

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 7.01 ▲	\$ 0.08 ▲	\$ 0.24

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 87.37 ▼	\$ (0.39) ▲	\$ 4.9

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 93.00 ▼	\$ (0.37) ▲	\$ 3.5

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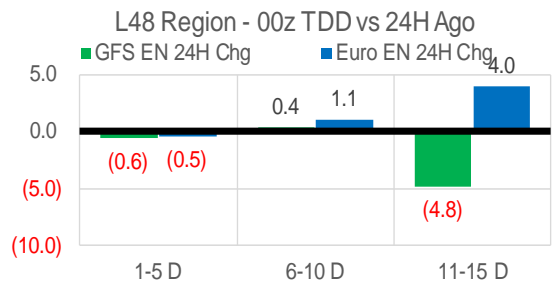
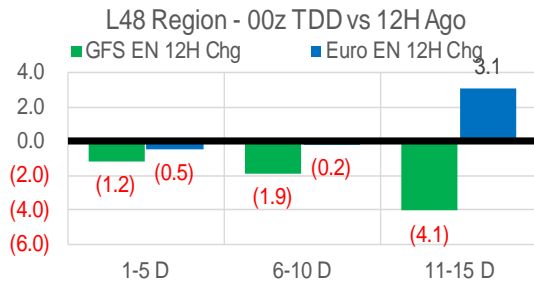
[Nat Gas Options Volume and Open Interest](#)

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### Vs. 12H Ago

### Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	101.2 ▼	-0.42 ▼	-1.24

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	32.7 ▲	0.52 ▲	2.46

	Current	Δ from YD	Δ from 7D Avg
US ResComm	10.8 ▼	-1.74 ▼	-2.72

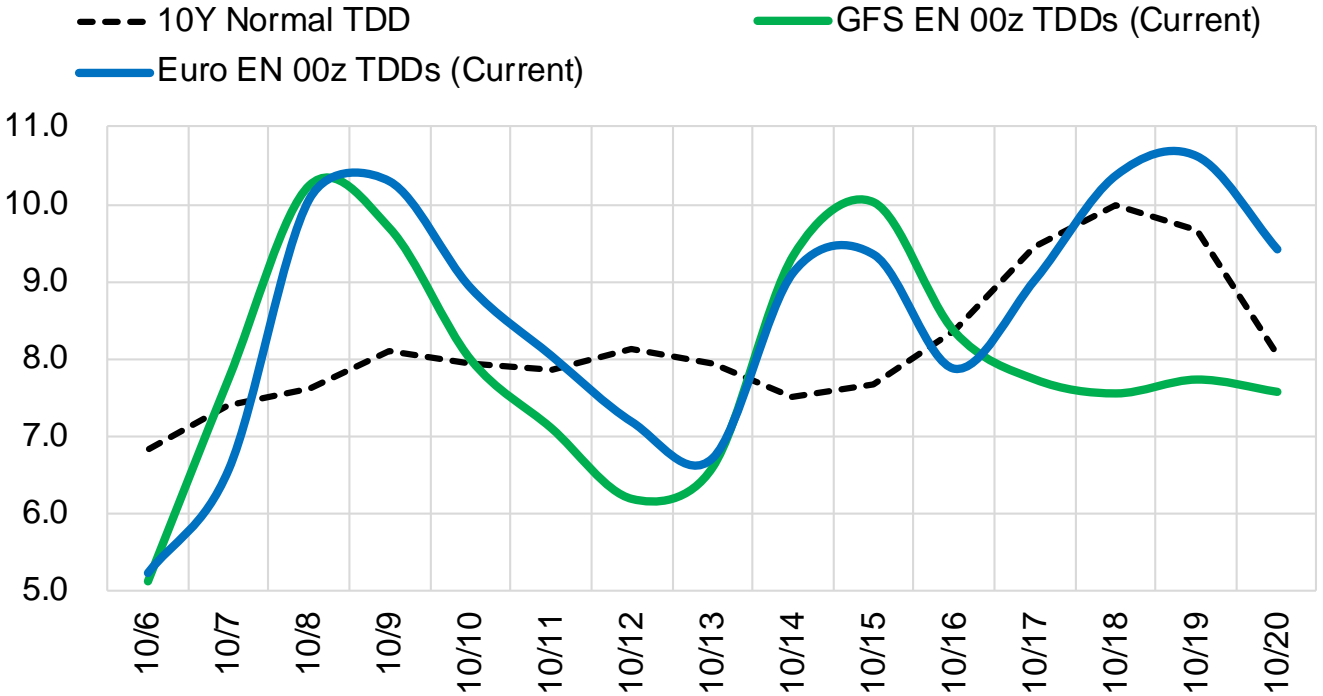
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.7 ▼	-0.09 ▼	-0.36

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	10.5 ▼	-0.13 ▼	-0.86

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.4 ▼	-0.21 ▼	-0.23

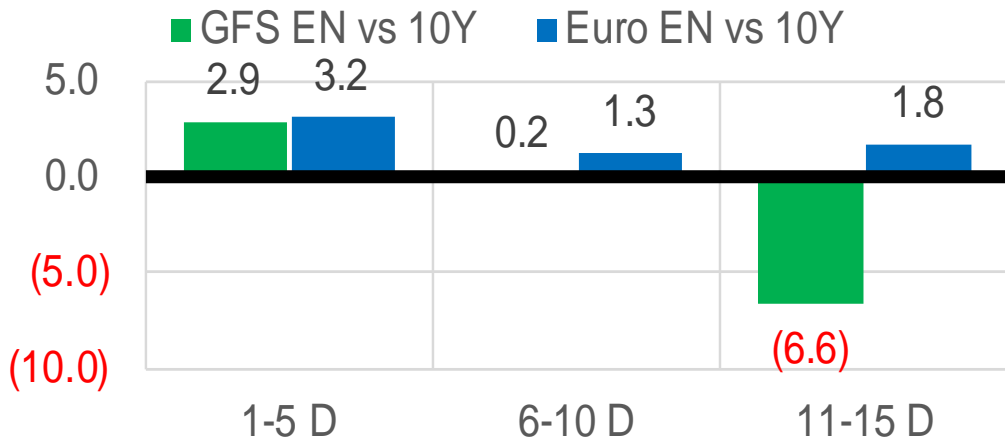
## Short-term Weather Model Outlooks (00z)

### L48 Region



### Vs. 10Y Normal

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



Source: WSI , Bloomberg

## Lower 48 Component Models

### Daily Balances

	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>102.1</b>	<b>102.6</b>	<b>103.0</b>	<b>103.6</b>	<b>102.0</b>	<b>101.6</b>	<b>101.2</b>	▼ -0.4	▼ -1.3
<b>Canadian Imports</b>	<b>6.1</b>	<b>6.1</b>	<b>6.1</b>	<b>6.2</b>	<b>6.0</b>	<b>5.8</b>	<b>5.7</b>	▼ -0.1	▼ -0.4
L48 Power	29.5	27.9	28.4	31.2	32.5	32.2	32.7	▲ 0.5	▲ 2.4
L48 Residential & Commercial	13.2	12.4	12.8	15.0	15.1	12.5	10.8	▼ -1.7	▼ -2.7
L48 Industrial	21.3	21.4	21.4	21.7	21.7	21.5	21.3	▼ -0.3	▼ -0.2
L48 Lease and Plant Fuel	5.6	5.7	5.8	5.8	5.7	5.7	5.6	▼ 0.0	▼ -0.1
L48 Pipeline Distribution	2.6	2.5	2.5	2.9	2.9	2.8	2.7	▼ -0.1	▼ 0.0
<b>L48 Regional Gas Consumption</b>	<b>72.3</b>	<b>69.8</b>	<b>70.8</b>	<b>76.6</b>	<b>77.9</b>	<b>74.7</b>	<b>73.0</b>	▼ -1.6	▼ -0.6
<b>Net LNG Delivered</b>	<b>12.46</b>	<b>11.62</b>	<b>11.20</b>	<b>10.57</b>	<b>10.60</b>	<b>10.64</b>	<b>10.51</b>	▼ -0.1	▼ -0.7
<b>Total Mexican Exports</b>	<b>6.9</b>	<b>6.4</b>	<b>6.3</b>	<b>6.4</b>	<b>6.8</b>	<b>6.6</b>	<b>6.4</b>	▼ -0.2	▼ -0.2
<b>Implied Daily Storage Activity</b>	<b>16.5</b>	<b>20.9</b>	<b>20.8</b>	<b>16.3</b>	<b>12.6</b>	<b>15.5</b>	<b>16.9</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	LY 1-Oct	2-Sep	9-Sep	16-Sep	LW 23-Sep	Current 30-Sep	WoW	vs. LY
<b>Lower 48 Dry Production</b>	<b>96.2</b>	<b>100.2</b>	<b>100.9</b>	<b>101.0</b>	<b>100.8</b>	<b>101.6</b>	▲ 0.8	▲ 5.4
<b>Canadian Imports</b>	<b>5.7</b>	<b>5.8</b>	<b>5.9</b>	<b>5.6</b>	<b>6.1</b>	<b>6.2</b>	▲ 0.1	▲ 0.5
L48 Power	29.9	42.8	41.1	37.9	37.0	31.5	▼ -5.5	1.6
L48 Residential & Commercial	9.2	7.9	7.6	8.0	8.2	11.9	▲ 3.7	2.7
L48 Industrial	22.0	21.8	21.4	20.9	21.4	20.8	▼ -0.6	-1.2
L48 Lease and Plant Fuel	5.3	5.5	5.6	5.6	5.6	5.6	▲ 0.0	0.3
L48 Pipeline Distribution	2.4	3.0	3.0	2.8	2.8	2.7	▼ -0.1	0.3
<b>L48 Regional Gas Consumption</b>	<b>68.9</b>	<b>81.1</b>	<b>78.7</b>	<b>75.1</b>	<b>74.9</b>	<b>72.5</b>	▼ -2.5	▲ 3.6
<b>Net LNG Exports</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>11.3</b>	<b>11.5</b>	<b>11.8</b>	▲ 0.3	▲ 1.5
<b>Total Mexican Exports</b>	<b>6.6</b>	<b>6.9</b>	<b>6.6</b>	<b>6.7</b>	<b>6.6</b>	<b>6.9</b>	▲ 0.3	▲ 0.3
<b>Implied Daily Storage Activity</b>	<b>16.1</b>	<b>7.2</b>	<b>10.2</b>	<b>13.4</b>	<b>13.9</b>	<b>16.6</b>	2.7	0.5
<b>EIA Reported Daily Storage Activity</b>	<b>16.9</b>	<b>7.7</b>	<b>11.0</b>	<b>14.7</b>	<b>14.7</b>			
<b>Daily Model Error</b>	<b>-0.8</b>	<b>-0.5</b>	<b>-0.8</b>	<b>-1.3</b>	<b>-0.8</b>			

### Monthly Balances

	2Yr Ago Oct-20	LY Oct-21	Jun-22	Jul-22	Aug-22	Sep-22	MTD 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>99.1</b>	<b>101.1</b>	<b>102.6</b>	▲ 1.5	▲ 7.1
<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>6.1</b>	▲ 0.1	▲ 0.7
L48 Power	30.6	30.4	38.3	44.3	43.1	36.8	30.4	▼ -6.4	▼ 0.0
L48 Residential & Commercial	15.5	12.6	8.9	8.3	8.0	9.0	13.6	▲ 4.6	▲ 1.0
L48 Industrial	22.7	21.7	19.1	19.8	21.1	21.1	21.5	▲ 0.4	▼ -0.1
L48 Lease and Plant Fuel	4.8	5.3	5.5	5.5	5.5	5.6	5.7	▲ 0.2	▲ 0.4
L48 Pipeline Distribution	2.5	2.7	2.9	3.1	3.0	2.8	2.7	▼ -0.1	▲ 0.1
<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>75.4</b>	<b>74.0</b>	▼ -1.4	▲ 1.3
<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>10.9</b>	▼ -0.6	▲ 0.3
<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>6.5</b>	▼ -0.2	▼ -0.1
<b>Implied Daily Storage Activity</b>	<b>2.7</b>	<b>11.0</b>	<b>10.0</b>	<b>4.7</b>	<b>5.8</b>	<b>13.4</b>	<b>17.2</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>					<b>0.0</b>				

Source: Bloomberg, analytix.ai

## Daily Average Generation Data

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

	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	DoD	vs. 7D
NRC Nuclear Daily Output	84.1	81.4	81.5	79.9	80.2	79.7	80.8	1.1	-0.3
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	20.7	23.5	23.3	25.0	24.7	25.2	24.1	-1.1	0.3
NRC % Nuclear Cap Utilization	85.6	82.8	82.9	81.2	81.5	81.1	82.2	1.1	-0.4

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

	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	DoD	vs. 7D
CALI Wind	1827	1549	1449	1808	1765	1633	1077	-556	-595
TEXAS Wind	7871	6937	8028	8626	5976	5616	6402	786	-773
US Wind	39820	45876	45890	40261	37167	34235	25876	-8359	-14665

### Generation Daily Average - MWh (EIA)

	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	DoD	vs. 7D
US Wind	39820	45876	45890	40261	37167	34235	25876	-8359	-14665
US Solar	14675	14562	14930	15450	14640	14298	15370	1072	610
US Petroleum	338	284	512	478	829	759	850	91	317
US Other	11440	10711	10593	10205	10328	10635	10668	33	16
US Coal	76930	74264	74506	68885	68608	74706	76643	1937	3660
US Nuke	84441	82368	100142	83579	81186	81026	81914	888	-3543
US Hydro	24050	23234	24507	19805	19216	21928	21880	-47	-243
<b>US Gas</b>	<b>168398</b>	<b>159977</b>	<b>169570</b>	<b>141291</b>	<b>150263</b>	<b>176065</b>	<b>185799</b>	<b>9734</b>	<b>24872</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	1-Oct	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	85.1	89.6	87.5	86.0	86.7	85.1	-1.7	0.3
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	19.8	15.2	17.4	18.9	18.1	19.8	1.7	
NRC % Nuclear Cap Utilization	86.5	91.2	88.9	87.4	88.2	86.5	-1.7	

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

	1-Oct	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep	WoW	WoW Bcf/d Impact
CALI Wind	2467	1825	1285	2033	1941	1208	-733	0.1
TEXAS Wind	10364	6839	4092	8875	11580	8083	-3498	0.7
US Wind	43512	36122	27253	37396	47947	40598	-7349	1.4
							-15%	
							-0.3	

### Generation Weekly Average - MWh (EIA)

	1-Oct	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep	LY	Current	YoY	WoW Bcf/d Impact
US Wind	43512	36122	27253	37396	47947	40598			-7349	1.4
US Solar	12968	17072	16138	14887	17244	16495			-749	0.1
US Petroleum	458	1075	1105	1029	1010	379			-632	0.1
US Other	8725	10570	9948	10065	10826	11073			246	0.0
US Coal	94602	113005	105981	91209	92461	77586			-14874	2.8
US Nuke	88422	92018	89638	88711	89298	86646			-2652	0.5
US Hydro	25385	27850	27950	25849	23537	23068			-469	0.1
<b>US Gas</b>	<b>156149</b>	<b>232735</b>	<b>227619</b>	<b>201189</b>	<b>197536</b>	<b>171651</b>			<b>-25885</b>	<b>-4.8</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	86.5	85.6	90.6	90.5	86.2	80.5	84.8	-5.7
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	18.4	19.2	14.3	14.3	18.6	24.4	20.1	5.7	0.9
NRC % Nuclear Cap Utilization	88.0	87.1	92.1	92.1	87.7	81.9	86.2	-5.8	-0.9

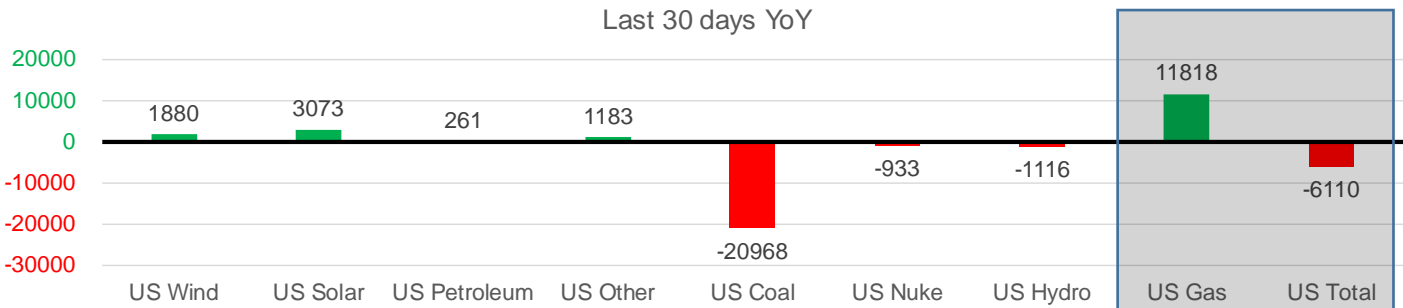
### Wind Generation Monthly Average - MWh (EIA)

	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	1269	1869	2719	2028	1608	1406	1622	-203
TEXAS Wind	7510	8315	11765	8440	7993	6571	8489	-1422	174
US Wind	32035	37283	39701	33222	38110	31548	39164	-6562	1880

### 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	32035	37283	39701	33222	38110	31548	39164	▲ 7615.1
US Solar	8931	12818	18599	16965	16133	15083	15892	▲ 808.9	▲ 3073
US Petroleum	1005	561	1252	1253	864	770	822	▲ 52	▲ 261
US Other	8242	9404	10142	10543	10462	10528	10587	▲ 59	▲ 1183
US Coal	84105	106251	119788	117200	92001	73688	85283	▲ 11595	▼ -20968
US Nuke	89687	88354	92883	92976	89052	81922	87421	▲ 5498	▼ -933
US Hydro	25897	25108	34227	30121	25185	21098	23992	▲ 2894	▼ -1116
<b>US Gas</b>	<b>173502</b>	<b>176728</b>	<b>235752</b>	<b>233741</b>	<b>199876</b>	<b>170836</b>	<b>188546</b>	<b>▲ 28522</b>	<b>▲ 11818</b>
<b>US Total</b>	<b>421529</b>	<b>456614</b>	<b>551815</b>	<b>535704</b>	<b>470280</b>	<b>406007</b>	<b>450505</b>	<b>▲ 49429</b>	<b>▼ -6110</b>

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

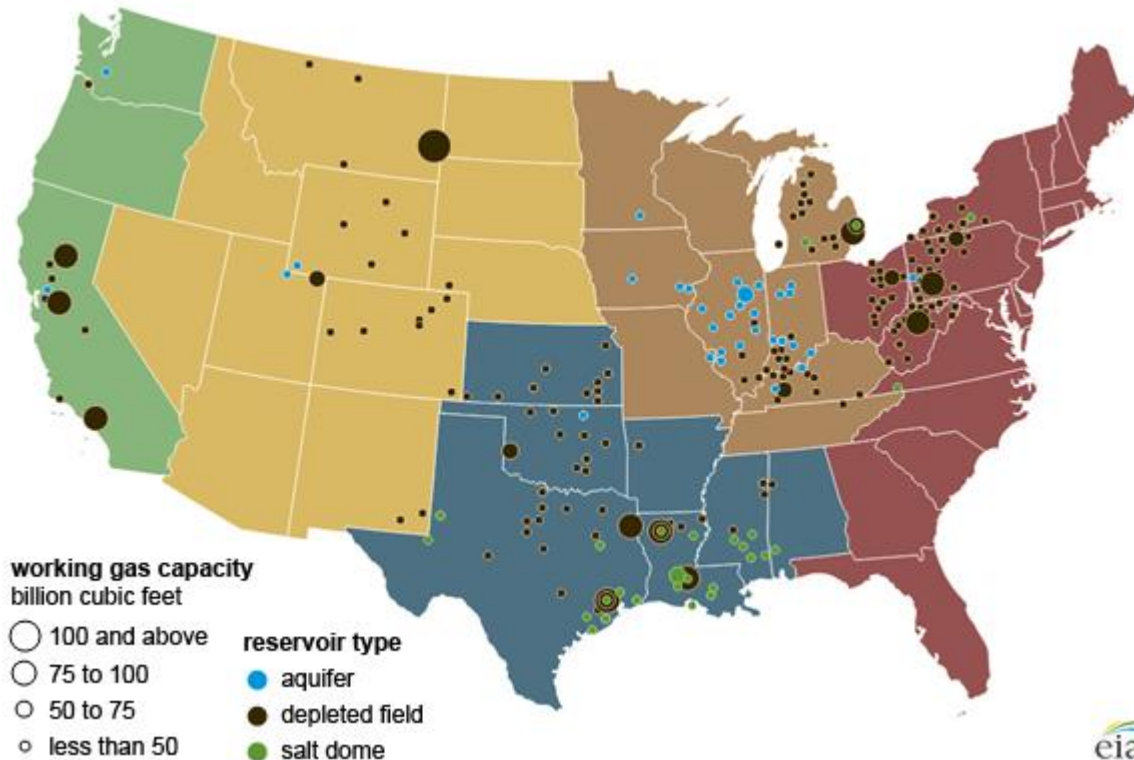
### Regional S/D Models Storage Projection

Week Ending 30-Sep

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	17.7	-0.2	17.5	122
East	2.2	2.1	4.3	30
Midwest	4.2	0.1	4.3	30
Mountain	5.5	-4.2	1.3	9
South Central	5.0	2.0	7.1	50
Pacific	0.8	-0.3	0.5	3

\*Adjustment Factor is calculated based on historical regional deltas

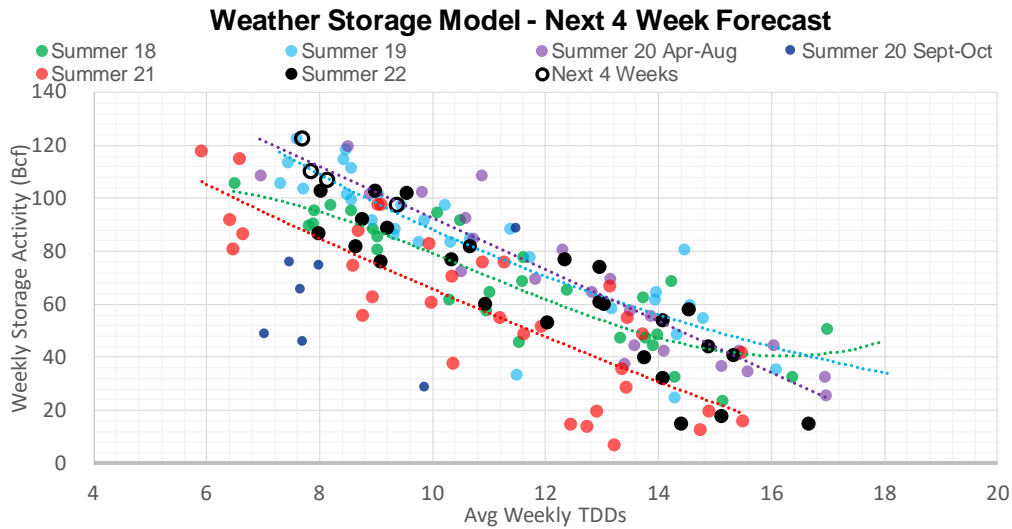
U.S. underground natural gas storage facilities by type (July 2015)



### Weather Model Storage Projection

Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
30-Sep	7.7	122
07-Oct	7.9	110
14-Oct	8.1	107
21-Oct	9.4	97

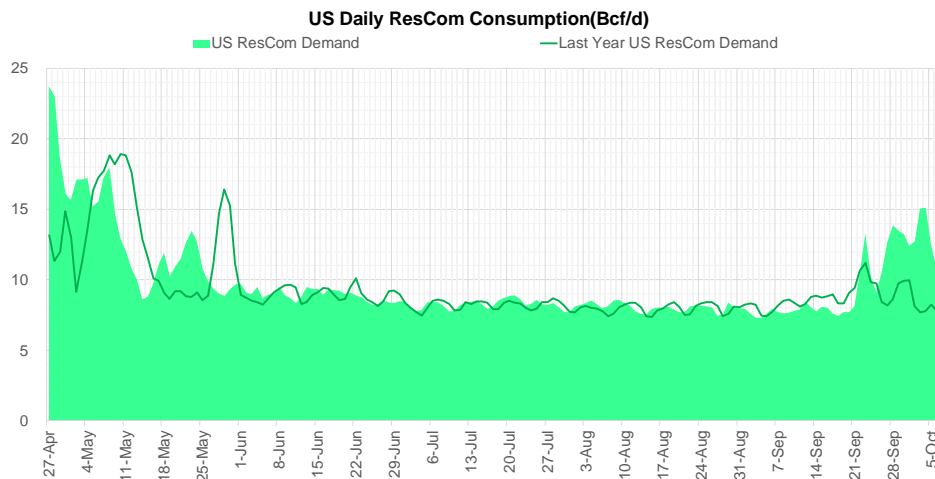
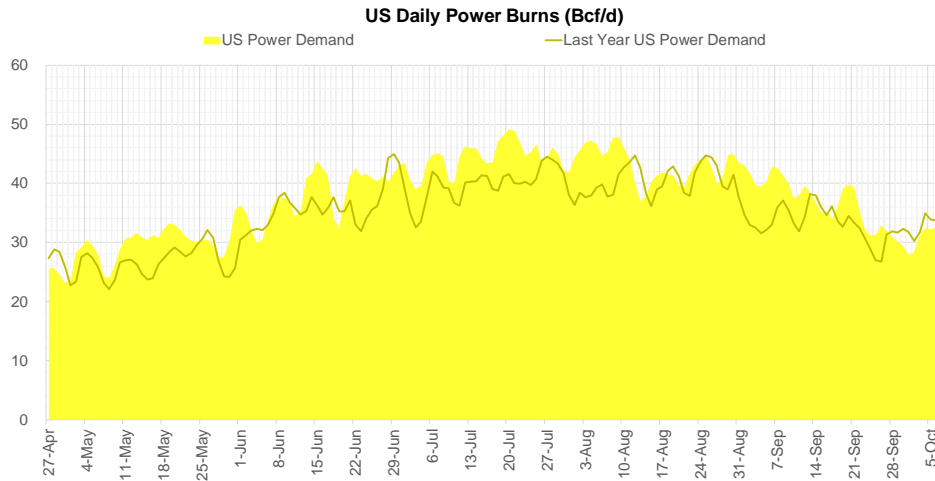
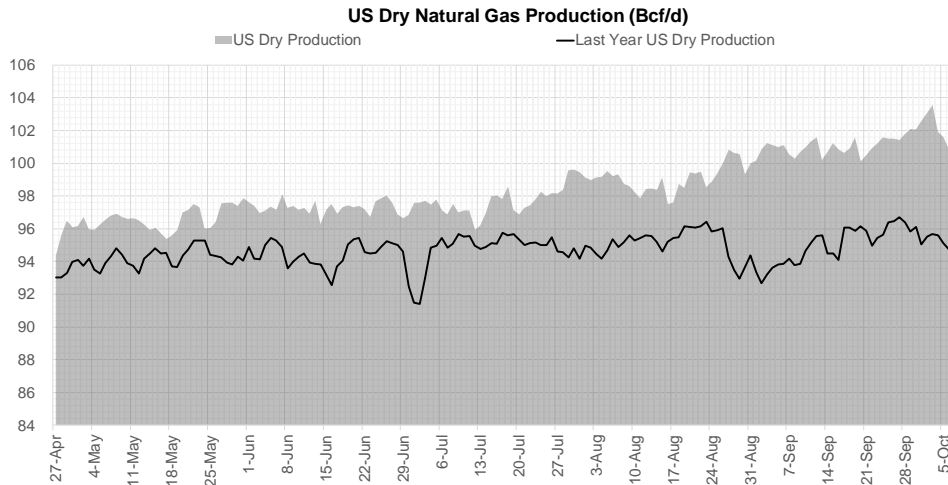


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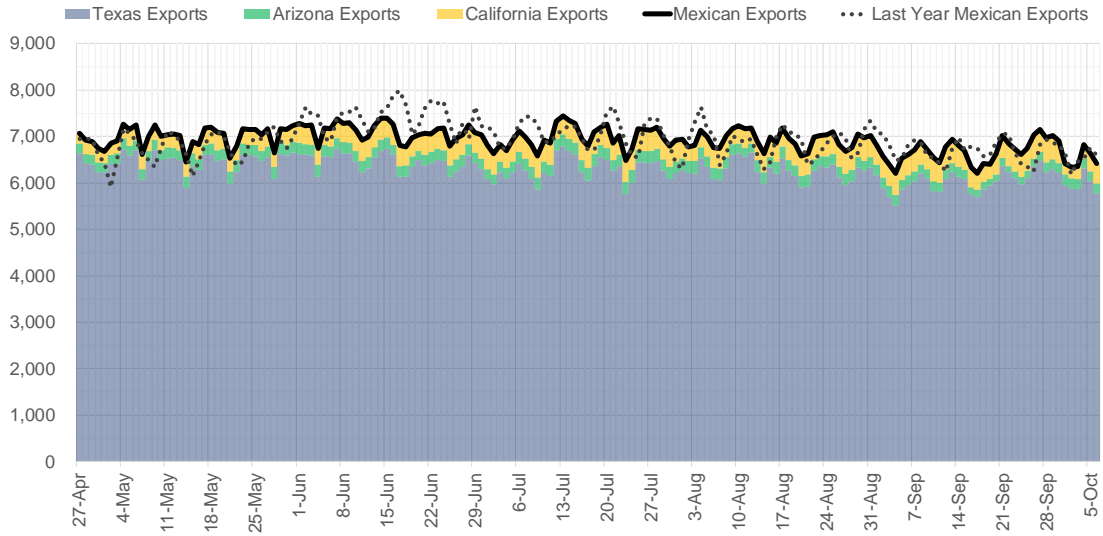
## Supply – Demand Trends



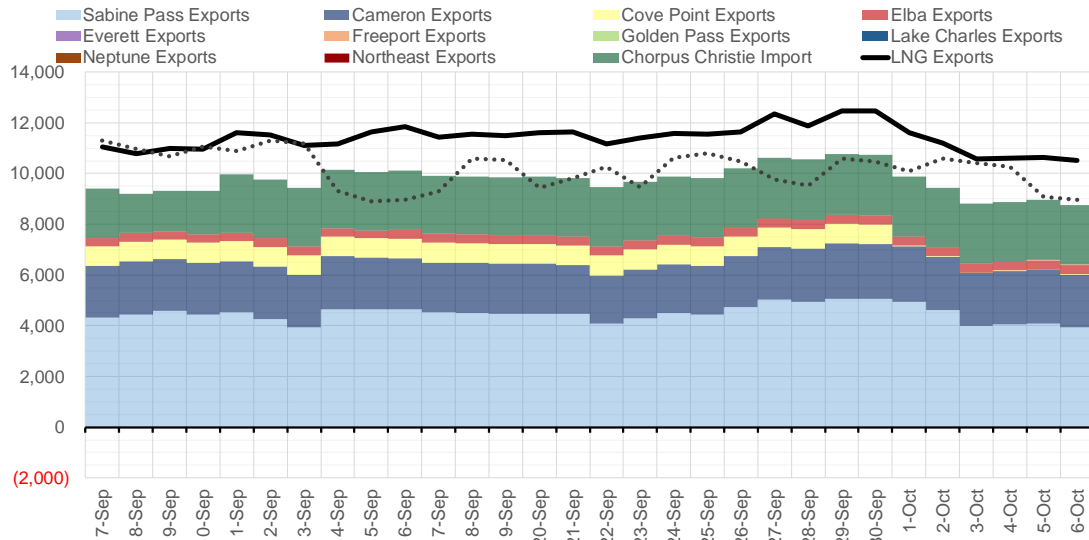
Source: Bloomberg

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.

### Mexican Exports (MMcf/d)



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



Source: Bloomberg

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.

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

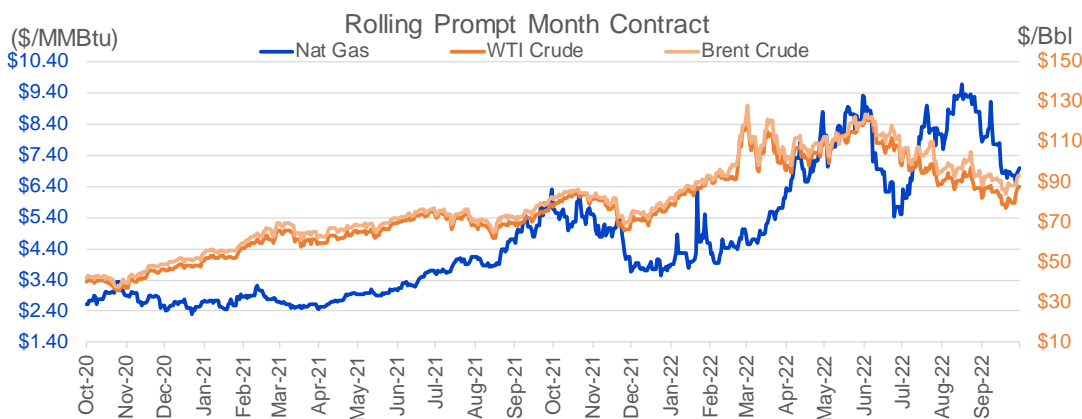
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
11	2022	P	6.00	9567	3	2023	C	10.00	26403
11	2022	P	6.50	7002	11	2022	P	6.00	25587
11	2022	C	10.00	6419	12	2022	P	4.00	25416
11	2022	P	5.75	6208	11	2022	P	4.00	24548
11	2022	P	6.25	5536	12	2022	P	5.00	23545
11	2022	C	9.00	5054	12	2022	P	6.00	23541
11	2022	P	5.50	4246	5	2023	P	2.00	22347
11	2022	C	7.00	3152	11	2022	C	10.00	21227
11	2022	C	8.00	2553	4	2023	P	3.00	21034
12	2022	P	6.00	1809	11	2022	P	5.00	20663
11	2022	C	8.75	1736	3	2023	P	4.00	19255
11	2022	C	11.00	1724	3	2023	C	20.00	19197
11	2022	C	7.50	1704	10	2023	P	3.00	19184
11	2022	P	5.00	1632	1	2023	C	10.00	18998
11	2022	C	12.00	1465	10	2023	P	2.50	18900
11	2022	C	14.00	1424	12	2022	C	5.00	18227
12	2022	P	6.50	1315	4	2023	P	3.50	18116
11	2022	P	6.90	1131	6	2023	P	3.00	17545
10	2023	P	3.50	1125	5	2023	P	3.00	17248
12	2022	P	4.00	1003	2	2023	C	10.00	17092
1	2023	P	2.75	1000	11	2022	C	8.00	17089
3	2024	P	3.00	1000	3	2023	P	3.00	17006
4	2024	P	3.00	1000	12	2022	P	5.50	16907
12	2022	P	5.00	996	10	2023	P	4.00	16906
12	2022	P	5.50	957	12	2022	C	10.00	16750
5	2023	P	4.00	950	5	2023	P	3.50	16715
1	2023	P	5.00	944	1	2023	P	4.00	16668
12	2022	C	7.00	927	11	2022	C	12.00	16326
10	2023	P	4.00	850	12	2022	C	4.00	16195
7	2023	P	3.00	815	10	2023	P	2.00	15954
8	2023	P	3.00	815	2	2023	C	9.00	15930
9	2023	P	3.00	815	8	2023	P	3.50	15897
1	2023	C	10.00	810	6	2023	P	3.50	15890
4	2023	P	3.00	810	1	2023	P	5.00	15889
5	2023	P	3.00	810	7	2023	P	3.50	15865
6	2023	P	3.00	810	9	2023	P	3.50	15855
10	2023	P	3.00	810	10	2023	P	3.50	15830
1	2023	P	4.25	800	11	2022	C	4.00	15755
2	2023	P	2.75	800	4	2023	P	4.00	15743
2	2023	P	4.25	800	7	2023	P	3.00	15625
3	2023	P	2.75	800	3	2023	P	2.75	15450
3	2023	P	4.25	800	8	2023	P	3.00	15425
11	2022	C	13.00	771	9	2023	P	3.00	15425
8	2023	P	4.00	755	9	2023	P	4.00	15386
1	2023	C	15.00	676	4	2023	P	2.00	15058
11	2022	C	9.50	641	12	2022	P	7.00	15018
4	2023	P	3.50	625	7	2023	P	4.00	14804
5	2023	P	3.50	625	5	2023	P	4.00	14518
6	2023	P	3.50	625	8	2023	P	4.00	14026
					11	2022	P	7	13930.5

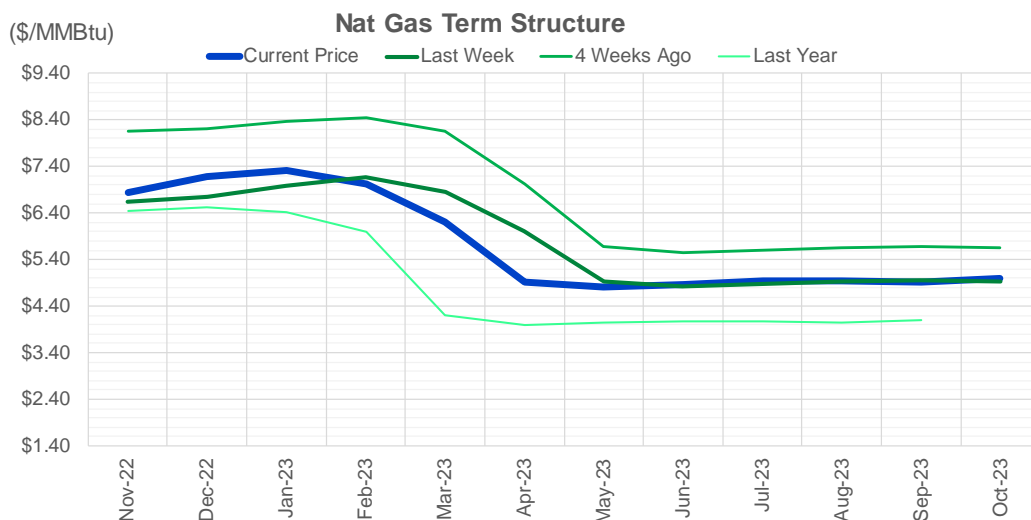
Source: CME, ICE

### 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	159095	160574	-1479	NOV 22	70079	71120	-1042
DEC 22	72776	72763	13	DEC 22	73946	73864	82
JAN 23	95366	93363	2003	JAN 23	70020	69885	135
FEB 23	46447	46560	-113	FEB 23	65687	65235	452
MAR 23	75952	75014	938	MAR 23	57102	57261	-159
APR 23	76553	76328	225	APR 23	55102	55132	-30
MAY 23	82504	82830	-326	MAY 23	55318	55243	75
JUN 23	24483	24234	249	JUN 23	45900	45710	189
JUL 23	25806	25769	37	JUL 23	46150	46202	-51
AUG 23	20658	20634	24	AUG 23	44786	44861	-75
SEP 23	23560	23659	-99	SEP 23	41801	41739	62
OCT 23	56599	56064	535	OCT 23	54884	54832	52
NOV 23	20002	19313	689	NOV 23	47637	47340	297
DEC 23	16245	15514	731	DEC 23	40479	40186	294
JAN 24	28643	27598	1045	JAN 24	43819	43762	57
FEB 24	9589	9720	-131	FEB 24	30865	30822	44
MAR 24	19383	19068	315	MAR 24	36249	36560	-311
APR 24	16736	16064	672	APR 24	29807	29827	-20
MAY 24	8417	8107	310	MAY 24	28398	28406	-8
JUN 24	2854	2806	48	JUN 24	25733	25735	-2
JUL 24	3895	3719	176	JUL 24	25281	25282	-1
AUG 24	3744	3747	-3	AUG 24	25018	25010	8
SEP 24	2299	2316	-17	SEP 24	24734	24741	-8
OCT 24	8825	9132	-307	OCT 24	28790	28872	-82
NOV 24	4970	4983	-13	NOV 24	26030	26023	8
DEC 24	8225	8242	-17	DEC 24	29826	29368	458
JAN 25	17482	17419	63	JAN 25	23807	23891	-84
FEB 25	1636	1636	0	FEB 25	15876	15933	-57
MAR 25	5277	5276	1	MAR 25	18054	18106	-52
APR 25	5162	5161	1	APR 25	16367	16510	-143

Source: CME, ICE



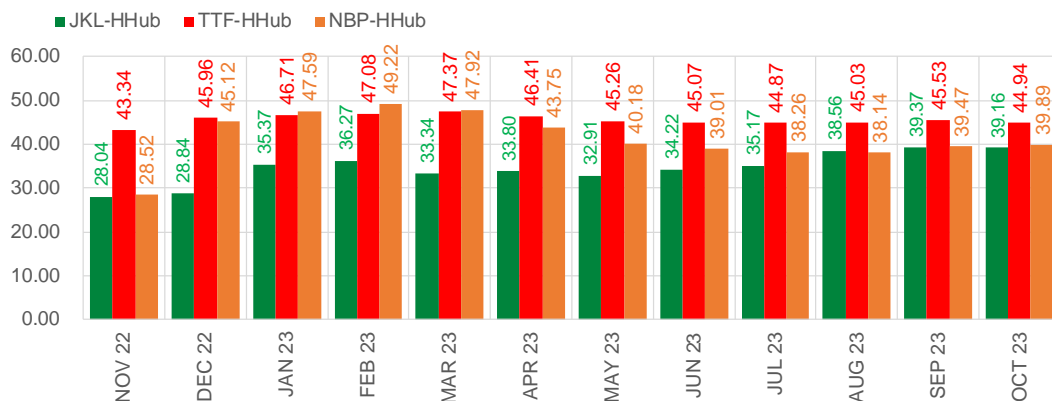
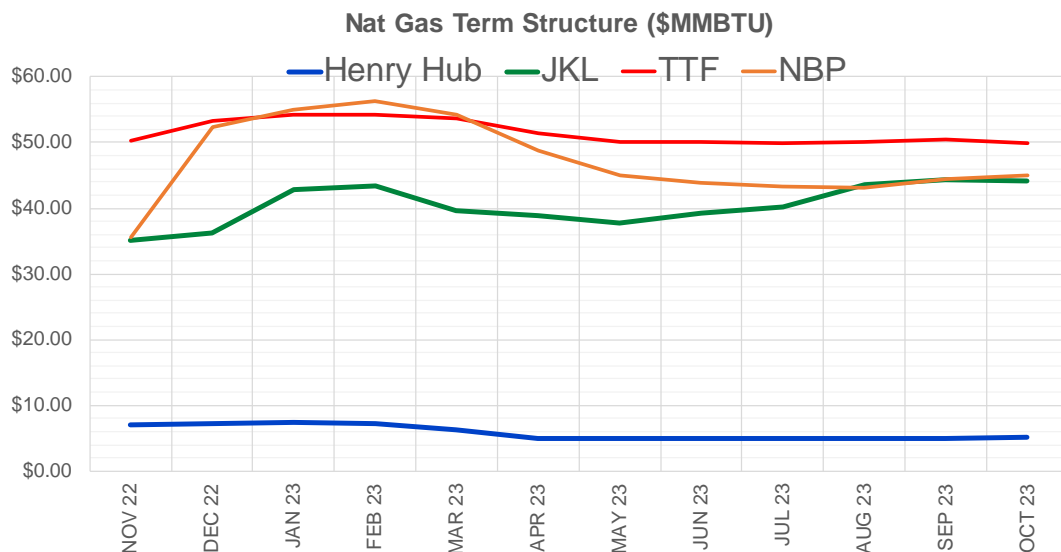


	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
<b>Current Price</b>	<b>\$6.837</b>	<b>\$7.174</b>	<b>\$7.320</b>	<b>\$7.030</b>	<b>\$6.200</b>	<b>\$4.921</b>	<b>\$4.801</b>	<b>\$4.870</b>	<b>\$4.940</b>	<b>\$4.948</b>	<b>\$4.916</b>	<b>\$4.989</b>
Last Week	\$6.651	\$6.760	\$6.990	\$7.157	\$6.851	\$5.997	\$4.923	\$4.816	\$4.877	\$4.941	\$4.950	\$4.923
vs. Last Week	\$0.186	\$0.414	\$0.330	-\$0.127	-\$0.651	-\$1.076	-\$0.122	\$0.054	\$0.063	\$0.007	-\$0.034	\$0.066
4 Weeks Ago	\$8.145	\$8.212	\$8.367	\$8.458	\$8.158	\$7.031	\$5.681	\$5.544	\$5.599	\$5.657	\$5.672	\$5.659
vs. 4 Weeks Ago	-\$1.308	-\$1.038	-\$1.047	-\$1.428	-\$1.958	-\$2.110	-\$0.880	-\$0.674	-\$0.659	-\$0.709	-\$0.756	-\$0.670
Last Year	\$6.312	\$6.432	\$6.522	\$6.407	\$5.996	\$4.196	\$4.006	\$4.035	\$4.074	\$4.078	\$4.058	\$4.088
vs. Last Year	\$0.525	\$0.742	\$0.798	\$0.623	\$0.204	\$0.725	\$0.795	\$0.835	\$0.866	\$0.870	\$0.858	\$0.901

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	6.35	5.06	-1.29
TETCO M3	\$/MMBtu	5.72	4.59	-1.13
FGT Zone 3	\$/MMBtu	5.90	7.36	1.46
Zone 6 NY	\$/MMBtu	5.90	4.55	-1.35
Chicago Citygate	\$/MMBtu	6.15	5.66	-0.49
Michcon	\$/MMBtu	6.13	5.76	-0.37
Columbia TCO Pool	\$/MMBtu	5.69	4.89	-0.80
Ventura	\$/MMBtu	6.15	5.78	-0.38
Rockies/Opal	\$/MMBtu	5.07	5.29	0.22
El Paso Permian Basin	\$/MMBtu	3.20	4.03	0.83
Socal Citygate	\$/MMBtu	7.97	6.33	-1.64
Malin	\$/MMBtu	6.42	5.99	-0.43
Houston Ship Channel	\$/MMBtu	5.93	5.37	-0.56
Henry Hub Cash	\$/MMBtu	6.30	5.57	-0.73
AECO Cash	C\$/GJ	4.19	3.31	-0.88
Station2 Cash	C\$/GJ	2.68	5.74	3.06
Dawn Cash	C\$/GJ	6.17	5.91	-0.26

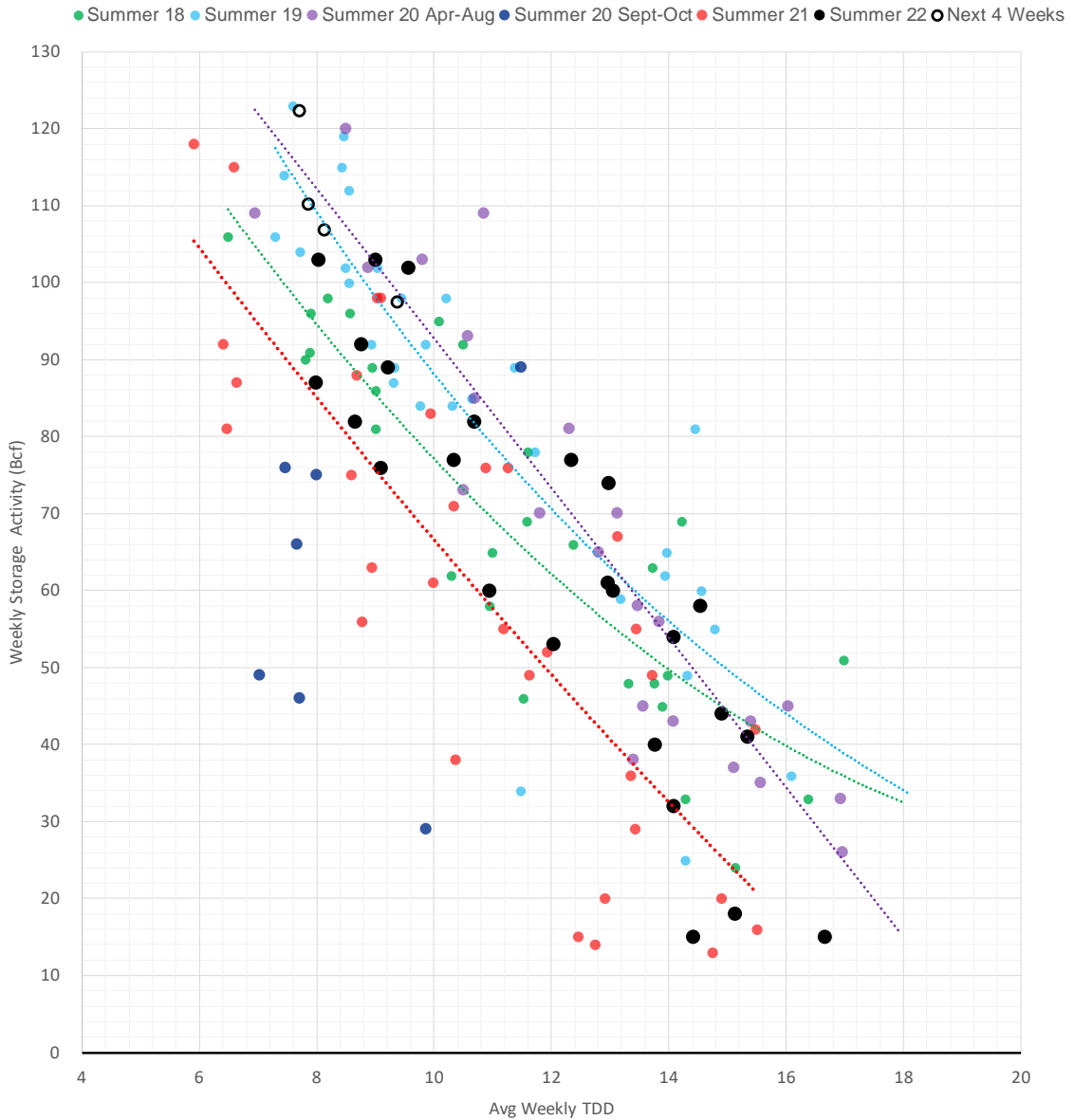
Source: CME, Bloomberg

	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	▲ 0.527
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -1.864
NatGas Apr22/Oct22	\$/MMBtu	1.532	▲ 0.000	▼ -0.974	▲ 1.598
WTI Crude	\$/Bbl	87.76	▲ 5.610	▲ 5.820	▲ 10.330
Brent Crude	\$/Bbl	93.37	▲ 4.050	▲ 5.370	▲ 12.290
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	368.69	▲ 23.750	▲ 10.090	▲ 124.490
Propane, Mt. Bel	cents/Gallon	0.91	▼ -0.085	▼ -0.147	▼ -0.591
Ethane, Mt. Bel	cents/Gallon	0.41	▼ -0.051	▼ -0.114	▼ -0.028
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			



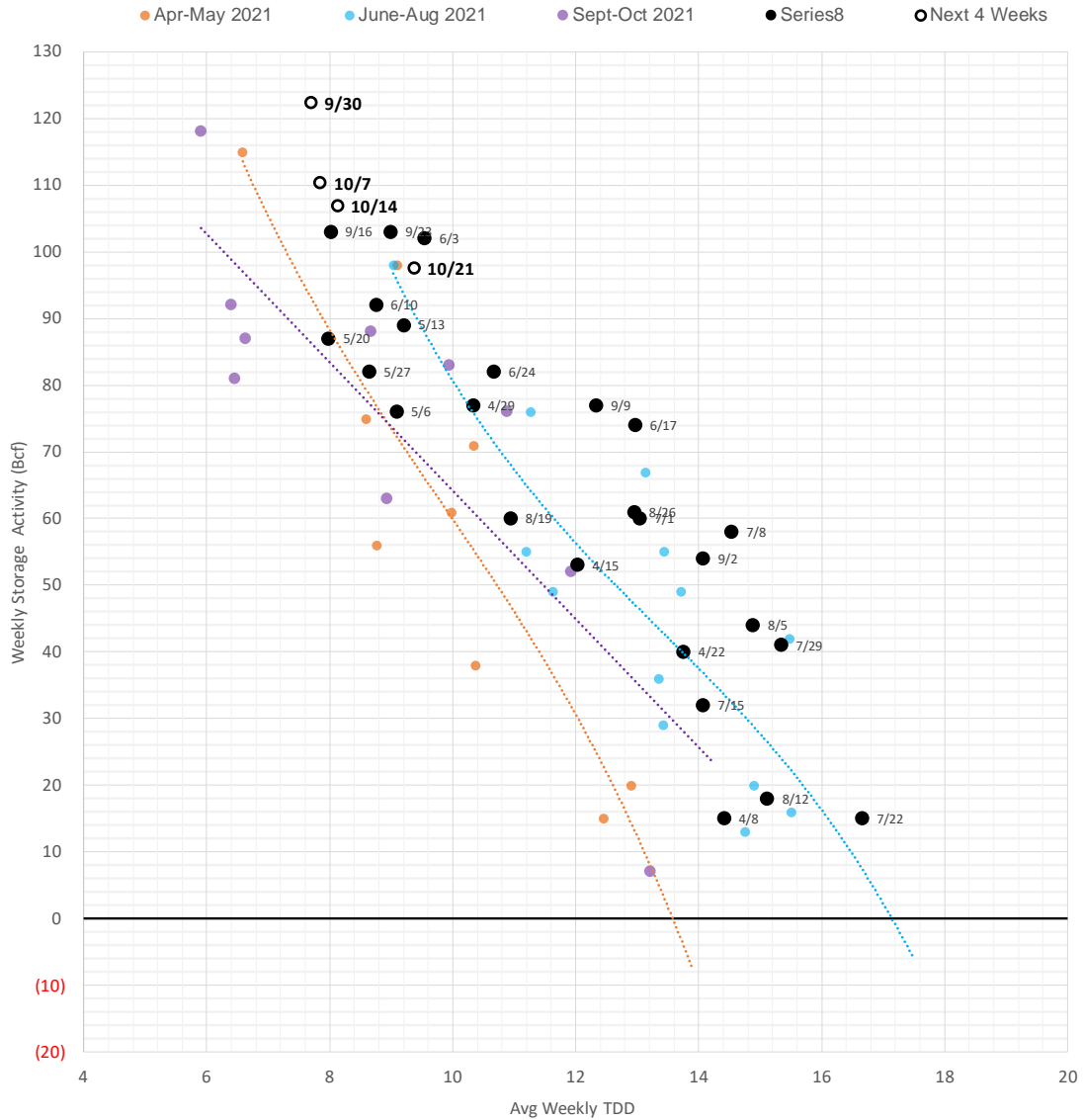
	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23
<b>Henry Hub</b>	<b>\$7.009</b>	<b>\$7.301</b>	<b>\$7.444</b>	<b>\$7.188</b>	<b>\$6.348</b>	<b>\$5.008</b>	<b>\$4.881</b>	<b>\$4.947</b>	<b>\$5.021</b>	<b>\$5.021</b>	<b>\$4.985</b>	<b>\$5.058</b>
<b>JKL</b>	<b>\$35.050</b>	<b>\$36.145</b>	<b>\$42.810</b>	<b>\$43.460</b>	<b>\$39.685</b>	<b>\$38.810</b>	<b>\$37.790</b>	<b>\$39.170</b>	<b>\$40.190</b>	<b>\$43.580</b>	<b>\$44.350</b>	<b>\$44.215</b>
<b>JKL-HHub</b>	<b>\$28.041</b>	<b>\$28.844</b>	<b>\$35.366</b>	<b>\$36.272</b>	<b>\$33.337</b>	<b>\$33.802</b>	<b>\$32.909</b>	<b>\$34.223</b>	<b>\$35.169</b>	<b>\$38.559</b>	<b>\$39.365</b>	<b>\$39.157</b>
<b>TTF</b>	<b>\$50.347</b>	<b>\$53.263</b>	<b>\$54.151</b>	<b>\$54.263</b>	<b>\$53.718</b>	<b>\$51.416</b>	<b>\$50.141</b>	<b>\$50.017</b>	<b>\$49.887</b>	<b>\$50.054</b>	<b>\$50.519</b>	<b>\$49.995</b>
<b>TTF-HHub</b>	<b>\$43.338</b>	<b>\$45.962</b>	<b>\$46.707</b>	<b>\$47.075</b>	<b>\$47.370</b>	<b>\$46.408</b>	<b>\$45.260</b>	<b>\$45.070</b>	<b>\$44.866</b>	<b>\$45.033</b>	<b>\$45.534</b>	<b>\$44.937</b>
<b>NBP</b>	<b>\$35.525</b>	<b>\$52.425</b>	<b>\$55.036</b>	<b>\$56.408</b>	<b>\$54.270</b>	<b>\$48.753</b>	<b>\$45.063</b>	<b>\$43.957</b>	<b>\$43.278</b>	<b>\$43.157</b>	<b>\$44.452</b>	<b>\$44.951</b>
<b>NBP-HHub</b>	<b>\$28.516</b>	<b>\$45.124</b>	<b>\$47.592</b>	<b>\$49.220</b>	<b>\$47.922</b>	<b>\$43.745</b>	<b>\$40.182</b>	<b>\$39.010</b>	<b>\$38.257</b>	<b>\$38.136</b>	<b>\$39.467</b>	<b>\$39.893</b>

### Weather Storage Model - Next 4 Week Forecast





### Weather Storage Model - Next 4 Week Forecast



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