

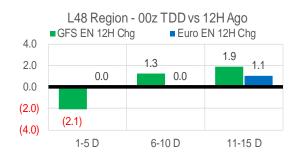
# **Market Report**

# Current $\Delta$ from YD $\begin{array}{c} \Delta \text{ from 7D} \\ Avg \end{array}$ Nat Gas \$ 5.75 $\blacktriangle$ \$ 0.56 $\bigstar$ \$ 0.54 Prompt Current $\Delta$ from YD $\begin{array}{c} \Delta \text{ from 7D} \\ Avg \end{array}$

WTI \$ 88.07 **v** \$ (1.01) **a** \$ 2.1

	с С	urropt	∆ from YD	∆ fron	n 7D
	C	uneni		Av	g
Brent Prompt	\$	96.08	▼\$ (0.88)	▲ \$	1.8

# Vs. 12H Ago

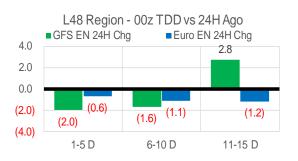


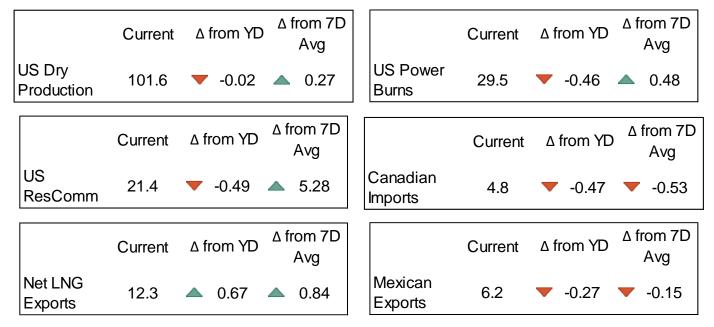
### Page Menu

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

28 October 2022

# Vs. 24H Ago



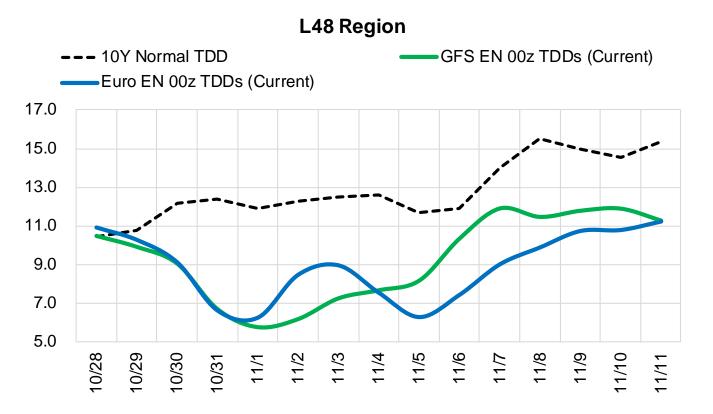


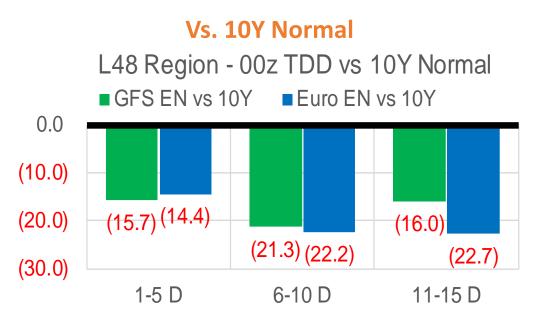


**Market Report** 

28 October 2022

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





Source: WSI, Bloomberg



# **Market Report**

# 28 October 2022

### **Daily Balances**

	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	DoD	vs. 7D
Lower 48 Dry Production	101.4	101.4	101.7	100.8	100.9	101.6	101.6	▼ 0.0	<b>0.3</b>
Canadian Imports	5.4	5.3	5.3	5.2	5.2	5.2	4.8	<b>v</b> -0.5	<b>v</b> -0.5
L48 Power	26.1	26.6	29.8	30.9	30.4	29.9	29.5	▼ -0.5	<b>0.5</b>
L48 Residential & Commercial	12.7	13.5	13.8	15.0	19.0	21.9	21.4	▼ -0.5	<b>5</b> .4
L48 Industrial	20.7	20.9	21.3	21.5	22.1	22.3	22.3	▼ -0.1	<b>a</b> 0.8
L48 Lease and Plant Fuel	5.7	5.7	5.7	5.6	5.6	5.7	5.6	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	2.4	2.5	2.7	2.8	3.0	3.2	3.1	▼ -0.1	<b>0</b> .4
L48 Regional Gas Consumption	67.5	69.2	73.3	76.0	80.2	83.0	81.9	💌 -1.1	<b>7.1</b>
Net LNG Delivered	11.37	11.09	11.19	11.79	11.73	11.64	12.30	<b>0.7</b>	<b>0.8</b>
Total Mexican Exports	6.3	6.1	6.2	6.3	6.5	6.5	6.2	<b>v</b> -0.3	<b>v</b> -0.1
Implied Daily Storage Activity EIA Reported Daily Storage Activity	21.6	20.4	16.3	12.0	7.7	5.7	6.0		

Lower 48 Component Models

Daily Model Error

### **EIA Storage Week Balances**

5	LY				LW	Current		
	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	vs. LY
Lower 48 Dry Production	95.9	101.4	102.2	102.0	100.6	101.3	<b>0.7</b>	<b>5.4</b>
Canadian Imports	5.6	6.2	6.0	5.5	6.1	5.3	▼ -0.8	<b>V</b> -0.3
L48 Power	29.4	31.6	30.6	30.8	30.9	29.0	<b>-</b> 1.9	-0.4
L48 Residential & Commercial	17.3	11.9	13.0	14.8	21.1	16.1	<b>-</b> 5.0	-1.2
L48 Industrial	20.8	20.0	20.9	20.2	20.0	22.0	<b>2</b> .0	1.3
L48 Lease and Plant Fuel	5.4	5.6	5.7	5.7	5.6	5.7	<b>0.0</b>	0.3
L48 Pipeline Distribution	2.9	2.7	2.7	2.8	3.2	2.8	▼ -0.4	-0.1
L48 Regional Gas Consumption	75.6	71.8	72.9	74.4	80.8	75.5	▼ -5.2	<b>T-0.1</b>
Net LNG Exports	10.8	11.8	11.0	11.0	11.5	11.5	▼ 0.0	<b>0.7</b>
Total Mexican Exports	6.9	6.9	6.7	6.6	6.7	6.4	▼ -0.3	<b>V</b> -0.5
Implied Daily Storage Activity	8.2	17.1	17.6	15.5	7.7	13.3	5.6	5.0
EIA Reported Daily Storage Activity Daily Model Error	9.0 -0.8	18.4 -1.3	17.9 -0.3	15.9 -0.3	7.4 0.2			
Bany moad and	5.0		0.0	0.0				

#### **Monthly Balances**

	2Yr Ago	LY					MTD		
	Oct-20	Oct-21	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	МоМ	vs. LY
Lower 48 Dry Production	88.5	95.5	97.3	97.7	98.9	100.9	101.5	<b>0.6</b>	<b>6.1</b>
Canadian Imports	4.3	5.4	5.7	5.9	5.4	5.9	5.7	<b>-0.2</b>	<b>0.3</b>
L48 Power	30.6	30.4	38.3	44.3	43.1	36.9	30.3	<b>-</b> 6.5	<b>T</b> -0.1
L48 Residential & Commercial	15.5	12.6	8.9	8.3	8.0	9.0	16.4	<b>A</b> 7.4	<b>3</b> .8
L48 Industrial	22.7	21.7	19.1	19.8	21.1	20.9	20.6	<b>V</b> -0.3	<b>V</b> -1.1
L48 Lease and Plant Fuel	4.8	5.3	5.5	5.5	5.5	5.6	5.7	<b>A</b> 0.1	<b>a</b> 0.3
L48 Pipeline Distribution	2.5	2.7	2.9	3.1	3.0	2.8	2.9	<b>0</b> .0	<b>a</b> 0.2
L48 Regional Gas Consumption	76.1	72.7	74.6	<b>81.0</b>	80.8	75.2	75.9	<b>0.7</b>	<b>3.2</b>
Net LNG Exports	8.0	10.6	11.2	10.9	11.0	11.5	11.2	<b>-0.3</b>	<b>0.6</b>
Total Mexican Exports	6.0	6.6	7.1	7.0	6.9	6.7	6.6	<b>-0.1</b>	▼ 0.0
Implied Daily Storage Activity EIA Reported Daily Storage Activity	2.7	11.0	10.0	4.7	5.6	13.4	13.6		
Daily Model Error					0.0				

Source: Bloomberg, analytix.ai

# **Daily** Average Generation Data

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

ENERGY

	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	DoD	vs.7D
NRC Nuclear Daily Output	74.4	74.0	74.0	74.0	74.2	74.3	74.6	0.3	0.4
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	30.5	30.8	30.8	30.8	30.7	30.6	30.3	-0.3	-0.4
NRC % Nuclear Cap Utilization	75.6	75.3	75.3	75.3	75.4	75.5	75.8	0.3	0.4

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

	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	DoD	vs.7D
CALI Wind	284	1524	3487	2460	779	1558	2755	1198	1073
TEXAS Wind	9348	16995	22284	24198	18056	9223	11743	2520	-4941
US Wind	42116	63464	77979	83510	67333	49567	48539	-1028	-15456

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

	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	DoD	vs. 7D
US Wind	42116	63464	77979	83510	67333	49567	48539	-1028	-15456
US Solar	15296	15323	13323	11952	12544	13486	12627	-859	-1027
US Petroleum	1005	913	914	895	938	949	952	4	16
US Other	10347	9557	8899	9559	8843	8824	7952	-872	-1386
US Coal	83271	73285	61855	59355	70036	74239	76736	2497	6395
US Nuke	78022	77429	76760	77044	77609	77929	78044	115	579
US Hydro	20736	18921	17955	16850	19288	20214	20118	-96	1124
US Gas	168834	152248	129637	128637	155953	159701	157194	-2507	8026

# See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

# Storage Week Average Generation Data

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

	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	71.6	84.9	80.5	76.2	74.4	74.4	0.0	0.0
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	33.3	20.0	24.4	28.7	30.5	30.5	0.0	
NRC % Nuclear Cap Utilization	72.8	86.4	81.9	77.5	75.6	75.6	0.0	

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

	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	WoW Bcf/d Impact
CALI Wind	2314	1208	1370	1087	944	2188	1244	-0.2
TEXAS Wind	15462	8083	6160	7842	9710	16320	6610	-1.2
US Wind	53987	40606	32707	41063	45156	62704	17549	-3.3
							39%	
						0.7		

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

					LY	Current		
	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	WoW Bcf/d Impact
US Wind	53987	40606	32707	41063	45156	62704	17549	-3.3
US Solar	10171	16636	15455	14503	14449	13126	-1323	0.2
US Petroleum	907	379	664	842	957	931	-27	0.0
US Other	10232	11165	10786	11233	11733	8798	-2935	0.5
US Coal	75374	77592	74744	76322	79496	70320	-9176	1.7
US Nuke	74308	86665	83242	77235	76450	77551	1102	-0.2
US Hydro	23812	23101	21917	20001	19338	19066	-272	0.1
US Gas	155996	171876	171116	170286	161894	148652	-13242	-2.5

# See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai



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# Monthly Average Generation Data

#### Nuclear Generation Monthly Average - GWh (NRC)

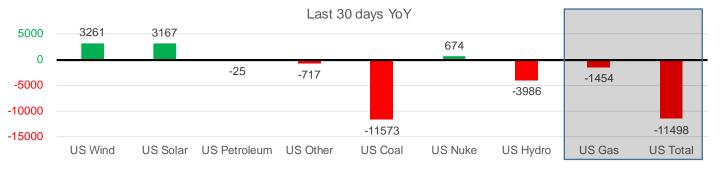
	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
NRC Nuclear Daily Output	77.3	76.5	90.6	90.5	86.2	76.1	76.5	-10.1	0.0
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	104.9	0.0	0.0
NRC Nuclear Outage	27.6	28.3	14.3	14.3	18.7	28.7	28.4	10.1	0.0
NRC % Nuclear Cap Utilization	78.6	77.8	92.1	92.1	87.7	77.4	77.8	-10.2	0.0

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

	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
CALI Wind	1379	1747	2719	2028	1608	1444	1448	-164	-299
TEXAS Wind	9717	11595	11765	8440	7993	10141	9964	2148	-1631
US Wind	38741	42268	39701	33222	38117	45501	45529	7384	3261

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

	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
US Wind	38741	42268	39701	33222	38117	45501	45529	<b>2</b> 7.3	<b>3261</b>
US Solar	8518	11179	18617	16962	16163	14287	14346	<b>58.9</b>	<b>A</b> 3167
US Petroleum	868	858	1252	1251	864	864	833	<b>T</b> -31	<b>-25</b>
US Other	8158	11276	10156	10543	10467	10534	10559	<b>2</b> 6	<b>T</b> -717
US Coal	78720	86813	119788	117203	92002	75300	75240	<b>—</b> -60	<b>T</b> -11573
US Nuke	80649	78052	92906	92976	89057	77830	78726	<b>A</b> 896	<b>674</b>
US Hydro	25364	24176	34227	30192	25202	19914	20190	<b>276</b>	▼ -3986
US Gas	164906	164158	235864	233739	199958	162513	162704	<b>A</b> 1192	💌 -1454
US Total	404160	418703	551987	535696	470459	407035	407205	<b>2358</b>	▼-11498



# See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

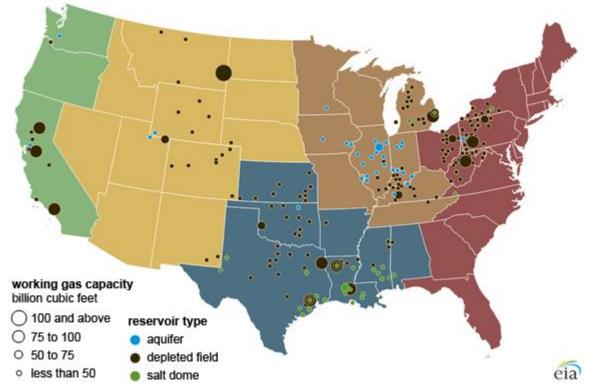


# Regional S/D Models Storage Projection

Week Ending	28-Oct			
	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	14.4	-0.9	13.5	94
East Midwest Mountain South Central Pacific	1.5 4.6 4.7 3.7 -0.1	2.8 0.9 -4.2 0.2 -0.6	4.2 5.5 0.5 3.9 -0.6	30 38 4 27 -4

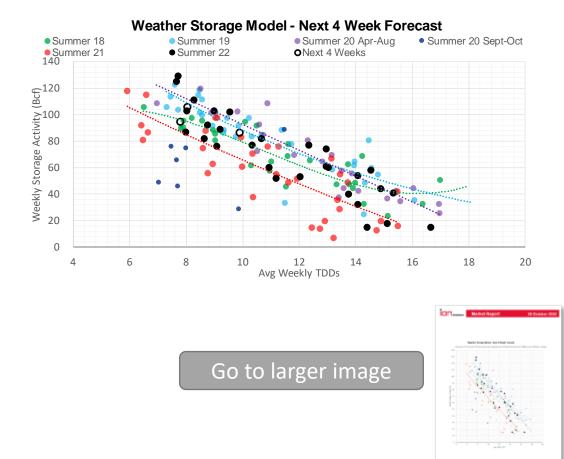
\*Adjustment Factor is calcuated based on historical regional deltas

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



# Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
28-Oct	7.8	94
04-Nov	8.1	106
11-Nov	9.9	86
18-Nov	#N/A	#N/A



ENERGY

10

5

0

19-May 26-May 2-Jun

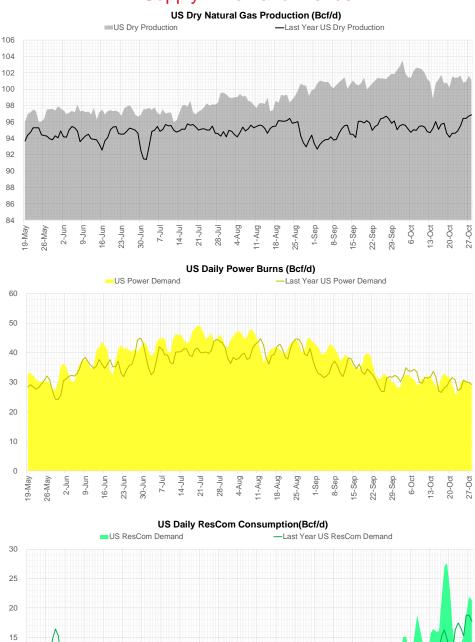
16-Jun

23-Jun

9-Jun

30-Jun

7-Jul 14-Jul



## Supply – Demand Trends

The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

21-Jul

28-Jul 4-Aug 11-Aug 18-Aug 25-Aug 8-Sep 15-Sep 22-Sep 29-Sep

6-Oct

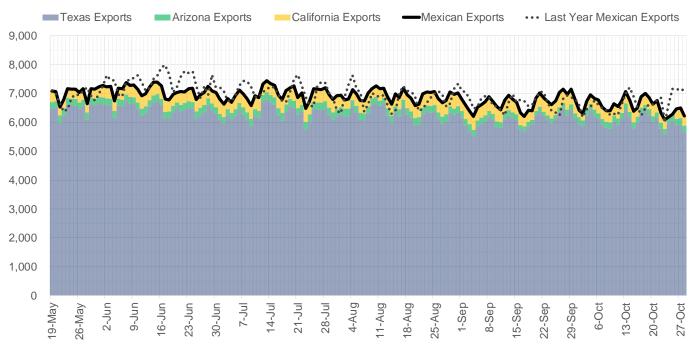
1-Sep

Source: Bloomberg

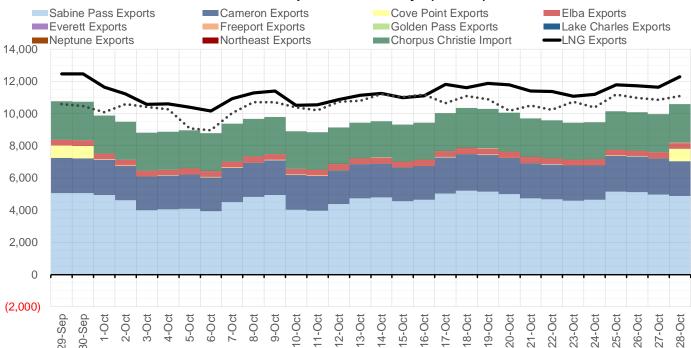
13-Oct 20-Oct 27-Oct







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



Source: Bloomberg



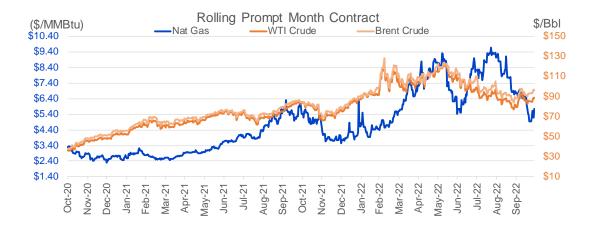
### Nat Gas Options Volume and Open Interest CME and ICE Combined

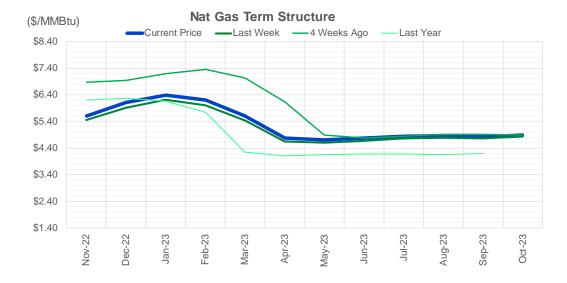
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
12	2022	Р	4.00	31676	12	2022	Р	4.00	48869
12	2022	Р	3.50	20458	12	2022	Р	5.00	29722
12	2022	Р	4.50	15780	5	2023	Р	2.00	27374
12	2022	Р	5.00	8406	12	2022	Р	6.00	24799
3	2023	С	1.00	7000	12	2022	Р	4.50	24694
3	2023	Р	1.00	7000	10	2023	Р	3.00	23144
12	2022	Р	3.00	6365	3	2023	С	10.00	22948
1	2023	Р	3.00	5311	4	2023	Р	3.00	22268
12	2022	С	8.00	4965	1	2023	С	10.00	22183
12	2022	C	10.00	4434	12	2022	С	10.00	22068
1	2023	C	8.00	3478	3	2023	Р	4.00	20924
1	2023	P	5.00	3405	12	2022	Р	3.50	20790
12	2022	Р	3.75	2928	2	2023	С	10.00	20266
1	2023	Р	6.00	2875	4	2023	Р	3.50	19550
12	2022	C	9.00	2785	4	2023	Р	2.00	19334
12	2022	P	4.75	2534	10	2023	Р	4.00	19286
12	2022	Р	5.50	2465	3	2023	С	20.00	18865
12	2022	С	6.00	2405	1	2023	Р	4.00	18813
3	2023	C	8.00	2297	10	2023	Р	2.00	18630
12	2022	C	7.00	2177	10	2023	Р	2.50	18390
1	2023	Ċ	8.50	2141	3	2023	Р	3.00	18337
8	2023	C	8.00	2020	12	2022	С	5.00	18279
1	2023	P	3.25	1954	5	2023	Р	3.00	17963
12	2022	С	50.00	1930	6	2023	Р	3.00	17585
4	2023	C	8.00	1920	4	2023	Р	4.00	17527
11	2023	Ċ	8.00	1850	12	2022	Р	5.50	17512
12	2023	C	8.00	1850	9	2023	Р	4.00	17211
2	2023	C	8.00	1803	3	2023	С	8.00	17082
5	2023	C	8.00	1741	5	2023	Р	3.50	16869
6	2023	C	8.00	1720	8	2023	Р	3.00	16476
7	2023	c	8.00	1720	7	2023	Р	3.00	16375
9	2023	C	8.00	1720	9	2023	Р	3.00	16375
10	2023	Ċ	8.00	1720	1	2023	P P	5.00	16345
2	2023	C	8.50	1711	10	2023		3.50	16218
1	2023	C	6.50	1708	12	2022	С	4.00	16195
3	2023	c	8.50	1700	12	2022	C P	8.00	16159
4	2023	c	8.50	1700	6 6	2023	P	3.50	16115
5	2023	č	8.50	1700	6	2023 2023	P	4.00 2.00	15966
6	2023	C	8.50	1700	8	2023	P	2.00 3.50	15949 15901
7	2023	č	8.50	1700	8 7	2023	P	3.50 3.50	
8	2023	C	8.50	1700	9	2023	P	3.50 3.50	15869
9	2023	c	8.50	1700	9 7	2023	P	3.50 4.00	15859 15849
10	2023	C	8.50	1700	2	2023	C	4.00 8.00	15845
11	2023	c	8.50	1700	2 5	2023	P	8.00 2.50	15845
12	2023	c	8.50	1700	5 12	2023	P	2.50	15805
12	2022	c	12.00	1673	3	2022 2023	P	3.00 2.75	15740
2	2022	P	5.00	1673	3 5	2023	P	2.75 4.00	15712
6	2023	P	2.50	1650	5	2023	P	4.00 3.00	15620
12	2023	c	2.50 8.50	1637	12	2023			
12	LULL	Ũ	0.00	1001	12	2022	Source	e: CME, ICE	10000.20

### Nat Gas Futures Open Interest CME and ICE Combined

	Hub Euturoo (1)				Hub Futures Con	troot Equipe	lant (10,000 MM
CIVIE Henry I	Hub Futures (10			ICE Henry r			No. 1
<b>DE0 00</b>	Current	Prior	Daily Change	<b>DEO 00</b>	Current	Prior	Daily Change
DEC 22	487	1355	-868	DEC 22	83367	83660	-294
JAN 23	103228	100137	3091	JAN 23	78339	76888	1451
FEB 23	137904	139761	-1857	FEB 23	74288	72409	1879
MAR 23	58175	58311	-136	MAR 23	66800	67555	-755
APR 23	96185	96101	84	APR 23	59638	60115	-477
MAY 23	77704	78988	-1284	MAY 23	57156	57645	-489
JUN 23	86967	86823	144	JUN 23	59588	59434	154
JUL 23	23875	23960	-85	JUL 23	48998	48698	300
AUG 23	34078	33601	477	AUG 23	48974	48643	331
SEP 23	22439	22391	48	SEP 23	47341	47095	246
OCT 23	30175	30090	85	OCT 23	44826	44900	-74
NOV 23	51542	51576	-34	NOV 23	56181	56117	64
DEC 23	22924	23679	-755	DEC 23	47416	47326	90
JAN 24	26795	27034	-239	JAN 24	41681	41741	-60
FEB 24	36609	36469	140	FEB 24	45704	45750	-46
MAR 24	10549	10543	6	MAR 24	31345	31287	58
APR 24	22152	22470	-318	APR 24	37045	36683	363
MAY 24	20584	20536	48	MAY 24	30466	30417	49
JUN 24	8743	8708	35	JUN 24	29165	29122	43
JUL 24	3232	3206	26	JUL 24	26215	26165	50
AUG 24	4321	4295	26	AUG 24	25547	25512	36
SEP 24	3976	3998	-22	SEP 24	25054	25023	31
OCT 24	2620	2568	52	OCT 24	24902	24866	36
NOV 24	9024	8916	108	NOV 24	29174	29100	74
DEC 24	4883	4905	-22	DEC 24	26281	26251	31
JAN 25	8633	8628	5	JAN 25	30196	30196	-1
FEB 25	17789	17785	4	FEB 25	23041	23084	-43
MAR 25	1845	1845	0	MAR 25	15729	15715	15
APR 25	6099	5294	805	APR 25	18079	18043	36
MAY 25	5777	5422	355	MAY 25	16523	16485	38

Source: CME, ICE





	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
Current Price	\$5.606	\$6.119	\$6.387	\$6.217	\$5.597	\$4.777	\$4.711	\$4.777	\$4.848	\$4.863	\$4.823	\$4.897
Last Week	\$5.462	\$5.928	\$6.212	\$6.016	\$5.444	\$4.655	\$4.604	\$4.681	\$4.765	\$4.789	\$4.762	\$4.839
vs. Last Week	\$0.144	\$0.191	\$0.175	\$0.201	\$0.153	\$0.122	\$0.107	\$0.096	\$0.083	\$0.074	\$0.061	\$0.058
4 Weeks Ago	\$6.868	\$6.955	\$7.200	\$7.370	\$7.042	\$6.132	\$4.902	\$4.782	\$4.844	\$4.906	\$4.917	\$4.889
vs. 4 Weeks Ago	-\$1.262	-\$0.836	-\$0.813	-\$1.153	-\$1.445	-\$1.355	-\$0.191	-\$0.005	\$0.004	-\$0.043	-\$0.094	\$0.008
Last Year	\$6.202	\$6.198	\$6.277	\$6.151	\$5.755	\$4.256	\$4.119	\$4.148	\$4.182	\$4.184	\$4.164	\$4.195
vs. Last Year	-\$0.596	-\$0.079	\$0.110	\$0.066	-\$0.158	\$0.521	\$0.592	\$0.629	\$0.666	\$0.679	\$0.659	\$0.702

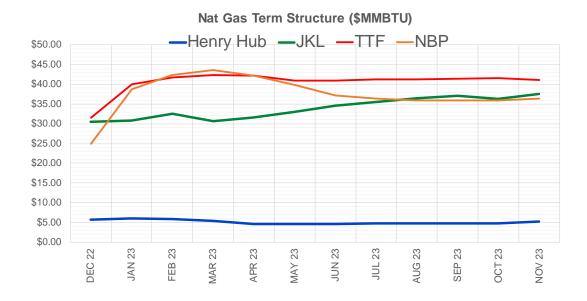
		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	5.00	7.51	2.51
TETCO M3	\$/MMBtu	4.50	4.87	0.37
FGT Zone 3	\$/MMBtu	4.46	5.71	1.25
Zone 6 NY	\$/MMBtu	4.46	5.05	0.59
Chicago Citygate	\$/MMBtu	4.97	4.97	0.00
Michcon	\$/MMBtu	4.87	4.88	0.01
Columbia TCO Pool	\$/MMBtu	4.54	4.55	0.01
Ventura	\$/MMBtu	4.95	5.15	0.20
Rockies/Opal	\$/MMBtu	5.70	4.75	-0.95
El Paso Permian Basin	\$/MMBtu	0.58	2.57	1.99
Socal Citygate	\$/MMBtu	5.85	5.50	-0.35
Malin	\$/MMBtu	6.43	5.16	-1.27
Houston Ship Channel	\$/MMBtu	4.61	4.67	0.06
Henry Hub Cash	\$/MMBtu	5.25	4.61	-0.64
AECO Cash	C\$/GJ	0.86	3.89	3.03
Station2 Cash	C\$/GJ	0.65	5.15	4.50
Dawn Cash	C\$/GJ	5.05	4.96	-0.09

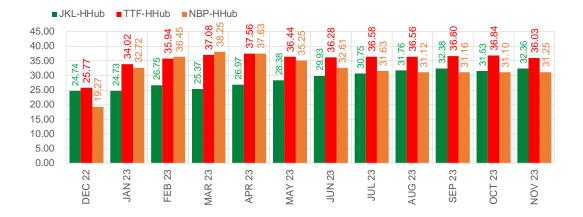
Source: CME, Bloomberg



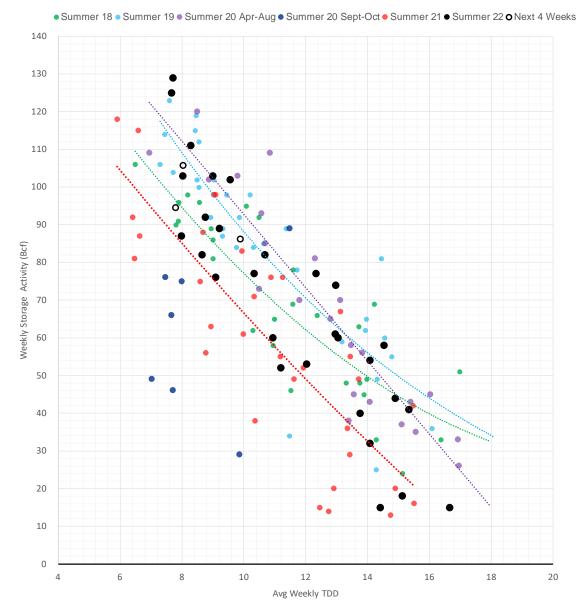
					VS	. 4 Weeks		
	Units	<b>Current Price</b>	vs.	Last Week		Ago	vs	s. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224		0.000		0.000		0.000
NatGas Oct21/Nov21	\$/MMBtu	0.361		0.000		0.000		0.000
NatGas Oct21/Jan22	\$/MMBtu	-1.817		0.000		0.000	▼	-1.847
NatGas Apr22/Oct22	\$/MMBtu	1.532		0.000		0.000		1.557
WTI Crude	\$/Bbl	89.08		3.100		7.850		6.270
Brent Crude	\$/Bbl	96.96		4.580		8.470		12.640
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	433.39		57.710		91.930		181.740
Propane, Mt. Bel	cents/Gallon	0.85		0.008		-0.138	▼	-0.591
Ethane, Mt. Bel	cents/Gallon	0.40		0.001		-0.060	▼	-0.031
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						

ENERGY

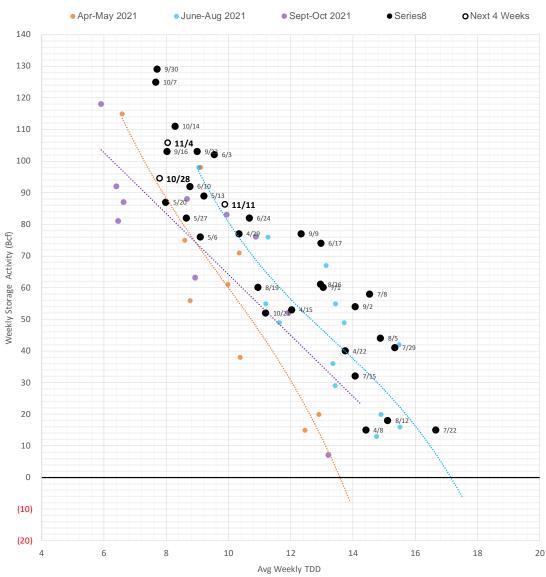




	<b>DEC 22</b>	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	<b>JUN 23</b>	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23
Henry Hub	\$5.748	\$6.024	\$5.857	\$5.326	\$4.631	\$4.584	\$4.651	\$4.740	\$4.754	\$4.713	\$4.778	\$5.153
JKL	\$30.490	\$30.755	\$32.605	\$30.695	\$31.605	\$32.965	\$34.580	\$35.490	\$36.510	\$37.095	\$36.305	\$37.515
JKL-HHub	\$24.742	\$24.731	\$26.748	\$25.369	\$26.974	\$28.381	\$29.929	\$30.750	\$31.756	\$32.382	\$31.527	\$32.362
TTF	\$31.513	\$40.046	\$41.793	\$42.406	\$42.194	\$41.020	\$40.930	\$41.324	\$41.318	\$41.509	\$41.621	\$41.184
TTF-HHub	\$25.765	\$34.022	\$35.936	\$37.080	\$37.563	\$36.436	\$36.279	\$36.584	\$36.564	\$36.796	\$36.843	\$36.031
NBP	\$25.015	\$38.747	\$42.302	\$43.574	\$42.261	\$39.838	\$37.259	\$36.367	\$35.869	\$35.873	\$35.877	\$36.404
NBP-HHub	\$19.267	\$32.723	\$36.445	\$38.248	\$37.630	\$35.254	\$32.608	\$31.627	\$31.115	\$31.160	\$31.099	\$31.251



#### Weather Storage Model - Next 4 Week Forecast



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