Net LNG Exports	10.2	▼ -0.19	a 0.26		

	Current	Δ from YD	Δ from 7D Avg		
Mexican Exports	6.4	a 0.18	a 0.36		



Short-term Weather Model Outlooks (00z)

L48 Region





Lower 48 Component Models

Daily Balances

	29-Oct	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	DoD	vs. 7D
Lower 48 Dry Production	86.7	88.3	89.4	90.8	91.5	91.6	90.5	▼ -1.1	▲ 0.8
Canadian Imports	5.6	5.4	5.0	5.2	5.8	4.9	4.0	▼ -0.9	▼ -1.3
L48 Power	28.5	26.3	23.3	23.9	25.8	24.5	24.7	0.3	▼ -0.7
L48 Residential & Commercial	24.2	28.4	26.2	26.0	29.7	23.0	18.3	▼ -4.7	▼ -7.9
L48 Industrial	25.5	26.1	26.1	26.3	26.6	25.2	24.1	▼ -1.1	▼ -1.9
L48 Lease and Plant Fuel	4.8	4.9	4.9	5.0	5.0	5.1	5.0	▼ -0.1	0.1
L48 Pipeline Distribution	2.6	2.7	2.4	2.3	2.6	2.2	2.0	▼ -0.2	▼ -0.5
L48 Regional Gas Consumption	85.5	88.4	82.9	83.5	89.7	79.9	74.1	▼ -5.8	▼-10.9
Net LNG Delivered	9.52	9.87	10.41	10.05	10.20	10.41	10.22	▼ -0.2	▲ 0.1
Total Mexican Exports	6.4	6.1	5.8	5.8	5.7	6.2	6.4	0.2	▲ 0.4
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	-9.0	-10.6	-4.6	-3.3	-8.4	-0.1	3.8		

EIA Storage Week Balances

	25-Sep	2-Oct	9-Oct	16-Oct	23-Oct	30-Oct	WoW	vs. 4W
Lower 48 Dry Production	87.8	88.2	88.1	86.7	90.0	88.2	▼ -1.8	▼ -0.1
Canadian Imports	3.6	3.9	4.5	4.0	3.6	4.8	1.2	8.0
L48 Power	30.8	30.7	31.0	30.5	28.6	28.1	▼ -0.5	▼ -2.1
L48 Residential & Commercial	9.7	9.3	13.4	11.4	16.8	23.3	6.4	1 0.5
L48 Industrial	22.3	23.2	22.5	22.9	23.6	25.0	1.4	2.0
L48 Lease and Plant Fuel	4.8	4.8	4.8	4.8	4.9	4.8	▼ -0.1	▼ 0.0
L48 Pipeline Distribution	2.0	2.0	2.2	2.1	2.2	2.5	0.3	0.4
L48 Regional Gas Consumption	69.5	70.1	73.9	71.6	76.2	83.7	7.6	10.8
Net LNG Exports	5.8	6.8	7.5	6.9	8.0	9.2	1.2	1.9
Total Mexican Exports	6.4	6.3	6.2	6.2	6.3	6.2	▼ -0.2	▼ -0.1
Implied Daily Storage Activity	9.6	9.0	5.1	6.0	3.0	-6.2	-9.2	
EIA Reported Daily Storage Activity Daily Model Error	10.9 -1.2	10.7 -1.8	6.6 -1.5	7.0 -1.0	4.1 -1.1			
Daily Would Elloi	-1.2	-1.0	-1.5	-1.0	-1.1			

Monthly Balances									
•	2Yr Ago	LY					MTD		
	Nov-18	Nov-19	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	MoM	vs. LY
Lower 48 Dry Production	88.1	95.3	88.3	88.6	88.6	88.3	91.1	2.8	▼ -4.2
Canadian Imports	4.1	4.5	4.4	4.9	3.8	4.3	5.0	0.7	0.4
L48 Power	25.4	27.5	43.7	40.7	33.3	29.3	24.7	▼ -4.6	▼ -2.8
L48 Residential & Commercial	32.9	32.8	7.9	7.7	8.5	16.8	24.2	7.4	▼ -8.6
L48 Industrial	25.1	25.1	19.8	21.3	22.1	23.6	25.5	1.9	0.4
L48 Lease and Plant Fuel	5.0	5.3	4.9	5.0	4.9	4.9	5.0	0.2	▼ -0.2
L48 Pipeline Distribution	2.6	2.8	2.4	2.4	2.1	2.3	2.3	0.0	▼ -0.5
L48 Regional Gas Consumption	91.0	93.5	78.8	77.0	70.7	76.8	81.8	4.9	▼-11.7
Net LNG Exports	4.3	7.2	3.3	4.0	5.9	8.0	10.2	2.2	3.0
Total Mexican Exports	4.8	5.3	6.1	6.3	6.4	6.2	6.0	▼ -0.2	8.0
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	-7.8	-6.2	4.4	6.2	9.4	1.5	-2.0		

Source: Bloomberg, analytix.ai



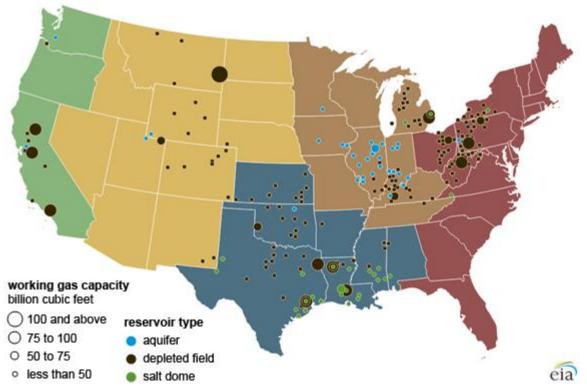
Regional S/D Models Storage Projection

Week Ending 30-Oct

1.40	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-6.5	1.6	-4.9	-34
East	-1.4	2.2	8.0	6
Midwest	-1.4	1.4	-0.1	0
Mountain	2.1	-3.2	-1.1	-8
South Central	-4.8	1.2	-3.6	-25
Pacific	-0.9	0.0	-0.9	-6

^{*}Adjustment Factor is calcuated based on historical regional deltas

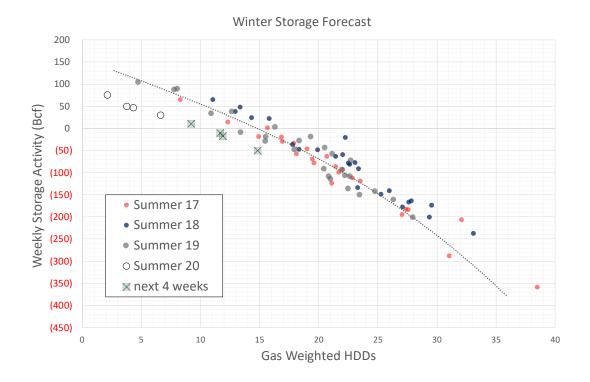
U.S. underground natural gas storage facilities by type (July 2015)





Weather Model Storage Projection

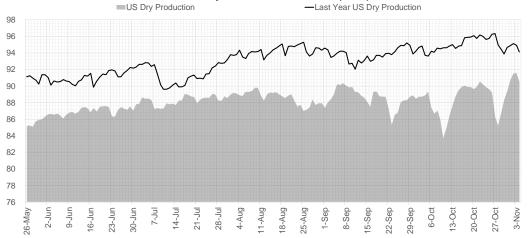
Next report and beyond		
		Week Storage
Week Ending	Temp	Projection
06-Nov	11.9	-17
13-Nov	9.2	10
20-Nov	14.8	-51



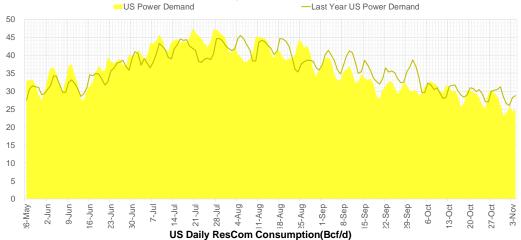


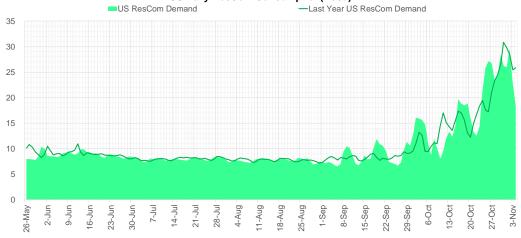
Supply - Demand Trends





US Daily Power Burns (Bcf/d)

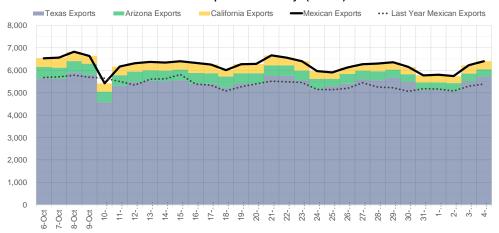


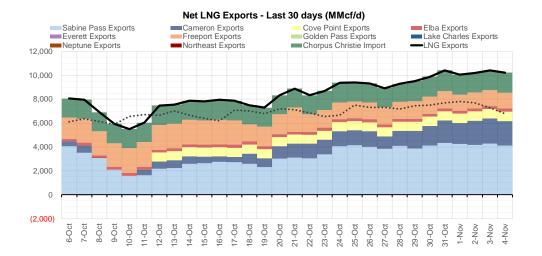


Source: Bloomberg



Mexican Exports - Last 30 days (MMcf/d)





Source: Bloomberg



Nat Gas Options Volume and Open Interest CME, ICE and Nasdaq Combined

NONTH YEAR POLICIES START YOL	CONTRACT	CONTRACT	PUT/CALL	STRIKE	CUMULATIVE	CONTRACT	CONTRACT	PUT/CALL	STRIKE	CUMULATIVE OI
1 2021 C 5.00 8270 12 2020 P 2.00 33953 12 2020 C 3.75 6308 1 2021 C 4.50 30123 12 2020 C 3.75 6308 1 2021 C 4.50 30123 12 2020 C 3.50 6308 1 2021 C 4.50 30123 12 2020 C 3.50 4642 10 2021 C 4.00 2880 12 2020 C 4.50 4391 12 2020 C 4.00 28873 12 2020 C 3.40 4228 3 2021 C 5.00 28107 1 2021 C 4.00 2880 1 2021 C 4.50 3924 3 2021 C 5.00 28107 1 2021 C 4.50 3924 3 2021 C 5.00 28107 1 2021 C 4.50 3940 1 2021 C 3.25 27862 2 2021 C 4.50 3490 1 2021 C 3.25 27863 1 2 2020 P 2.75 3480 10 2021 C 3.25 27863 1 2 2020 P 3.00 3442 4 2021 C 5.00 27122 1 2 2020 P 3.00 2768 12 2020 C 2.50 2999 1 2 2021 C 4.00 3423 4 2021 C 5.00 27122 1 2 2020 P 3.00 2768 12 2020 C 2.50 2999 1 2 2021 C 4.00 3423 4 2021 C 5.00 27122 1 2 2020 P 3.00 2768 12 2020 C 4.50 2875 1 2 2021 C 3.75 2718 3 2021 C 7.00 28768 1 2 2021 C 3.75 2718 3 2021 C 7.00 28768 1 2 2021 C 3.05 28768 1 2 2021 C 5.00 2877 1 2 2020 C 5.00 2877 1 2 2021 C 5.00 2877 1 2 2020 C 5.00 2877 1 2 2020 C 5.00 2877 1 2 2021 C 6.00 387 2718 3 2021 C 7.00 2878 1 2 2021 C 7.00 2847 4 2 2020 C 7.00 2878 1 2 2021 C 7.00 2847 4 2 2020 C 7.00 2878 1 2 2021 C 7.00 2847 4 2 2020 C 7.00 2878 1 2 2020 C 7.00 2877 1 2 2020 C 7.00 2977 1 2 2020 C 7.00 1919 1 2 2020 C 7.00 2994 1 2 2021 C 7.00 1919 1 2 2020 C 7.00 2994 1 2 2021 C 7.00 1919 1 2 2020 C 7.00 19694 1 2021 C 7.00 1235 2 2021 C 7.00 19694 1 2021 C 7.00 1919 1 2 2020 C 7.00 19694 1 2021 C 7.00 1235 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 1925 2 2021 C 7.00 19694 1 2021 C 7.00 19694 1 2021 C 7.00 19694 1 2022 C 7.00 19694 1 2022 C 7.00 1974 1 2022 C 7.00 1974 1 2022 C 7.00 1	MONTH	YEAR	FUI/CALL	STRIKE	VOL	MONTH	YEAR	FUT/CALL	STRIKE	COMOLATIVE OF
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12	12	2020		2.50	5716	3	2021		3.25	29811
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Source: CME, ICE



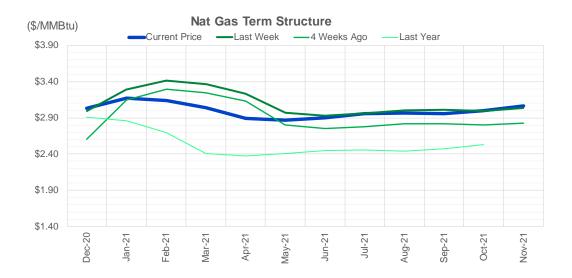
Nat Gas Futures Open Interest

CME, and ICE Combined

CIVIE, AND ICE COMBINED									
CME Henry H	lub Futures (10,	000 MMBtu)	ICE Henry Hub	Futures Cont	ract Equivaler	it (10,000 MMBtu)			
	Current	Prior	Daily Change	FOR JUNE 26	Current	Prior	Daily Change		
DEC 20	165360	167043	-1683	DEC 20	81079	82874	-1795		
JAN 21	210163	207461	2702	JAN 21	93850	91311	2539		
FEB 21	87895	87022	873	FEB 21	64971	65024	-53.25		
MAR 21	138574	134331	4243	MAR 21	93128	91163	1965.75		
APR 21	76215	76477	-262	APR 21	68006	67932	73.75		
MAY 21	54808	53264	1544	MAY 21	70829	68307	2522.75		
JUN 21	32958	34803	-1845	JUN 21	57960	57696	264		
JUL 21	28696	28015	681	JUL 21	60196	60005	191.5		
AUG 21	28705	29302	-597	AUG 21	64135	63378	756.5		
SEP 21	39177	40597	-1420	SEP 21	58167	57988	179		
OCT 21	94137	96261	-2124	OCT 21	67797	66876	920.5		
NOV 21	34620	34279	341	NOV 21	53784	52937	847		
DEC 21	30434	30010	424	DEC 21	47916	47744	172		
JAN 22	32394	31831	563	JAN 22	45752	45298	453.75		
FEB 22	22592	21756	836	FEB 22	36977	36856	121		
MAR 22	22694	23510	-816	MAR 22	39972	39656	315.75		
APR 22	23992	23984	8	APR 22	40672	40567	105.25		
MAY 22	10282	10193	89	MAY 22	29709	29714	-5		
JUN 22	5358	5315	43	JUN 22	28930	28877	52.75		
JUL 22	4636	4595	41	JUL 22	30552	30598	-45.5		
AUG 22	3551	3533	18	AUG 22	28804	28827	-22.5		
SEP 22	3399	3396	3	SEP 22	28719	28703	15.25		
OCT 22	4686	4575	111	OCT 22	32947	32729	218		
NOV 22	4101	3821	280	NOV 22	28784	28747	37		
DEC 22	4541	4483	58	DEC 22	31057	31003	54.25		
JAN 23	4300	4311	-11	JAN 23	14948	14820	128.5		
FEB 23	1036	1024	12	FEB 23	13840	13843	-3.25		
MAR 23	2311	2310	1	MAR 23	13897	13899	-2.25		
APR 23	1542	1542	0	APR 23	12938	12926	11.5		
MAY 23	441	441	0	MAY 23	11435	11447	-12		







	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Current Price	\$3.031	\$3.172	\$3.135	\$3.037	\$2.892	\$2.864	\$2.904	\$2.955	\$2.968	\$2.955	\$2.995	\$3.066
Last Week	\$2.996	\$3.291	\$3.411	\$3.363	\$3.236	\$2.970	\$2.929	\$2.960	\$3.000	\$3.011	\$2.999	\$3.034
vs. Last Week	\$0.035	-\$0.119	-\$0.276	-\$0.326	-\$0.344	-\$0.106	-\$0.025	-\$0.005	-\$0.032	-\$0.056	-\$0.004	\$0.032
4 Weeks Ago	\$2.606	\$3.149	\$3.294	\$3.248	\$3.130	\$2.804	\$2.752	\$2.779	\$2.815	\$2.820	\$2.804	\$2.830
vs. 4 Weeks Ago	\$0.425	\$0.023	-\$0.159	-\$0.211	-\$0.238	\$0.060	\$0.152	\$0.176	\$0.153	\$0.135	\$0.191	\$0.236
Last Year	\$2.828	\$2.907	\$2.858	\$2.696	\$2.407	\$2.371	\$2.407	\$2.447	\$2.453	\$2.438	\$2.469	\$2.527
vs. Last Year	\$0.203	\$0.265	\$0.277	\$0.341	\$0.485	\$0.493	\$0.497	\$0.508	\$0.515	\$0.517	\$0.526	\$0.539

		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	1.90	3.28	1.38
TETCO M3	\$/MMBtu	0.95	2.06	1.11
FGT Zone 3	\$/MMBtu	1.19	3.01	1.82
Zone 6 NY	\$/MMBtu	1.19	2.10	0.91
Chicago Citygate	\$/MMBtu	2.64	2.87	0.23
Michcon	\$/MMBtu	2.68	2.67	-0.01
Columbia TCO Pool	\$/MMBtu	1.57	2.23	0.66
Ventura	\$/MMBtu	2.88	2.91	0.03
Rockies/Opal	\$/MMBtu	2.95	2.75	-0.20
El Paso Permian Basin	\$/MMBtu	2.38	1.76	-0.63
Socal Citygate	\$/MMBtu	3.47	3.32	-0.15
Malin	\$/MMBtu	3.27	3.27	0.00
Houston Ship Channel	\$/MMBtu	2.87	2.95	0.08
Henry Hub Cash	\$/MMBtu	2.84	2.75	-0.09
AECO Cash	C\$/GJ	2.37	2.32	-0.05
Station2 Cash	C\$/GJ	2.21	3.70	1.49
Dawn Cash	C\$/GJ	2.68	2.76	0.08

Source: CME, Bloomberg



					VS	s. 4 Weeks		
	Units	Current Price	vs.	Last Week		Ago	V	s. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.28		0.161		0.210		0.194
NatGas Mar/Apr	\$/MMBtu	-0.145		0.121		-0.471		-0.435
NatGas Oct/Nov	\$/MMBtu	0.90		0.000		0.390		0.837
NatGas Oct/Jan	\$/MMBtu	1.07		-0.239		-0.122		0.738
WTI Crude	\$/Bbl	38.71		1.320		-1.240		-17.640
Brent Crude	\$/Bbl	40.83		1.710		-1.160		-20.910
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03		0.000		0.000		0.000
Heating Oil	cents/Gallon	115.33		3.910		-0.750		-77.450
Propane, Mt. Bel	cents/Gallon	0.55		0.030		0.043		0.044
Ethane, Mt. Bel	cents/Gallon	0.22		0.006		0.018		0.016
Coal, PRB	\$/MTon	12.30		0.000		0.000		0.050
Coal, ILB	\$/MTon	31.05		0.000		0.000		-4.500