

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 5.56	▼ \$ (0.05)	▲ \$ 0.32

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 88.61	▲ \$ 0.70	▲ \$ 3.0

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 96.36	▲ \$ 0.67	▲ \$ 2.7

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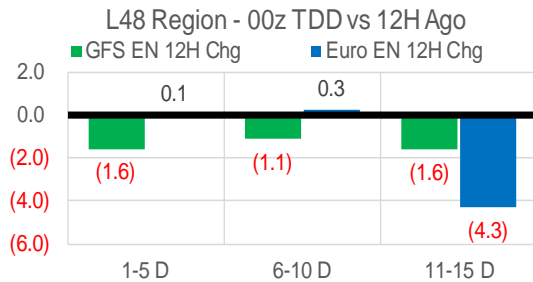
[Supply – Demand Trends](#)

[Nat Gas Options Volume and Open Interest](#)

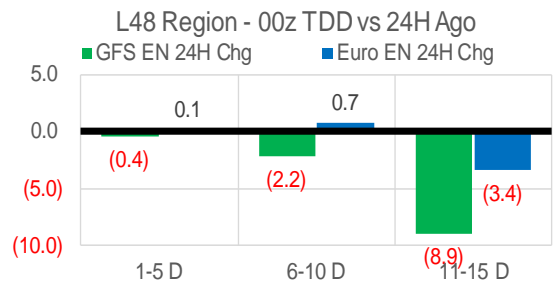
[Nat Gas Futures Open Interest](#)

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### Vs. 12H Ago



### Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	101.3	▲ 0.43	▲ 0.15

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	30.1	▼ -0.85	▲ 0.78

	Current	Δ from YD	Δ from 7D Avg
US ResComm	21.2	▲ 2.15	▲ 4.94

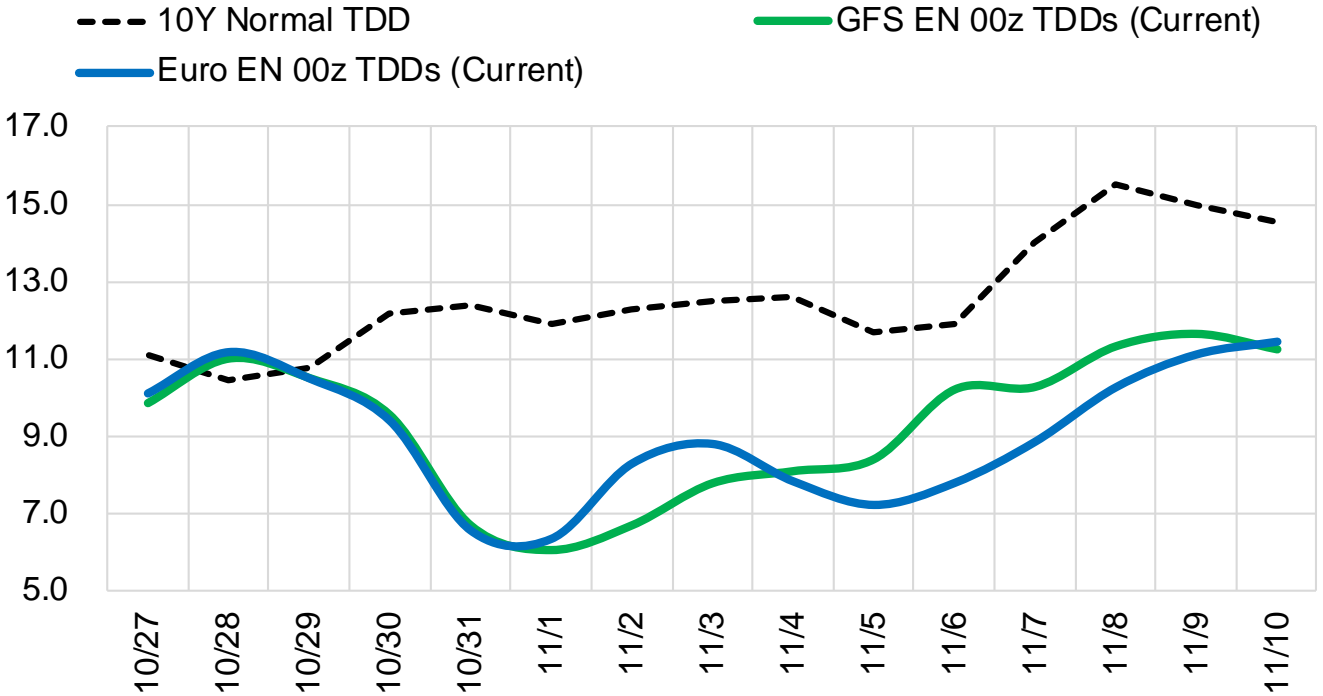
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.1	▼ -0.05	▼ -0.30

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.5	▼ -0.22	▲ 0.02

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.2	▼ -0.25	▼ -0.18

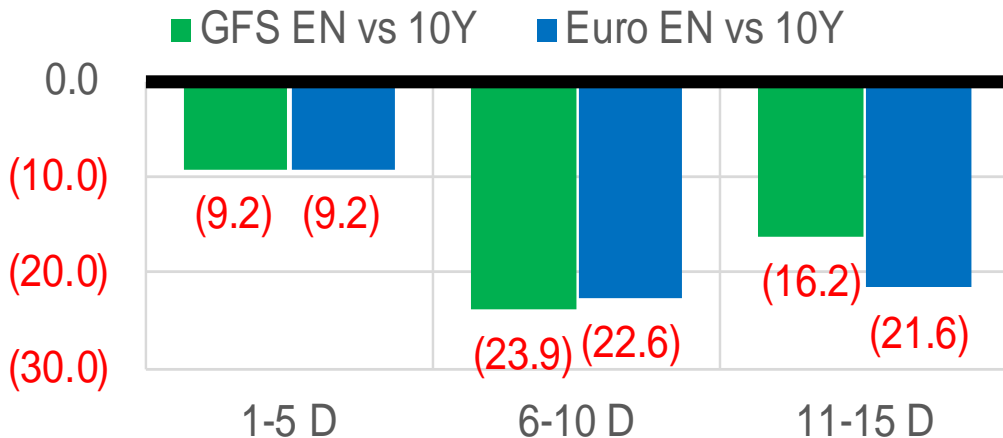
### Short-term Weather Model Outlooks (00z)

#### L48 Region



#### Vs. 10Y Normal

#### L48 Region - 00z TDD vs 10Y Normal



Source: WSI, Bloomberg

## Lower 48 Component Models

### Daily Balances

	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>101.6</b>	<b>101.4</b>	<b>101.5</b>	<b>101.7</b>	<b>100.9</b>	<b>100.9</b>	<b>101.3</b>	▲ 0.4	▼ 0.0
<b>Canadian Imports</b>	<b>5.5</b>	<b>5.4</b>	<b>5.3</b>	<b>5.3</b>	<b>5.2</b>	<b>5.1</b>	<b>5.1</b>	▼ 0.0	▼ -0.2
L48 Power	29.1	26.1	26.6	29.8	30.8	30.9	30.1	▼ -0.9	▲ 1.2
L48 Residential & Commercial	16.7	12.8	13.6	13.9	15.1	19.1	21.2	▲ 2.2	▲ 6.1
L48 Industrial	19.7	19.8	20.1	20.4	20.7	21.3	21.7	▲ 0.3	▲ 1.3
L48 Lease and Plant Fuel	5.7	5.7	5.7	5.7	5.6	5.6	5.6	▼ 0.0	▼ -0.1
L48 Pipeline Distribution	2.8	2.4	2.5	2.7	2.8	3.1	3.2	▲ 0.1	▲ 0.4
<b>L48 Regional Gas Consumption</b>	<b>74.0</b>	<b>66.7</b>	<b>68.4</b>	<b>72.4</b>	<b>75.1</b>	<b>80.1</b>	<b>81.7</b>	▲ 1.7	▲ 9.0
<b>Net LNG Delivered</b>	<b>11.41</b>	<b>11.37</b>	<b>11.09</b>	<b>11.19</b>	<b>11.79</b>	<b>11.73</b>	<b>11.50</b>	▼ -0.2	▲ 0.1
<b>Total Mexican Exports</b>	<b>6.8</b>	<b>6.3</b>	<b>6.1</b>	<b>6.2</b>	<b>6.3</b>	<b>6.5</b>	<b>6.2</b>	▼ -0.3	▼ -0.1
Implied Daily Storage Activity	14.9	22.5	21.2	17.2	12.9	7.8	7.0		
EIA Reported Daily Storage Activity									
Daily Model Error									

### EIA Storage Week Balances

	LY		LW			Current		
	22-Oct	23-Sep	30-Sep	7-Oct	14-Oct	21-Oct	WoW	vs. LY
<b>Lower 48 Dry Production</b>	<b>95.1</b>	<b>100.6</b>	<b>101.4</b>	<b>102.2</b>	<b>102.0</b>	<b>100.7</b>	▼ -1.4	▲ 5.5
<b>Canadian Imports</b>	<b>5.6</b>	<b>6.1</b>	<b>6.2</b>	<b>6.0</b>	<b>5.5</b>	<b>6.1</b>	▲ 0.5	▲ 0.5
L48 Power	29.2	37.0	31.6	30.6	30.8	30.8	▲ 0.0	1.7
L48 Residential & Commercial	13.4	8.2	11.9	13.0	14.8	21.1	▲ 6.3	7.7
L48 Industrial	20.7	21.3	20.0	20.9	20.2	20.0	▼ -0.2	-0.8
L48 Lease and Plant Fuel	5.3	5.6	5.6	5.7	5.7	5.6	▼ -0.1	0.3
L48 Pipeline Distribution	2.6	2.8	2.7	2.7	2.8	3.2	▲ 0.4	0.6
<b>L48 Regional Gas Consumption</b>	<b>71.3</b>	<b>74.9</b>	<b>71.8</b>	<b>72.9</b>	<b>74.4</b>	<b>80.7</b>	▲ 6.4	▲ 9.4
<b>Net LNG Exports</b>	<b>10.8</b>	<b>11.5</b>	<b>11.8</b>	<b>11.0</b>	<b>11.0</b>	<b>11.5</b>	▲ 0.5	▲ 0.7
<b>Total Mexican Exports</b>	<b>6.6</b>	<b>6.6</b>	<b>6.9</b>	<b>6.7</b>	<b>6.6</b>	<b>6.7</b>	▲ 0.1	▲ 0.1
Implied Daily Storage Activity	12.0	13.8	17.1	17.6	15.6	7.8	-7.8	-4.3
EIA Reported Daily Storage Activity	12.4	14.7	18.4	17.9	15.9			
Daily Model Error	-0.4	-0.9	-1.3	-0.3	-0.3			

### Monthly Balances

	2Yr Ago	LY		MTD					
	Oct-20	Oct-21	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>88.5</b>	<b>95.5</b>	<b>97.3</b>	<b>97.7</b>	<b>98.9</b>	<b>100.9</b>	<b>101.6</b>	▲ 0.7	▲ 6.1
<b>Canadian Imports</b>	<b>4.3</b>	<b>5.4</b>	<b>5.7</b>	<b>5.9</b>	<b>5.4</b>	<b>5.9</b>	<b>5.7</b>	▼ -0.2	▲ 0.3
L48 Power	30.6	30.4	38.3	44.3	43.1	36.9	30.4	▼ -6.5	▼ -0.1
L48 Residential & Commercial	15.5	12.6	8.9	8.3	8.0	9.0	16.2	▲ 7.2	▲ 3.6
L48 Industrial	22.7	21.7	19.1	19.8	21.1	20.9	20.1	▼ -0.8	▼ -1.5
L48 Lease and Plant Fuel	4.8	5.3	5.5	5.5	5.5	5.6	5.7	▲ 0.1	▲ 0.3
L48 Pipeline Distribution	2.5	2.7	2.9	3.1	3.0	2.8	2.9	▲ 0.0	▲ 0.2
<b>L48 Regional Gas Consumption</b>	<b>76.1</b>	<b>72.7</b>	<b>74.6</b>	<b>81.0</b>	<b>80.8</b>	<b>75.2</b>	<b>75.2</b>	▲ 0.0	▲ 2.6
<b>Net LNG Exports</b>	<b>8.0</b>	<b>10.6</b>	<b>11.2</b>	<b>10.9</b>	<b>11.0</b>	<b>11.5</b>	<b>11.2</b>	▼ -0.3	▲ 0.6
<b>Total Mexican Exports</b>	<b>6.0</b>	<b>6.6</b>	<b>7.1</b>	<b>7.0</b>	<b>6.9</b>	<b>6.7</b>	<b>6.6</b>	▼ -0.1	▼ 0.0
Implied Daily Storage Activity	2.7	11.0	10.0	4.7	5.7	13.5	14.3		
EIA Reported Daily Storage Activity									
Daily Model Error					0.0				

Source: Bloomberg, analytix.ai

## Daily Average Generation Data

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

	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	DoD	vs. 7D
NRC Nuclear Daily Output	74.5	74.4	74.0	74.0	74.0	74.2	74.3	0.1	0.1
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	30.4	30.5	30.8	30.8	30.8	30.7	30.6	-0.1	-0.1
NRC % Nuclear Cap Utilization	75.7	75.6	75.3	75.3	75.3	75.4	75.5	0.1	0.1

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

	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	DoD	vs. 7D
CALI Wind	573	284	1524	3487	2460	779	1558	778	40
TEXAS Wind	6001	9348	16995	22284	24198	18056	9223	-8833	-6924
US Wind	33925	42116	63464	77979	83510	67333	49567	-17766	-11821

### Generation Daily Average - MWh (EIA)

	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	DoD	vs. 7D
US Wind	33925	42116	63464	77979	83510	67333	49567	-17766	-11821
US Solar	15249	15296	15324	13313	11952	12544	13530	986	-417
US Petroleum	898	1005	913	914	895	938	949	10	21
US Other	10066	10337	9557	8895	9559	8843	8821	-22	-722
US Coal	87465	83271	73327	61574	59355	70036	74239	4203	1734
US Nuke	78233	78022	77429	76760	77044	77609	77929	320	413
US Hydro	21197	20740	18921	17955	16850	19278	20213	935	1056
<b>US Gas</b>	<b>171926</b>	<b>168802</b>	<b>152259</b>	<b>129025</b>	<b>128637</b>	<b>155953</b>	<b>159701</b>	<b>3748</b>	<b>8600</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	22-Oct	23-Sep	30-Sep	7-Oct	14-Oct	21-Oct	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	73.6	86.7	84.9	80.5	76.2	74.4	-1.8	0.3
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	31.2	18.1	20.0	24.4	28.7	30.5	1.8	
NRC % Nuclear Cap Utilization	74.9	88.2	86.4	81.9	77.5	75.6	-1.8	

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

	22-Oct	23-Sep	30-Sep	7-Oct	14-Oct	21-Oct	WoW	WoW Bcf/d Impact
CALI Wind	1270	1941	1208	1370	1087	944	-142	0.0
TEXAS Wind	10729	11580	8083	6160	7842	9710	1868	-0.3
US Wind	45986	47953	40606	32707	41063	45156	4093	-0.8
							10%	
						0.2		

### Generation Weekly Average - MWh (EIA)

	22-Oct	23-Sep	30-Sep	7-Oct	14-Oct	21-Oct	WoW	WoW Bcf/d Impact
					LY	Current		
US Wind	45986	47953	40606	32707	41063	45156	4093	-0.8
US Solar	12232	17177	16636	15455	14503	14353	-150	0.0
US Petroleum	910	1010	379	664	842	957	115	0.0
US Other	12153	10719	11165	10786	11233	11700	468	-0.1
US Coal	77017	92461	77592	74744	76322	79496	3175	-0.6
US Nuke	74358	89303	86665	83242	77235	76450	-785	0.1
US Hydro	23386	23537	23101	21917	20001	19001	-1000	0.2
<b>US Gas</b>	<b>153578</b>	<b>197537</b>	<b>171876</b>	<b>171116</b>	<b>170286</b>	<b>161759</b>	<b>-8528</b>	<b>-1.6</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## 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	77.6	77.0	90.6	90.5	86.2	76.1	76.8	-10.1
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	27.3	27.9	14.3	14.3	18.7	28.7	28.1	10.1	0.2
NRC % Nuclear Cap Utilization	78.9	78.3	92.1	92.1	87.7	77.4	78.0	-10.2	-0.2

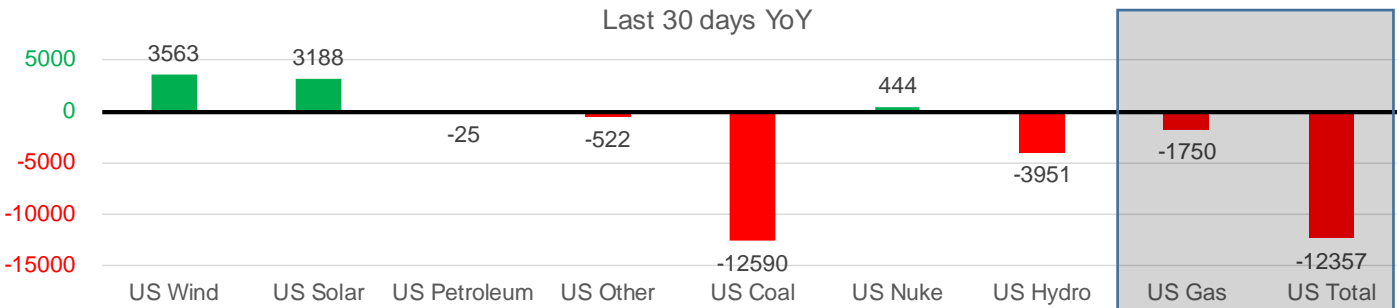
### Wind Generation Monthly Average - MWh (EIA)

	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	1401	1859	2719	2028	1608	1307	1337	-302
TEXAS Wind	9927	11346	11765	8440	7993	9895	9667	1902	-1680
US Wind	39354	41744	39701	33222	38117	45465	45307	7347	3563

### 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	39354	41744	39701	33222	38117	45465	45307	▼ -158.2
US Solar	8578	11283	18617	16962	16163	14392	14471	▲ 78.5	▲ 3188
US Petroleum	879	837	1252	1251	864	861	813	▼ -48	▼ -25
US Other	8143	11257	10156	10543	10467	10685	10735	▲ 50	▼ -522
US Coal	78068	87663	119788	117203	92002	75053	75073	▲ 19	▼ -12590
US Nuke	80912	78488	92906	92976	89057	77814	78931	▲ 1118	▲ 444
US Hydro	25338	24203	34227	30122	25202	19825	20252	▲ 426	▼ -3951
<b>US Gas</b>	<b>165161</b>	<b>164971</b>	<b>235864</b>	<b>233739</b>	<b>199958</b>	<b>162838</b>	<b>163221</b>	<b>▲ 1485</b>	<b>▼ -1750</b>
<b>US Total</b>	<b>404743</b>	<b>420351</b>	<b>551987</b>	<b>535696</b>	<b>470459</b>	<b>407366</b>	<b>407994</b>	<b>▲ 3128</b>	<b>▼ -12357</b>

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

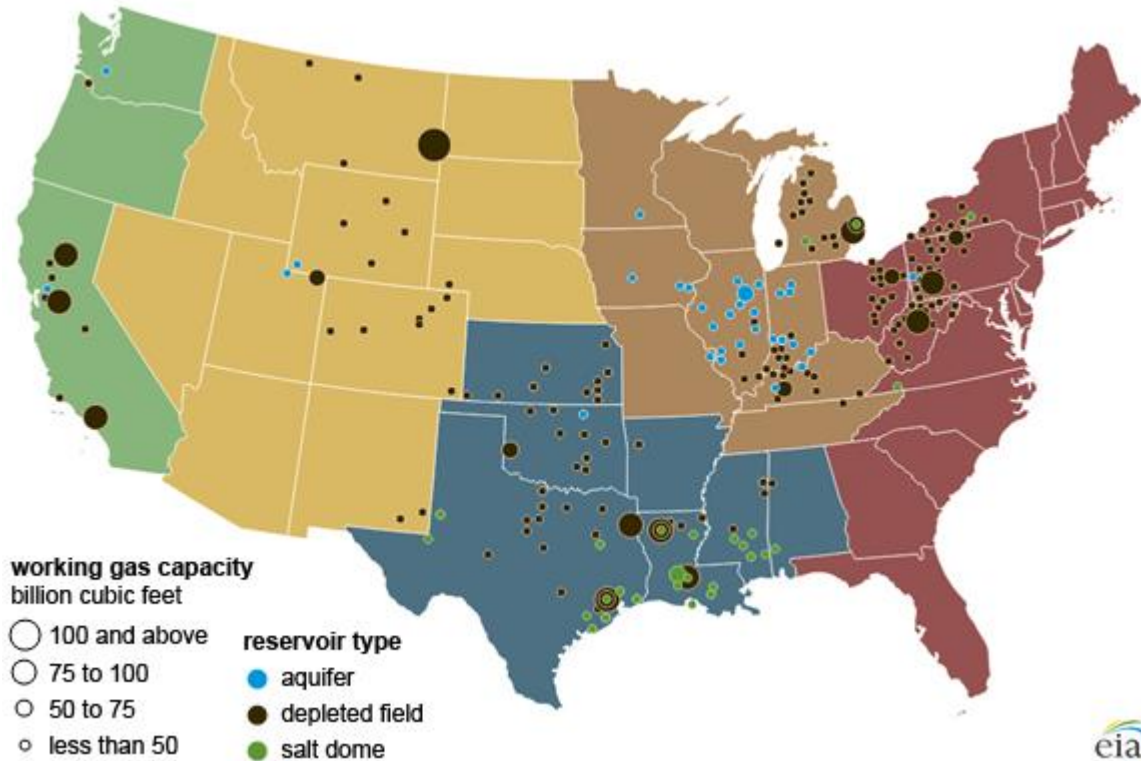
### Regional S/D Models Storage Projection

Week Ending 21-Oct

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	8.9	-0.6	8.3	58
East	-0.9	2.7	1.9	13
Midwest	2.1	0.9	3.0	21
Mountain	4.6	-4.2	0.4	3
South Central	2.6	0.5	3.1	22
Pacific	0.4	-0.5	-0.1	0

\*Adjustment Factor is calculated based on historical regional deltas

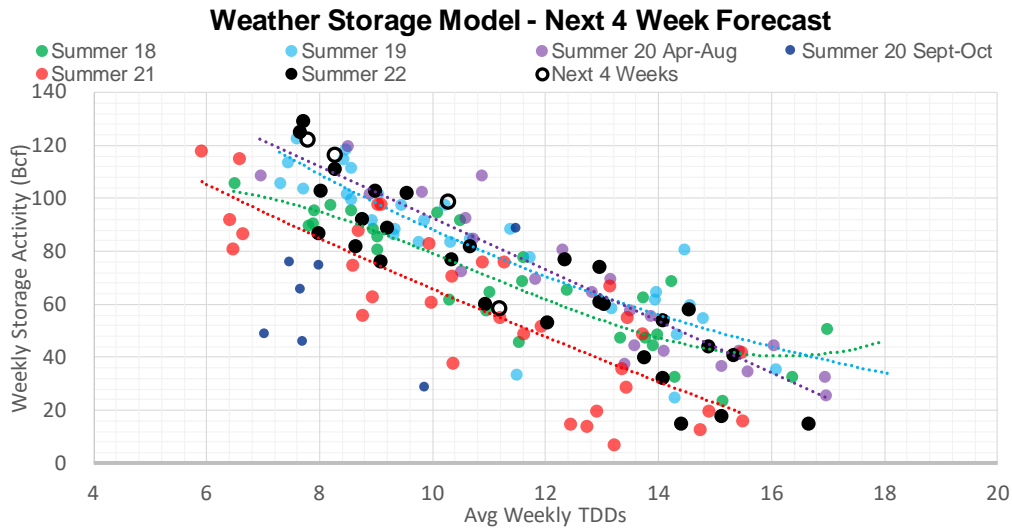
U.S. underground natural gas storage facilities by type (July 2015)



### Weather Model Storage Projection

Next report and beyond

Week Ending	GWDDs	Week Storage Projection
21-Oct	11.2	58
28-Oct	7.8	122
04-Nov	8.3	116
11-Nov	10.3	98

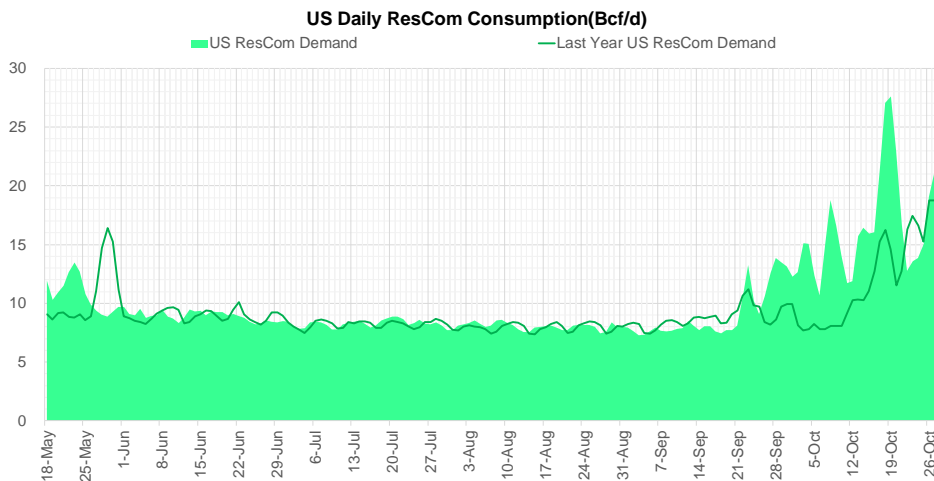
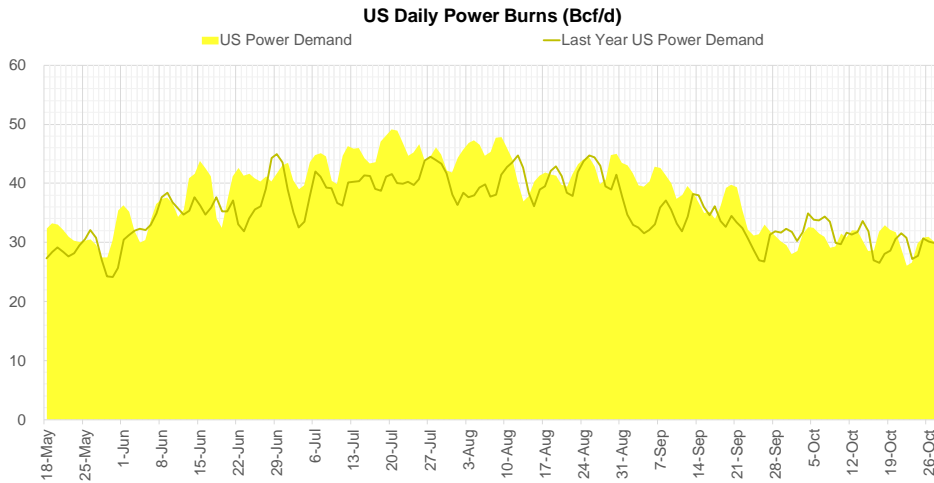
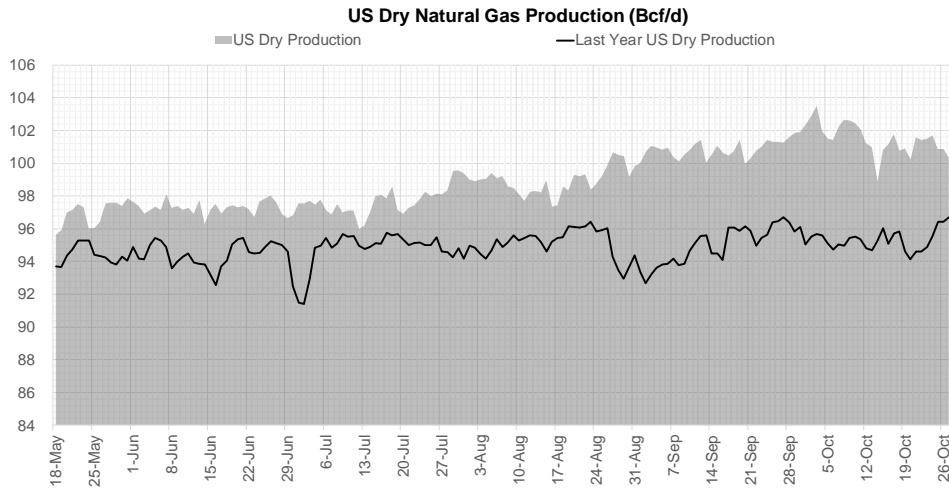


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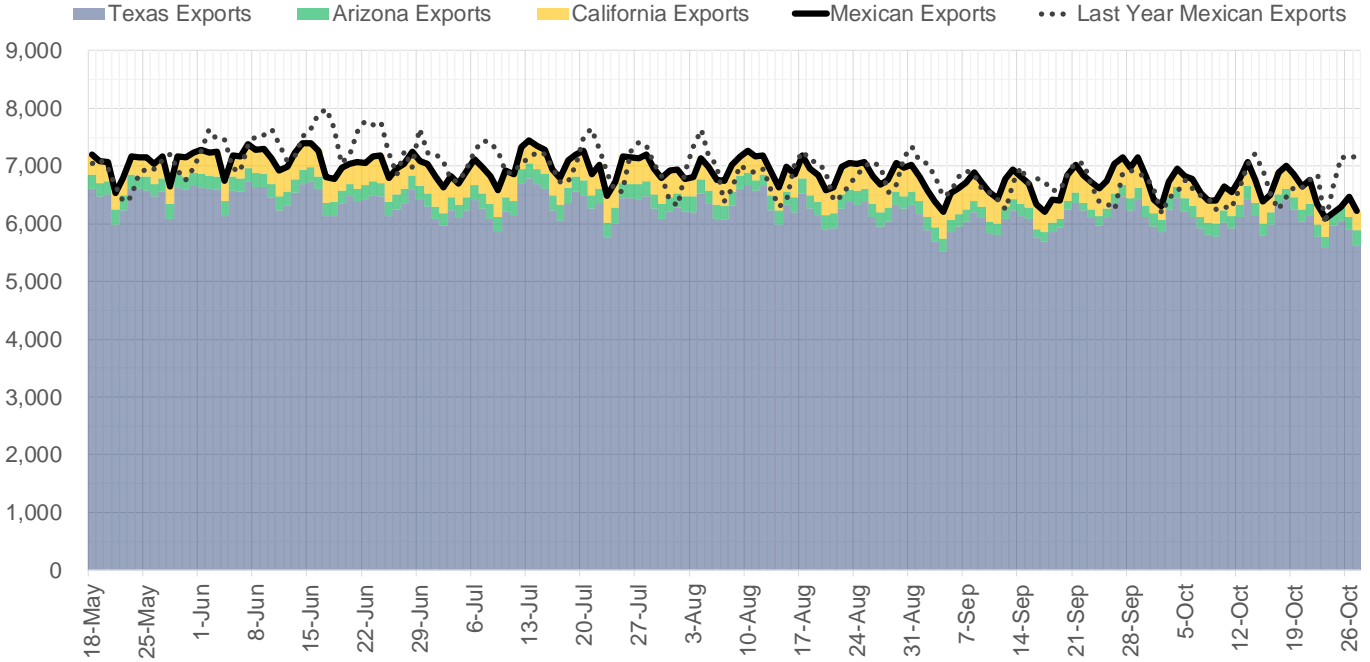
## Supply – Demand Trends



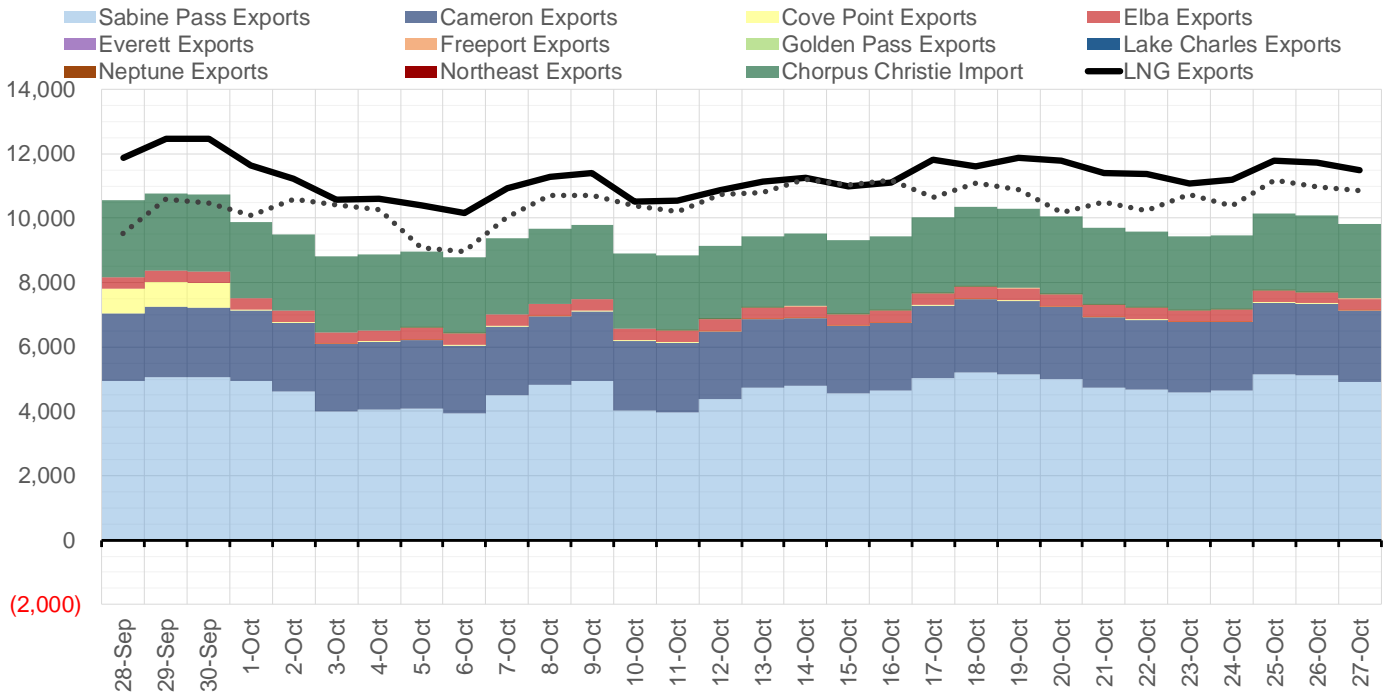
Source: Bloomberg

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### Mexican Exports (MMcf/d)



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



Source: Bloomberg

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

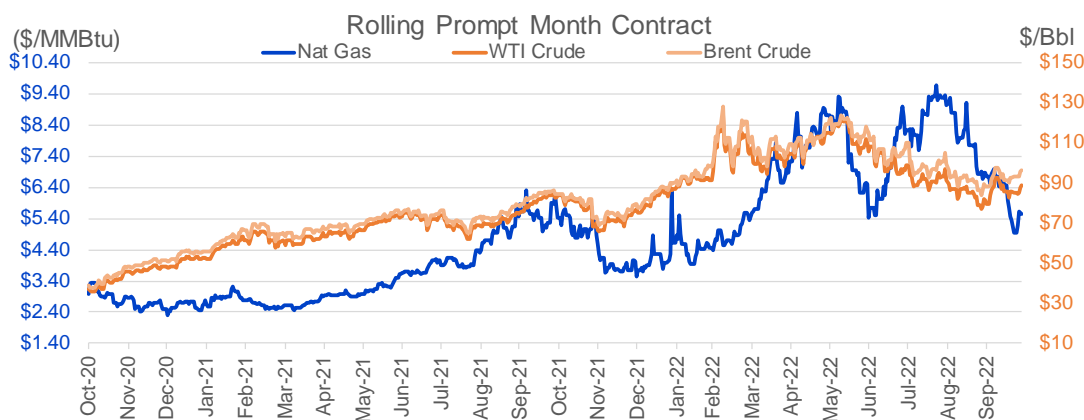
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
12	2022	P	4.00	11046	11	2022	P	4.00	29587
12	2022	P	4.25	7234	12	2022	P	5.00	29237
12	2022	P	3.50	7160	12	2022	P	4.00	27901
12	2022	C	10.00	6339	5	2023	P	2.00	27409
12	2022	P	4.50	4697	11	2022	C	10.00	27231
12	2022	P	4.75	4663	12	2022	P	6.00	24776
12	2022	P	5.25	4310	11	2022	P	6.00	24026
12	2022	C	8.00	4265	10	2023	P	3.00	23269
1	2023	P	5.00	3622	3	2023	C	10.00	23148
12	2022	P	5.00	3488	4	2023	P	3.00	22438
1	2023	P	6.00	2958	1	2023	C	10.00	22101
12	2022	C	7.00	2567	12	2022	C	10.00	21135
1	2023	C	7.00	2186	11	2022	P	5.00	21128
1	2023	P	3.00	2095	3	2023	P	4.00	20674
1	2023	C	8.50	2000	2	2023	C	10.00	20344
12	2022	P	5.50	1750	11	2022	C	8.00	19889
11	2022	C	6.00	1670	4	2023	P	3.50	19750
12	2022	C	6.50	1556	10	2023	P	4.00	19561
1	2023	P	5.50	1483	12	2022	P	4.50	19331
11	2022	P	5.50	1351	4	2023	P	2.00	19319
1	2023	C	6.50	1279	12	2022	P	3.50	19237
12	2022	P	5.75	1273	1	2023	P	4.00	18937
11	2022	P	5.25	1213	3	2023	C	20.00	18865
12	2022	C	10.50	1199	10	2023	P	2.00	18855
11	2022	P	7.00	1198	10	2023	P	2.50	18715
12	2022	P	3.75	1184	12	2022	C	5.00	18279
11	2022	P	5.00	1152	3	2023	P	3.00	18241
2	2023	P	4.50	1152	11	2022	P	5.50	18006
12	2022	P	4.10	1142	5	2023	P	3.00	17938
11	2022	C	5.50	1137	4	2023	P	4.00	17802
11	2022	C	5.75	1114	11	2022	C	12.00	17662
1	2023	C	30.00	1102	6	2023	P	3.00	17635
11	2022	C	7.00	1044	9	2023	P	4.00	17486
4	2023	P	3.50	1025	5	2023	P	3.50	17094
11	2022	C	7.05	1000	12	2022	P	5.50	16857
11	2022	P	7.05	1000	8	2023	P	3.00	16551
12	2022	C	10.20	1000	7	2023	P	3.00	16450
4	2023	P	4.50	1000	9	2023	P	3.00	16450
12	2022	P	6.00	983	1	2023	P	5.00	16346
12	2022	C	6.00	975	6	2023	P	3.50	16309
6	2023	P	2.50	975	6	2023	P	4.00	16241
12	2022	C	12.00	956	10	2023	P	3.50	16215
12	2022	C	9.00	943	12	2022	C	4.00	16195
1	2023	P	4.50	939	8	2023	P	3.50	16151
2	2023	P	4.00	929	7	2023	P	4.00	16124
1	2023	P	4.00	915	7	2023	P	3.50	16119
11	2022	C	5.60	842	9	2023	P	3.50	16109
2	2023	P	5.00	819	6	2023	P	2.00	15984
1	2023	C	25.00	750	5	2023	P	4.00	15888
					5	2023	P	2.5	15880

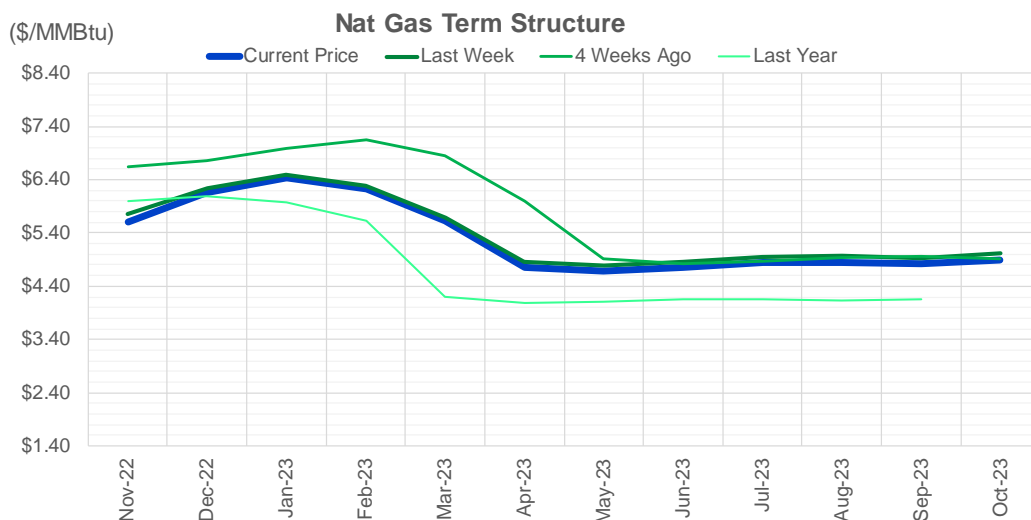
Source: CME, ICE

## Nat Gas Futures Open Interest CME and ICE Combined

CME Henry Hub Futures (10,000 MMBtu)				ICE Henry Hub Futures Contract Equivalent (10,000 MM			
	Current	Prior	Daily Change		Current	Prior	Daily Change
NOV 22	1429	10694	-9265	NOV 22	83660	79700	3961
DEC 22	99573	94911	4662	DEC 22	76888	78365	-1477
JAN 23	139762	138862	900	JAN 23	72409	73111	-702
FEB 23	58311	56771	1540	FEB 23	67555	67083	472
MAR 23	96112	96076	36	MAR 23	60115	59982	132
APR 23	78982	77437	1545	APR 23	57645	57234	411
MAY 23	86823	86839	-16	MAY 23	59434	59211	223
JUN 23	23960	23661	299	JUN 23	48698	48848	-150
JUL 23	33601	32691	910	JUL 23	48643	48703	-60
AUG 23	22391	21612	779	AUG 23	47095	47076	19
SEP 23	30090	29763	327	SEP 23	44900	44655	245
OCT 23	51576	51618	-42	OCT 23	56117	56183	-66
NOV 23	23648	24010	-362	NOV 23	47326	47792	-466
DEC 23	27037	27059	-22	DEC 23	41741	41371	370
JAN 24	36466	36426	40	JAN 24	45750	46073	-323
FEB 24	10543	10698	-155	FEB 24	31287	31557	-270
MAR 24	22470	21963	507	MAR 24	36683	36589	93
APR 24	20536	20897	-361	APR 24	30417	30555	-138
MAY 24	8708	8737	-29	MAY 24	29122	29169	-47
JUN 24	3206	3211	-5	JUN 24	26165	26195	-31
JUL 24	4295	4279	16	JUL 24	25512	25567	-55
AUG 24	3998	4000	-2	AUG 24	25023	25086	-63
SEP 24	2568	2561	7	SEP 24	24866	24912	-46
OCT 24	8916	8895	21	OCT 24	29100	29060	40
NOV 24	4905	4918	-13	NOV 24	26251	26413	-162
DEC 24	8628	8622	6	DEC 24	30196	30340	-144
JAN 25	17785	17812	-27	JAN 25	23084	23002	81
FEB 25	1845	1839	6	FEB 25	15715	15651	64
MAR 25	5294	5294	0	MAR 25	18043	17976	67
APR 25	5422	5422	0	APR 25	16485	16427	58

Source: CME, ICE



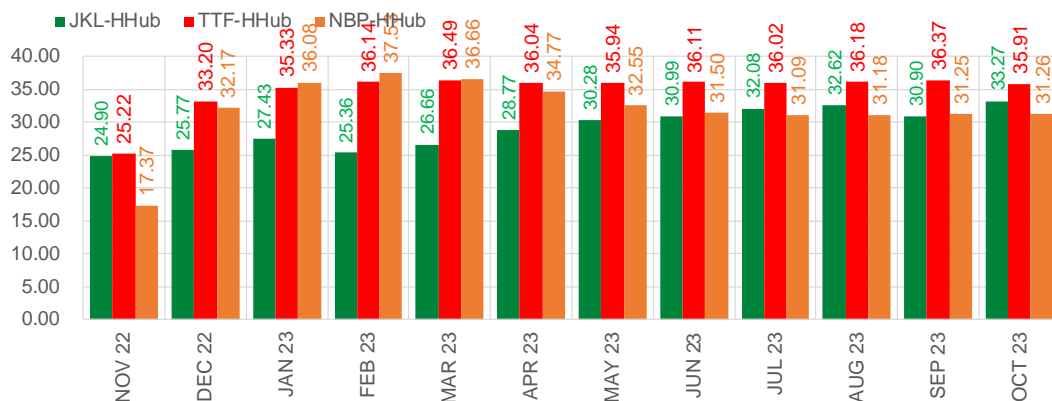
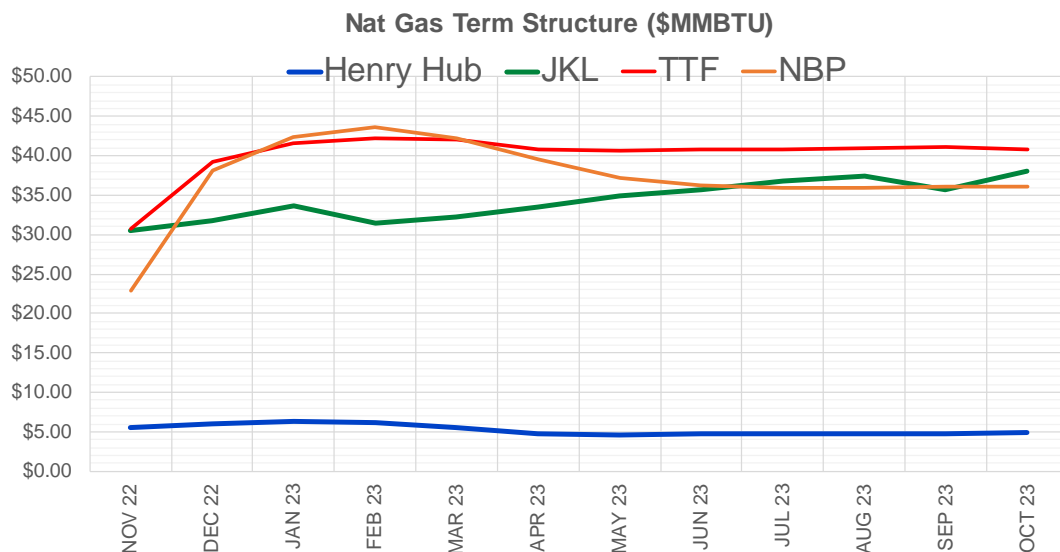


	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
<b>Current Price</b>	<b>\$5.613</b>	<b>\$6.166</b>	<b>\$6.427</b>	<b>\$6.230</b>	<b>\$5.636</b>	<b>\$4.759</b>	<b>\$4.691</b>	<b>\$4.762</b>	<b>\$4.841</b>	<b>\$4.857</b>	<b>\$4.819</b>	<b>\$4.895</b>
Last Week	\$5.745	\$6.237	\$6.493	\$6.286	\$5.693	\$4.849	\$4.792	\$4.866	\$4.945	\$4.962	\$4.933	\$5.008
vs. Last Week	-\$0.132	-\$0.071	-\$0.066	-\$0.056	-\$0.057	-\$0.090	-\$0.101	-\$0.104	-\$0.104	-\$0.105	-\$0.114	-\$0.113
4 Weeks Ago	\$6.651	\$6.760	\$6.990	\$7.157	\$6.851	\$5.997	\$4.923	\$4.816	\$4.877	\$4.941	\$4.950	\$4.923
vs. 4 Weeks Ago	-\$1.038	-\$0.594	-\$0.563	-\$0.927	-\$1.215	-\$1.238	-\$0.232	-\$0.054	-\$0.036	-\$0.084	-\$0.131	-\$0.028
Last Year	\$5.882	\$6.003	\$6.093	\$5.980	\$5.623	\$4.209	\$4.082	\$4.114	\$4.153	\$4.154	\$4.132	\$4.161
vs. Last Year	-\$0.269	\$0.163	\$0.334	\$0.250	\$0.013	\$0.550	\$0.609	\$0.648	\$0.688	\$0.703	\$0.687	\$0.734

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	4.56	7.45	2.89
TETCO M3	\$/MMBtu	4.38	5.07	0.69
FGT Zone 3	\$/MMBtu	4.42	5.82	1.40
Zone 6 NY	\$/MMBtu	4.42	5.19	0.77
Chicago Citygate	\$/MMBtu	5.03	5.07	0.04
Michcon	\$/MMBtu	4.81	4.99	0.18
Columbia TCO Pool	\$/MMBtu	4.44	4.62	0.18
Ventura	\$/MMBtu	5.02	5.25	0.23
Rockies/Opal	\$/MMBtu	5.60	4.82	-0.78
El Paso Permian Basin	\$/MMBtu	-0.97	2.67	3.64
Socal Citygate	\$/MMBtu	5.75	5.59	-0.16
Malin	\$/MMBtu	6.25	5.26	-1.00
Houston Ship Channel	\$/MMBtu	4.61	4.76	0.15
Henry Hub Cash	\$/MMBtu	5.17	4.71	-0.46
AECO Cash	C\$/GJ	2.97	3.78	0.81
Station2 Cash	C\$/GJ	2.65	5.28	2.63
Dawn Cash	C\$/GJ	5.06	5.07	0.01

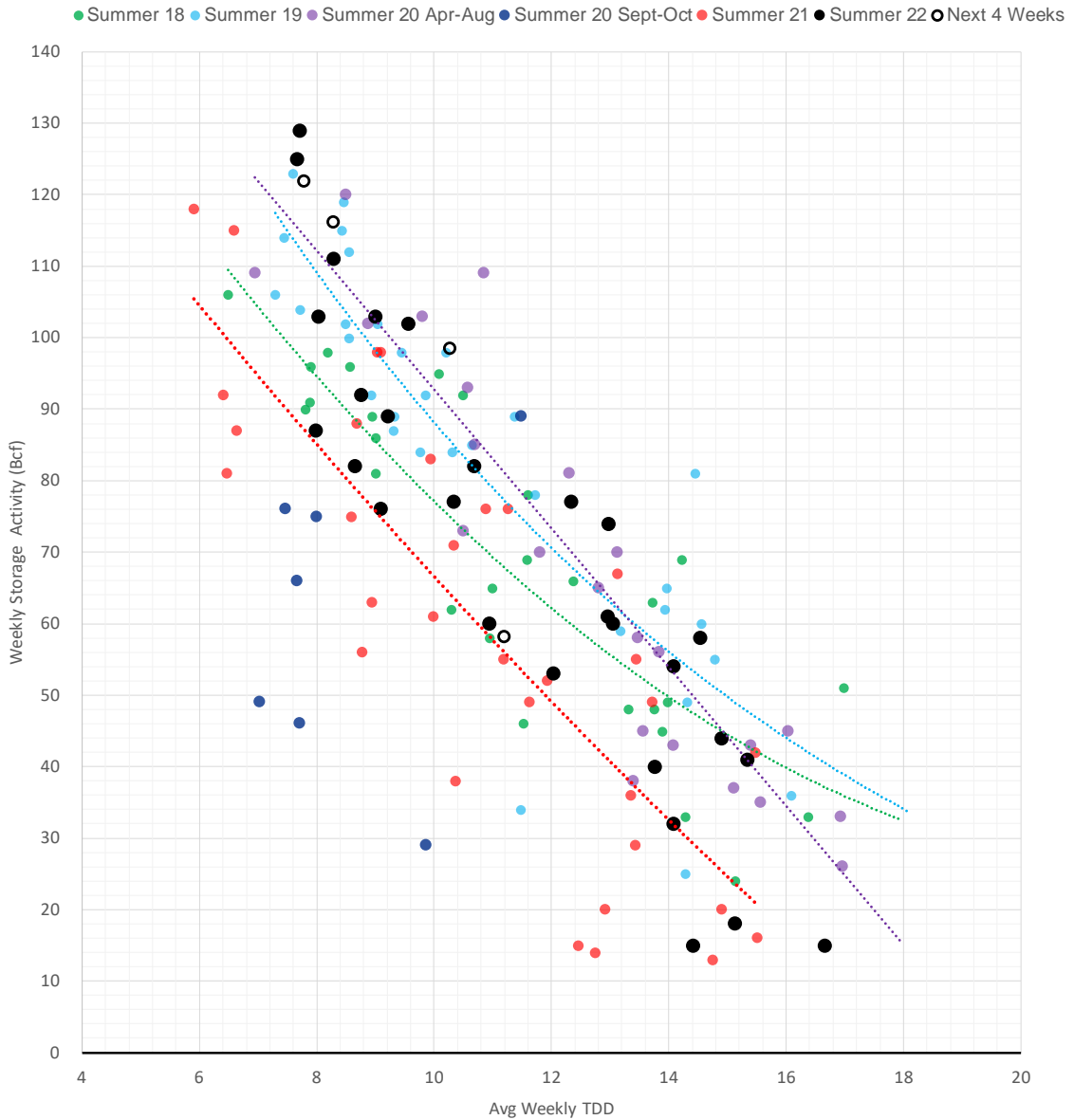
Source: CME, Bloomberg

	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. 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	▼ -2.253
NatGas Apr22/Oct22	\$/MMBtu	1.532	▲ 0.000	▲ 0.000	▲ 1.593
WTI Crude	\$/Bbl	87.91	▲ 2.360	▲ 5.760	▲ 5.250
Brent Crude	\$/Bbl	95.69	▲ 3.280	▲ 6.370	▲ 11.110
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	412.01	▲ 21.580	▲ 67.070	▲ 160.530
Propane, Mt. Bel	cents/Gallon	0.86	▲ 0.008	▼ -0.138	▼ -0.591
Ethane, Mt. Bel	cents/Gallon	0.40	▲ 0.002	▼ -0.057	▼ -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			



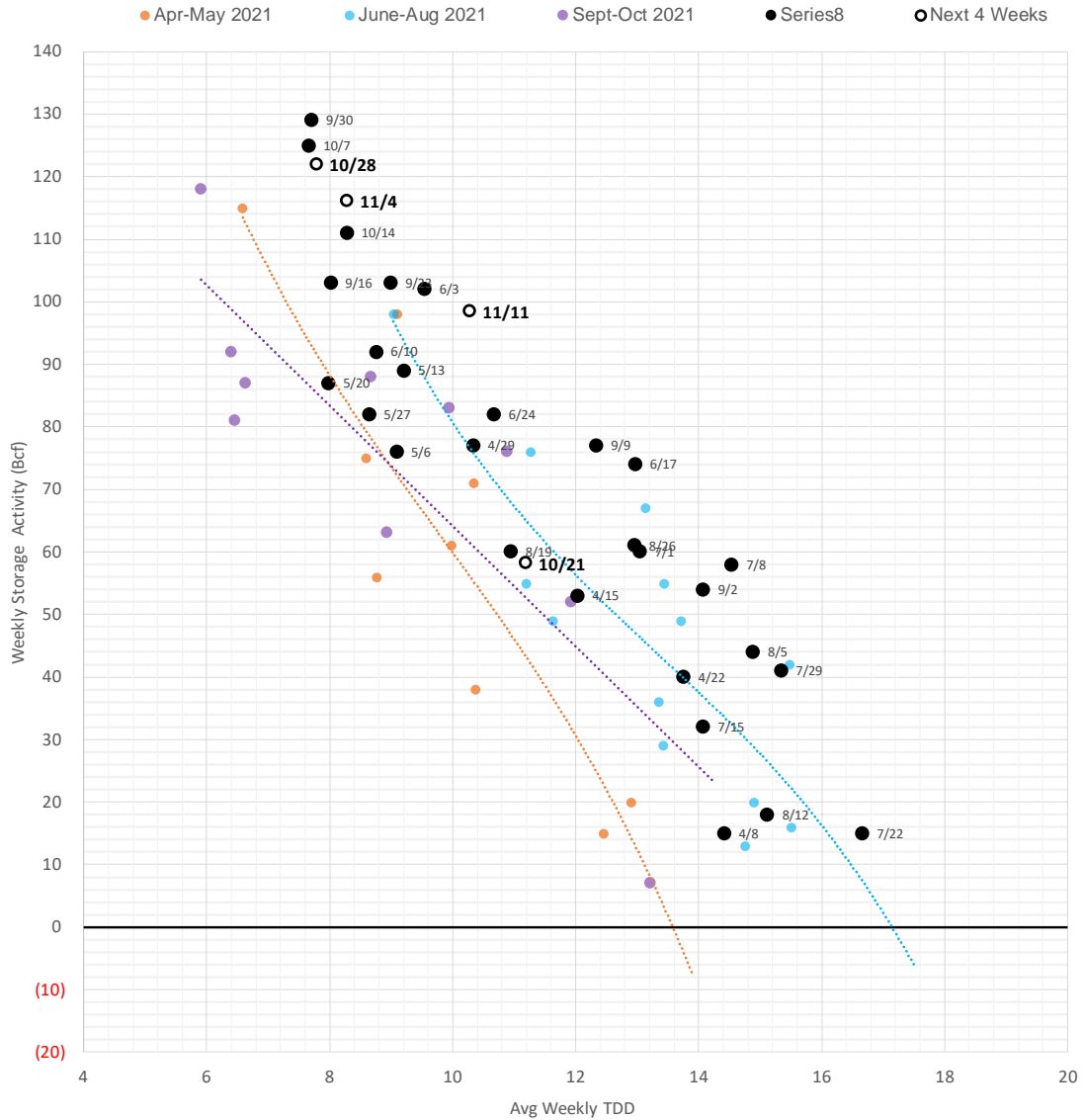
	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23
<b>Henry Hub</b>	\$5.555	\$6.029	\$6.300	\$6.152	\$5.522	\$4.718	\$4.659	\$4.716	\$4.785	\$4.810	\$4.766	\$4.843
<b>JKL</b>	\$30.450	\$31.795	\$33.725	\$31.515	\$32.185	\$33.485	\$34.935	\$35.705	\$36.860	\$37.430	\$35.665	\$38.115
<b>JKL-HHub</b>	\$24.895	\$25.766	\$27.425	\$25.363	\$26.663	\$28.767	\$30.276	\$30.989	\$32.075	\$32.620	\$30.899	\$33.272
<b>TTF</b>	\$30.778	\$39.228	\$41.625	\$42.290	\$42.011	\$40.755	\$40.596	\$40.830	\$40.804	\$40.990	\$41.139	\$40.756
<b>TTF-HHub</b>	\$25.223	\$33.199	\$35.325	\$36.138	\$36.489	\$36.037	\$35.937	\$36.114	\$36.019	\$36.180	\$36.373	\$35.913
<b>NBP</b>	\$22.922	\$38.200	\$42.378	\$43.679	\$42.183	\$39.485	\$37.209	\$36.217	\$35.873	\$35.992	\$36.020	\$36.103
<b>NBP-HHub</b>	\$17.367	\$32.171	\$36.078	\$37.527	\$36.661	\$34.767	\$32.550	\$31.501	\$31.088	\$31.182	\$31.254	\$31.260

### Weather Storage Model - Next 4 Week Forecast





## Weather Storage Model - Next 4 Week Forecast



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