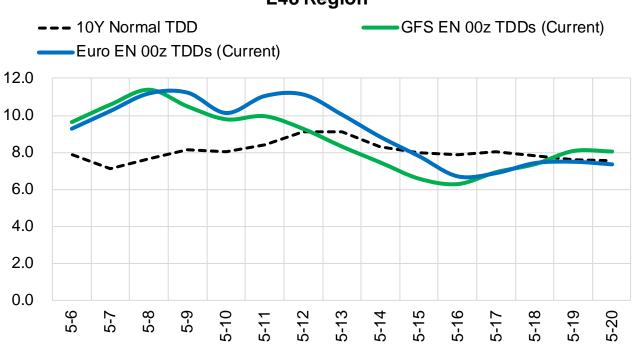


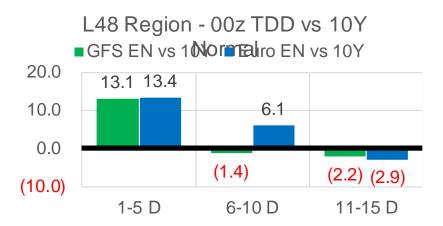


Short-term Weather Model Outlooks (00z)



L48 Region

Vs. 10Y Normal



Source: WSI, Bloomberg

Market Report

6 May 2021

Daily Balances

	30-Apr	1-May	2-May	3-May	4-May	5-May	6-May	DoD	vs.7D
Lower 48 Dry Production	90.8	90.9	90.0	90.3	89.8	89.3	88.6	-0.8	▼ -1.6
Canadian Imports	4.8	4.0	4.0	4.1	4.8	5.0	4.9	T-0.1	0.4
L48 Power	26.3	24.1	25.3	28.2	28.4	27.8	26.5	T -1.3	▼ -0.2
L48 Residential & Commercial	15.0	13.1	9.2	11.2	13.4	16.1	16.2	A 0.1	3 .2
L48 Industrial	20.2	20.2	19.8	19.5	18.4	16.3	13.6	- 2.8	🔽 -5.5
L48 Lease and Plant Fuel	5.0	5.0	5.0	5.0	5.0	4.9	4.9	▼ 0.0	▼ -0.1
L48 Pipeline Distribution	2.0	1.9	1.8	2.0	2.1	2.2	2.2	- 0.1	a 0.2
L48 Regional Gas Consumption	68.6	64.3	61.0	65.8	67.4	67.5	63.4	-4.1	T -2.4
Net LNG Delivered	11.61	11.65	10.49	10.91	11.40	11.58	11.69	0.1	0.4
Total Mexican Exports	6.8	6.5	5.8	6.4	7.1	7.1	7.2	0.1	0.6
Implied Daily Storage Activity EIA Reported Daily Storage Activity	8.7	12.4	16.8	11.3	8.7	8.2	11.2		

Lower 48 Component Models

Daily Model Error

EIA Storage Week Balances

	26-Mar	2-Apr	9-Apr	16-Apr	23-Apr	30-Apr	WoW	vs. 4W
Lower 48 Dry Production	90.7	91.5	91.4	90.9	90.2	90.7	0.5	-0.3
Canadian Imports	4.5	4.5	4.2	4.3	5.3	4.6	▼ -0.7	▲ 0.0
L48 Power	24.1	24.6	23.2	24.6	25.9	26.7	a 0.8	2 .1
L48 Residential & Commercial	25.0	23.4	18.6	18.6	24.0	16.5	▼ -7.5	- 4.6
L48 Industrial	19.1	20.1	20.6	20.3	19.4	19.1	T -0.3	T -1.1
L48 Lease and Plant Fuel	5.0	5.0	5.0	5.0	5.0	5.0	▲ 0.0	• 0.0
L48 Pipeline Distribution	2.3	2.3	2.1	2.1	2.5	2.1	V -0.3	— -0.1
L48 Regional Gas Consumption	75.5	75.4	69.5	70.6	76.7	69.4	▼ -7.4	▼ -3.7
Net LNG Exports	11.6	11.7	11.5	11.4	11.6	11.4	-0.2	T -0.1
Total Mexican Exports	6.6	6.4	6.2	7.3	6.8	6.7	▼ -0.1	▼ 0.0
Implied Daily Storage Activity EIA Reported Daily Storage Activity	1.6 2.0	2.5 2.9	8.4 8.7	5.9 5.4	0.5 2.1	7.9	7.4	
Daily Model Error	-0.4	-0.4	-0.4	0.5	-1.6			

Monthly Balances

	2Yr Ago	LY					MTD		
	May-19	May-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	MoM	vs. LY
Lower 48 Dry Production	90.1	86.5	90.3	83.2	90.7	90.8	89.8	-1.0	6.6
Canadian Imports	4.7	3.9	6.3	6.4	4.8	4.7	4.5	▼ -0.2	▼ -1.9
L48 Power	26.9	26.9	28.2	27.9	25.0	25.2	26.7	A 1.5	▼-1.2
L48 Residential & Commercial	12.8	12.7	43.9	47.9	28.4	19.7	13.2	▼ -6.5	▼-34.7
L48 Industrial	22.7	18.9	23.1	20.2	18.8	19.9	18.0	- 2.0	▼-2.2
L48 Lease and Plant Fuel	5.0	4.8	5.0	4.7	5.0	5.0	5.0	▼ 0.0	a 0.3
L48 Pipeline Distribution	2.1	2.0	3.2	3.3	2.5	2.2	2.0	T -0.2	▼-1.2
L48 Regional Gas Consumption	69.4	65.3	103.4	103.9	79.8	72.0	64.9	▼ -7.2	▼-39.0
Net LNG Exports	5.6	6.7	10.5	8.4	11.1	11.5	11.3	▼ -0.2	2.9
Total Mexican Exports	5.0	4.8	6.2	5.7	6.5	6.7	6.7	▼ 0.0	1.0
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	14.8	13.6	-23.5	-28.5	-1.9	5.3	11.4		

Source: Bloomberg, analytix.ai

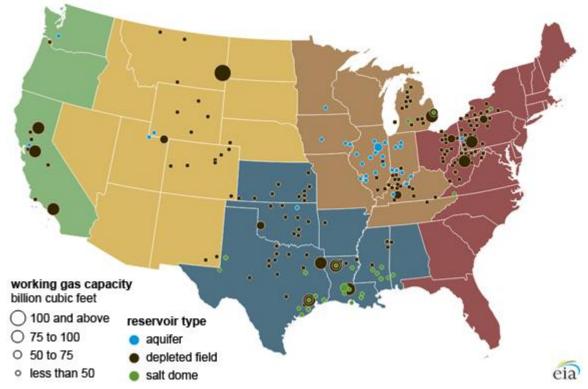


Regional S/D Models Storage Projection

Week Ending	30-Apr			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
L48	7.6	1.1	8.7	61
East	0.2	2.0	2.2	15
Midwest	2.6	0.0	2.6	18
Mountain	3.6	-3.1	0.5	4
South Central	0.0	2.7	2.7	19
Pacific	1.2	-0.5	0.7	5

*Adjustment Factor is calcuated based on historical regional deltas

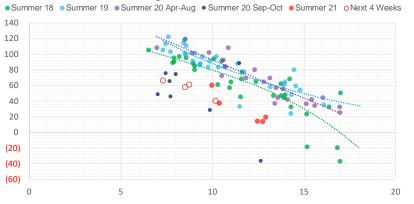
U.S. underground natural gas storage facilities by type (July 2015)



Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
30-Apr	8.8	61
07-May	8.5	58
14-May	10.2	40
21-May	7.3	66

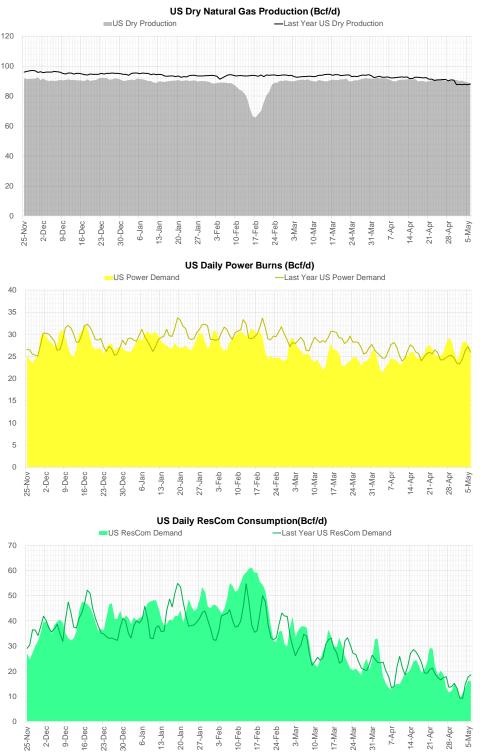
Weather Storage Model - Next 4 Week Forecast



Go to larger image

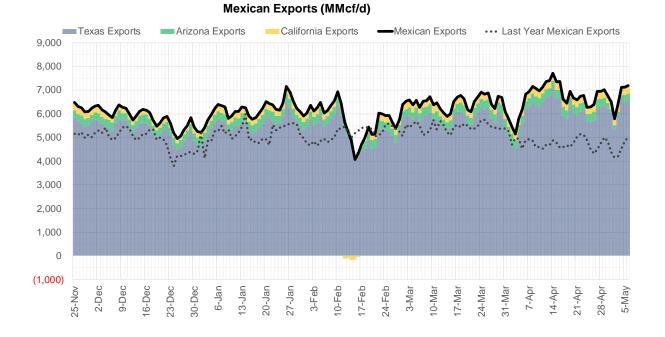


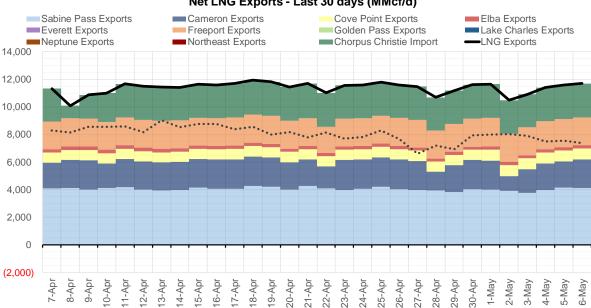




Source: Bloomberg







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

Source: Bloomberg

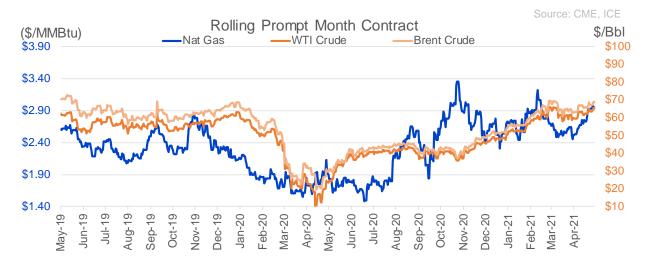


Nat Gas Options Volume and Open Interest CME, ICE and Nasdaq Combined

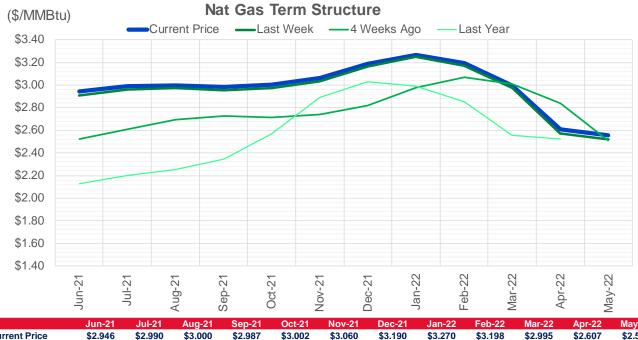
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
6	2021	Р	2.75	6764	10	2021	С	4.00	42489
6	2021	C	3.00	5747	8	2021	C	4.00	32589
6	2021	C	3.25	4903	8	2021	С	3.50	30643
7	2021	C	3.50	4228	10	2021	С	3.25	30082
8	2021	č	3.50	4100	6	2021	Р	2.50	29755
10	2021	č	3.50	3904	6	2021	С	3.00	29204
6	2021	P	2.90	3777	6	2021	C	3.25	28899
7	2021	Ċ	3.25	3470	7	2021	С	4.00	28640
7	2021	P	2.75	3394	6	2021	С	4.00	27949
6	2021	P	2.80	3190	6	2021	Р	2.65	27466
6	2021	C	3.50	2974	8	2021	С	3.25	27002
7	2021	c	4.00	2860	10	2021	С	5.00	25130
9	2021	c	4.00	2727	6	2021	С	3.50	24052
9 6	2021	P	2.70	2567	10	2021	Р	2.50	24023
10	2021	C	4.00	2010	7	2021	С	3.25	23669
7	2021	P	4.00 2.50	1848	10	2021	C	3.50	23300
7	2021	P	2.50	1750	7	2021	С	3.50	22763
		P P			9	2021	C	4.00	22756
8	2021		2.25	1701	7	2021	P	2.50	21271
10	2021	С	3.25	1700	6	2021	Р	2.75	21257
9	2021	С	3.50	1607	9	2021	С	3.50	21144
8	2021	С	4.00	1500	10	2021	C	3.00	19759
9	2021	P	2.25	1500	4	2022	C	3.00	19629
8	2021	С	3.25	1400	8	2021	P	2.50	19539
7	2021	С	3.60	1310	12	2021	C	4.00	19465
8	2021	С	3.60	1200	6	2021	P	2.25	19091
9	2021	С	3.25	1200	10	2021	Р	2.25	18951
9	2021	С	3.60	1200	9	2021	Р	2.00	18679
10	2021	С	3.60	1200	8	2021	Р	2.25	18336
6	2021	С	3.20	1194	6	2021	Р	2.00	17062
6	2021	Р	2.65	1178	11	2021	С	4.00	16786
6	2021	Р	2.40	1043	9	2021	С	3.25	16706
6	2021	Р	2.50	1033	10	2021	Р	2.00	16505
7	2021	С	3.30	1006	7	2021	Р	2.00	16035
6	2021	Р	2.60	953	8	2021	Р	2.00	15895
6	2021	С	3.15	938	6	2021	С	3.75	15823
6	2021	Р	2.85	928	3	2022	С	4.00	15510
6	2021	С	3.10	882	7	2021	С	3.00	15381
7	2021	Р	2.60	858	6	2021	С	2.75	15036
8	2021	С	3.30	850	9	2021	Р	2.50	14937
8	2021	С	3.70	803	8	2021	С	3.00	14697
9	2021	С	3.30	800	10	2021	С	4.50	14038
9	2021	С	3.70	800	12	2021	Р	2.00	14034
10	2021	С	3.30	800	3	2022	С	5.00	13975
10	2021	С	3.70	800	7	2021	Р	2.75	13815
6	2021	Р	2.55	759	9	2021	Р	1.90	13733
10	2021	С	3.00	733	10	2021	С	6.00	13682
7	2021	С	3.00	727	8	2021	С	3.75	13398
8	2021	С	3.00	712	5	2022	С	3.00	13202
6	2021	С	3.35	548	6	2022	C Source	: CME, ICE	12916

Nat Gas Futures Open	Interest
CME, and ICE Combined	

	CIME, 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				
JUN 21	202185	204216	-2031	JUN 21	87642	88788	-1146				
JUL 21	208988	207344	1644	JUL 21	86751	86035	716				
AUG 21	73621	69508	4113	AUG 21	80101	79369	733				
SEP 21	109508	109027	481	SEP 21	69624	69530	94				
OCT 21	131157	130089	1068	OCT 21	88942	88597	345				
NOV 21	68545	67720	825	NOV 21	61838	61904	-66				
DEC 21	45752	45855	-103	DEC 21	60632	60291	341				
JAN 22	75464	76785	-1321	JAN 22	66669	66512	157				
FEB 22	23608	23856	-248	FEB 22	48313	48221	93				
MAR 22	49608	49018	590	MAR 22	53721	53555	167				
APR 22	49977	50098	-121	APR 22	48574	48500	74				
MAY 22	30181	30268	-87	MAY 22	44383	44316	68				
JUN 22	16732	16407	325	JUN 22	41180	41114	66				
JUL 22	10313	10168	145	JUL 22	41056	41103	-46				
AUG 22	9207	8880	327	AUG 22	39692	39647	45				
SEP 22	9319	9349	-30	SEP 22	40657	40614	43				
OCT 22	22281	22242	39	OCT 22	46056	45974	82				
NOV 22	10763	10849	-86	NOV 22	36435	36352	83				
DEC 22	10072	10045	27	DEC 22	40276	40276	1				
JAN 23	5470	5459	11	JAN 23	22942	22800	142				
FEB 23	2507	2510	-3	FEB 23	21421	21307	115				
MAR 23	5133	5127	6	MAR 23	23100	22913	187				
APR 23	5753	5753	0	APR 23	18784	18603	181				
MAY 23	4405	4406	-1	MAY 23	18909	18768	142				
JUN 23	964	963	1	JUN 23	17305	17168	137				
JUL 23	1053	1052	1	JUL 23	17495	17332	163				
AUG 23	785	784	1	AUG 23	17638	17476	163				
SEP 23	768	768	0	SEP 23	17028	16870	158				
OCT 23	1755	1754	1	OCT 23	17755	17613	141				
NOV 23	609	609	0	NOV 23	17239	17140	99				



Market Report



Current Price	\$2.946	\$2.990	\$3.000	\$2.987	\$3.002	\$3.060	\$3.190	\$3.270	\$3.198	\$2.995	\$2.607	\$2.553
Last Week	\$2.911	\$2.961	\$2.973	\$2.957	\$2.971	\$3.034	\$3.166	\$3.248	\$3.174	\$2.974	\$2.573	\$2.521
vs. Last Week	\$0.035	\$0.029	\$0.027	\$0.030	\$0.031	\$0.026	\$0.024	\$0.022	\$0.024	\$0.021	\$0.034	\$0.032
4 Weeks Ago	\$2.522	\$2.607	\$2.691	\$2.724	\$2.717	\$2.737	\$2.822	\$2.976	\$3.069	\$3.012	\$2.836	\$2.512
vs. 4 Weeks Ago	\$0.424	\$0.383	\$0.309	\$0.263	\$0.285	\$0.323	\$0.368	\$0.294	\$0.129	-\$0.017	-\$0.229	\$0.041
Last Year	\$1.894	\$2.127	\$2.202	\$2.256	\$2.342	\$2.572	\$2.893	\$3.031	\$2.991	\$2.854	\$2.559	\$2.526
vs. Last Year	\$1.052	\$0.863	\$0.798	\$0.731	\$0.660	\$0.488	\$0.297	\$0.239	\$0.207	\$0.141	\$0.048	\$0.027

		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	3.06	2.36	-0.70
TETCO M3	\$/MMBtu	2.37	2.23	-0.14
FGT Zone 3	\$/MMBtu	2.43	2.97	0.54
Zone 6 NY	\$/MMBtu	2.43	2.29	-0.14
Chicago Citygate	\$/MMBtu	2.76	2.78	0.02
Michcon	\$/MMBtu	2.74	2.71	-0.03
Columbia TCO Pool	\$/MMBtu	2.49	2.34	-0.15
Ventura	\$/MMBtu	2.56	2.72	0.16
Rockies/Opal	\$/MMBtu	2.80	2.72	-0.08
El Paso Permian Basin	\$/MMBtu	2.66	2.83	0.17
Socal Citygate	\$/MMBtu	3.81	3.60	-0.21
Malin	\$/MMBtu	2.80	3.03	0.23
Houston Ship Channel	\$/MMBtu	3.11	3.00	-0.11
Henry Hub Cash	\$/MMBtu	2.98	2.76	-0.22
AECO Cash	C\$/GJ	2.47	2.37	-0.10
Station2 Cash	C\$/GJ	2.46	2.84	0.38
Dawn Cash	C\$/GJ	2.73	2.73	0.00

Source: CME, Bloomberg

Π	NERGY

				VS	. 4 Weeks			
	Units	Current Price	vs.	Last Week		Ago	vs	. Last Year
NatGas Jul21/Oct21	\$/MMBtu	0.012		0.002	▼	-0.034		0.011
NatGas Oct21/Nov21	\$/MMBtu	0.058	▼	-0.005	▼	-0.027		0.015
NatGas Oct21/Jan22	\$/MMBtu	0.268		-0.009		-0.064	▼	-0.016
NatGas Apr22/Oct22	\$/MMBtu	0.019		-0.006		-0.013	▼	-0.035
WTI Crude	\$/Bbl	65.23		0.220		5.630		41.680
Brent Crude	\$/Bbl	68.60		0.040		5.400		39.140
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	199.00		2.860		18.020		115.290
Propane, Mt. Bel	cents/Gallon	0.82		0.004		-0.047		0.453
Ethane, Mt. Bel	cents/Gallon	0.26		0.020		0.030		0.055
Coal, PRB	\$/MTon	12.30		0.000		0.000		0.000
Coal, PRB	\$/MMBtu	0.70						
Coal, ILB	\$/MTon	31.05		0.000		0.000		0.000
Coal, ILB	\$/MMBtu	1.32						



