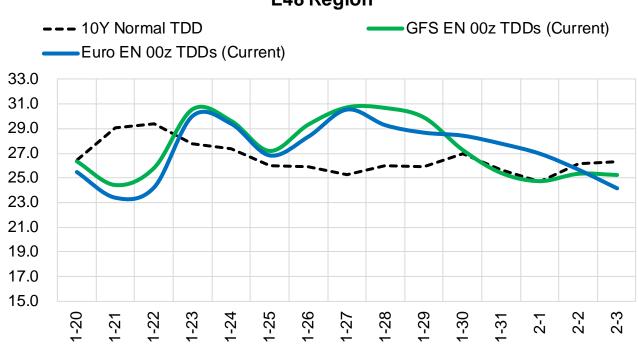


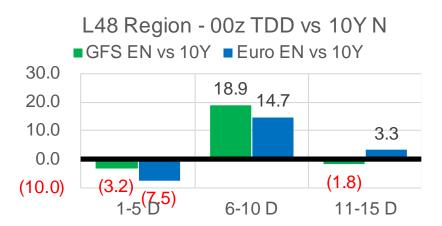


Short-term Weather Model Outlooks (00z)



L48 Region

Vs. 10Y Normal



Source: WSI, Bloomberg

Market Report

20 January 2021

Daily Balances

	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	DoD	vs.7D
Lower 48 Dry Production	90.3	90.1	90.6	90.7	90.9	90.9	90.9	▼ 0.0	0.3
Canadian Imports	5.8	5.5	5.8	5.8	5.9	6.0	6.2	0.2	▲ 0.4
L48 Power	27.0	26.6	26.2	25.6	26.4	26.0	27.1	A 1.1	a 0.8
L48 Residential & Commercial	37.0	38.0	39.9	39.5	40.9	41.2	43.1	A 1.9	3 .7
L48 Industrial	24.4	24.6	24.8	24.7	24.6	24.5	24.6	A 0.1	▼ 0.0
L48 Lease and Plant Fuel	5.0	5.0	5.0	5.0	5.0	5.0	5.0	▼ 0.0	0 .0
L48 Pipeline Distribution	2.9	2.9	3.0	3.0	3.1	3.0	3.2	A 0.1	a 0.2
L48 Regional Gas Consumption	96.3	97.1	98.8	97.8	100.0	99.7	103.0	A 3.3	4.7
Net LNG Delivered	10.87	11.10	10.87	10.86	11.05	10.76	10.15	— -0.6	T -0.8
Total Mexican Exports	6.3	6.3	5.9	5.9	6.2	6.5	6.4	-0.1	0.2
Implied Daily Storage Activity EIA Reported Daily Storage Activity	-17.3	-19.0	-19.3	-17.9	-20.4	-20.1	-22.5		

Lower 48 Component Models

Daily Model Error

EIA Storage Week Balances

	11-Dec	18-Dec	25-Dec	1-Jan	8-Jan	15-Jan	WoW	vs. 4W
Lower 48 Dry Production	90.8	90.9	91.5	91.7	91.7	90.4	▼ -1.2	▼-1.0
Canadian Imports	5.9	5.8	5.8	5.8	6.1	6.2	0.1	0.3
L48 Power	27.9	28.3	26.5	26.3	27.4	29.6	A 2.2	2 .5
L48 Residential & Commercial	36.3	40.0	38.8	41.9	39.9	43.7	3.8	A 3.5
L48 Industrial	24.8	25.6	24.8	24.0	25.4	25.4	▼ 0.0	a 0.4
L48 Lease and Plant Fuel	5.0	5.0	5.1	5.1	5.1	5.0	T -0.1	T -0.1
L48 Pipeline Distribution	2.9	3.1	3.0	3.1	3.0	3.3	0.3	a 0.3
L48 Regional Gas Consumption	97.0	102.0	98.2	100.4	100.8	107.0	6.2	6.6
Net LNG Exports	11.3	10.9	10.8	11.0	10.9	10.6	T -0.3	▼ -0.3
Total Mexican Exports	6.3	6.2	5.8	5.5	6.0	6.2	0.2	0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity	-17.9 -17.4	-22.5 -21.7	-17.5 -16.3	-19.3 -18.6	-19.8 -19.1	-27.1	-7.3	
Daily Model Error	-0.5	-0.7	-1.2	-0.7	-0.7			

Monthly Balances

-	2Yr Ago	LY					MTD		
	Jan-19	Jan-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	МоМ	vs. LY
Lower 48 Dry Production	87.2	94.0	88.1	87.5	90.4	91.2	90.9	-0.3	▼ -3.1
Canadian Imports	5.9	4.8	3.8	4.3	4.6	5.8	6.1	0.3	1.2
L48 Power	27.2	30.0	34.3	30.6	24.8	27.4	27.8	a 0.4	▼ -2.1
L48 Residential & Commercial	48.0	41.1	8.8	14.4	22.8	39.2	41.4	A 2.2	a 0.3
L48 Industrial	24.1	24.6	19.2	22.7	24.4	24.9	25.2	a 0.2	0.6
L48 Lease and Plant Fuel	4.9	5.2	4.9	4.9	5.0	5.1	5.0	▼ 0.0	V -0.2
L48 Pipeline Distribution	3.4	3.2	2.2	2.3	2.2	3.0	3.1	0 .1	T -0.1
L48 Regional Gas Consumption	107.6	104.1	69.4	74.9	79.2	99.6	102.6	3.0	▼-1.6
Net LNG Exports	4.1	8.4	6.0	8.0	10.1	11.0	10.8	T -0.2	2.4
Total Mexican Exports	5.0	5.2	6.4	6.2	6.2	6.0	6.1	0.1	0.9
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	-23.6	-18.9	10.1	2.6	-0.6	-19.5	-22.4		

Source: Bloomberg, analytix.ai

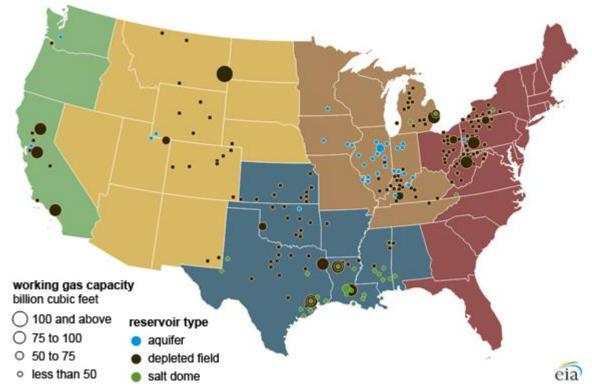


Regional S/D Models Storage Projection

Week Ending	15-Jan			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
L48	-27.4	1.2	-26.2	-183
East	-8.3	1.3	-7.0	-49
Midwest	-7.5	0.6	-6.9	-48
Mountain	2.0	-3.5	-1.5	-11
South Central	-13.3	3.2	-10.1	-71
Pacific	-0.3	-0.3	-0.6	-4

*Adjustment Factor is calcuated based on historical regional deltas

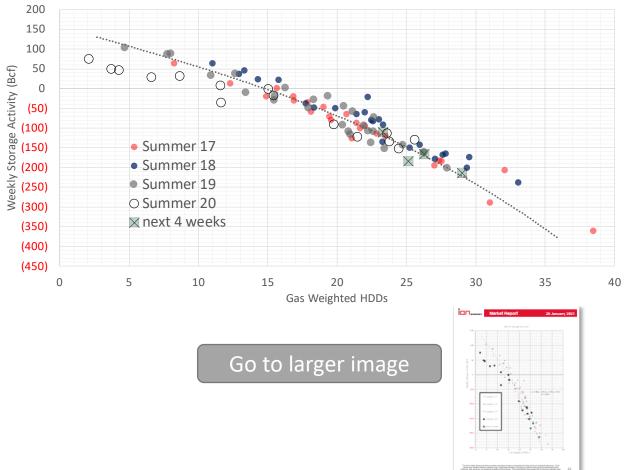
U.S. underground natural gas storage facilities by type (July 2015)

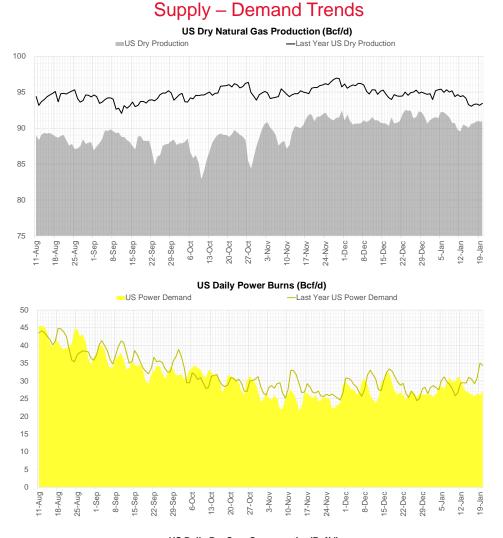


Weather Model Storage Projection

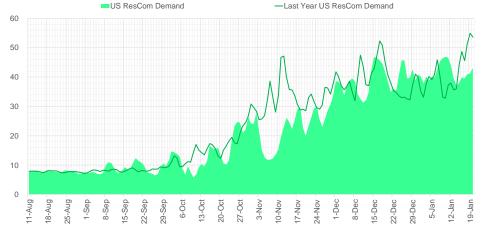
Next report and beyond		
Week Ending	Temp	Week Storage Projection
15-Jan	25.2	-183
22-Jan	23.3	-110
29-Jan	29.0	-214
05-Feb	26.3	-167

Winter Storage Forecast



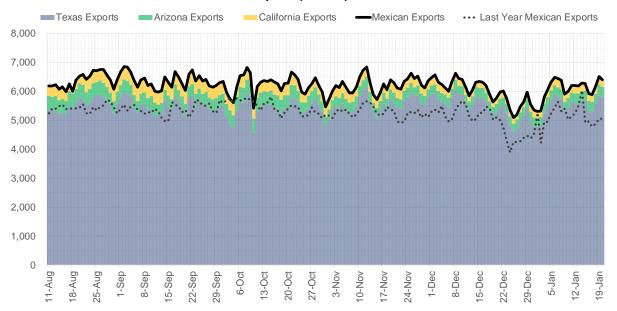


US Daily ResCom Consumption(Bcf/d)

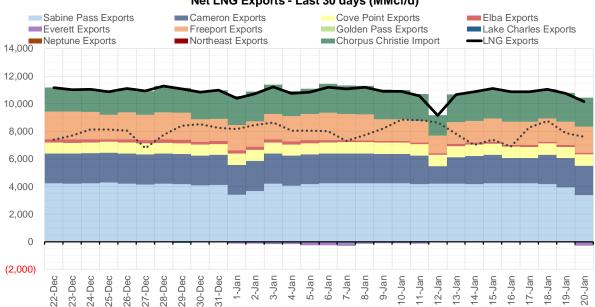


Source: Bloomberg





Mexican Exports (MMcf/d)



Net LNG Exports - Last 30 days (MMcf/d)

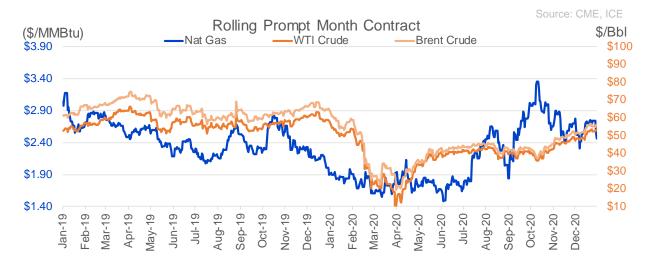


Nat Gas Options Volume and Open Interest CME, ICE and Nasdaq Combined

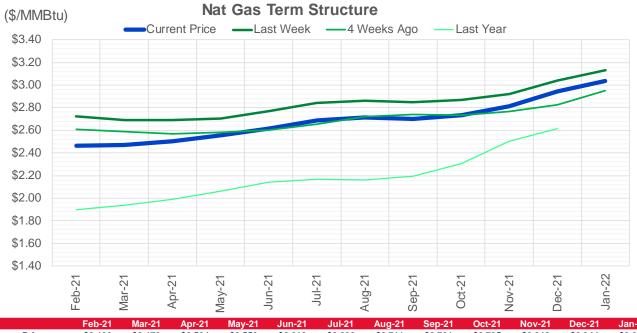
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
3	2021	С	3.25	11948	 3	2021	С	3.50	52578
4	2021	P	2.00	8655	4	2021	С	3.00	46029
3	2021	C	3.50	6488	3	2021	Р	2.00	42095
2	2021	P	2.50	6318	3	2021	С	4.00	39920
3	2021	P	2.25	6304	3	2021	С	3.25	39311
4	2021	C	3.50	6091	4	2021	С	4.00	34575
4	2021	c	3.00	5768	3	2021	C	5.00	32179
4	2021	P	2.25	4886	2	2021	С	4.00	31928
2	2021	C	3.00	4729	2	2021	С	3.00	31252
3	2021	c	3.00	4578	3	2021	С	3.00	29641
5	2021	c	2.90	3005	10	2021	C	4.00	29066
3	2021	P	2.50	2826	3	2021	С	4.50	26502
2	2021	F C	2.50	2522	2	2021	P	2.25	25357
5	2021	c			4	2021	С	3.50	25333
5	2021	P	3.50 2.30	2501 2490	10	2021	C	3.25	25083
					3	2021	č	6.00	24814
2	2021	С	2.80	2445	2	2021	P	2.50	24813
2	2021	Р	2.60	2375	3	2021	P	2.50	24513
2	2021	P	2.25	2227	8	2021	C	4.00	22135
3	2021	С	2.75	2200	4	2021	P	2.00	21738
4	2021	С	3.25	1646	3	2021	C	7.00	21565
5	2021	С	2.70	1511	2	2021	č	3.50	20999
9	2021	С	3.75	1500	2	2021	P	2.00	19931
10	2021	С	3.50	1375	4	2021	P	2.25	19727
2	2021	С	2.70	1163	10	2021	C	5.00	19710
3	2021	Р	2.00	1162	5	2021	c	3.00	19385
4	2021	С	3.75	1122	8	2021	P	2.25	19067
2	2021	Р	2.20	1121	4	2021	C	5.00	18789
7	2021	С	3.75	1110	4	2021	č	2.75	18334
2	2021	С	2.95	1101	2	2021	c	3.25	18270
6	2021	С	3.50	1101	6	2021	c	4.00	18216
7	2021	С	3.50	1100	10	2021	P	2.00	17992
8	2021	С	3.50	1100	5	2021	C	3.50	17660
2	2021	С	2.60	1096	2	2021	c	5.00	17294
2	2021	Р	2.55	1095	7	2021	c	4.00	17155
4	2021	С	2.70	1089	5	2021	P	2.00	16747
2	2021	С	3.25	1076	4	2021	C	3.25	16530
2	2021	Р	2.40	1054	5	2021	c	3.25	16186
6	2021	Р	2.00	1045	3	2021	P	2.25	15990
5	2021	С	3.75	1020	4	2021	P	2.50	15955
3	2021	C	2.70	1006	4	2021	C	2.50	15222
6	2021	C	3.75	1003	2	2021	c	4.50	15199
8	2021	c	3.75	1000	8	2021	P	2.00	15015
9	2021	č	3.50	1000	10	2021	C	3.00	14930
10	2021	č	3.75	1000	12	2021	C	4.00	14550
10	2021	c	4.15	1000	5	2021	c	4.00	14722
11	2021	c	4.15	1000	5 10	2021	P	4.00 2.50	14251
3	2022	c	5.00	1000	4	2021	F C	3.00	14174
3	2022	P	2.30	866	4 10	2022	c	3.50	13863
4	2021	F C	2.30	850	5	2021	P		13574
7	2021	C	2.00	000	5	2021	Source	: CME, ICE	13074

Nat Gas Futures Open Interest	
CME, and ICE Combined	

CME Henry I	Hub Futures (1				Futures Co		lent (10,000 MM				
	Current	Prior	Daily Change	FOR JUNE 26	Current	Prior	Daily Change				
FEB 21	59306	78996	-19690	FEB 21	79247	79042	205				
MAR 21	323340	299759	23581	MAR 21	97521	95239	2282				
APR 21	113381	106266	7115	APR 21	85630	84882	748				
MAY 21	75636	72534	3102	MAY 21	79744	79698	46				
JUN 21	44090	44375	-285	JUN 21	65375	65070	305				
JUL 21	43274	41918	1356	JUL 21	66573	66323	250				
AUG 21	30058	30070	-12	AUG 21	67281	67200	82				
SEP 21	47727	49039	-1312	SEP 21	63418	63431	-13				
OCT 21	108178	110797	-2619	OCT 21	83217	83107	110				
NOV 21	41277	39956	1321	NOV 21	51457	51402	55				
DEC 21	41425	39582	1843	DEC 21	53658	53497	161				
JAN 22	49816	48591	1225	JAN 22	53757	52751	1006				
FEB 22	25242	24746	496	FEB 22	38816	38659	157				
MAR 22	27166	26787	379	MAR 22	41135	40954	181				
APR 22	30633	30920	-287	APR 22	39522	39484	38				
MAY 22	13280	13516	-236	MAY 22	34734	34726	8				
JUN 22	8332	8153	179	JUN 22	33044	33052	-8				
JUL 22	6286	6320	-34	JUL 22	33352	33384	-32				
AUG 22	5934	5971	-37	AUG 22	32264	32291	-27				
SEP 22	5939	5953	-14	SEP 22	33069	33076	-8				
OCT 22	10893	11066	-173	OCT 22	36460	36472	-13				
NOV 22	6340	6229	111	NOV 22	30374	30359	15				
DEC 22	7344	6599	745	DEC 22	32678	32614	63				
JAN 23	4953	4825	128	JAN 23	17020	16962	58				
FEB 23	1486	1486	0	FEB 23	15824	15763	62				
MAR 23	2484	2484	0	MAR 23	15750	15699	51				
APR 23	3849	3940	-91	APR 23	14475	14463	12				
MAY 23	2150	2050	100	MAY 23	13676	13664	12				
JUN 23	736	736	0	JUN 23	13393	13390	3				
JUL 23	809	809	0	JUL 23	13083	13081	3				



Market Report



	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22
Current Price	\$2.466	\$2.470	\$2.504	\$2.553	\$2.618	\$2.690	\$2.711	\$2.701	\$2.735	\$2.813	\$2.944	\$3.037
Last Week	\$2.727	\$2.689	\$2.688	\$2.707	\$2.770	\$2.843	\$2.860	\$2.848	\$2.868	\$2.922	\$3.043	\$3.129
vs. Last Week	-\$0.261	-\$0.219	-\$0.184	-\$0.154	-\$0.152	-\$0.153	-\$0.149	-\$0.147	-\$0.133	-\$0.109	-\$0.099	-\$0.092
4 Weeks Ago	\$2.608	\$2.588	\$2.571	\$2.585	\$2.602	\$2.654	\$2.718	\$2.742	\$2.735	\$2.764	\$2.827	\$2.951
vs. 4 Weeks Ago	-\$0.142	-\$0.118	-\$0.067	-\$0.032	\$0.016	\$0.036	-\$0.007	-\$0.041	\$0.000	\$0.049	\$0.117	\$0.086
Last Year	\$1.905	\$1.900	\$1.935	\$1.992	\$2.063	\$2.138	\$2.166	\$2.161	\$2.194	\$2.305	\$2.505	\$2.612
vs. Last Year	\$0.561	\$0.570	\$0.569	\$0.561	\$0.555	\$0.552	\$0.545	\$0.540	\$0.541	\$0.508	\$0.439	\$0.425

		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	4.51	6.03	1.52
TETCO M3	\$/MMBtu	2.67	3.67	1.00
FGT Zone 3	\$/MMBtu	2.82	2.77	-0.05
Zone 6 NY	\$/MMBtu	2.82	4.24	1.42
Chicago Citygate	\$/MMBtu	2.44	2.78	0.34
Michcon	\$/MMBtu	2.43	2.61	0.18
Columbia TCO Pool	\$/MMBtu	2.37	2.42	0.05
Ventura	\$/MMBtu	2.40	3.06	0.66
Rockies/Opal	\$/MMBtu	2.68	2.68	0.00
El Paso Permian Basin	\$/MMBtu	2.39	2.60	0.21
Socal Citygate	\$/MMBtu	3.20	3.23	0.02
Malin	\$/MMBtu	2.64	3.20	0.56
Houston Ship Channel	\$/MMBtu	2.58	2.74	0.16
Henry Hub Cash	\$/MMBtu	2.80	2.61	-0.18
AECO Cash	C\$/GJ	2.13	2.35	0.22
Station2 Cash	C\$/GJ	2.04	3.22	1.18
Dawn Cash	C\$/GJ	2.45	2.67	0.22

Source: CME, Bloomberg

20 January 2021



		vs. 4 Weeks						
	Units	Current Price	vs. L	ast Week		Ago	vs	. Last Year
NatGas Jan21/Apr21	\$/MMBtu	0.037	-(0.184		0.060		0.382
NatGas Mar21/Apr21	\$/MMBtu	0.034	🔺 (0.035		0.048		-0.182
NatGas Oct21/Nov21	\$/MMBtu	0.078	(0.024		0.015		0.014
NatGas Apr21/Oct21	\$/MMBtu	0.231	(0.632		0.387		-0.049
WTI Crude	\$/Bbl	53.59	(0.680		5.470		-3.150
Brent Crude	\$/Bbl	56.36	(0.300		5.160		-6.850
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	(0.000		0.000		0.000
Heating Oil	cents/Gallon	160.34	(0.450		10.590		-19.680
Propane, Mt. Bel	cents/Gallon	0.88	-(0.014		0.239		0.449
Ethane, Mt. Bel	cents/Gallon	0.23	-(0.003		0.032		0.084
Coal, PRB	\$/MTon	12.30	۸ (0.000		0.000		0.050
Coal, PRB	\$/MMBtu	0.70						
Coal, ILB	\$/MTon	31.05	🔺 (0.000		0.000		-4.500
Coal, ILB	\$/MMBtu	1.32						

150 100 0 Weekly Storage Activity (Bcf) 50 00 0 0 0 0 0 (50) $y = -0.0047x^3 + 0.0373x^2 - 10.214x + 158.1$ $R^2 = 0.9309$ Summer 17 0. (100) • Summer 18 ۲ 0 • Summer 19 0 (150) O Summer 20 x next 4 weeks (200) (250)0 5 10 15 20 25 30 35 40 Gas Weighted HDDs

Winter Storage Forecast