

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 6.96	▲ \$ 0.05	▼ \$ (0.18)

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 77.78	▲ \$ 1.07	▼ \$ (2.8)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 85.34	▲ \$ 1.28	▼ \$ (2.3)

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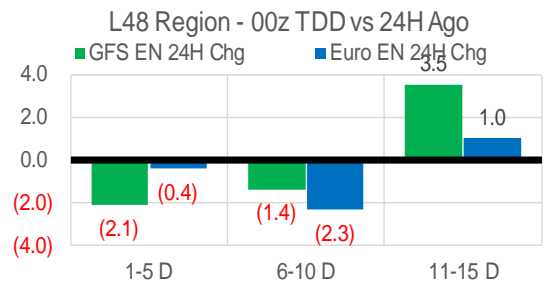
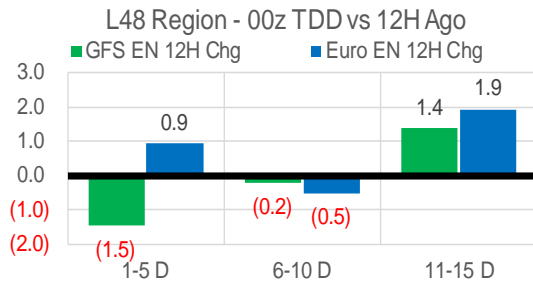
[Nat Gas Options Volume and Open Interest](#)

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### Vs. 12H Ago

### Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	99.8	▼ -1.24	▼ -0.72

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	32.5	▼ -0.49	▼ -1.99

	Current	Δ from YD	Δ from 7D Avg
US ResComm	11.3	▲ 0.54	▲ 1.08

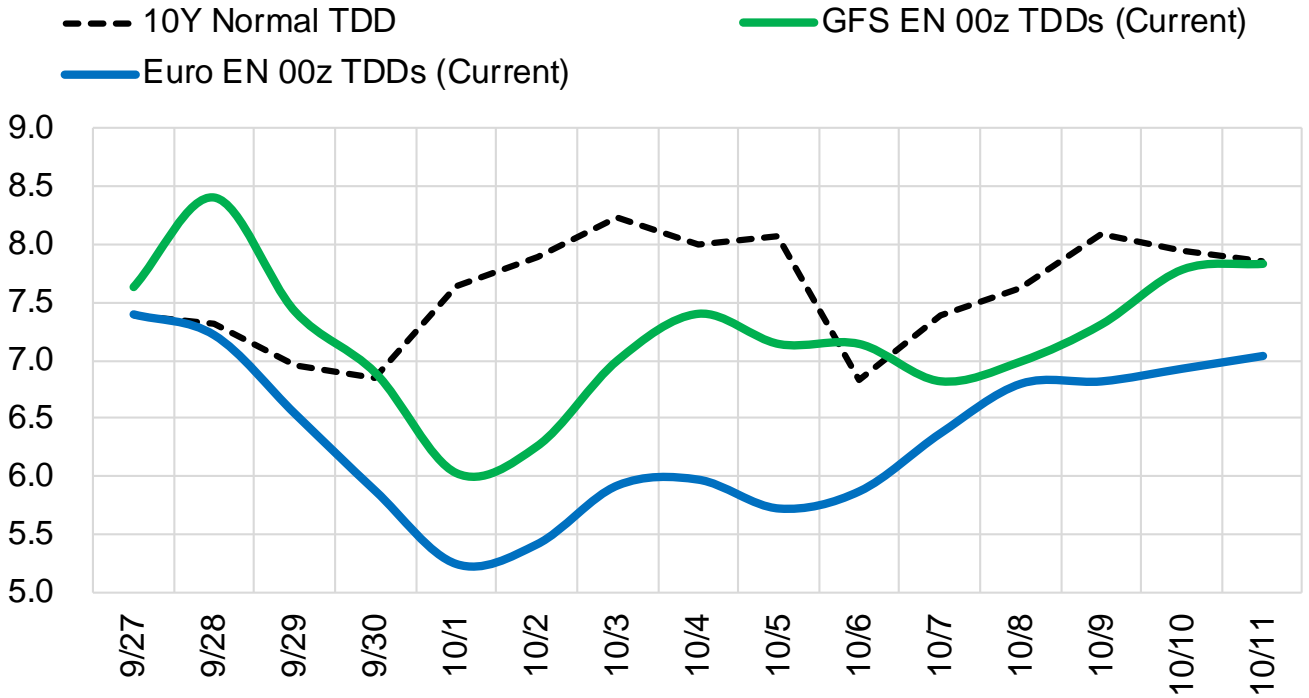
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.4	▲ 0.17	▲ 0.21

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.2	▲ 0.27	▲ 0.61

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.8	▼ -0.10	▲ 0.07

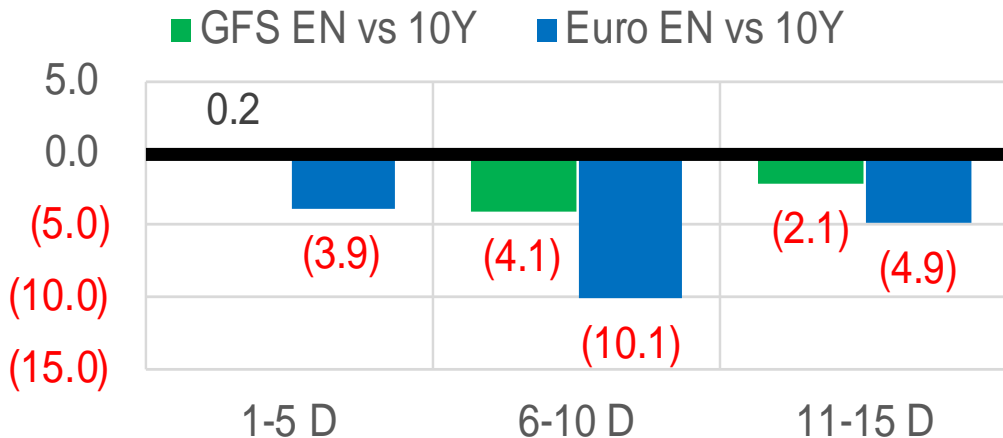
## Short-term Weather Model Outlooks (00z)

### L48 Region



### Vs. 10Y Normal

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



Source: WSI, Bloomberg

## Lower 48 Component Models

### Daily Balances

	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>100.0</b>	<b>100.3</b>	<b>100.7</b>	<b>101.0</b>	<b>100.9</b>	<b>101.0</b>	<b>99.8</b>	▼ -1.2	▼ -0.9
<b>Canadian Imports</b>	<b>6.1</b>	<b>6.3</b>	<b>6.1</b>	<b>6.0</b>	<b>6.1</b>	<b>6.2</b>	<b>6.4</b>	▲ 0.2	▲ 0.2
L48 Power	39.2	35.6	32.1	30.9	30.9	33.0	32.5	▼ -0.5	▼ -1.1
L48 Residential & Commercial	8.4	10.9	13.6	10.6	9.4	10.8	11.3	▲ 0.5	▲ 0.7
L48 Industrial	21.7	22.0	22.0	21.5	21.4	21.5	21.8	▲ 0.2	▲ 0.1
L48 Lease and Plant Fuel	5.4	5.4	5.5	5.5	5.5	5.5	5.4	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	2.6	2.6	2.5	2.3	2.2	2.4	2.4	▲ 0.0	▼ 0.0
<b>L48 Regional Gas Consumption</b>	<b>77.3</b>	<b>76.5</b>	<b>75.7</b>	<b>70.7</b>	<b>69.3</b>	<b>73.2</b>	<b>73.4</b>	▲ 0.2	▼ -0.4
<b>Net LNG Delivered</b>	<b>11.63</b>	<b>11.16</b>	<b>11.40</b>	<b>11.57</b>	<b>11.56</b>	<b>11.88</b>	<b>12.15</b>	▲ 0.3	▲ 0.6
<b>Total Mexican Exports</b>	<b>7.1</b>	<b>6.9</b>	<b>6.7</b>	<b>6.4</b>	<b>6.2</b>	<b>6.9</b>	<b>6.8</b>	▼ -0.1	▲ 0.1
<b>Implied Daily Storage Activity</b>	<b>10.0</b>	<b>12.1</b>	<b>13.0</b>	<b>18.3</b>	<b>19.9</b>	<b>15.3</b>	<b>13.9</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	LY 24-Sep	26-Aug	2-Sep	9-Sep	LW 16-Sep	Current 23-Sep	WoW	vs. LY
<b>Lower 48 Dry Production</b>	<b>94.2</b>	<b>98.6</b>	<b>99.8</b>	<b>100.4</b>	<b>100.4</b>	<b>100.2</b>	▼ -0.2	▲ 6.0
<b>Canadian Imports</b>	<b>5.2</b>	<b>5.4</b>	<b>5.7</b>	<b>5.8</b>	<b>5.5</b>	<b>6.1</b>	▲ 0.6	▲ 0.9
L48 Power	33.4	41.2	42.6	41.1	38.0	37.0	▼ -1.0	3.6
L48 Residential & Commercial	9.4	8.2	8.2	7.9	8.3	8.5	▲ 0.2	-0.9
L48 Industrial	20.3	21.0	21.9	21.1	20.3	21.4	▲ 1.1	1.0
L48 Lease and Plant Fuel	5.1	5.4	5.4	5.4	5.4	5.4	▼ 0.0	0.3
L48 Pipeline Distribution	2.4	2.6	2.7	2.7	2.6	2.5	▼ 0.0	0.2
<b>L48 Regional Gas Consumption</b>	<b>70.5</b>	<b>78.5</b>	<b>80.8</b>	<b>78.3</b>	<b>74.5</b>	<b>74.8</b>	▲ 0.3	▲ 4.3
<b>Net LNG Exports</b>	<b>9.9</b>	<b>11.1</b>	<b>10.9</b>	<b>11.3</b>	<b>11.3</b>	<b>11.5</b>	▲ 0.2	▲ 1.6
<b>Total Mexican Exports</b>	<b>6.8</b>	<b>6.9</b>	<b>6.9</b>	<b>6.6</b>	<b>6.7</b>	<b>6.6</b>	▼ -0.1	▼ -0.2
<b>Implied Daily Storage Activity</b>	<b>12.1</b>	<b>7.6</b>	<b>7.0</b>	<b>10.2</b>	<b>13.4</b>	<b>13.4</b>	<b>0.0</b>	<b>1.3</b>
<b>EIA Reported Daily Storage Activity</b>	<b>12.6</b>	<b>8.7</b>	<b>7.7</b>	<b>11.0</b>	<b>14.7</b>			
<b>Daily Model Error</b>	<b>-0.5</b>	<b>-1.1</b>	<b>-0.7</b>	<b>-0.8</b>	<b>-1.3</b>			

### Monthly Balances

	2Yr Ago Sep-20	LY Sep-21	May-22	Jun-22	Jul-22	Aug-22	MTD Sep-22	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>88.9</b>	<b>93.6</b>	<b>95.8</b>	<b>96.5</b>	<b>97.1</b>	<b>98.6</b>	<b>100.4</b>	▲ 1.8	▲ 6.9
<b>Canadian Imports</b>	<b>3.8</b>	<b>5.1</b>	<b>5.1</b>	<b>5.7</b>	<b>5.9</b>	<b>5.4</b>	<b>5.8</b>	▲ 0.5	▲ 0.7
L48 Power	34.4	33.1	29.8	38.0	43.7	42.6	37.8	▼ -4.9	▲ 4.6
L48 Residential & Commercial	8.9	8.7	12.4	9.1	9.0	8.3	8.7	▲ 0.3	▼ -0.1
L48 Industrial	19.9	20.2	19.7	18.7	19.5	21.3	21.0	▼ -0.2	▲ 0.8
L48 Lease and Plant Fuel	4.8	5.1	5.3	5.3	5.3	5.4	5.4	▲ 0.1	▲ 0.4
L48 Pipeline Distribution	2.4	2.3	2.4	2.5	2.8	2.7	2.6	▼ -0.1	▲ 0.3
<b>L48 Regional Gas Consumption</b>	<b>70.4</b>	<b>69.5</b>	<b>69.5</b>	<b>73.7</b>	<b>80.2</b>	<b>80.3</b>	<b>75.5</b>	▼ -4.8	▲ 6.0
<b>Net LNG Exports</b>	<b>5.9</b>	<b>10.3</b>	<b>12.5</b>	<b>11.2</b>	<b>10.9</b>	<b>11.0</b>	<b>11.4</b>	▲ 0.4	▲ 1.0
<b>Total Mexican Exports</b>	<b>6.1</b>	<b>6.7</b>	<b>7.0</b>	<b>7.1</b>	<b>7.0</b>	<b>6.9</b>	<b>6.6</b>	▼ -0.3	▼ -0.1
<b>Implied Daily Storage Activity</b>	<b>10.3</b>	<b>12.1</b>	<b>11.9</b>	<b>10.2</b>	<b>4.9</b>	<b>5.8</b>	<b>12.8</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>					<b>0.2</b>				

Source: Bloomberg, analytix.ai

## Daily Average Generation Data

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

	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	DoD	vs. 7D
NRC Nuclear Daily Output	86.5	87.0	87.1	87.1	87.4	87.4	87.4	0.0	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	18.3	17.9	17.8	17.8	17.5	17.5	17.5	0.0	-0.3
NRC % Nuclear Cap Utilization	88.0	88.5	88.6	88.5	88.9	88.9	88.9	0.0	0.3

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

	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	DoD	vs. 7D
CALI Wind	1239	1192	2218	1361	665	524	1065	541	-135
TEXAS Wind	10744	10293	8907	6079	8364	9992	8447	-1546	-617
US Wind	42932	48455	50945	42787	43013	37865	46532	8666	2199

### Generation Daily Average - MWh (EIA)

	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	DoD	vs. 7D
US Wind	42932	48455	50945	42787	43013	37865	46532	8666	2199
US Solar	16220	16201	16161	16967	17621	16824	15717	-1107	-949
US Petroleum	1137	1059	979	982	786	293	293	0	-579
US Other	10962	10586	10808	10226	9960	9804	9851	47	-540
US Coal	95322	99943	98768	94154	81827	77483	71986	-5497	-19264
US Nuke	89348	89352	89445	89700	90408	89058	89132	75	-420
US Hydro	24901	24580	24379	22144	22010	21182	21834	653	-1365
<b>US Gas</b>	<b>216780</b>	<b>216356</b>	<b>212184</b>	<b>195314</b>	<b>172320</b>	<b>164752</b>	<b>165188</b>	<b>436</b>	<b>-31096</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	24-Sep	26-Aug	2-Sep	9-Sep	16-Sep	23-Sep	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	85.9	90.3	89.6	87.5	86.0	86.7	0.8	-0.1
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	19.0	14.5	15.2	17.4	18.9	18.1	-0.8	
NRC % Nuclear Cap Utilization	87.3	91.9	91.2	88.9	87.4	88.2	0.8	

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

	24-Sep	26-Aug	2-Sep	9-Sep	16-Sep	23-Sep	WoW	WoW Bcf/d Impact
CALI Wind	1936	2324	1825	1285	2033	1941	-92	0.0
TEXAS Wind	9780	5879	6839	4092	8875	11580	2706	-0.5
US Wind	43289	23582	36122	27253	37396	47934	10538	-1.9
							28%	
						0.3		

### Generation Weekly Average - MWh (EIA)

	24-Sep	26-Aug	2-Sep	9-Sep	16-Sep	23-Sep	YoY	WoW Bcf/d Impact
					LY	Current		
US Wind	43289	23582	36122	27253	37396	47934	10538	-1.9
US Solar	12204	15772	17073	16144	14887	16867	1980	-0.4
US Petroleum	415	1047	1075	1105	1029	1010	-18	0.0
US Other	9130	10337	10580	9948	9945	10663	717	-0.1
US Coal	108923	114538	113005	105982	91205	92421	1217	-0.2
US Nuke	88789	92904	92018	89638	88711	89298	587	-0.1
US Hydro	25369	30663	27850	27950	25849	23535	-2314	0.4
<b>US Gas</b>	<b>177557</b>	<b>227245</b>	<b>232735</b>	<b>227615</b>	<b>201209</b>	<b>196806</b>	<b>-4403</b>	<b>-0.8</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	Jun-22	Jul-22	Aug-22	Sep-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	NRC Nuclear Daily Output	89.2	87.8	88.6	90.6	90.5	86.7	87.0	-3.8
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	15.7	17.1	16.3	14.3	14.3	18.1	17.9	3.8	0.8
NRC % Nuclear Cap Utilization	90.7	89.2	90.1	92.1	92.1	88.2	88.4	-3.9	-0.8

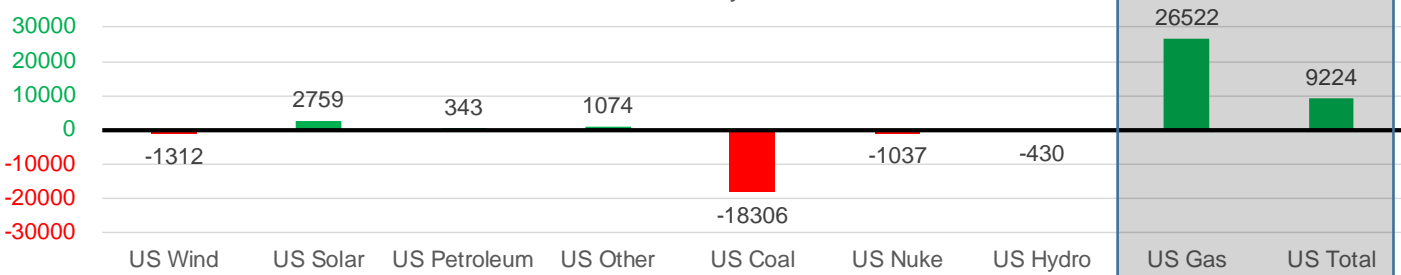
### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Jun-22	Jul-22	Aug-22	Sep-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	CALI Wind	1528	2023	2892	2719	2028	1583	1567	-445
TEXAS Wind	7147	8768	13378	11765	8440	8107	7882	-333	-885
US Wind	31738	38855	46918	39701	33222	38282	37544	5061	-1312

### Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Jun-22	Jul-22	Aug-22	Sep-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	US Wind	31738	38855	46918	39701	33222	38282	37544	▼ -738.7
US Solar	9310	13355	19376	18598	16968	16022	16114	▲ 92.2	▲ 2759
US Petroleum	965	604	1001	1252	1253	916	947	▲ 32	▲ 343
US Other	8460	9105	8608	10129	10426	10115	10179	▲ 64	▲ 1074
US Coal	98447	113931	105517	119788	117200	93236	95625	▲ 2389	▼ -18306
US Nuke	92138	90578	89949	92883	92976	89324	89541	▲ 217	▼ -1037
US Hydro	26325	25867	37531	34227	30121	25120	25437	▲ 317	▼ -430
<b>US Gas</b>	<b>181769</b>	<b>179836</b>	<b>200872</b>	<b>235766</b>	<b>233741</b>	<b>201955</b>	<b>206357</b>	<b>▲ 2372</b>	<b>▲ 26522</b>
<b>US Total</b>	<b>447344</b>	<b>472278</b>	<b>509350</b>	<b>551822</b>	<b>535677</b>	<b>474750</b>	<b>481502</b>	<b>▲ 5482</b>	<b>▲ 9224</b>

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

### Regional S/D Models Storage Projection

Week Ending 23-Sep

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	14.6	0.0	14.6	102
East	2.6	2.0	4.7	33
Midwest	4.6	-0.1	4.4	31
Mountain	5.1	-4.2	1.0	7
South Central	0.9	3.0	3.9	27
Pacific	1.4	-0.7	0.7	5

\*Adjustment Factor is calculated based on historical regional deltas

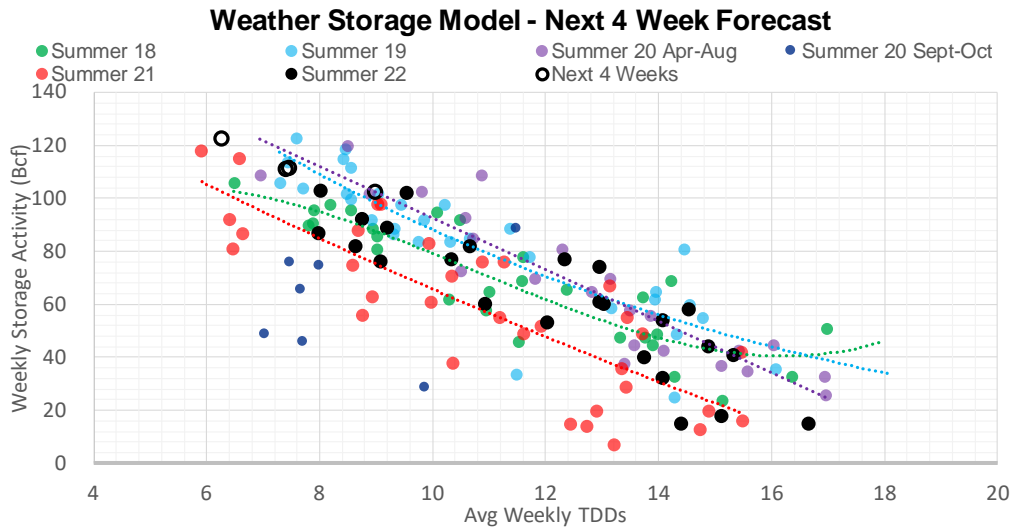
U.S. underground natural gas storage facilities by type (July 2015)



## Weather Model Storage Projection

Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
23-Sep	9.0	102
30-Sep	7.5	111
07-Oct	6.3	122
14-Oct	7.4	111

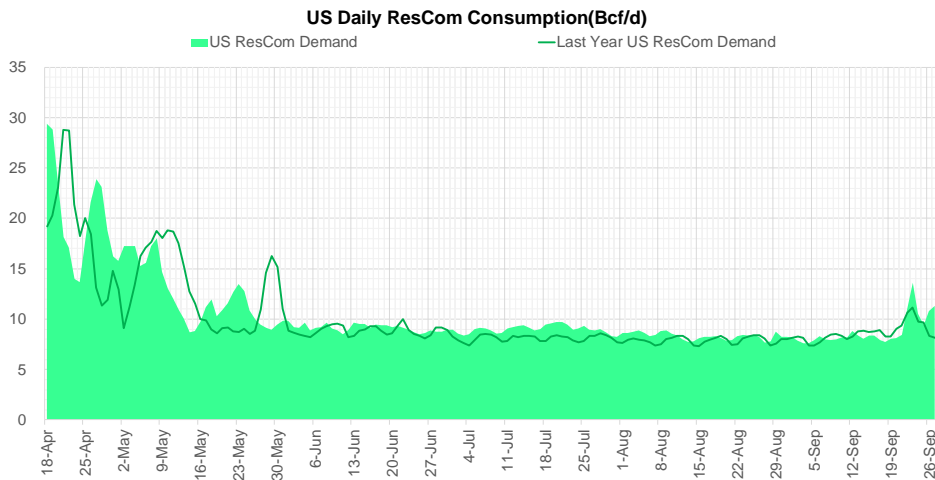
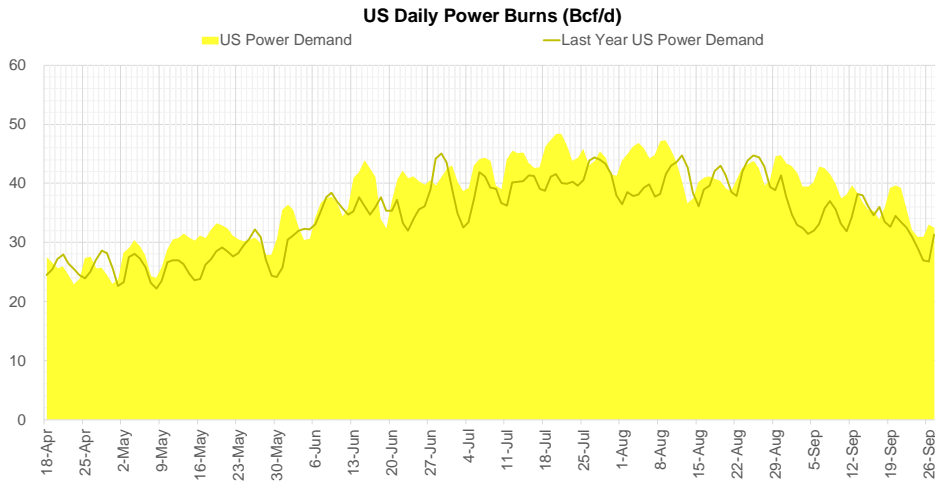
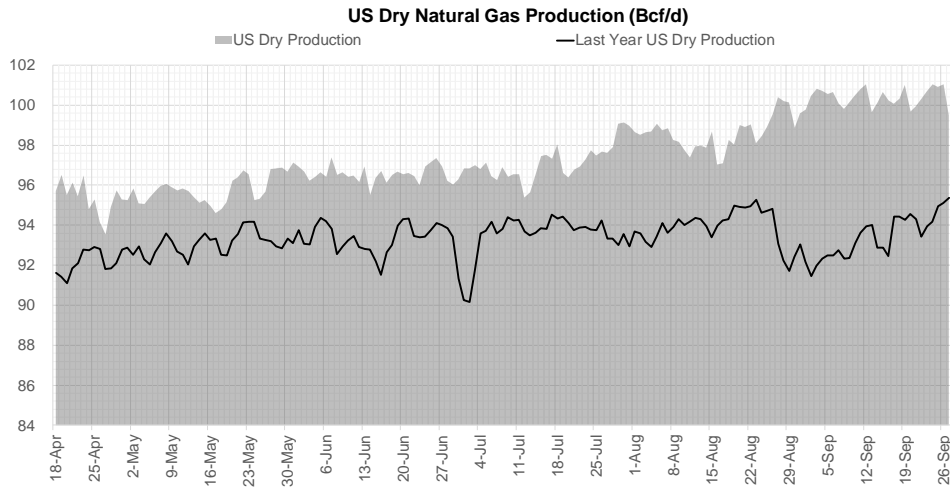


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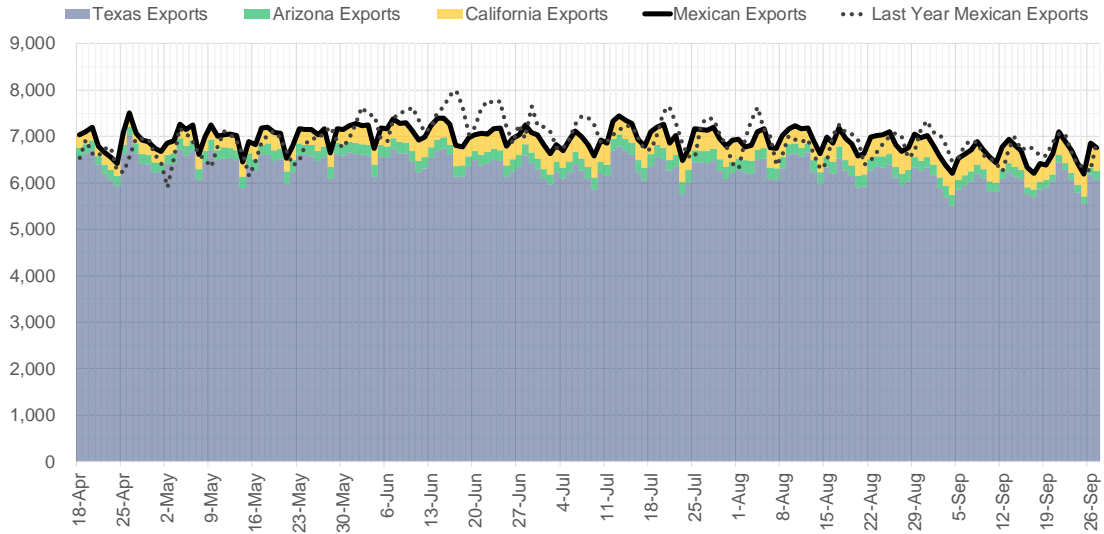
## Supply – Demand Trends



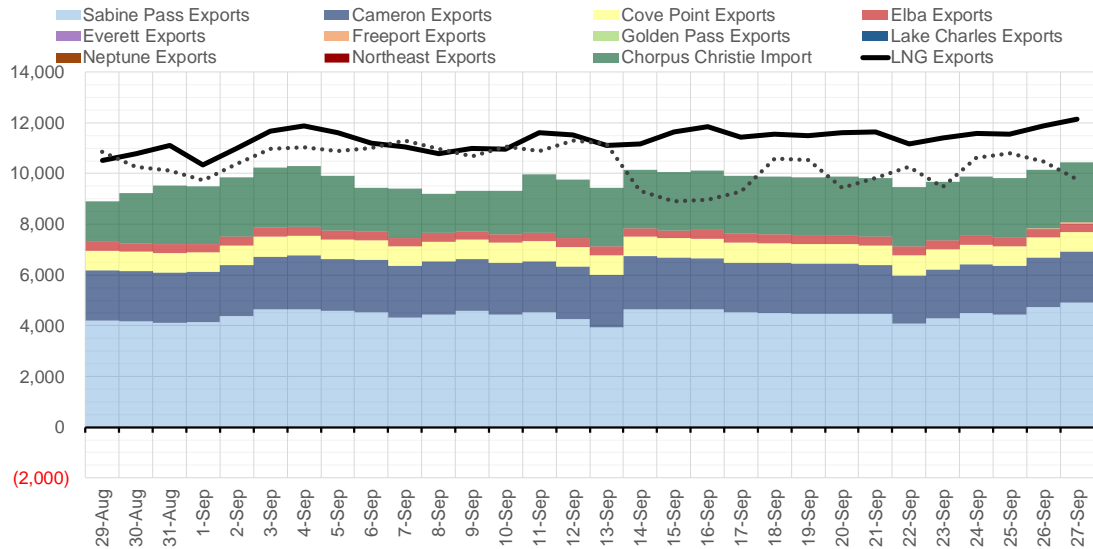
Source: Bloomberg

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### Mexican Exports (MMcf/d)



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



Source: Bloomberg

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

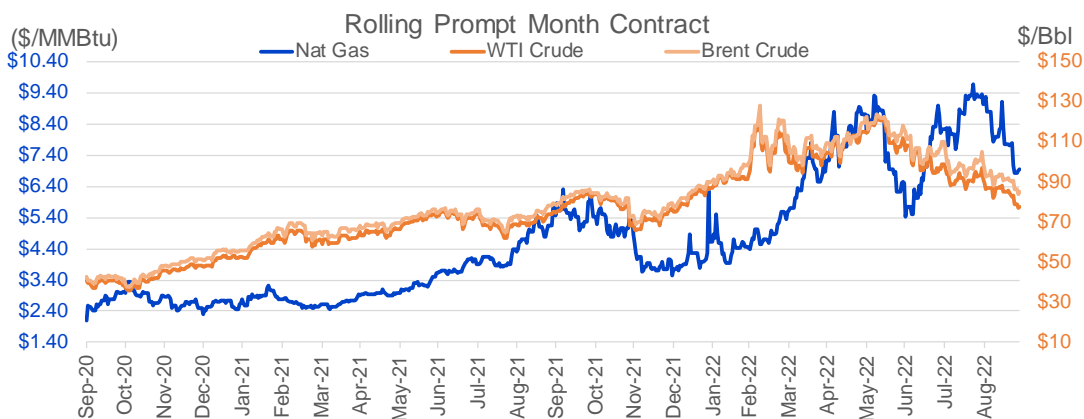
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
10	2022	P	6.50	3065	10	2022	P	3.00	36677
12	2022	P	5.50	3063	10	2022	C	6.00	36013
10	2022	C	7.00	2711	10	2022	P	6.00	32970
10	2022	P	6.00	2669	10	2022	P	5.00	30500
10	2022	C	7.50	2637	10	2022	P	2.50	28006
10	2022	P	6.75	2514	10	2022	C	10.00	25552
11	2022	P	6.00	2427	12	2022	P	4.00	25126
12	2022	C	6.25	2150	3	2023	C	10.00	24082
12	2022	P	5.00	2106	10	2022	C	5.00	23569
11	2022	P	5.00	1939	10	2022	C	12.00	22931
12	2022	P	4.50	1927	11	2022	P	4.00	22413
12	2022	C	6.00	1875	10	2022	P	3.50	22294
12	2022	C	5.00	1650	5	2023	P	2.00	22252
10	2022	P	7.00	1580	10	2022	P	4.00	22161
10	2022	C	7.25	1472	12	2022	P	5.00	22021
11	2022	P	5.25	1460	4	2023	P	3.00	21636
10	2022	P	6.25	1268	10	2022	C	8.00	21124
12	2022	P	6.50	1251	10	2022	P	8.00	20375
12	2022	C	12.00	1078	11	2022	P	5.00	20043
3	2023	C	10.00	1034	10	2023	P	3.00	19933
11	2022	C	8.00	1015	4	2023	P	3.50	19491
11	2022	P	2.75	1000	3	2023	C	20.00	18902
3	2023	C	7.50	988	10	2022	C	9.00	18464
12	2022	P	6.00	967	10	2022	P	7.00	18381
11	2022	P	6.50	957	5	2023	P	3.50	18240
11	2022	C	7.50	946	12	2022	C	5.00	18227
12	2022	C	6.50	828	3	2023	P	4.00	18000
11	2022	C	11.00	783	6	2023	P	3.00	17970
11	2022	C	7.00	764	5	2023	P	3.00	17948
1	2023	P	4.00	750	3	2023	P	3.00	17829
11	2022	P	4.25	745	10	2023	P	2.50	17800
12	2022	C	9.00	738	12	2022	P	6.00	17735
11	2022	P	4.75	733	1	2023	C	10.00	17632
1	2023	C	7.50	726	7	2023	P	3.50	17390
4	2023	P	2.00	700	8	2023	P	3.50	17390
5	2023	P	2.00	700	9	2023	P	3.50	17380
6	2023	P	2.00	700	6	2023	P	3.50	17365
7	2023	P	2.00	700	10	2023	P	3.50	17355
8	2023	P	2.00	700	10	2022	P	2.00	16749
9	2023	P	2.00	700	10	2022	P	5.50	16741
10	2023	P	2.00	700	7	2023	P	3.00	16550
12	2022	C	8.00	694	8	2023	P	3.00	16350
4	2023	P	4.00	690	9	2023	P	3.00	16350
10	2022	C	8.00	675	12	2022	C	4.00	16194
4	2023	C	4.50	675	2	2023	C	10.00	16173
5	2023	C	4.50	675	10	2023	P	4.00	16111
5	2023	P	4.00	675	1	2023	P	5.00	15889
6	2023	C	4.50	675	11	2022	C	4.00	15755
6	2023	C	4.50	675	11	2022	C	12.00	15719
6	2023	P	4.00	675	1	2023	P	4	15715.25

Source: CME, ICE

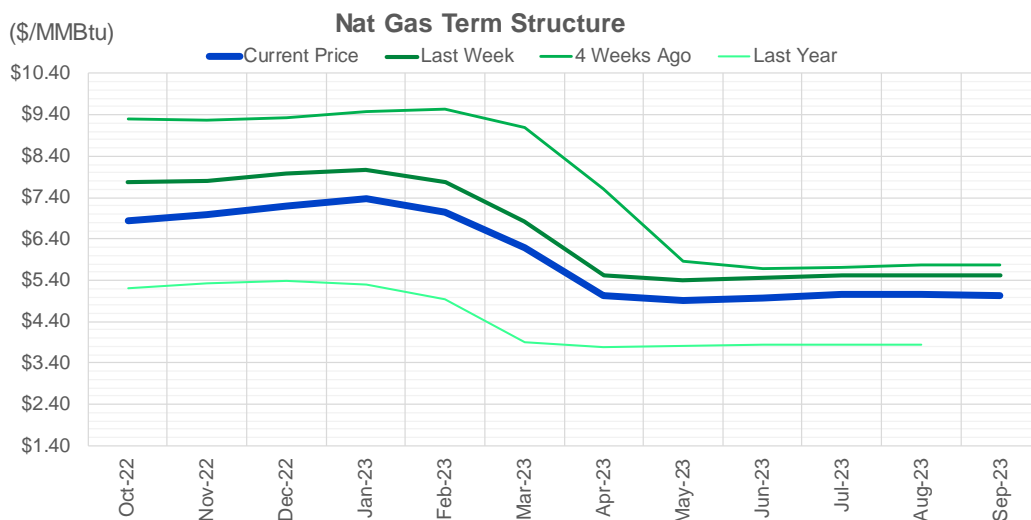
## Nat Gas Futures Open Interest CME and ICE Combined

CME Henry Hub Futures (10,000 MMBtu)				ICE Henry Hub Futures Contract Equivalent (10,000 MM			
	Current	Prior	Daily Change		Current	Prior	Daily Change
OCT 22	9455	12597	-3142	OCT 22	73060	72887	173
NOV 22	165680	165506	174	NOV 22	74244	74083	161
DEC 22	67057	65985	1072	DEC 22	70488	69512	977
JAN 23	89408	89138	270	JAN 23	66357	65450	908
FEB 23	41463	41293	170	FEB 23	65425	65249	176
MAR 23	72392	72346	46	MAR 23	56580	56312	268
APR 23	76825	76459	366	APR 23	53096	52668	428
MAY 23	80323	79591	732	MAY 23	53050	52864	186
JUN 23	23099	23040	59	JUN 23	45059	45043	17
JUL 23	24522	24137	385	JUL 23	43953	43958	-5
AUG 23	19845	19855	-10	AUG 23	43219	42954	265
SEP 23	21402	21794	-392	SEP 23	41419	42273	-854
OCT 23	54577	54300	277	OCT 23	53916	52149	1767
NOV 23	20229	19299	930	NOV 23	47207	47205	2
DEC 23	14782	14488	294	DEC 23	40827	40812	15
JAN 24	24541	25511	-970	JAN 24	42745	42957	-212
FEB 24	9420	9092	328	FEB 24	31095	31000	95
MAR 24	18962	18944	18	MAR 24	36653	36656	-3
APR 24	15726	15369	357	APR 24	29349	29334	15
MAY 24	7598	7620	-22	MAY 24	27835	27849	-14
JUN 24	2831	2850	-19	JUN 24	25176	25161	15
JUL 24	3584	3569	15	JUL 24	24733	24747	-15
AUG 24	3593	3592	1	AUG 24	24416	24431	-15
SEP 24	2301	2303	-2	SEP 24	24161	24176	-15
OCT 24	8984	8918	66	OCT 24	28052	28154	-102
NOV 24	4857	4851	6	NOV 24	25580	25544	36
DEC 24	8189	8143	46	DEC 24	28927	28882	45
JAN 25	17392	17326	66	JAN 25	23211	23184	28
FEB 25	1580	1580	0	FEB 25	15679	15679	0
MAR 25	5187	5188	-1	MAR 25	18033	17985	48

Source: CME, ICE



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.



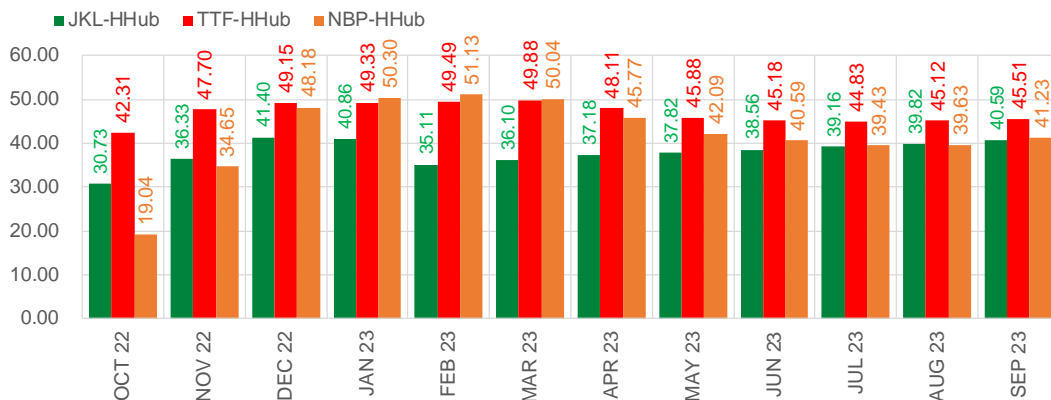
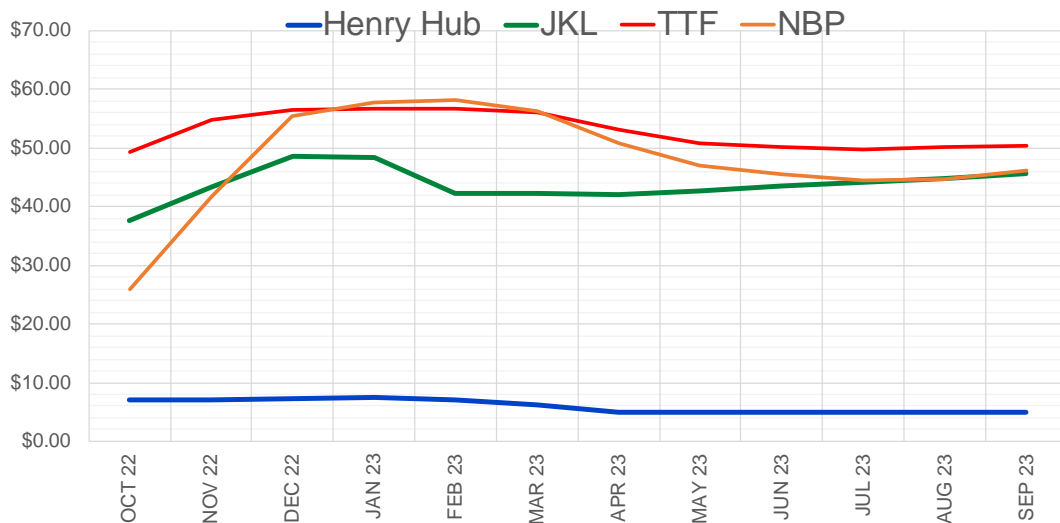
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
<b>Current Price</b>	<b>\$6.828</b>	<b>\$6.992</b>	<b>\$7.203</b>	<b>\$7.366</b>	<b>\$7.054</b>	<b>\$6.174</b>	<b>\$5.021</b>	<b>\$4.911</b>	<b>\$4.977</b>	<b>\$5.045</b>	<b>\$5.056</b>	<b>\$5.031</b>
Last Week	\$7.764	\$7.811	\$7.966	\$8.067	\$7.767	\$6.820	\$5.526	\$5.405	\$5.460	\$5.517	\$5.531	\$5.513
vs. Last Week	-\$0.936	-\$0.819	-\$0.763	-\$0.701	-\$0.713	-\$0.646	-\$0.505	-\$0.494	-\$0.483	-\$0.472	-\$0.475	-\$0.482
4 Weeks Ago	\$9.296	\$9.269	\$9.332	\$9.473	\$9.539	\$9.092	\$7.617	\$5.848	\$5.669	\$5.718	\$5.766	\$5.778
vs. 4 Weeks Ago	-\$2.468	-\$2.277	-\$2.129	-\$2.107	-\$2.485	-\$2.918	-\$2.596	-\$0.937	-\$0.692	-\$0.673	-\$0.710	-\$0.747
Last Year	\$5.140	\$5.200	\$5.315	\$5.391	\$5.289	\$4.949	\$3.905	\$3.775	\$3.805	\$3.847	\$3.852	\$3.831
vs. Last Year	\$1.688	\$1.792	\$1.888	\$1.975	\$1.765	\$1.225	\$1.116	\$1.136	\$1.172	\$1.198	\$1.204	\$1.200

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	4.30	7.09	2.79
TETCO M3	\$/MMBtu	4.24	6.39	2.15
FGT Zone 3	\$/MMBtu	4.28	8.55	4.27
Zone 6 NY	\$/MMBtu	4.28	6.41	2.13
Chicago Citygate	\$/MMBtu	5.08	7.18	2.10
Michcon	\$/MMBtu	5.09	7.07	1.98
Columbia TCO Pool	\$/MMBtu	4.70	6.38	1.68
Ventura	\$/MMBtu	5.95	7.15	1.20
Rockies/Opal	\$/MMBtu	5.47	6.95	1.48
El Paso Permian Basin	\$/MMBtu	1.87	5.25	3.38
Socal Citygate	\$/MMBtu	8.90	7.47	-1.43
Malin	\$/MMBtu	5.82	7.12	1.30
Houston Ship Channel	\$/MMBtu	5.30	7.04	1.74
Henry Hub Cash	\$/MMBtu	6.75	6.97	0.22
AECO Cash	C\$/GJ	3.79	2.82	-0.97
Station2 Cash	C\$/GJ	2.00	7.10	5.10
Dawn Cash	C\$/GJ	5.40	7.11	1.71

Source: CME, Bloomberg

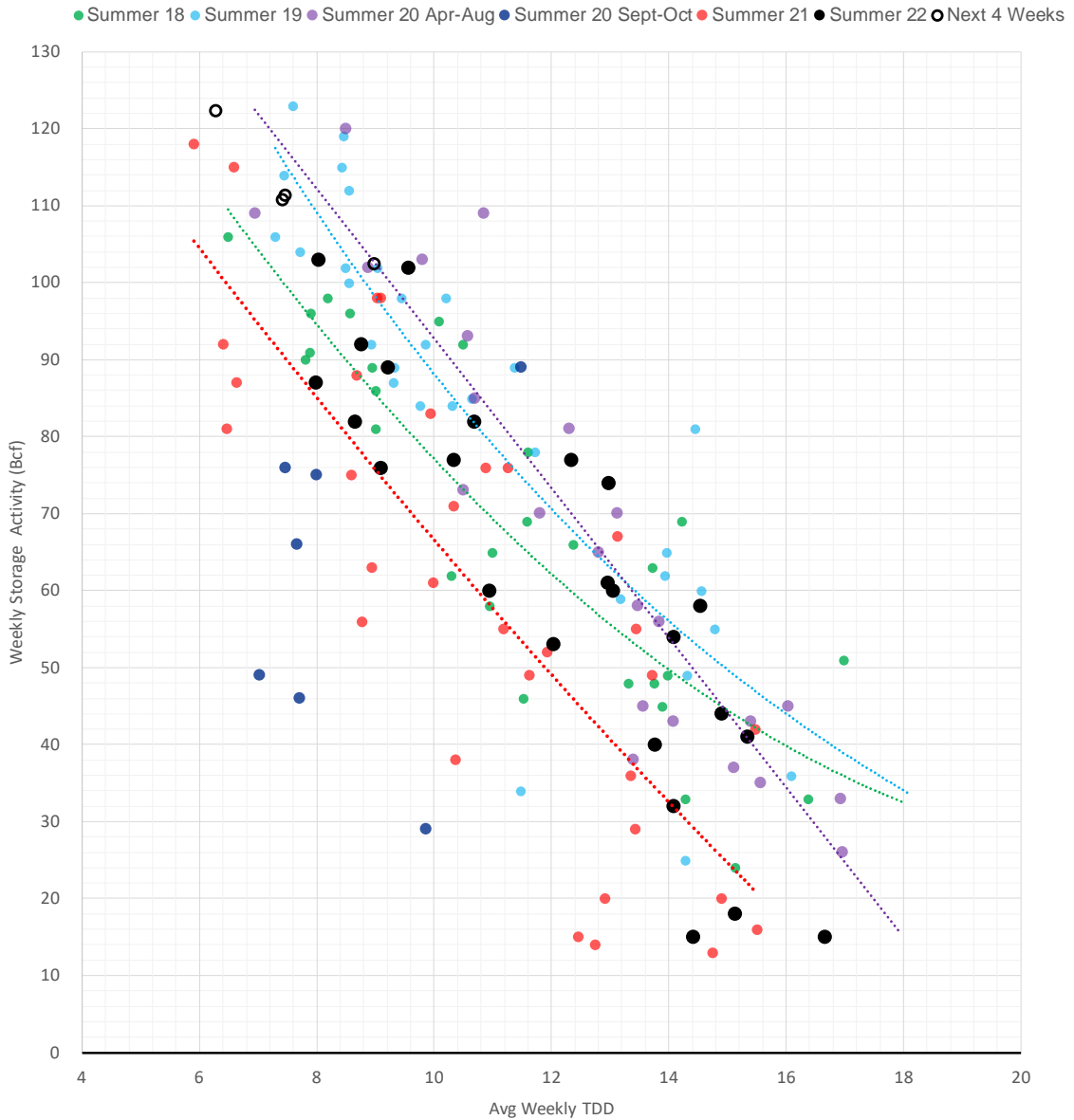
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 0.135
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.336
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.021
NatGas Apr22/Oct22	\$/MMBtu	1.567	▼ -0.849	▼ -2.433	▲ 1.656
WTI Crude	\$/Bbl	76.71	▼ -9.020	▼ -20.300	▲ 1.260
Brent Crude	\$/Bbl	84.06	▼ -7.940	▼ -21.030	▲ 4.530
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	312.91	▼ -18.170	▼ -78.080	▲ 83.310
Propane, Mt. Bel	cents/Gallon	0.99	▼ -0.048	▼ -0.106	▼ -0.293
Ethane, Mt. Bel	cents/Gallon	0.46	▼ -0.020	▼ -0.140	▲ 0.074
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)



	OCT 22	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23
<b>Henry Hub</b>	\$6.956	\$7.059	\$7.277	\$7.452	\$7.135	\$6.139	\$4.958	\$4.855	\$4.918	\$4.995	\$5.001	\$4.969
<b>JKL</b>	\$37.690	\$43.385	\$48.675	\$48.310	\$42.240	\$42.240	\$42.135	\$42.670	\$43.480	\$44.155	\$44.825	\$45.560
<b>JKL-HHub</b>	\$30.734	\$36.326	\$41.398	\$40.858	\$35.105	\$36.101	\$37.177	\$37.815	\$38.562	\$39.160	\$39.824	\$40.591
<b>TTF</b>	\$49.261	\$54.757	\$56.431	\$56.783	\$56.621	\$56.016	\$53.063	\$50.737	\$50.100	\$49.823	\$50.125	\$50.475
<b>TTF-HHub</b>	\$42.305	\$47.698	\$49.154	\$49.331	\$49.486	\$49.877	\$48.105	\$45.882	\$45.182	\$44.828	\$45.124	\$45.506
<b>NBP</b>	\$25.992	\$41.705	\$55.456	\$57.755	\$58.268	\$56.179	\$50.732	\$46.943	\$45.507	\$44.429	\$44.634	\$46.202
<b>NBP-HHub</b>	\$19.036	\$34.646	\$48.179	\$50.303	\$51.133	\$50.040	\$45.774	\$42.088	\$40.589	\$39.434	\$39.633	\$41.233

## Weather Storage Model - Next 4 Week Forecast





## Weather Storage Model - Next 4 Week Forecast

