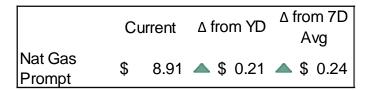
### 2 June 2022



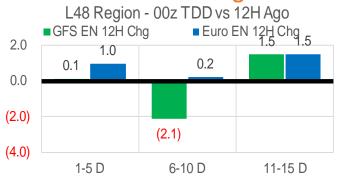
	Current	Δ from YD	Δ from 7D Avq
WTI Prompt	\$ 111.91	<b>\$</b> (3.35)	<b>*</b> \$ (3.0)

	Current	Δ from YD	Δ froi	m 7D
			A	vg
Brent Prompt	¢ 112 12	<b>\$</b> (3.17)	<b>—</b> ¢	(6.4)
Prompt	φ 113.12	Ψ ψ (3.17)	ΨΨ	(0.4)

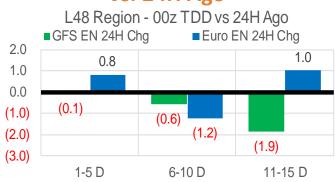
### **Page Menu**

Short-term Weather Model Outlooks
Lower 48 Component Models
Regional S/D Models Storage Projection
Weather Model Storage Projection
Supply – Demand Trends
Nat Gas Options Volume and Open Interest
Nat Gas Futures Open Interest
Price Summary

### Vs. 12H Ago



# Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	96.3	<b>▼</b> -0.34	<b>▼</b> -0.26

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	32.3	<b>▼</b> -1.08	<b>2.53</b>

	Current	Δ from YD	Δ from 7D Avg		
US ResComm	8.6	▼ -0.63	<b>▼</b> -0.56		

	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	4.8	<b>-</b> 0.09	<b>a</b> 0.02

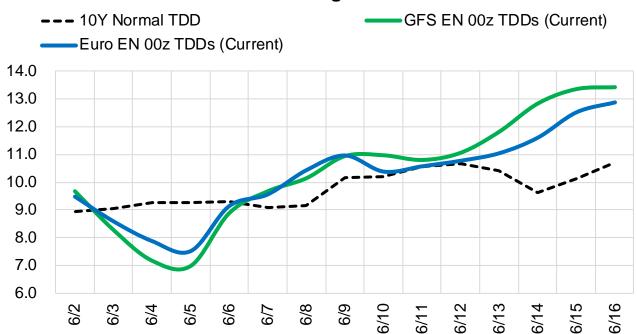
	Current	Δ from YD	Δ from 7D Avg		
Net LNG Exports	12.8	<b>-</b> 0.04	▼ -0.10		

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	7.2	<b>0.17</b>	<b>0.13</b>

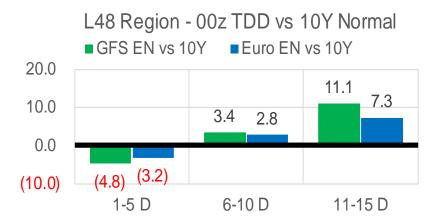


### Short-term Weather Model Outlooks (00z)

### L48 Region



# Vs. 10Y Normal



Source: WSI, Bloomberg



### Lower 48 Component Models

#### **Daily Balances**

	27-May	28-May	29-May	30-May	31-May	1-Jun	2-Jun	DoD	vs. 7D
Lower 48 Dry Production	96.7	96.9	96.4	96.7	97.0	96.7	96.3	▼-0.3	▼ -0.4
Canadian Imports	4.8	4.7	4.6	4.8	5.0	4.9	4.8	▼ -0.1	<b>0.0</b>
L48 Power	29.4	26.8	26.3	28.7	33.3	33.4	32.3	▼-1.1	<b>2.6</b>
L48 Residential & Commercial	9.3	8.9	8.7	9.1	9.3	9.2	8.6	▼-0.6	<b>-</b> 0.5
L48 Industrial	21.4	21.6	21.7	22.0	21.8	21.8	21.2	▼-0.6	<b>-</b> 0.5
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.2	5.3	5.2	5.2	▼-0.1	<b>▼</b> -0.1
L48 Pipeline Distribution	2.2	2.0	2.0	2.1	2.4	2.3	2.2	▼-0.1	<b>a</b> 0.0
L48 Regional Gas Consumption	67.4	64.5	63.9	67.2	72.1	72.0	69.5	▼ -2.5	<b>1.7</b>
Net LNG Delivered	13.01	13.12	13.03	12.82	11.99	12.80	12.76	▼ 0.0	▼ 0.0
Total Mexican Exports	7.1	7.1	6.7	7.2	7.1	7.0	7.2	<b>0.2</b>	<b>0.1</b>
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	13.9	16.8	17.4	14.3	10.8	9.8	11.7		

### **EIA Storage Week Balances**

**Daily Model Error** 

	29-Apr	6-May	13-May	20-May	27-May	WoW	vs. 4W
96.6	95.6	95.5	95.7	94.8	95.9	<b>1.1</b>	<b>0.5</b>
5.8	6.1	5.9	5.2	4.9	4.9	▼ 0.0	▼-0.7
24.9	24.7	26.2	26.8	30.4	30.0	▼-0.3	<b>3.0</b>
24.4	18.8	16.8	14.5	10.0	11.6	<b>1.6</b>	<b>▼</b> -3.4
21.5	21.7	21.1	20.9	21.3	20.5	▼ -0.8	▼-0.8
5.3	5.2	5.2	5.2	5.1	5.2	<b>0.1</b>	<b>0.0</b>
2.7	2.4	2.4	2.3	2.3	2.4	<b>0.1</b>	<b>0.0</b>
78.9	72.8	71.8	69.6	69.2	69.7	<b>0.6</b>	▼-1.1
12.1	12.2	12.2	12.2	12.2	13.0	<b>8.0</b>	▲ 0.8
6.7	6.9	6.9	7.0	7.0	7.0	<b>0.1</b>	<b>▲ 0.1</b>
4.7 5.7	9.7 11.0	10.6 10.9	12.0 12.7	11.4 11.4	10.9	-0.4	
	5.8 24.9 24.4 21.5 5.3 2.7 78.9 12.1 6.7	5.8         6.1           24.9         24.7           24.4         18.8           21.5         21.7           5.3         5.2           2.7         2.4           78.9         72.8           12.1         12.2           6.7         6.9           4.7         9.7           5.7         11.0	5.8         6.1         5.9           24.9         24.7         26.2           24.4         18.8         16.8           21.5         21.7         21.1           5.3         5.2         5.2           2.7         2.4         2.4           78.9         72.8         71.8           12.1         12.2         12.2           6.7         6.9         6.9           4.7         9.7         10.6           5.7         11.0         10.9	5.8         6.1         5.9         5.2           24.9         24.7         26.2         26.8           24.4         18.8         16.8         14.5           21.5         21.7         21.1         20.9           5.3         5.2         5.2         5.2           2.7         2.4         2.4         2.3           78.9         72.8         71.8         69.6           12.1         12.2         12.2         12.2           6.7         6.9         6.9         7.0           4.7         9.7         10.6         12.0           5.7         11.0         10.9         12.7	5.8         6.1         5.9         5.2         4.9           24.9         24.7         26.2         26.8         30.4           24.4         18.8         16.8         14.5         10.0           21.5         21.7         21.1         20.9         21.3           5.3         5.2         5.2         5.2         5.1           2.7         2.4         2.4         2.3         2.3           78.9         72.8         71.8         69.6         69.2           12.1         12.2         12.2         12.2         12.2           6.7         6.9         6.9         7.0         7.0           4.7         9.7         10.6         12.0         11.4           5.7         11.0         10.9         12.7         11.4	5.8         6.1         5.9         5.2         4.9         4.9           24.9         24.7         26.2         26.8         30.4         30.0           24.4         18.8         16.8         14.5         10.0         11.6           21.5         21.7         21.1         20.9         21.3         20.5           5.3         5.2         5.2         5.2         5.1         5.2           2.7         2.4         2.4         2.3         2.3         2.4           78.9         72.8         71.8         69.6         69.2         69.7           12.1         12.2         12.2         12.2         13.0           6.7         6.9         6.9         7.0         7.0         7.0           4.7         9.7         10.6         12.0         11.4         10.9           5.7         11.0         10.9         12.7         11.4	5.8       6.1       5.9       5.2       4.9       4.9 $\sqrt{0.0}$ 24.9       24.7       26.2       26.8       30.4       30.0 $\sqrt{-0.3}$ 24.4       18.8       16.8       14.5       10.0       11.6 $\triangle$ 1.6         21.5       21.7       21.1       20.9       21.3       20.5 $\sqrt{-0.8}$ 5.3       5.2       5.2       5.2       5.1       5.2 $\triangle$ 0.1         2.7       2.4       2.4       2.3       2.3       2.4 $\triangle$ 0.1         78.9       72.8       71.8       69.6       69.2       69.7 $\triangle$ 0.6         12.1       12.2       12.2       12.2       13.0 $\triangle$ 0.8         6.7       6.9       6.9       7.0       7.0 $\nearrow$ 0.0 $\rightarrow$ 0.1         4.7       9.7       10.6       12.0       11.4       10.9       -0.4         5.7       11.0       10.9       12.7       11.4

Monthly Balances									
•	2Yr Ago Jun-20	LY Jun-21	Jan-22	Feb-22	Mar-22	Apr-22	MTD May-22	MoM	vs. LY
Lower 48 Dry Production	87.9	93.2	93.4	92.6	93.5	95.9	95.3	▼-0.6	<b>2.1</b>
Canadian Imports	4.0	4.8	6.7	6.6	5.2	5.8	5.4	▼-0.4	<b>0.6</b>
L48 Power	34.9	35.9	31.5	28.8	25.5	24.7	23.1	<b>▼</b> -1.6	<b>▼</b> -12.9
L48 Residential & Commercial	8.8	8.9	49.2	44.5	31.5	22.5	15.7	▼-6.8	<b>6.9</b>
L48 Industrial	20.0	20.2	24.7	22.4	19.7	21.4	20.9	▼-0.5	<b>0.7</b>
L48 Lease and Plant Fuel	4.8	5.0	5.1	5.1	5.2	5.2	5.2	<b>▼</b> -0.1	<b>0.1</b>
L48 Pipeline Distribution	2.3	2.4	3.8	3.6	2.9	2.6	2.2	<b>▼</b> -0.4	<b>▼</b> -0.2
L48 Regional Gas Consumption	70.8	72.5	114.3	104.4	84.7	76.4	67.1	▼-9.4	▼ -5.4
Net LNG Exports	4.0	10.2	12.4	12.4	12.9	12.3	12.0	▼-0.3	<b>1.8</b>
Total Mexican Exports	5.5	7.4	6.3	6.2	6.5	6.7	6.7	▼-0.1	▼-0.7
Implied Daily Storage Activity EIA Reported Daily Storage Activity	11.5	8.0	-32.9	-23.7	-5.4	6.2	15.0		



# **Daily** Average Generation Data

#### **Nuclear Generation Daily Average - GWh (NRC)**

	25-May	26-May	27-May	28-May	29-May	30-May	31-May	DoD	vs. 7D
NRC Nuclear Daily Output	83.2	83.8	85.0	84.6	85.6	85.2	87.0	1.8	2.4
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	104.9	0.0	0.0
NRC Nuclear Outage	21.7	21.0	19.8	20.3	19.3	19.6	17.9	-1.8	-2.4
NRC % Nuclear Cap Utilization	84.6	85.3	86.5	86.0	87.0	86.7	88.5	1.8	2.5

#### Wind Generation Daily Average - MWh (EIA)

	25-May	26-May	27-May	28-May	29-May	30-May	31-May	DoD	vs. 7D
CALI Wind	1508	2889	3837	4802	4175	3545	2538	-1007	-921
TEXAS Wind	13464	6857	12960	21861	24730	22862	21511	-1351	4389
US Wind	56894	41999	44188	67530	78621	79599	66330	-13269	4859

#### **Generation Daily Average - MWh (EIA)**

	25-May	26-May	27-May	28-May	29-May	30-May	31-May	DoD	vs. 7D
US Wind	56894	41999	44188	67530	78621	79599	66330	-13269	4859
US Solar	16328	18220	17182	17586	16260	18349	19379	1030	2058
US Petroleum	478	392	643	733	643	856	1168	312	544
US Other	7139	7010	7029	6738	7428	7847	8555	708	1356
US Coal	82027	88066	88845	75206	74893	83828	103697	19869	21553
US Nuke	87123	87771	88827	88698	88689	89060	90510	1450	2149
US Hydro	34965	37560	36081	33651	31904	34432	37632	3201	2867
US Gas	152248	163037	163165	131360	126889	143961	183703	39742	36926

See National Wind and Nuclear daily charts



# **Storage Week** Average Generation Data

,	3								
	22-Apr	29-Apr	6-May	13-May	20-May	27-May	WoW	WoW Bcf/d Impact	
NRC Nuclear Daily Output	72.3	73.5	76.7	79.3	81.7	84.2	2.5	-0.5	
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0		
NRC Nuclear Outage	32.6	31.4	28.2	25.5	23.2	20.6	-2.5		
NRC % Nuclear Cap Utilization	73.5	74.8	78.0	80.7	83.1	85.7	2.6		

### Wind Generation Weekly Average - MWh (EIA)

**Nuclear Generation Weekly Average - GWh (NRC)** 

	22-Apr	29-Apr	6-May	13-May	20-May	27-May	WoW	WoW Bcf/d Impact
CALI Wind	3613	3153	2929	3983	3452	2798	-654	0.1
TEXAS Wind	15612	18327	16902	17705	15706	14010	-1696	0.3
US Wind	61570	66986	57244	64974	50251	50129	-122	0.0
							0%	
						-0.1		

### **Generation Weekly Average - MWh (EIA)**

					est.		
22-Apr	29-Apr	6-May	13-May	20-May	27-May	WoW	WoW Bcf/d
							Impact
61570	66986	57244	64974	50251	50129	-122	0.0
15897	16968	17033	18000	19634	17394	-2240	0.4
984	992	931	341	262	448	186	0.0
7544	7717	7529	7615	7871	7612	-259	0.0
79575	77533	78898	81273	88922	88570	-352	0.1
76478	77438	80558	83391	85510	88016	2506	-0.5
28355	26721	26831	28968	31973	33771	1798	-0.3
133401	131482	145774	148473	172224	159884	-12340	-2.2
	61570 15897 984 7544 79575 76478 28355	61570 66986 15897 16968 984 992 7544 7717 79575 77533 76478 77438 28355 26721	61570 66986 57244 15897 16968 17033 984 992 931 7544 7717 7529 79575 77533 78898 76478 77438 80558 28355 26721 26831	61570 66986 57244 64974 15897 16968 17033 18000 984 992 931 341 7544 7717 7529 7615 79575 77533 78898 81273 76478 77438 80558 83391 28355 26721 26831 28968	61570 66986 57244 64974 50251 15897 16968 17033 18000 19634 984 992 931 341 262 7544 7717 7529 7615 7871 79575 77533 78898 81273 88922 76478 77438 80558 83391 85510 28355 26721 26831 28968 31973	22-Apr         29-Apr         6-May         13-May         20-May         27-May           61570         66986         57244         64974         50251         50129           15897         16968         17033         18000         19634         17394           984         992         931         341         262         448           7544         7717         7529         7615         7871         7612           79575         77533         78898         81273         88922         88570           76478         77438         80558         83391         85510         88016           28355         26721         26831         28968         31973         33771	22-Apr         29-Apr         6-May         13-May         20-May         27-May         WoW           61570         66986         57244         64974         50251         50129         -122           15897         16968         17033         18000         19634         17394         -2240           984         992         931         341         262         448         186           7544         7717         7529         7615         7871         7612         -259           79575         77533         78898         81273         88922         88570         -352           76478         77438         80558         83391         85510         88016         2506           28355         26721         26831         28968         31973         33771         1798

See National Wind and Nuclear daily charts



# **Monthly** Average Generation Data

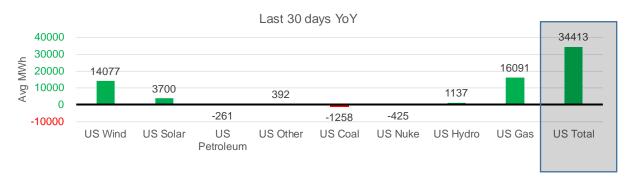
	2Yr Ago	LY							
	Same 30 days	Same 30 days	Mar-22	Apr-22	May-22	Jun-22	Last 30 days	Last 30 days YoY	
NRC Nuclear Daily Output	83.5	82.9	81.3	73.3	81.7	87.8	82.5	-0.4	
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	21.4	22.0	23.6	31.6	23.2	17.1	22.4	0.4	
NRC % Nuclear Cap Utilization	84.9	84.3	82.7	74.5	83.0	89.3	83.9	-0.4	

#### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY				MTD		
	Same 30 days	Same 30 days	Mar-22	Apr-22	May-22	Jun-22	Last 30 days	Last 30 days YoY
CALI Wind	2339	3307	2250	3186	3391	2538	3329	23
TEXAS Wind	9883	11850	14837	16311	16756	21511	17011	5160
US Wind	37217	42889	58528	64183	56506	66330	56965	14077

#### **Generation Monthly Average - MWh (EIA)**

	2Yr Ago	LY				MTD		
	Same 30 days	Same 30 days	Mar-22	Apr-22	May-22	Jun-22	Last 30 days	Last 30 days YoY
US Wind	37217	42889	58528	64183	56506	66330	56965	<b>14077</b>
US Solar	11215	14542	14057	16208	18015	19379	18241	<b>3700</b>
US Petroleum	743	782	985	985	518	1168	521	<b>-261</b>
US Other	8267	7349	7206	7386	7665	8555	7741	<b>392</b>
US Coal	64484	88636	82290	77545	85346	103697	87378	<b>▼ -1258</b>
US Nuke	87289	86700	85256	77217	85496	90510	86275	<b>-425</b>
US Hydro	38195	31203	33959	29022	31385	37632	32340	<b>1137</b>
US Gas	147480	144270	137232	133068	157371	183703	160361	<b>16091</b>
US Total	393680	416719	419842	406184	443574	512548	451132	<b>34413</b>



See National Wind and Nuclear daily charts



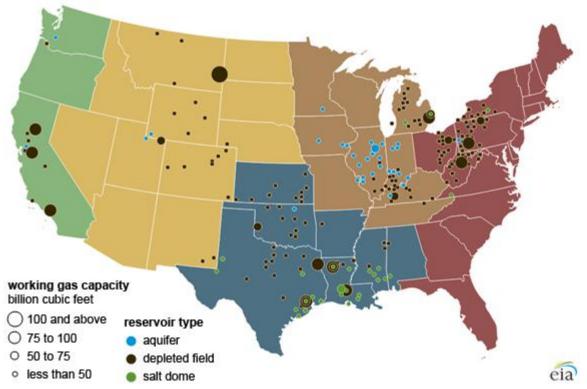
# Regional S/D Models Storage Projection

Week Ending 27-May

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	11.8	-0.3	11.5	81
East	2.4	2.3	4.7	33
Midwest	4.8	-1.0	3.7	26
Mountain	4.3	-3.9	0.4	3
South Central	-1.2	3.0	1.8	12
Pacific	1.6	-0.6	0.9	6

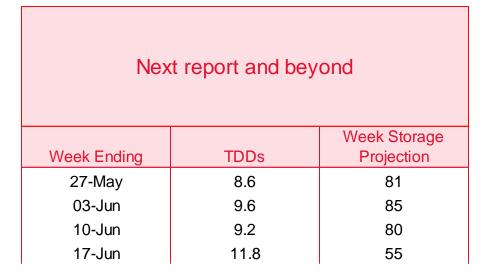
<sup>\*</sup>Adjustment Factor is calcuated based on historical regional deltas

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

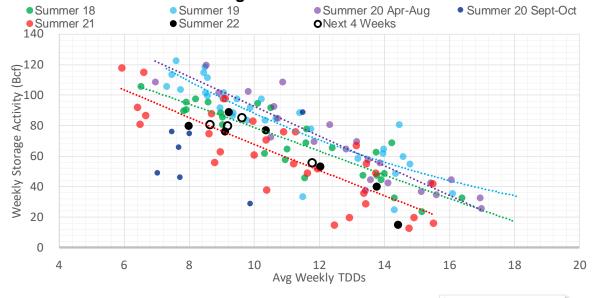




### Weather Model Storage Projection



### Weather Storage Model - Next 4 Week Forecast



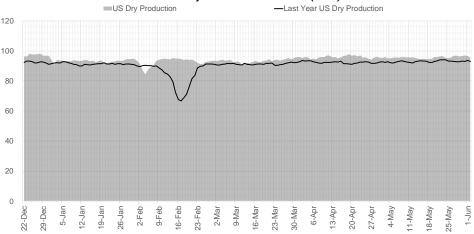
Go to larger image



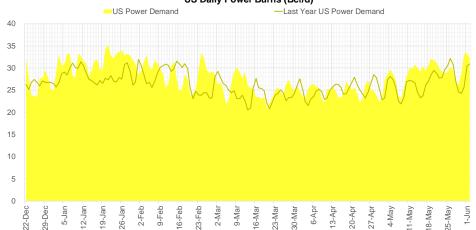


### Supply - Demand Trends

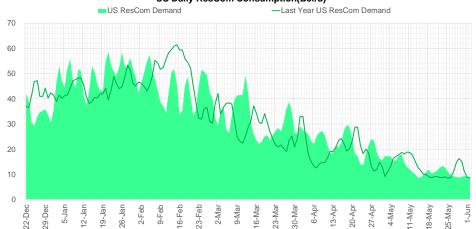
#### US Dry Natural Gas Production (Bcf/d)



#### US Daily Power Burns (Bcf/d)



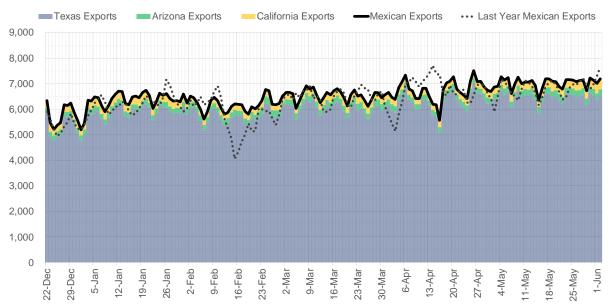
#### US Daily ResCom Consumption(Bcf/d)



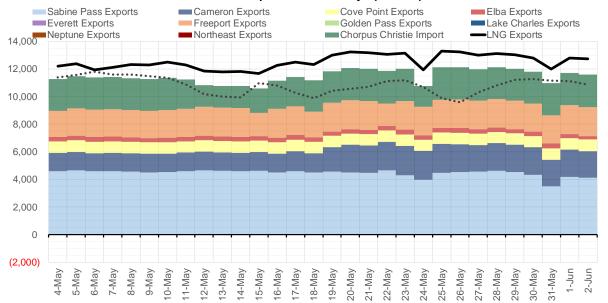
Source: Bloomberg



#### Mexican Exports (MMcf/d)







Source: Bloomberg



# Nat Gas Options Volume and Open Interest CME and ICE Combined

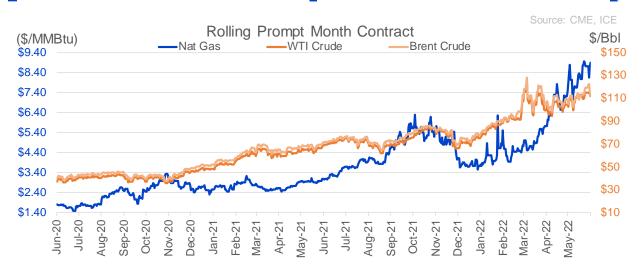
	CONTRACT	PUT/CALL	STRIKE	CUMULATIVE	(	CONTRACT	CONTRACT	PUT/CALL	STRIKE	CUMULATIVE OI
MONTH	YEAR	. 0 ./ 0/ 122	5	VOL		MONTH	YEAR	. 01,07.22	311112	00022 0.
9	2022	Р	4.00	11202		8	2022	С	10.00	49323
9	2022	C	4.00	10000		8	2022	Č	10.50	37080
7	2022	P	6.00	5958		10	2022	С	6.00	35347
7	2022	P	7.00	4958		8	2022	С	12.00	31625
8	2022	P	6.00	4787		7	2022	С	11.00	30988
7	2022	C	10.00	4735		10	2022	С	5.00	24089
7	2022	P	7.50	4517		7	2022	Р	6.00	23744
7	2022	Р	6.75	4086		9	2022	С	6.00	23673
8	2022	P	6.75	4000		7	2022	С	10.00	22534
7	2022	C	9.50	3897		8	2022	С	12.10	22203
8	2022	C	10.00	3632		7	2022	С	9.00	21833
10	2022	Ċ	10.00	3255		10	2022	Р	6.00	21307
10	2022	Ċ	9.50	2534		10	2022	Р	3.50	20524
7	2022	P	6.25	2510		10	2022	Р	3.00	20275
10	2022	Ċ	9.60	2500		7	2022	С	11.10	20201
7	2022	P	7.25	2332		9	2022	С	10.00	19957
8	2022	P	7.00	2304		10	2022	Р	2.50	19868
8	2022	Ċ	12.00	2164		8	2022	С	6.00	19483
8	2022	P	7.50	2082		8	2022	Р	6.00	19276
		C				7	2022	С	6.00	18943
7 8	2022	P	9.25	2001		7	2022	Р	7.00	18265
	2022	P	6.25	2001		8	2022	С	7.00	18259
8	2022		7.25	2000		12	2022	С	5.00	18221
8	2022	С	10.50	1922		7	2022	С	8.00	18198
10	2022	P	4.00	1906		9	2022	C	7.00	18091
7	2022	С	9.00	1902		7	2022	C	7.00	17659
10	2022	P	6.00	1676		7	2022	P	3.25	17344
10	2022	P	6.50	1645		10	2022	Р	2.00	17258
7	2022	C	10.50	1598		10	2022	Р	4.00	17070
7	2022	С	11.00	1516		8	2022	C	9.00	16724
8	2022	С	10.10	1500		5	2023	P	2.00	16336
8	2022	С	10.60	1500		1	2023	С	10.00	15773
10	2022	Р	7.00	1467		2	2023	Ċ	10.00	15649
8	2022	С	11.00	1350		7	2022	P	5.50	15635
7	2022	Р	8.00	1262		7	2022	P	5.00	15420
7	2022	Р	4.00	1200		9	2022	Р	2.50	15292
8	2022	Р	4.00	1200		3	2023	C	10.00	15011
7	2022	С	9.75	1126		10	2022	P	3.25	14919
4	2023	Р	3.50	1125		9	2022	P	2.75	14883
5	2023	Р	3.50	1125		10	2022	C	10.00	14851
6	2023	Р	3.50	1125		9	2022	P	3.00	14651
7	2023	Р	3.50	1125		7	2022	P	3.50	14604
8	2023	Р	3.50	1125		8	2022	P	3.00	14552
9	2023	Р	3.50	1125		10	2022	Ċ	8.00	14530
10	2023	Р	3.50	1125		11	2022	P	4.00	14494
11	2022	Р	8.00	1100		7	2022	Р	3.00	14491
7	2022	С	10.60	1060		12	2022	Ċ	6.00	13934
7	2022	Ċ	8.90	1020		8	2022	č	8.00	13881
7	2022	C	8.80	1018		8	2022	P	7.00	13796
8	2022	Ċ	9.00	1002		10	2023	-		13680
-	-	-					2020	Source	: CME, ICE	.0000



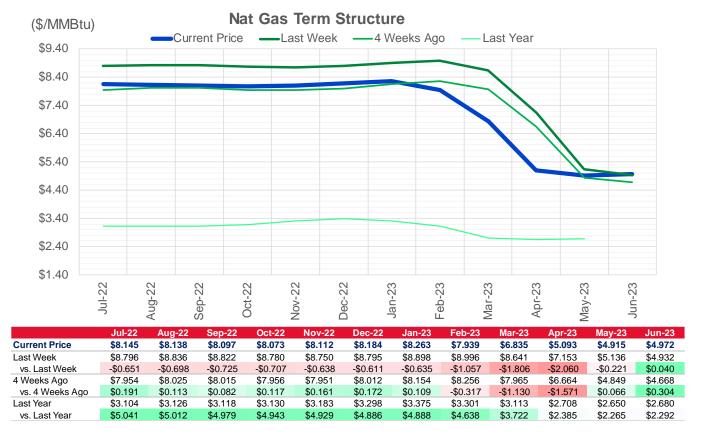
## Nat Gas Futures Open Interest

CME and ICE Combined

CME Henry	y Hub Futures (10		u)		Hub Futures Conf	ract Equiva	alent (10,000 MM
	Current	Prior	Daily Change		Current	Prior	Daily Change
JUL 22	209299	210058	-759	JUL 22	93219	93914	-695
AUG 22	71608	71197	411	AUG 22	59639	59706	-67
SEP 22	106717	107122	-405	SEP 22	66760	66266	494
OCT 22	95169	94276	893	OCT 22	71874	72390	-516
NOV 22	50324	49914	410	NOV 22	59640	59607	33
DEC 22	50918	50028	890	DEC 22	62828	62369	459
JAN 23	64949	64370	579	JAN 23	64804	64349	455
FEB 23	27940	27775	165	FEB 23	54390	54724	-334
MAR 23	41729	40492	1237	MAR 23	53626	54234	-608
APR 23	60710	59213	1497	APR 23	51984	51839	145
MAY 23	62744	61661	1083	MAY 23	51633	51981	-348
JUN 23	26270	26246	24	JUN 23	45551	45696	-145
JUL 23	23700	23719	-19	JUL 23	43117	43215	-98
AUG 23	15877	16106	-229	AUG 23	43323	43372	-48
SEP 23	19305	19089	216	SEP 23	42221	42237	-17
OCT 23	39315	38935	380	OCT 23	48899	49045	-147
NOV 23	12916	12962	-46	NOV 23	43351	43354	-3
DEC 23	14195	14336	-141	DEC 23	39445	39413	33
JAN 24	20687	20887	-200	JAN 24	39395	39673	-278
FEB 24	6235	6136	99	FEB 24	26752	26708	44
MAR 24	14775	14060	715	MAR 24	31280	31164	116
APR 24	12253	12105	148	APR 24	27299	27242	58
MAY 24	6621	6624	-3	MAY 24	26099	26048	52
JUN 24	2013	1895	118	JUN 24	22480	22437	43
JUL 24	2017	2022	-5	JUL 24	22715	22673	43
AUG 24	3018	3027	-9	AUG 24	22751	22708	43
SEP 24	1375	1376	-1	SEP 24	22131	22088	43
OCT 24	6837	6843	-6	OCT 24	24886	24930	-44
NOV 24	4491	4491	0	NOV 24	23348	23253	95
DEC 24	7370	7370	0	DEC 24	25568	25470	98







		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	11.00	8.52	-2.48
TETCO M3	\$/MMBtu	7.77	8.23	0.46
FGT Zone 3	\$/MMBtu	7.84	9.09	1.25
Zone 6 NY	\$/MMBtu	7.84	8.27	0.43
Chicago Citygate	\$/MMBtu	8.18	8.77	0.59
Michcon	\$/MMBtu	8.20	8.75	0.55
Columbia TCO Pool	\$/MMBtu	7.72	8.28	0.56
Ventura	\$/MMBtu	8.80	8.62	-0.18
Rockies/Opal	\$/MMBtu	8.28	8.50	0.22
El Paso Permian Basin	\$/MMBtu	7.65	8.38	0.73
Socal Citygate	\$/MMBtu	8.92	9.55	0.63
Malin	\$/MMBtu	8.24	8.75	0.51
Houston Ship Channel	\$/MMBtu	8.20	8.84	0.64
Henry Hub Cash	\$/MMBtu	8.51	8.65	0.14
AECO Cash	C\$/GJ	5.81	6.29	0.48
Station2 Cash	C\$/GJ	5.46	8.52	3.06
Dawn Cash	C\$/GJ	8.33	8.74	0.41

Source: CME, Bloomberg

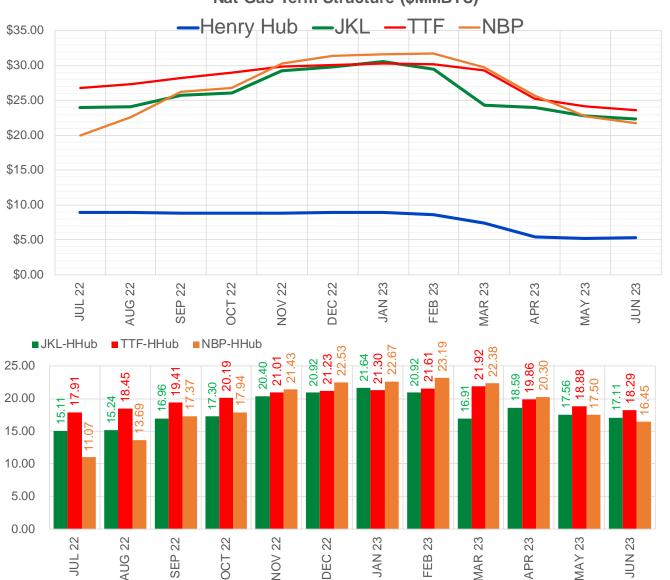




					\/C	4 Wooks				
						vs. 4 Weeks				
	Units	Current Price	VS.	. Last Week		Ago	VS	s. Last Year		
NatGas Jul21/Oct21	\$/MMBtu	2.224		0.000		0.000		2.197		
NatGas Oct21/Nov21	\$/MMBtu	0.361		0.000		0.000		0.304		
NatGas Oct21/Jan22	\$/MMBtu	-1.817		0.000		0.000	•	-2.075		
NatGas Apr22/Oct22	\$/MMBtu	3.278		-0.284		0.207		3.252		
WTI Crude	\$/Bbl	115.26		4.930		7.450		46.430		
Brent Crude	\$/Bbl	116.29		2.260		6.150		44.940		
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000		
Heating Oil	cents/Gallon	414.33		27.690		-5.370		203.620		
Propane, Mt. Bel	cents/Gallon	1.22		-0.006		-0.058		0.305		
Ethane, Mt. Bel	cents/Gallon	0.65		0.049		0.035		0.382		
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								

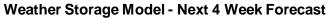


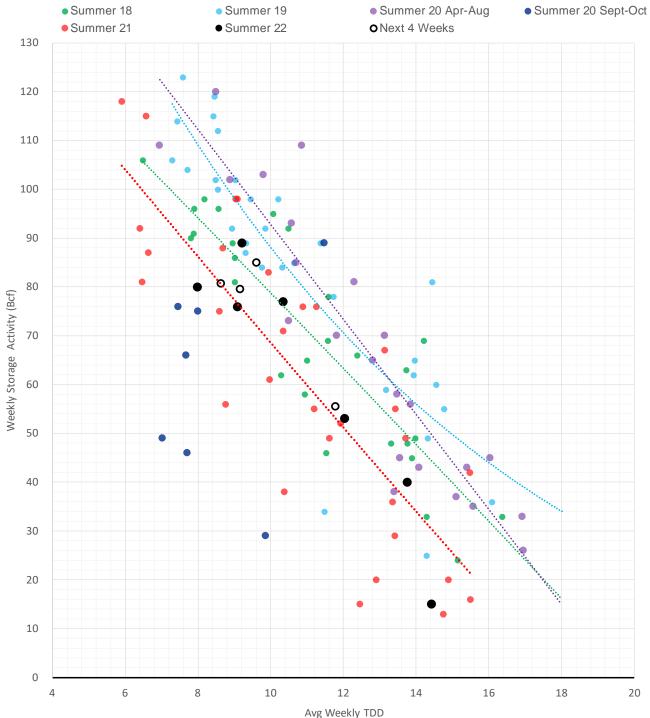
### Nat Gas Term Structure (\$MMBTU)



	JUL 22	AUG 22	SEP 22	OCT 22	NOV 22	<b>DEC 22</b>	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23
Henry Hub	\$8.906	\$8.889	\$8.846	\$8.829	\$8.853	\$8.916	\$8.973	\$8.598	\$7.389	\$5.439	\$5.235	\$5.289
JKL	\$24.015	\$24.130	\$25.810	\$26.130	\$29.255	\$29.840	\$30.610	\$29.520	\$24.300	\$24.025	\$22.795	\$22.400
JKL-HHub	\$15.109	\$15.241	\$16.964	\$17.301	\$20.402	\$20.924	\$21.637	\$20.922	\$16.911	\$18.586	\$17.560	\$17.111
TTF	\$26.819	\$27.341	\$28.256	\$29.021	\$29.860	\$30.144	\$30.272	\$30.206	\$29.308	\$25.299	\$24.112	\$23.580
TTF-HHub	\$17.913	\$18.452	\$19.410	\$20.192	\$21.007	\$21.228	\$21.299	\$21.608	\$21.919	\$19.860	\$18.877	\$18.291
NBP	\$19.980	\$22.583	\$26.218	\$26.766	\$30.283	\$31.449	\$31.644	\$31.789	\$29.767	\$25.735	\$22.733	\$21.739
NBP-HHub	\$11.074	\$13.694	\$17.372	\$17.937	\$21.430	\$22.533	\$22.671	\$23.191	\$22.378	\$20.296	\$17.498	\$16.450









### Weather Storage Model for Summer 2021 & 2022

