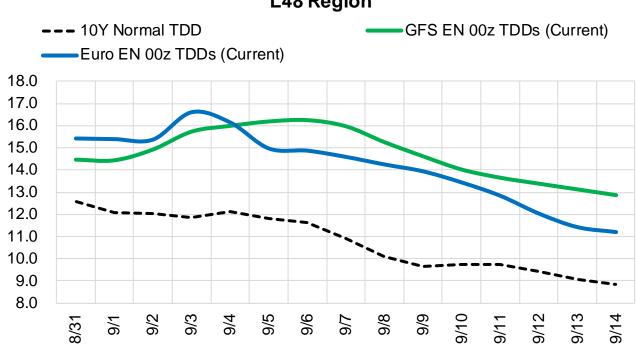


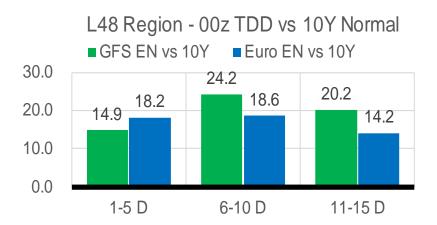


### Short-term Weather Model Outlooks (00z)



### L48 Region

## Vs. 10Y Normal



Source: WSI, Bloomberg

# **Market Report**

## 31 August 2022

### **Daily Balances**

	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	DoD	vs. 7D
Lower 48 Dry Production	99.1	99.7	100.5	100.4	100.2	99.0	98.6	<b>-0.4</b>	▼ -1.2
Canadian Imports	5.7	5.8	5.5	5.5	5.9	5.9	6.0	<b>0.1</b>	<b>0.3</b>
L48 Power	43.9	42.4	39.7	40.2	43.9	43.4	41.2	▼ -2.2	▼ -1.0
L48 Residential & Commercial	8.2	8.1	7.5	7.6	7.9	8.1	8.0	▼ 0.0	<b>a</b> 0.1
L48 Industrial	21.8	22.0	22.6	22.8	23.1	23.1	22.8	<b>T</b> -0.3	<b>a</b> 0.3
L48 Lease and Plant Fuel	5.4	5.4	5.5	5.5	5.4	5.4	5.3	▼ -0.1	<b>v</b> -0.1
L48 Pipeline Distribution	2.8	2.7	2.5	2.5	2.8	2.7	2.6	▼ -0.1	▼ 0.0
L48 Regional Gas Consumption	82.1	80.6	77.8	78.6	83.1	82.7	80.0	▼ -2.7	▼ -0.8
Net LNG Delivered	11.55	10.71	11.62	10.95	10.56	10.84	11.09	<b>0.2</b>	▲ 0.0
Total Mexican Exports	7.1	7.0	6.6	6.7	6.9	6.9	6.8	▼ -0.1	<b>v</b> -0.1
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Frror	4.0	7.1	10.0	9.6	5.5	4.5	6.7		

Lower 48 Component Models

Daily Model Error

### **EIA Storage Week Balances**

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	vs. 4W
Lower 48 Dry Production	97.3	97.7	99.0	98.5	98.0	98.7	<b>0.8</b>	<b>0.5</b>
Canadian Imports	6.2	5.9	5.7	5.4	4.8	5.4	<b>0.6</b>	▼ 0.0
L48 Power	45.5	44.8	44.4	45.7	39.7	41.6	<b>1</b> .9	▼-2.1
L48 Residential & Commercial	8.7	8.6	8.3	8.3	7.9	8.0	<b>a</b> 0.2	<b>-</b> 0.2
L48 Industrial	21.0	19.4	20.6	21.4	21.5	21.2	<b>v</b> -0.4	<b>a</b> 0.4
L48 Lease and Plant Fuel	5.3	5.3	5.4	5.4	5.3	5.4	<b>0.0</b>	▲ 0.0
L48 Pipeline Distribution	2.9	2.8	2.8	2.9	2.5	2.6	<b>A</b> 0.1	<b>-</b> 0.1
L48 Regional Gas Consumption	83.3	80.9	81.5	83.7	76.9	78.8	<b>1.9</b>	▼ -2.0
Net LNG Exports	10.8	10.7	10.9	10.9	10.9	11.1	<b>0.2</b>	<b>0.3</b>
Total Mexican Exports	7.1	6.9	6.9	7.0	7.0	6.9	<b>▼</b> -0.1	▼-0.1
Implied Daily Storage Activity	2.3	5.0	5.3	2.2	7.9	7.4	-0.5	
EIA Reported Daily Storage Activity	2.1 0.2	5.9 -0.8	6.3 -0.9	2.6	8.6 -0.6			
Daily Model Error	0.2	-0.8	-0.9	-0.4	-0.0			

#### **Monthly Balances**

2Yr Ago	LY					MTD		
Aug-20	Aug-21	Apr-22	May-22	Jun-22	Jul-22	Aug-22	МоМ	vs. LY
88.9	93.9	95.0	96.0	97.2	97.4	98.7	<b>1.3</b>	<b>4.8</b>
4.9	5.1	5.8	5.1	5.7	5.9	5.3	<b>-0.6</b>	<b>0.2</b>
41.0	40.4	25.1	29.7	36.8	43.4	42.7	<b>-</b> 0.7	<b>2</b> .3
7.7	7.9	22.3	12.4	9.0	8.5	8.1	▼-0.4	<b>0.2</b>
20.8	21.0	20.1	19.8	20.6	20.3	21.5	<b>1.3</b>	<b>0.5</b>
4.8	5.1	5.2	5.3	5.2	5.3	5.4	<b>A</b> 0.1	<b>0.3</b>
2.5	2.6	2.6	2.4	2.5	2.8	2.7	<b>-</b> 0.1	<b>A</b> 0.1
76.9	77.0	75.3	69.6	74.2	80.2	80.4	<b>0.2</b>	<b>3.4</b>
4.0	10.5	12.3	12.5	11.2	10.9	11.0	<b>0.0</b>	<b>0.5</b>
6.0	6.9	6.7	7.0	7.1	7.0	6.9	<b>-0.1</b>	<b>0.1</b>
6.9	4.7	6.5	12.0	10.4	5.2	5.7		
	Aug-20 88.9 4.9 41.0 7.7 20.8 4.8 2.5 76.9 4.0 6.0	Aug-20 Aug-21   88.9 93.9   4.9 5.1   41.0 40.4   7.7 7.9   20.8 21.0   4.8 5.1   2.5 2.6   76.9 77.0   4.0 10.5   6.0 6.9	Aug-20 Aug-21 Apr-22   88.9 93.9 95.0   4.9 5.1 5.8   41.0 40.4 25.1   7.7 7.9 22.3   20.8 21.0 20.1   4.8 5.1 5.2   2.5 2.6 2.6   76.9 77.0 75.3   4.0 10.5 12.3   6.0 6.9 6.7	Aug-20 Aug-21 Apr-22 May-22   88.9 93.9 95.0 96.0   4.9 5.1 5.8 5.1   41.0 40.4 25.1 29.7   7.7 7.9 22.3 12.4   20.8 21.0 20.1 19.8   4.8 5.1 5.2 5.3   2.5 2.6 2.6 2.4   76.9 77.0 75.3 69.6   4.0 10.5 12.3 12.5   6.0 6.9 6.7 7.0	Aug-20 Aug-21 Apr-22 May-22 Jun-22   88.9 93.9 95.0 96.0 97.2   4.9 5.1 5.8 5.1 5.7   41.0 40.4 25.1 29.7 36.8   7.7 7.9 22.3 12.4 9.0   20.8 21.0 20.1 19.8 20.6   4.8 5.1 5.2 5.3 5.2   2.5 2.6 2.6 2.4 2.5   76.9 77.0 75.3 69.6 74.2   4.0 10.5 12.3 12.5 11.2   6.0 6.9 6.7 7.0 7.1	Aug-20 Aug-21 Apr-22 May-22 Jun-22 Jul-22   88.9 93.9 95.0 96.0 97.2 97.4   4.9 5.1 5.8 5.1 5.7 5.9   41.0 40.4 25.1 29.7 36.8 43.4   7.7 7.9 22.3 12.4 9.0 8.5   20.8 21.0 20.1 19.8 20.6 20.3   4.8 5.1 5.2 5.3 5.2 5.3   2.5 2.6 2.6 2.4 2.5 2.8   76.9 77.0 75.3 69.6 74.2 80.2   4.0 10.5 12.3 12.5 11.2 10.9   6.0 6.9 6.7 7.0 7.1 7.0	Aug-20 Aug-21 Apr-22 May-22 Jun-22 Jun-22 Aug-22   88.9 93.9 95.0 96.0 97.2 97.4 98.7   4.9 5.1 5.8 5.1 5.7 5.9 5.3   41.0 40.4 25.1 29.7 36.8 43.4 42.7   7.7 7.9 22.3 12.4 9.0 8.5 8.1   20.8 21.0 20.1 19.8 20.6 20.3 21.5   4.8 5.1 5.2 5.3 5.2 5.3 5.4   2.5 2.6 2.6 2.4 2.5 2.8 2.7   76.9 77.0 75.3 69.6 74.2 80.2 80.4   4.0 10.5 12.3 12.5 11.2 10.9 11.0   6.0 6.9 6.7 7.0 7.1 7.0 6.9	Aug-20 Aug-21 Apr-22 May-22 Jun-22 Jul-22 Aug-22 Mom   88.9 93.9 95.0 96.0 97.2 97.4 98.7 ▲ 1.3   4.9 5.1 5.8 5.1 5.7 5.9 5.3 ▼-0.6   41.0 40.4 25.1 29.7 36.8 43.4 42.7 ▼-0.7   7.7 7.9 22.3 12.4 9.0 8.5 8.1 ▼-0.4   20.8 21.0 20.1 19.8 20.6 20.3 21.5 ▲ 1.3   4.8 5.1 5.2 5.3 5.2 5.3 5.4 ▲ 0.1   2.5 2.6 2.6 2.4 2.5 2.8 2.7 ▼-0.1   76.9 77.0 75.3 69.6 74.2 80.2 80.4 ▲ 0.2   4.0 10.5 12.3 12.5 11.2 10.9 11.0 ▲ 0.0   6.0 6.9 6.7 7.0

Source: Bloomberg, analytix.ai

# **Daily** Average Generation Data

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

ENERGY

	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	DoD	vs.7D
NRC Nuclear Daily Output	90.9	90.9	90.9	91.0	90.4	90.4	88.1	-2.3	-2.7
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	14.0	14.0	14.0	13.9	13.9	13.9	16.8	2.9	2.9
NRC % Nuclear Cap Utilization	92.4	92.4	92.4	92.5	91.9	91.9	89.6	-2.4	-2.7

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

	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	DoD	vs.7D
CALI Wind	1819	1516	1912	2283	2667	2008	1290	-718	-744
TEXAS Wind	3324	3215	2240	3799	9831	13304	10087	-3217	4135
US Wind	17525	17752	16857	28825	50732	55483	42928	-12555	11733

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

	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	DoD	vs.7D
US Wind	17525	17752	16857	28825	50732	55483	42928	-12555	11733
US Solar	16337	15824	15307	16799	17889	16955	16797	-157	279
US Petroleum	1093	1042	1096	1025	1019	1023	1393	370	343
US Other	10336	10576	10453	10483	10409	10320	10837	516	407
US Coal	117912	119486	119850	114606	104566	105634	116275	10642	2600
US Nuke	93332	93101	93476	93293	92962	92031	91214	-817	-1818
US Hydro	30628	31357	32277	30710	25717	25415	28797	3382	-553
US Gas	234220	237532	242422	237256	206192	203260	240799	37539	13986

# See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

# Storage Week Average Generation Data

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

22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	WoW Bcf/d Impact
90.5	90.1	90.6	90.7	91.2	90.3	-0.9	0.2
104.9	104.9	104.9	104.9	104.9	104.9	0.0	
14.4	14.8	14.3	14.1	13.7	14.5	0.9	
92.0	91.6	92.1	92.3	92.8	91.9	-0.9	
	90.5 104.9 14.4	90.5 90.1   104.9 104.9   14.4 14.8	90.5 90.1 90.6   104.9 104.9 104.9   14.4 14.8 14.3	90.5 90.1 90.6 90.7   104.9 104.9 104.9 104.9   14.4 14.8 14.3 14.1	90.5 90.1 90.6 90.7 91.2   104.9 104.9 104.9 104.9 104.9   14.4 14.8 14.3 14.1 13.7	90.5 90.1 90.6 90.7 91.2 90.3   104.9 104.9 104.9 104.9 104.9 104.9   14.4 14.8 14.3 14.1 13.7 14.5	90.5 90.1 90.6 90.7 91.2 90.3 -0.9   104.9 104.9 104.9 104.9 104.9 0.0   14.4 14.8 14.3 14.1 13.7 14.5 0.9

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

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	WoW Bcf/d Impact
CALI Wind	2470	3049	1933	1901	1953	2324	371	-0.1
TEXAS Wind	11182	14533	14443	8762	7139	5879	-1260	0.2
US Wind	40505	44003	43887	32976	28474	23568	-4905	0.9
							-17%	
						-0.2		

### Generation Weekly Average - MWh (EIA)

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	WoW Bcf/d Impact
US Wind	40505	44003	43887	32976	28474	23568	-4905	0.9
US Solar	18727	18098	17577	17568	16951	15739	-1213	0.2
US Petroleum	1707	1465	1131	1737	1045	1047	2	0.0
US Other	10492	10690	10470	10725	9882	10249	367	-0.1
US Coal	121563	128742	122297	122575	112824	114385	1561	-0.3
US Nuke	92543	92281	92607	92966	94032	92872	-1160	0.2
US Hydro	33645	32210	31339	30400	30431	30474	43	0.0
US Gas	249151	238167	236187	252451	218061	226350	8289	1.5

## See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

est.



# Monthly Average Generation Data

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

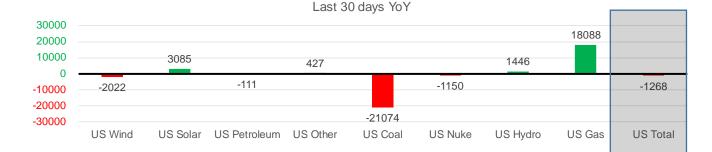
	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	May-22	Jun-22	Jul-22	Aug-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
NRC Nuclear Daily Output	90.8	91.5	81.7	88.5	90.6	90.5	90.6	0.0	-1.0
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	104.9	0.0	0.0
NRC Nuclear Outage	14.0	13.3	23.2	16.3	14.3	13.8	13.8	-0.5	0.5
NRC % Nuclear Cap Utilization	92.4	93.1	83.0	90.0	92.1	92.1	92.1	0.0	-1.0

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

	2Yr Ago	LY				MTD			
	Same 30 S days	Same 30 days	May-22	Jun-22	Jul-22	Aug-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
CALI Wind	2195	2446	3361	2875	2719	2015	2041	-704	-405
TEXAS Wind	8866	9947	16756	13441	11765	8849	8662	-2917	-1285
US Wind	31441	36044	56649	47161	39701	34381	34022	-5320	-2022

### Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	May-22	Jun-22	Jul-22	Aug-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
US Wind	31441	36044	56649	47161	39701	34381	34022	▼ -358.8	<b>-2022</b>
US Solar	10624	13817	18212	19386	18593	16904	16902	<b>T</b> -1.8	<b>3085</b>
US Petroleum	1152	1387	518	998	1252	1268	1277	8	💌 -111
US Other	9748	9964	7723	8530	9961	10391	10391	<b>▲</b> 0	<b>427</b>
US Coal	123058	137862	85695	105186	119788	117063	116787	<b>-275</b>	<b>T-21074</b>
US Nuke	93074	94100	85495	89904	92883	92942	92949	<b>A</b> 7	💌 -1150
US Hydro	29375	28646	31811	37522	34185	30127	30092	-35	<b>446</b>
US Gas	218562	214794	157670	199828	235788	232896	232883	<b>-656</b>	<b>18088</b>
US Total	514835	536431	443969	508081	<b>551806</b>	535836	535163	▼ -953	▼ -1268



## See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

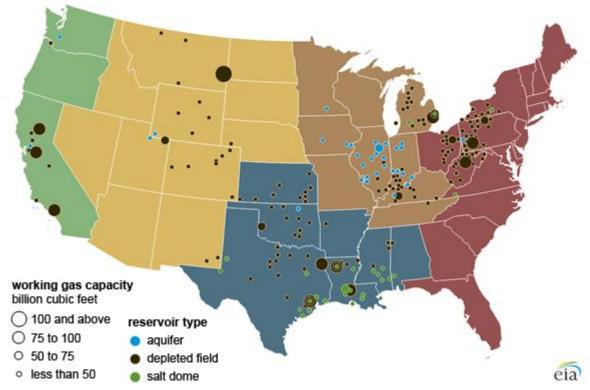


### Regional S/D Models Storage Projection

Week Ending	26-Aug			
			Daily	Mookhy
		Daily	Average Storage	Weekly Adjusted
	Daily Raw Storage	Adjustment Factor	Activity (Adjusted) *	Storage Activity
L48	8.1	-0.1	8.0	56
East	1.0	2.0	3.0	21
Midwest	4.7	-0.7	4.0	28
Mountain	4.5	-4.1	0.5	3
South Central	-2.3	3.1	0.9	6
Pacific	0.2	-0.5	-0.4	-2

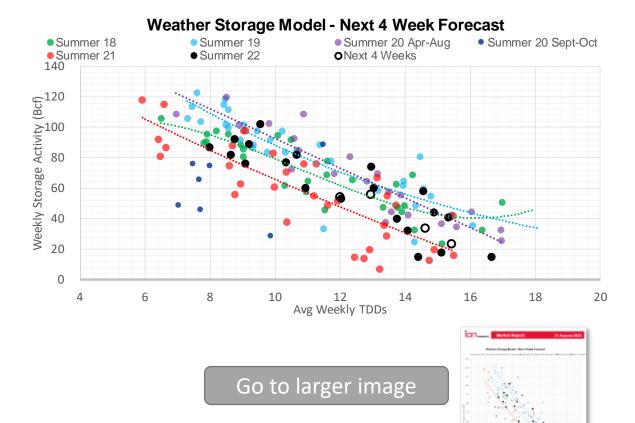
\*Adjustment Factor is calcuated based on historical regional deltas

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

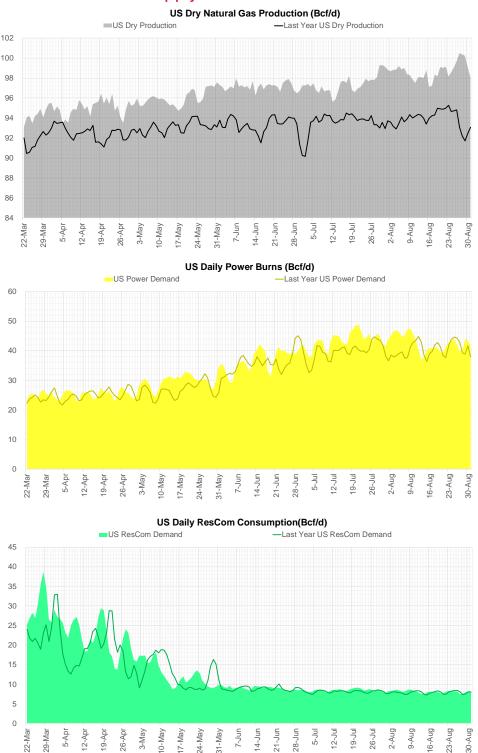


### Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
26-Aug	13.0	56
02-Sep	14.6	34
09-Sep	15.4	23
16-Sep	12.0	54







Source: Bloomberg

30-Aug

2-Aug

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.

31-May 7-Jun 5-Jul 12-Jul 19-Jul

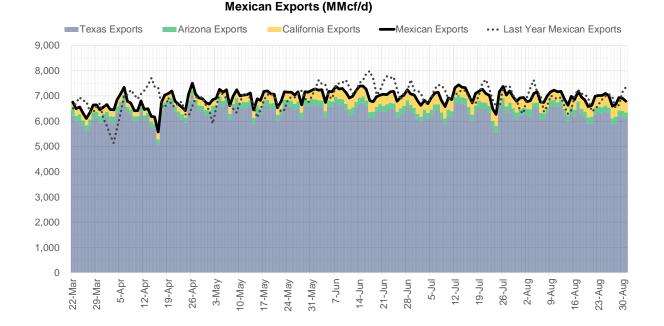
22-Mar

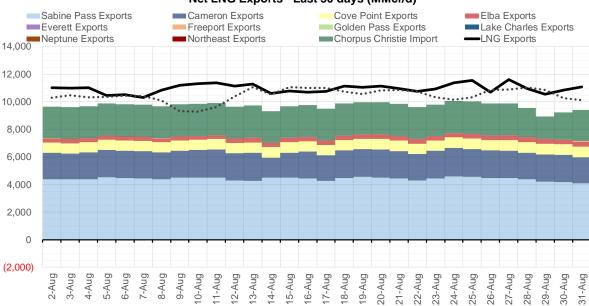
5-Apr

3-Mav 10-May 17-May 24-May

26-Apr







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

Source: Bloomberg

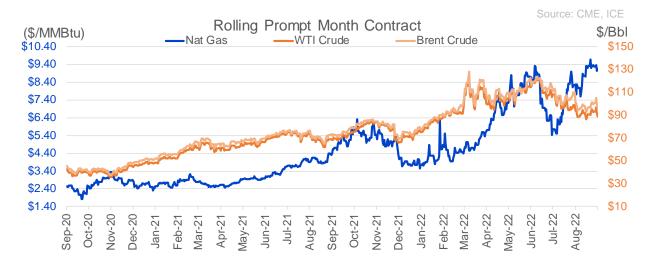


### Nat Gas Options Volume and Open Interest CME and ICE Combined

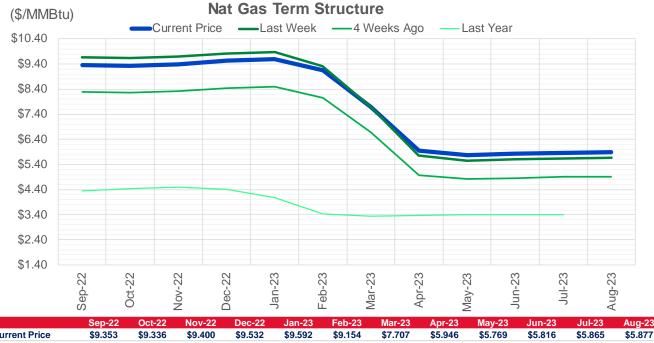
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
10	2022	Р	7.00	4670	10	2022	Р	3.00	36673
10	2022	С	15.00	3523	10	2022	С	6.00	36011
10	2022	Р	6.00	3247	10	2022	Р	6.00	33101
10	2022	Р	8.00	2316	10	2022	Р	5.00	31154
3	2023	С	20.00	2099	10	2022	Р	2.50	28111
10	2022	С	10.00	2091	10	2022	С	5.00	23273
10	2022	С	12.00	1938	10	2022	Р	3.50	22419
10	2022	Р	7.50	1753	3	2023	С	10.00	22003
11	2022	Р	6.00	1682	10	2022	Р	4.00	21261
1	2023	Р	4.00	1550	10	2022	С	12.00	21235
11	2022	Р	4.00	1541	12	2022	Р	5.00	21234
10	2022	Р	9.00	1530	5	2023	Р	2.00	21197
1	2023	С	20.00	1500	10	2022	С	10.00	20602
10	2022	С	10.50	1471	11	2022	Р	4.00	20494
11	2022	Р	8.00	1453	12	2022	С	5.00	18218
2	2023	Р	5.00	1385	3	2023	Р	3.00	18152
2	2023	С	20.00	1376	3	2023	С	20.00	17630
10	2022	С	11.00	1255	11	2022	Р	6.00	17411
10	2022	Р	8.50	1238	10	2023	Р	2.50	17300
1	2023	Р	5.00	1235	10	2022	С	8.00	16939
10	2023	Р	3.00	1230	10	2022	Р	2.00	16759
11	2023	Р	3.00	1230	4	2023	Р	3.00	16704
12	2023	Р	3.00	1230	10	2022	Р	5.50	16659
10	2022	Р	7.40	1103	10	2023	Р	3.00	16328
11	2022	Р	5.00	1052	2	2023	С	10.00	16254
1	2023	С	17.00	1050	11	2022	С	12.00	15996
10	2022	P	5.00	1029	11	2022	С	4.00	15755
2	2023	С	17.00	1000	1	2023	С	10.00	15689
3	2023	C	17.00	1000	10	2023	P P	2.00	15480
11	2022	С	15.00	990	10	2022	P	7.00	15384
11	2022	С	10.00	971	10	2022		3.25	15196
4	2023	P	4.50	875	10	2022	C P	7.00 5.00	15090
8	2023	Р	4.50	875	1 10	2023 2022	P	5.00 8.00	14913 14891
10	2022	С	9.00	869	2	2022 2023	P C	8.00 9.00	14644
6	2023	С	7.00	850	12	2023	c	9.00 6.00	13981
10	2022	С	11.50	801	12	2022	P	5.00	13977
2	2023	C	15.00	750	10	2022	Р С	9.00	13956
11	2022	P	7.50	731	4	2022	P	9.00 2.75	13950
4	2023	Р	4.25	725	4 11	2023	C	10.00	13801
11	2022	С	20.00	706	10	2022	c	10.00	13790
2	2023	C	9.00	690	6	2022	P	3.00	13755
3	2023	P	5.00	635	5	2023	P	3.00	13658
4	2023	P	4.00	615	11	2023	C	8.00	13573
11	2022	P	9.00	601	10	2022	c	4.00	13309
1	2023	P	3.00	600	10	2022	P	4.00 2.75	13286
10	2022	C	17.00	588	10	2022	C	3.00	13200
10	2022	P	7.25	581	7	2022	P	3.00	13105
11	2022	P	7.00	560	5	2023	c	5.00	13023
4	2023	P	4.60	550	3	2023	P	4	12994
·		-		200	0	2020	Source	e: CME, ICE	12007

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

CME Henry H	lub Futures (10			ICE Henry Hub Futures Contract Equivalent (10,000 MM						
	Current	Prior	Daily Change		Current	Prior	Daily Change			
OCT 22	122550	125167	-2617	OCT 22	79438	82950	-3511			
NOV 22	129147	129684	-537	NOV 22	69768	78877	-9109			
DEC 22	69674	69550	124	DEC 22	68342	69429	-1087			
JAN 23	88027	87966	61	JAN 23	68088	69162	-1074			
FEB 23	38024	37805	219	FEB 23	62890	67940	-5050			
MAR 23	59881	59735	146	MAR 23	55120	62934	-7814			
APR 23	71310	71887	-577	APR 23	56017	55159	858			
MAY 23	76199	75539	660	MAY 23	53886	57117	-3232			
JUN 23	24197	23769	428	JUN 23	45731	55719	-9988			
JUL 23	24866	24932	-66	JUL 23	45086	47398	-2312			
AUG 23	19454	19600	-146	AUG 23	43765	46901	-3136			
SEP 23	21826	21786	40	SEP 23	42918	45560	-2642			
OCT 23	53448	53335	113	OCT 23	50613	44683	5930			
NOV 23	14191	14081	110	NOV 23	45930	52369	-6439			
DEC 23	12548	12562	-14	DEC 23	41716	46004	-4289			
JAN 24	19723	19749	-26	JAN 24	40300	41785	-1485			
FEB 24	8206	8154	52	FEB 24	31327	40364	-9037			
MAR 24	18176	18159	17	MAR 24	36261	30921	5341			
APR 24	14791	14649	142	APR 24	28641	35836	-7194			
MAY 24	7310	7313	-3	MAY 24	27577	28769	-1192			
JUN 24	2886	2780	106	JUN 24	24809	27716	-2907			
JUL 24	2557	2555	2	JUL 24	24694	24934	-240			
AUG 24	3440	3353	87	AUG 24	24291	24818	-527			
SEP 24	2069	2065	4	SEP 24	24190	24412	-223			
OCT 24	9133	9006	127	OCT 24	27642	24332	3310			
NOV 24	4943	4947	-4	NOV 24	25311	27718	-2407			
DEC 24	8079	8090	-11	DEC 24	28595	25409	3186			
JAN 25	16760	16614	146	JAN 25	21995	28704	-6709			
FEB 25	1122	976	146	FEB 25	14680	21953	-7273			
MAR 25	5141	0	5141	MAR 25	16965	14666	2299			



# **Market Report**



Current Price	\$9.353	\$9.336	\$9.400	\$9.532	\$9.592	\$9.154	\$7.707	\$5.946	\$5.769	\$5.816	\$5.865	\$5.877
Last Week	\$9.680	\$9.647	\$9.710	\$9.810	\$9.862	\$9.309	\$7.687	\$5.752	\$5.557	\$5.602	\$5.649	\$5.662
vs. Last Week	-\$0.327	-\$0.311	-\$0.310	-\$0.278	-\$0.270	-\$0.155	\$0.020	\$0.194	\$0.212	\$0.214	\$0.216	\$0.215
4 Weeks Ago	\$8.283	\$8.260	\$8.330	\$8.429	\$8.496	\$8.042	\$6.698	\$4.982	\$4.809	\$4.857	\$4.909	\$4.920
vs. 4 Weeks Ago	\$1.070	\$1.076	\$1.070	\$1.103	\$1.096	\$1.112	\$1.009	\$0.964	\$0.960	\$0.959	\$0.956	\$0.957
Last Year	\$4.305	\$4.359	\$4.448	\$4.499	\$4.404	\$4.075	\$3.420	\$3.330	\$3.356	\$3.389	\$3.398	\$3.387
vs. Last Year	\$5.048	\$4.977	\$4.952	\$5.033	\$5.188	\$5.079	\$4.287	\$2.616	\$2.413	\$2.427	\$2.467	\$2,490

		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	8.65	8.52	-0.13
TETCO M3	\$/MMBtu	8.44	7.95	-0.49
FGT Zone 3	\$/MMBtu	8.59	9.99	1.40
Zone 6 NY	\$/MMBtu	8.59	7.92	-0.67
Chicago Citygate	\$/MMBtu	8.46	8.77	0.31
Michcon	\$/MMBtu	8.48	8.66	0.18
Columbia TCO Pool	\$/MMBtu	8.27	8.04	-0.23
Ventura	\$/MMBtu	5.95	8.55	2.60
Rockies/Opal	\$/MMBtu	8.84	8.49	-0.35
El Paso Permian Basin	\$/MMBtu	7.86	7.79	-0.08
Socal Citygate	\$/MMBtu	13.82	9.83	-4.00
Malin	\$/MMBtu	8.45	8.66	0.21
Houston Ship Channel	\$/MMBtu	8.41	8.69	0.28
Henry Hub Cash	\$/MMBtu	9.10	8.45	-0.65
AECO Cash	C\$/GJ	1.41	4.09	2.68
Station2 Cash	C\$/GJ	0.27	8.34	8.07
Dawn Cash	C\$/GJ	8.46	8.64	0.18

Source: CME, Bloomberg



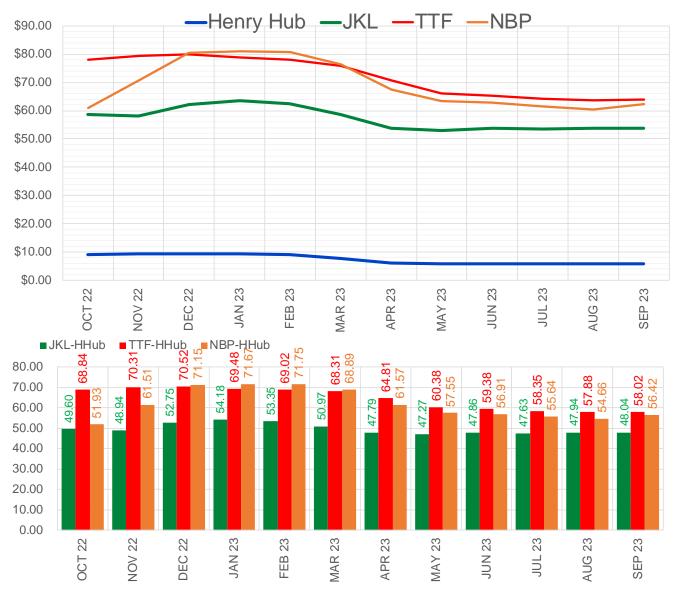
					VS	s. 4 Weeks		
	Units	<b>Current Price</b>	vs.	Last Week		Ago	vs	. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224		0.000		0.000		1.464
NatGas Oct21/Nov21	\$/MMBtu	0.361		0.000		0.000		0.313
NatGas Oct21/Jan22	\$/MMBtu	-1.817		0.000		0.000	▼	-2.003
NatGas Apr22/Oct22	\$/MMBtu	3.706		-0.113		1.344		3.719
WTI Crude	\$/Bbl	91.64		-2.100		-2.780		23.140
Brent Crude	\$/Bbl	99.31		-0.910		-1.230		26.320
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	381.71		-2.480		43.670		168.610
Propane, Mt. Bel	cents/Gallon	1.09		-0.001		-0.021		-0.020
Ethane, Mt. Bel	cents/Gallon	0.60		-0.004		0.040		0.267
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						



Market Report



Nat Gas Term Structure (\$MMBTU)

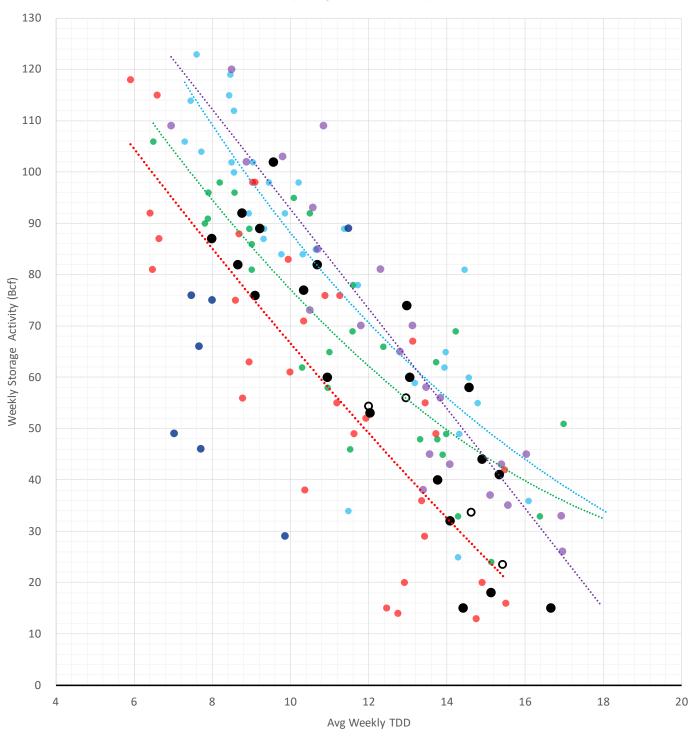


	OCT 22	NOV 22	<b>DEC 22</b>	<b>JAN 23</b>	FEB 23	MAR 23	APR 23	MAY 23	<b>JUN 23</b>	JUL 23	AUG 23	SEP 23
Henry Hub	\$9.149	\$9.210	\$9.350	\$9.414	\$9.003	\$7.660	\$5.967	\$5.795	\$5.843	\$5.881	\$5.898	\$5.880
JKL	\$58.745	\$58.145	\$62.095	\$63.595	\$62.355	\$58.625	\$53.760	\$53.065	\$53.700	\$53.515	\$53.835	\$53.915
JKL-HHub	\$49.596	\$48.935	\$52.745	\$54.181	\$53.352	\$50.965	\$47.793	\$47.270	\$47.857	\$47.634	\$47.937	\$48.035
TTF	\$77.986	\$79.515	\$79.871	\$78.890	\$78.027	\$75.971	\$70.779	\$66.178	\$65.227	\$64.235	\$63.777	\$63.899
TTF-HHub	\$68.837	\$70.305	\$70.521	\$69.476	\$69.024	\$68.311	\$64.812	\$60.383	\$59.384	\$58.354	\$57.879	\$58.019
NBP	\$61.079	\$70.721	\$80.504	\$81.088	\$80.752	\$76.549	\$67.539	\$63.345	\$62.754	\$61.521	\$60.560	\$62.299
NBP-HHub	\$51.930	\$61.511	\$71.154	\$71.674	\$71.749	\$68.889	\$61.572	\$57.550	\$56.911	\$55.640	\$54.662	\$56.419



### Weather Storage Model - Next 4 Week Forecast

• Summer 18 • Summer 19 • Summer 20 Apr-Aug • Summer 20 Sept-Oct • Summer 21 • Summer 22 • Next 4 Weeks



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16

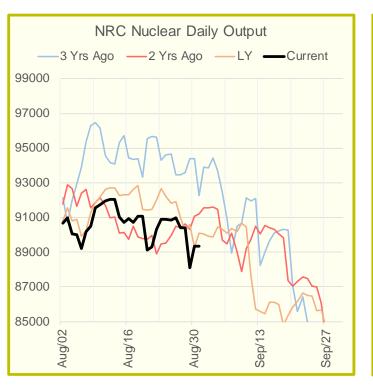




### Weather Storage Model - Next 4 Week Forecast

# **Market Report**

## 31 August 2022



ENERGY

