

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 6.47	▲ \$ 0.03	▼ \$ (0.20)

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 87.37	▲ \$ 0.10	▼ \$ (3.2)

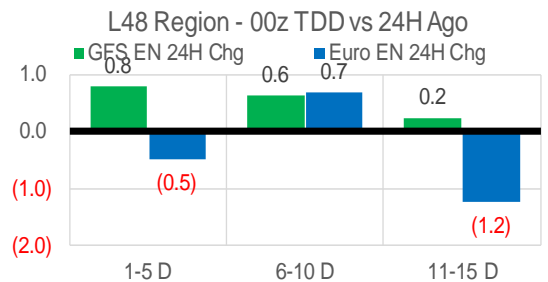
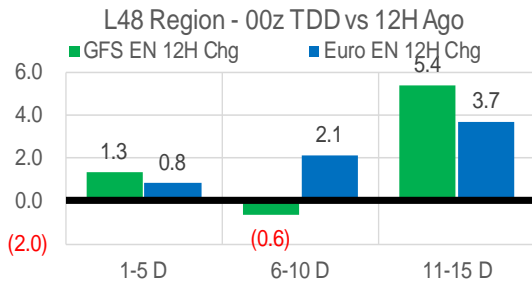
	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 92.58	▲ \$ 0.13	▼ \$ (3.3)

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](#)

Vs. 12H Ago

Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	100.1	▼ -1.30	▼ -2.10

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	32.4	▲ 0.15	▲ 1.73

	Current	Δ from YD	Δ from 7D Avg
US ResComm	14.2	▲ 2.34	▲ 0.14

	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.5	▲ 0.01	▲ 0.01

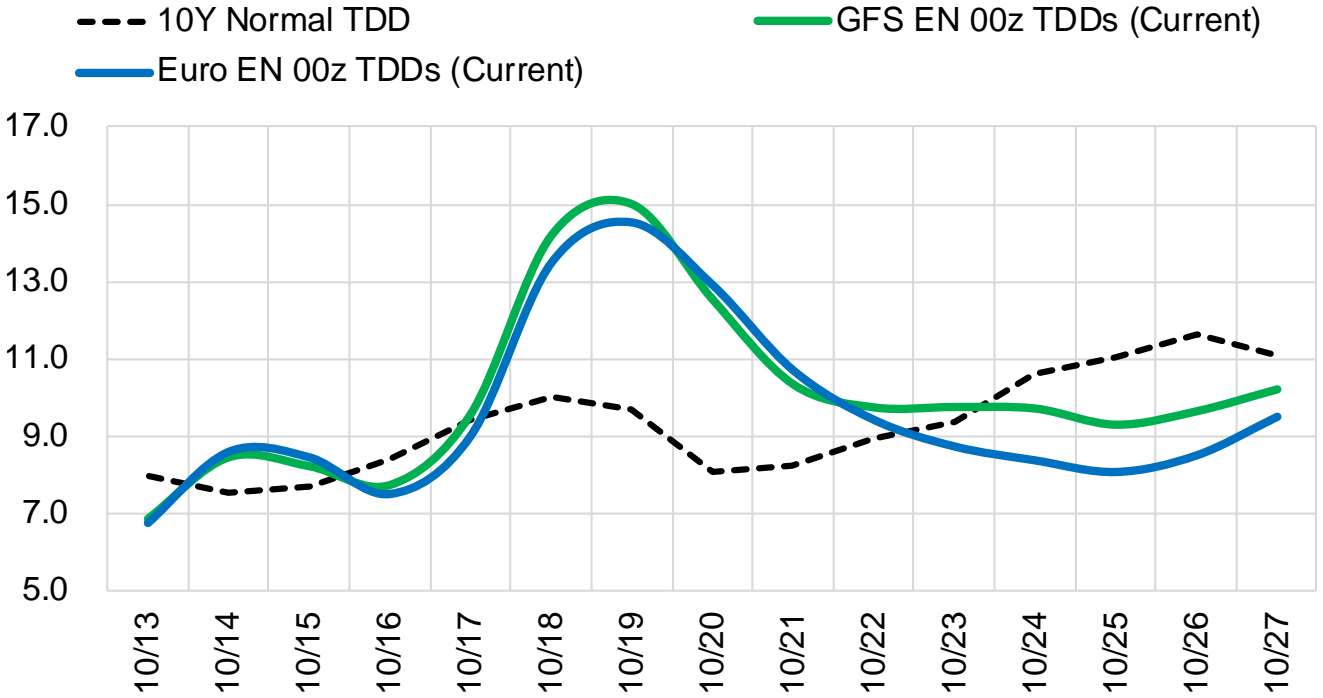
	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.0	▲ 0.14	▲ 0.21

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.4	▼ -0.34	▼ -0.16

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.

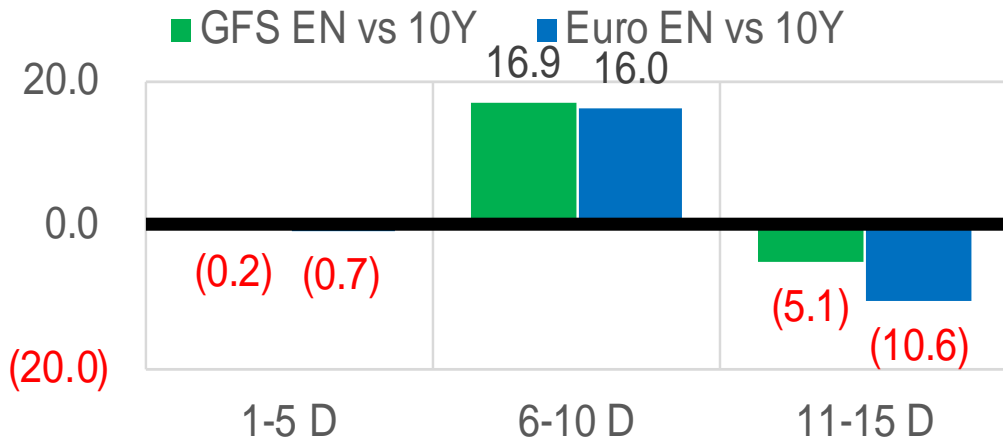
Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal

L48 Region - 00z TDD vs 10Y Normal



Source: WSI, Bloomberg

Lower 48 Component Models

Daily Balances

	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	DoD	vs. 7D
Lower 48 Dry Production	102.3	102.8	102.8	102.6	102.2	101.4	100.1	▼ -1.3	▼ -2.2
Canadian Imports	5.5	5.8	5.8	5.2	5.4	5.5	5.5	▲ 0.0	▲ 0.0
L48 Power	30.7	28.9	29.1	31.4	30.9	32.2	32.4	▲ 0.1	▲ 1.8
L48 Residential & Commercial	15.1	18.7	16.6	14.0	11.7	11.9	14.2	▲ 2.3	▼ -0.4
L48 Industrial	21.4	21.3	21.0	20.9	20.9	20.9	21.6	▲ 0.6	▲ 0.5
L48 Lease and Plant Fuel	5.7	5.7	5.7	5.7	5.7	5.7	5.6	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	2.8	2.9	2.8	2.8	2.6	2.7	2.9	▲ 0.2	▲ 0.1
L48 Regional Gas Consumption	75.8	77.6	75.2	74.8	71.8	73.5	76.6	▲ 3.2	▲ 1.9
Net LNG Delivered	10.94	11.27	11.41	10.51	10.55	10.89	11.03	▲ 0.1	▲ 0.1
Total Mexican Exports	6.6	6.4	6.4	6.7	6.6	6.8	6.4	▼ -0.3	▼ -0.1
Implied Daily Storage Activity	14.5	13.4	15.6	15.8	18.6	15.9	11.6		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	LY 8-Oct	9-Sep	16-Sep	23-Sep	LW 30-Sep	Current 7-Oct	WoW	vs. LY
Lower 48 Dry Production	95.3	100.9	101.0	100.8	101.6	102.3	▲ 0.7	▲ 7.1
Canadian Imports	5.3	5.9	5.6	6.1	6.2	6.0	▼ -0.2	▲ 0.7
L48 Power	32.9	41.1	37.9	37.0	31.5	30.5	▼ -1.0	-2.4
L48 Residential & Commercial	8.2	7.6	8.0	8.2	11.9	13.1	▲ 1.2	4.9
L48 Industrial	23.6	21.4	20.9	21.3	20.1	21.0	▲ 0.9	-2.6
L48 Lease and Plant Fuel	5.3	5.6	5.6	5.6	5.6	5.7	▲ 0.1	0.4
L48 Pipeline Distribution	2.5	3.0	2.8	2.8	2.7	2.7	▲ 0.0	0.1
L48 Regional Gas Consumption	72.6	78.7	75.1	74.9	71.8	72.9	▲ 1.1	▲ 0.3
Net LNG Exports	9.9	11.3	11.3	11.5	11.8	11.0	▼ -0.8	▲ 1.1
Total Mexican Exports	6.5	6.6	6.7	6.6	6.9	6.6	▼ -0.3	▲ 0.1
Implied Daily Storage Activity	11.5	10.2	13.4	13.9	17.2	17.7	0.5	6.2
EIA Reported Daily Storage Activity	11.6	11.0	14.7	14.7	18.4			
Daily Model Error	0.0	-0.8	-1.3	-0.8	-1.2			

Monthly Balances

	2Yr Ago Oct-20	LY Oct-21	Jun-22	Jul-22	Aug-22	Sep-22	MTD Oct-22	MoM	vs. LY
Lower 48 Dry Production	88.5	95.5	97.3	97.7	99.1	101.1	102.4	▲ 1.3	▲ 6.9
Canadian Imports	4.3	5.4	5.7	5.9	5.4	5.9	5.8	▼ -0.2	▲ 0.4
L48 Power	30.6	30.4	38.3	44.3	43.1	36.8	30.6	▼ -6.2	▲ 0.2
L48 Residential & Commercial	15.5	12.6	8.9	8.3	8.0	9.0	13.9	▲ 4.8	▲ 1.3
L48 Industrial	22.7	21.7	19.1	19.8	21.1	21.0	21.1	▲ 0.1	▼ -0.6
L48 Lease and Plant Fuel	4.8	5.3	5.5	5.5	5.5	5.6	5.7	▲ 0.1	▲ 0.4
L48 Pipeline Distribution	2.5	2.7	2.9	3.1	3.0	2.8	2.7	▼ -0.1	▲ 0.1
L48 Regional Gas Consumption	76.1	72.7	74.6	81.0	80.8	75.2	74.0	▼ -1.2	▲ 1.3
Net LNG Exports	8.0	10.6	11.2	10.9	11.0	11.5	10.8	▼ -0.6	▲ 0.3
Total Mexican Exports	6.0	6.6	7.1	7.0	6.9	6.7	6.6	▼ -0.1	▼ 0.0
Implied Daily Storage Activity	2.7	11.0	10.0	4.7	5.8	13.6	16.7		
EIA Reported Daily Storage Activity									
Daily Model Error					0.0				

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	DoD	vs. 7D
NRC Nuclear Daily Output	81.3	80.3	80.4	76.2	75.8	74.8	75.3	0.5	-2.8
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	23.6	24.6	24.5	28.7	29.1	30.0	29.6	-0.5	2.8
NRC % Nuclear Cap Utilization	82.6	81.7	81.7	77.5	77.0	76.1	76.6	0.5	-2.9

Wind Generation Daily Average - MWh (EIA)

	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	DoD	vs. 7D
CALI Wind	913	944	849	726	1027	986	1123	137	215
TEXAS Wind	5625	2846	5814	5767	4410	4567	4567	0	-271
US Wind	18800	26688	28793	26293	27030	30060	54033	23973	27756

Generation Daily Average - MWh (EIA)

	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	DoD	vs. 7D
US Wind	18800	26688	28793	26293	27030	30060	54033	23973	27756
US Solar	15180	15248	13635	13770	14088	13213	11134	-2080	-3055
US Petroleum	765	455	413	502	770	1068	918	-151	256
US Other	10494	10390	10664	10397	10576	10931	10752	-179	177
US Coal	80744	80895	78091	73099	72355	75925	60016	-15909	-16836
US Nuke	82186	81485	76599	72444	71770	71719	68701	-3019	-7333
US Hydro	22518	21243	20399	18302	17900	19441	18778	-662	-1189
US Gas	188968	183170	161941	149469	147950	167821	131942	-35879	-34611

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Storage Week Average Generation Data

Nuclear Generation Weekly Average - GWh (NRC)

	8-Oct	9-Sep	16-Sep	23-Sep	30-Sep	7-Oct	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	82.1	87.5	86.0	86.7	84.9	80.5	-4.4	0.8
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	22.7	17.4	18.9	18.1	20.0	24.4	4.4	
NRC % Nuclear Cap Utilization	83.5	88.9	87.4	88.2	86.4	81.9	-4.5	

Wind Generation Weekly Average - MWh (EIA)

	8-Oct	9-Sep	16-Sep	23-Sep	30-Sep	7-Oct	WoW	WoW Bcf/d Impact
CALI Wind	1099	1285	2033	1941	1208	1370	162	0.0
TEXAS Wind	4890	4092	8875	11580	8083	6160	-1923	0.4
US Wind	20468	27253	37396	47947	40601	32709	-7892	1.5
							-19%	
						-0.2		

Generation Weekly Average - MWh (EIA)

	8-Oct	9-Sep	16-Sep	23-Sep	30-Sep	7-Oct	LY	Current	WoW	WoW Bcf/d Impact
US Wind	20468	27253	37396	47947	40601	32709			-7892	1.5
US Solar	11296	16138	14887	17244	16636	15258			-1378	0.3
US Petroleum	949	1105	1029	1010	379	664			286	-0.1
US Other	10985	9948	10065	10826	11151	10587			-563	0.1
US Coal	100817	105981	91209	92461	77592	75007			-2585	0.5
US Nuke	83696	89638	88711	89298	86649	84503			-2146	0.4
US Hydro	24553	27950	25849	23537	23101	21639			-1461	0.3
US Gas	179856	227619	201189	197536	171818	170991			-827	-0.2

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Monthly Average Generation Data

Nuclear Generation Monthly Average - GWh (NRC)

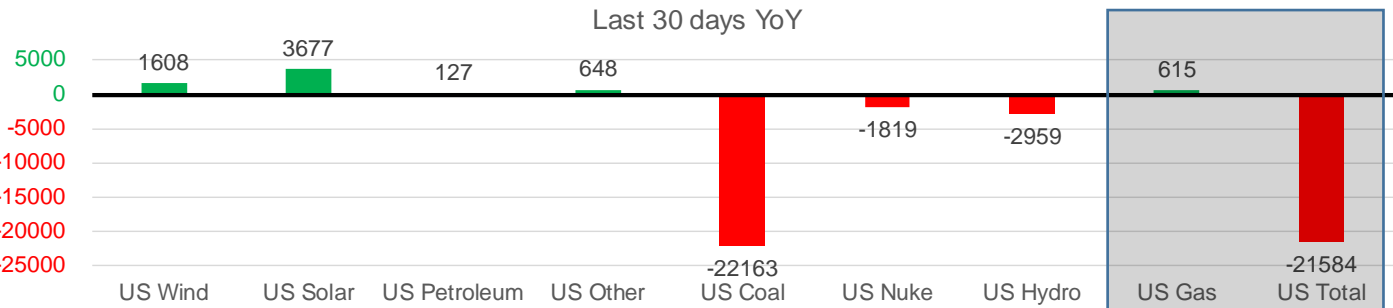
	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	NRC Nuclear Daily Output	83.5	83.0	90.6	90.5	86.2	78.1	82.4	-8.1
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	104.9	0.0	0.0
NRC Nuclear Outage	21.4	21.9	14.3	14.3	18.7	26.8	22.5	8.1	0.6
NRC % Nuclear Cap Utilization	84.9	84.4	92.1	92.1	87.7	79.4	83.8	-8.2	-0.6

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	1504	2045	2719	2028	1608	1161	1464	-447
TEXAS Wind	7429	9875	11765	8440	7993	5335	8032	-2659	-1843
US Wind	35122	39298	39701	33222	38112	35179	40906	-2934	1608

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	35122	39298	39701	33222	38112	35179	40906	▲ 5727.7
US Solar	9109	11899	18599	16965	16179	13815	15577	▲ 1761.6	▲ 3677
US Petroleum	961	598	1252	1253	864	742	725	▼ -16	▲ 127
US Other	8059	10131	10142	10543	10489	10622	10780	▲ 158	▲ 648
US Coal	76709	101051	119788	117200	92002	71543	78888	▲ 7345	▼ -22163
US Nuke	86763	85157	92883	92976	89052	76155	83338	▲ 7183	▼ -1819
US Hydro	25350	24910	34227	30121	25197	19939	21951	▲ 2012	▼ -2959
US Gas	171159	171768	235752	233741	199945	157653	172384	▲ 24170	▲ 615
US Total	411429	444881	551815	535704	470435	385736	423297	▲ 42613	▼ -21584



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Regional S/D Models Storage Projection

Week Ending 7-Oct

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	18.9	0.0	18.8	132
East	0.7	2.4	3.1	22
Midwest	4.8	0.5	5.3	37
Mountain	5.4	-4.3	1.1	8
South Central	7.1	1.7	8.7	61
Pacific	0.9	-0.3	0.5	4

*Adjustment Factor is calculated based on historical regional deltas

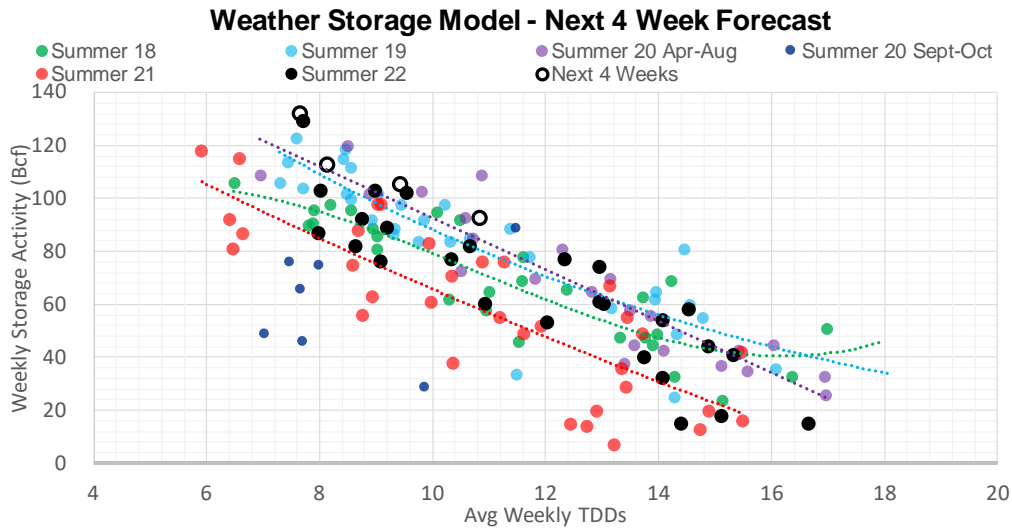
U.S. underground natural gas storage facilities by type (July 2015)



Weather Model Storage Projection

Next report
and beyond

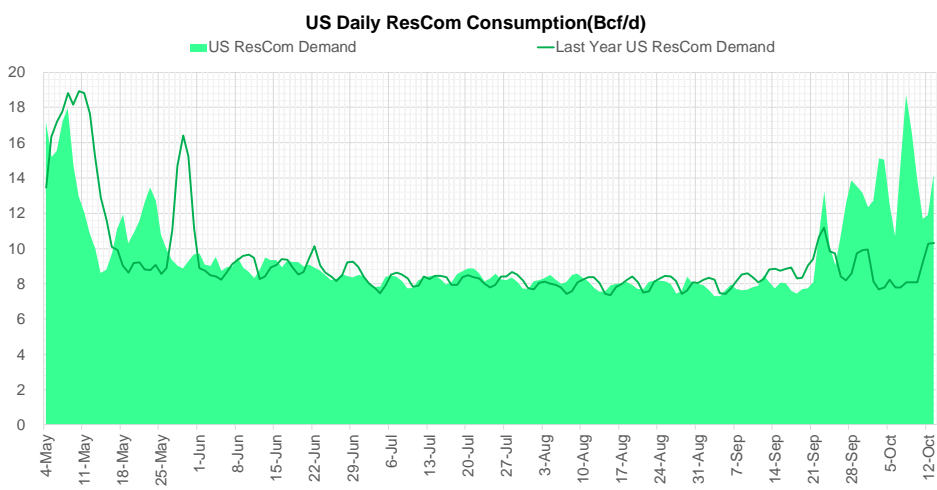
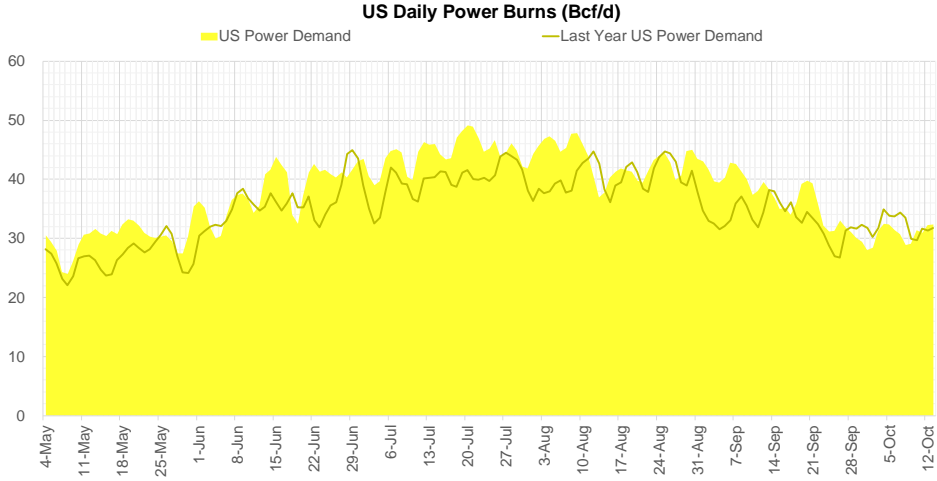
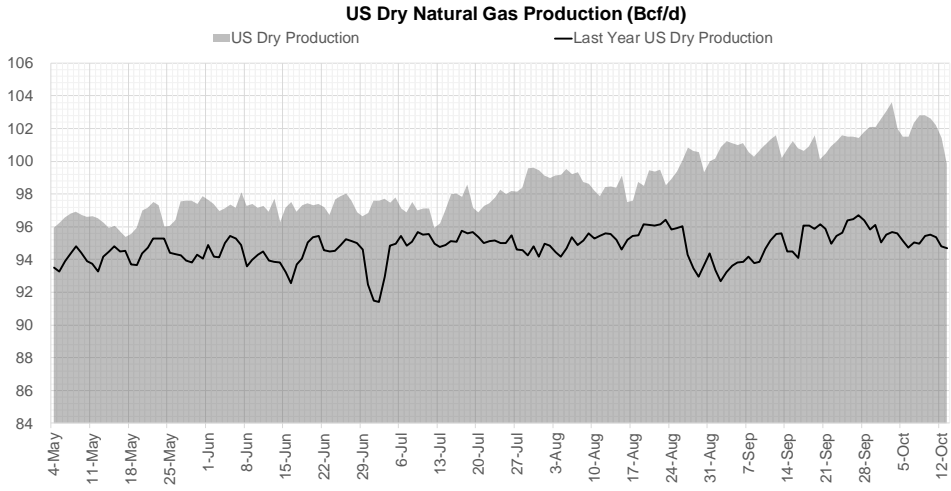
Week Ending	GWDDs	Week Storage Projection
07-Oct	7.7	132
14-Oct	8.1	112
21-Oct	10.9	92
28-Oct	9.4	105



Go to larger image



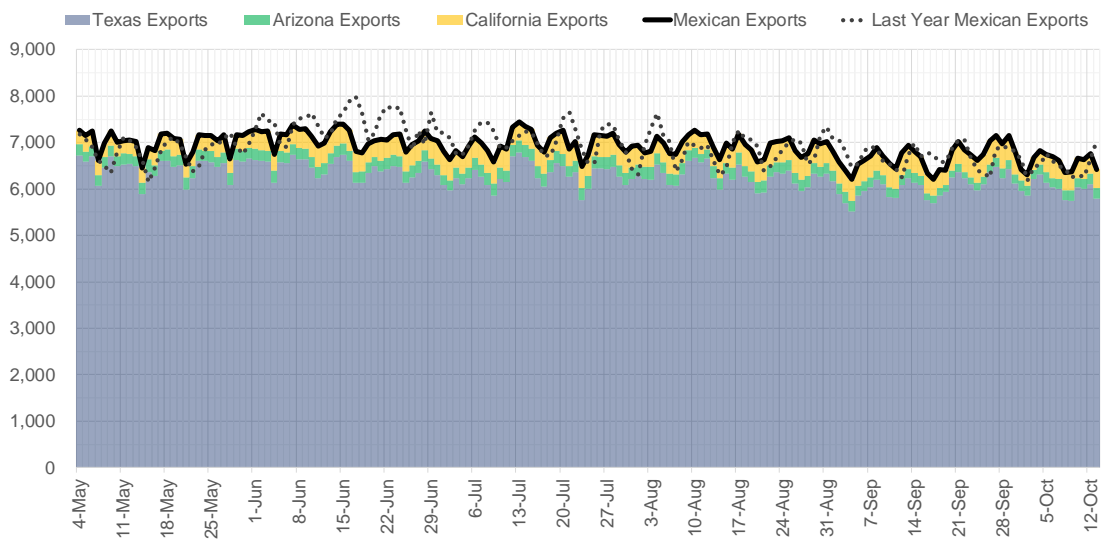
Supply – Demand Trends



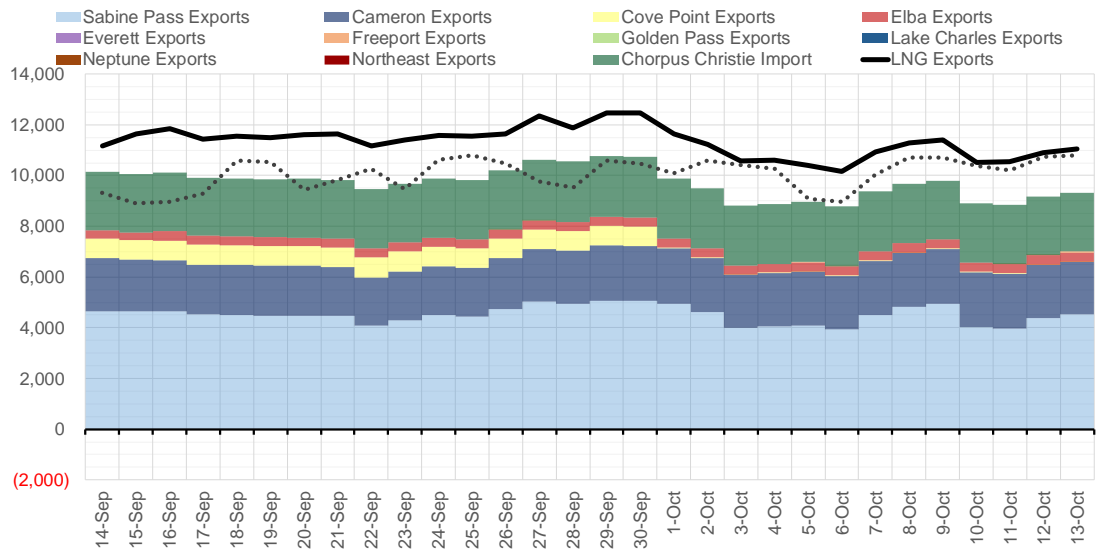
Source: Bloomberg

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

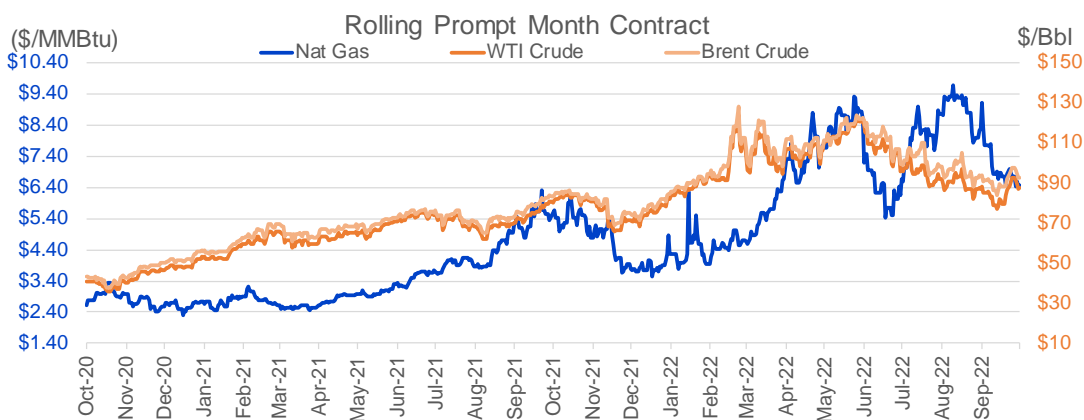
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
11	2022	C	10.00	7449	12	2022	P	4.00	25689
11	2022	C	8.00	4386	12	2022	P	5.00	25554
11	2022	P	5.50	3477	3	2023	C	10.00	24603
11	2022	P	6.00	3409	11	2022	P	4.00	24595
3	2023	C	10.00	3037	12	2022	P	6.00	24517
11	2022	C	8.50	2940	11	2022	P	6.00	24268
11	2022	P	5.75	2625	11	2022	C	10.00	23588
11	2022	P	6.75	2205	5	2023	P	2.00	22787
11	2022	P	6.50	2060	4	2023	P	3.00	21184
1	2023	C	9.00	1727	11	2022	P	5.00	20551
11	2022	C	9.50	1708	10	2023	P	3.00	20454
3	2023	P	4.00	1700	11	2022	C	8.00	20323
11	2022	C	7.50	1413	3	2023	P	4.00	20005
12	2022	P	4.00	1285	11	2022	P	5.50	19926
3	2023	P	3.00	1250	10	2023	P	2.50	19100
11	2022	P	5.00	1225	1	2023	C	10.00	19058
2	2023	C	9.00	1200	3	2023	C	20.00	18980
12	2022	P	5.00	1192	4	2023	P	3.50	18366
2	2023	C	21.00	1146	12	2022	C	5.00	18227
2	2023	C	22.00	1144	3	2023	P	3.00	18211
12	2022	C	7.50	1125	10	2023	P	4.00	17771
4	2023	P	2.00	1075	1	2023	P	4.00	17459
5	2023	P	2.00	1075	11	2022	C	12.00	17423
6	2023	P	2.00	1075	2	2023	C	9.00	17305
7	2023	P	2.00	1075	6	2023	P	3.00	17255
8	2023	P	2.00	1075	2	2023	C	10.00	17090
9	2023	P	2.00	1075	5	2023	P	3.00	17058
10	2023	P	2.00	1075	12	2022	C	10.00	16773
1	2023	P	5.00	1055	5	2023	P	3.50	16690
3	2023	C	12.00	1000	12	2022	P	5.50	16677
4	2023	P	1.75	1000	3	2023	P	2.75	16450
5	2023	P	1.75	1000	11	2022	P	6.50	16318
6	2023	P	1.75	1000	4	2023	P	4.00	16248
7	2023	P	1.75	1000	9	2023	P	4.00	16221
8	2023	P	1.75	1000	12	2022	C	4.00	16195
9	2023	P	1.75	1000	11	2022	C	4.00	15755
10	2023	P	1.75	1000	8	2023	P	3.50	15747
4	2023	C	6.00	950	6	2023	P	3.50	15740
11	2022	C	6.75	935	7	2023	P	3.50	15715
1	2023	C	10.00	926	9	2023	P	3.50	15705
11	2022	C	9.00	925	10	2023	P	3.50	15680
11	2022	C	7.00	878	1	2023	P	5.00	15588
4	2023	P	2.50	825	4	2023	P	2.00	15548
3	2023	C	7.00	805	10	2023	P	2.00	15366
12	2022	C	10.00	804	7	2023	P	3.00	15365
11	2022	P	5.25	760	8	2023	P	3.00	15165
12	2022	P	5.50	753	9	2023	P	3.00	15165
11	2022	P	7.25	750	7	2023	P	4.00	15159
4	2023	P	2.75	700	12	2022	P	7.00	15070
					5	2023	P	4	14843

Source: CME, ICE

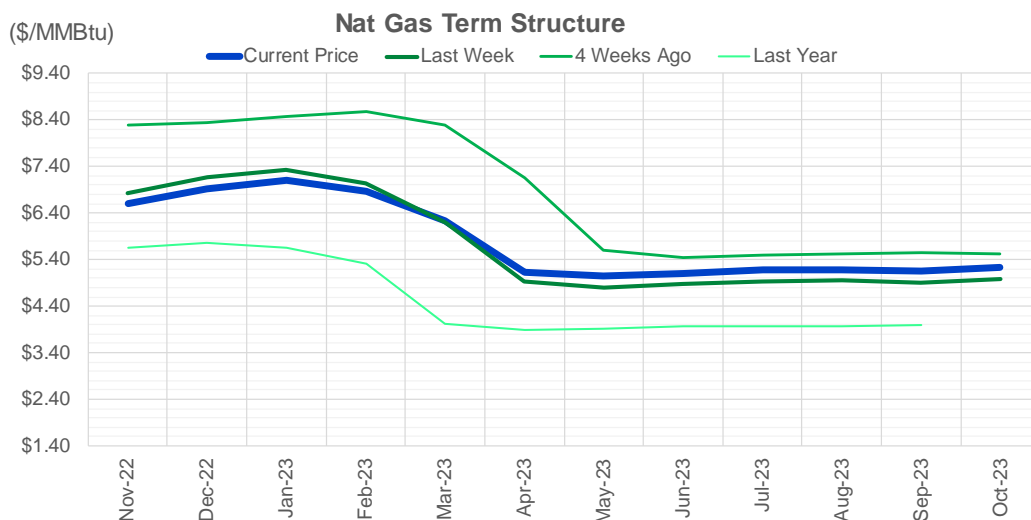
Nat Gas Futures Open Interest CME and ICE Combined

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	106072	119903	-13831	NOV 22	66923	66213	710
DEC 22	76576	74009	2567	DEC 22	76433	76098	335
JAN 23	112187	105313	6874	JAN 23	72714	71764	950
FEB 23	51044	50159	885	FEB 23	65868	65494	374
MAR 23	85653	82549	3104	MAR 23	58528	57862	666
APR 23	76907	77159	-252	APR 23	54910	55277	-367
MAY 23	83153	83071	82	MAY 23	55756	55186	570
JUN 23	24420	24389	31	JUN 23	46600	46417	184
JUL 23	28994	28495	499	JUL 23	46523	46436	87
AUG 23	20953	20738	215	AUG 23	44922	44740	183
SEP 23	27245	26278	967	SEP 23	42160	42073	87
OCT 23	53894	55667	-1773	OCT 23	55614	55534	79
NOV 23	22341	22109	232	NOV 23	47341	47341	0
DEC 23	22155	20963	1192	DEC 23	39955	39851	104
JAN 24	34119	32844	1275	JAN 24	44422	44067	355
FEB 24	9660	9319	341	FEB 24	30958	30840	118
MAR 24	19643	19560	83	MAR 24	35629	35819	-190
APR 24	18122	18348	-226	APR 24	29867	29850	17
MAY 24	8282	8296	-14	MAY 24	28306	28279	27
JUN 24	3071	3023	48	JUN 24	25688	25663	25
JUL 24	3991	3995	-4	JUL 24	25247	25188	60
AUG 24	3833	3817	16	AUG 24	25010	24935	75
SEP 24	2460	2450	10	SEP 24	24663	24642	21
OCT 24	8817	8790	27	OCT 24	28785	28986	-201
NOV 24	4916	4955	-39	NOV 24	26144	26032	112
DEC 24	8273	8223	50	DEC 24	30080	29981	99
JAN 25	17447	17450	-3	JAN 25	23251	23333	-82
FEB 25	1684	1656	28	FEB 25	15702	15789	-87
MAR 25	5316	5194	122	MAR 25	17974	18015	-41
APR 25	5245	5226	19	APR 25	16217	16295	-79

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.

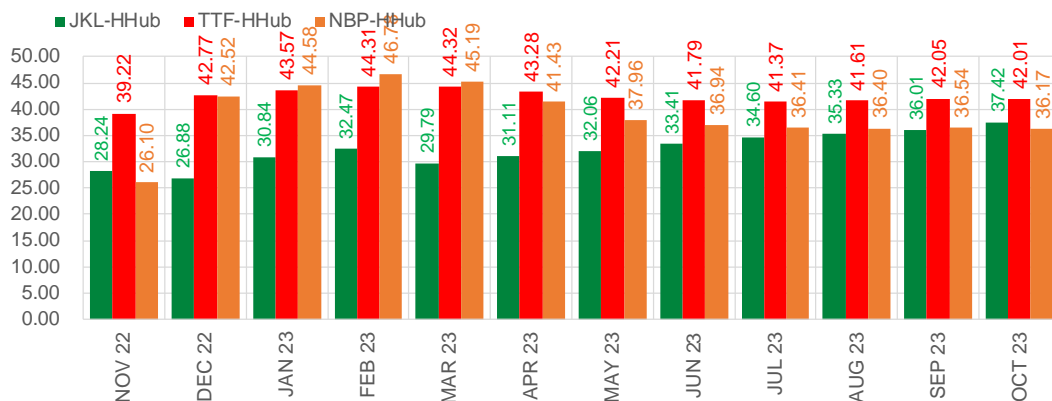
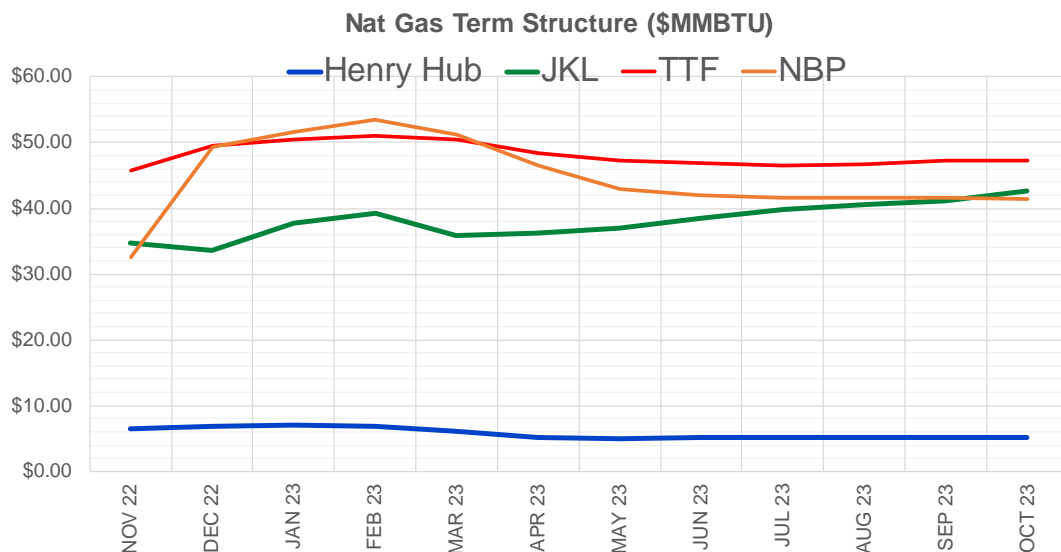


	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
Current Price	\$6.596	\$6.928	\$7.114	\$6.876	\$6.239	\$5.136	\$5.040	\$5.109	\$5.179	\$5.184	\$5.149	\$5.221
Last Week	\$6.837	\$7.174	\$7.320	\$7.030	\$6.200	\$4.921	\$4.801	\$4.870	\$4.940	\$4.948	\$4.916	\$4.989
vs. Last Week	-\$0.241	-\$0.246	-\$0.206	-\$0.154	\$0.039	\$0.215	\$0.239	\$0.239	\$0.239	\$0.236	\$0.233	\$0.232
4 Weeks Ago	\$8.284	\$8.334	\$8.477	\$8.573	\$8.277	\$7.162	\$5.594	\$5.438	\$5.485	\$5.535	\$5.545	\$5.525
vs. 4 Weeks Ago	-\$1.688	-\$1.406	-\$1.363	-\$1.697	-\$2.038	-\$2.026	-\$0.554	-\$0.329	-\$0.306	-\$0.351	-\$0.396	-\$0.304
Last Year	\$5.505	\$5.663	\$5.761	\$5.656	\$5.324	\$4.015	\$3.891	\$3.925	\$3.965	\$3.972	\$3.955	\$3.986
vs. Last Year	\$1.091	\$1.265	\$1.353	\$1.220	\$0.915	\$1.121	\$1.149	\$1.184	\$1.214	\$1.212	\$1.194	\$1.235

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	6.20	11.10	4.90
TETCO M3	\$/MMBtu	5.34	6.52	1.18
FGT Zone 3	\$/MMBtu	5.36	7.10	1.74
Zone 6 NY	\$/MMBtu	5.36	6.58	1.22
Chicago Citygate	\$/MMBtu	5.80	6.54	0.74
Michcon	\$/MMBtu	5.72	6.37	0.65
Columbia TCO Pool	\$/MMBtu	5.33	6.07	0.74
Ventura	\$/MMBtu	5.74	6.59	0.85
Rockies/Opal	\$/MMBtu	5.68	6.19	0.51
El Paso Permian Basin	\$/MMBtu	3.70	3.77	0.07
Socal Citygate	\$/MMBtu	8.07	6.80	-1.27
Malin	\$/MMBtu	5.61	6.57	0.96
Houston Ship Channel	\$/MMBtu	5.66	6.24	0.58
Henry Hub Cash	\$/MMBtu	6.60	6.21	-0.39
AECO Cash	C\$/GJ	1.11	4.52	3.41
Station2 Cash	C\$/GJ	-0.04	7.13	7.17
Dawn Cash	C\$/GJ	5.78	6.48	0.70

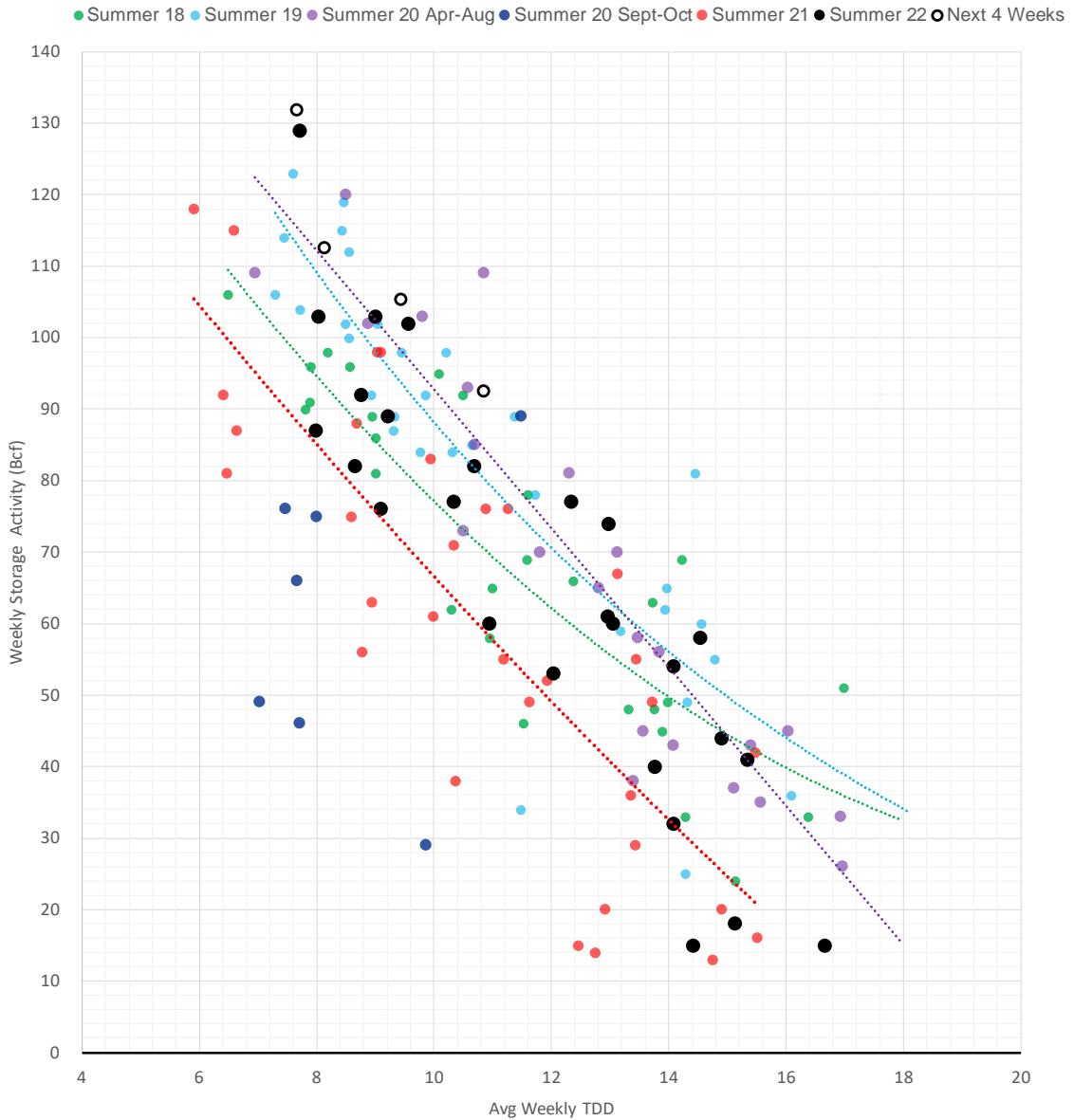
Source: CME, Bloomberg

	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	▲ 0.612
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -1.830
NatGas Apr22/Oct22	\$/MMBtu	1.532	▲ 0.000	▼ -2.246	▲ 1.558
WTI Crude	\$/Bbl	87.27	▼ -0.490	▼ -1.210	▲ 6.830
Brent Crude	\$/Bbl	92.45	▼ -0.920	▼ -1.650	▲ 9.270
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	393.28	▲ 24.590	▲ 55.390	▲ 141.170
Propane, Mt. Bel	cents/Gallon	0.86	▼ -0.049	▼ -0.200	▼ -0.584
Ethane, Mt. Bel	cents/Gallon	0.43	▲ 0.015	▼ -0.101	▼ -0.013
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			

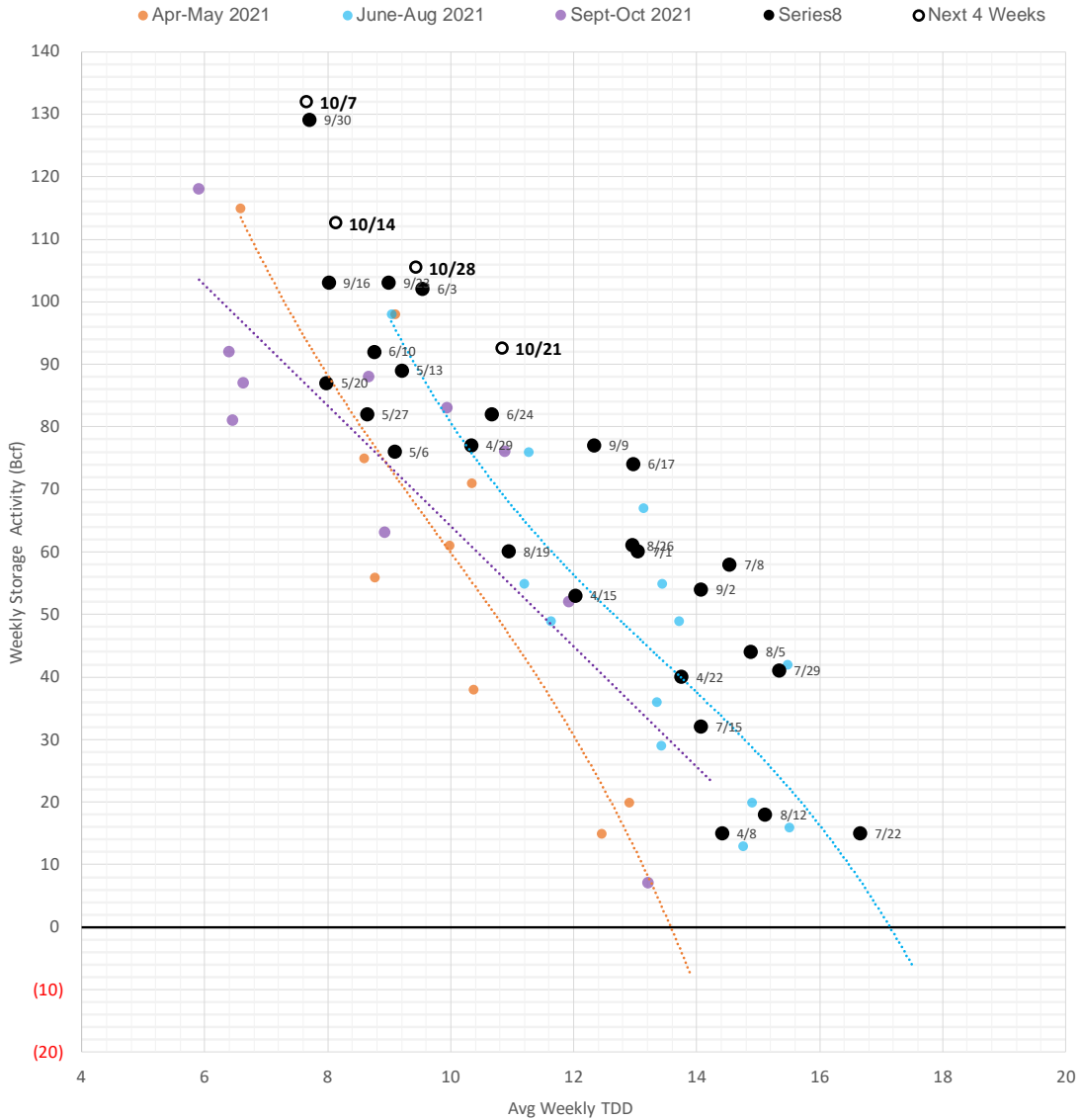


	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23
Henry Hub	\$6.468	\$6.798	\$6.982	\$6.742	\$6.119	\$5.111	\$5.018	\$5.100	\$5.176	\$5.175	\$5.149	\$5.210
JKL	\$34.705	\$33.680	\$37.825	\$39.215	\$35.905	\$36.220	\$37.075	\$38.505	\$39.775	\$40.500	\$41.160	\$42.630
JKL-HHub	\$28.237	\$26.882	\$30.843	\$32.473	\$29.786	\$31.109	\$32.057	\$33.405	\$34.599	\$35.325	\$36.011	\$37.420
TTF	\$45.689	\$49.569	\$50.553	\$51.051	\$50.437	\$48.390	\$47.229	\$46.886	\$46.547	\$46.782	\$47.202	\$47.216
TTF-HHub	\$39.221	\$42.771	\$43.571	\$44.309	\$44.318	\$43.279	\$42.211	\$41.786	\$41.371	\$41.607	\$42.053	\$42.006
NBP	\$32.569	\$49.316	\$51.563	\$53.521	\$51.310	\$46.536	\$42.980	\$42.043	\$41.581	\$41.574	\$41.685	\$41.380
NBP-HHub	\$26.101	\$42.518	\$44.581	\$46.779	\$45.191	\$41.425	\$37.962	\$36.943	\$36.405	\$36.399	\$36.536	\$36.170

Weather Storage Model - Next 4 Week Forecast



Weather Storage Model - Next 4 Week Forecast



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.

