

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 9.04	▼ \$ (0.15)	▲ \$ 0.07

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 88.95	▼ \$ (1.55)	▼ \$ (1.2)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 94.65	▼ \$ (1.94)	▼ \$ (1.4)

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[Weather Model Storage Projection](#)

[Supply – Demand Trends](#)

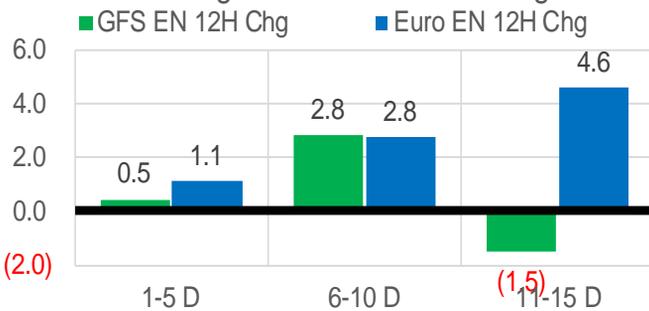
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

[Price Summary](#)

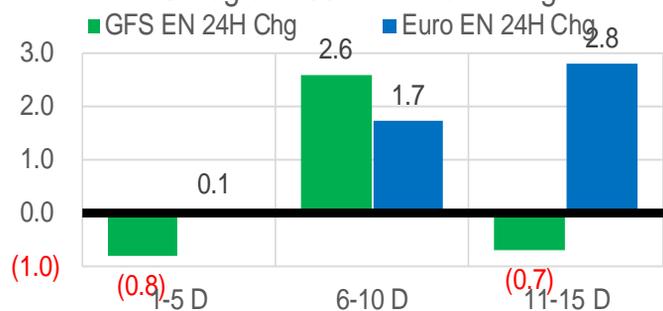
Vs. 12H Ago

L48 Region - 00z TDD vs 12H Ago



Vs. 24H Ago

L48 Region - 00z TDD vs 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	98.8	▲ 0.36	▲ 0.54

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	40.2	▼ -0.49	▲ 0.61

	Current	Δ from YD	Δ from 7D Avg
US ResComm	8.1	▼ -0.07	▲ 0.21

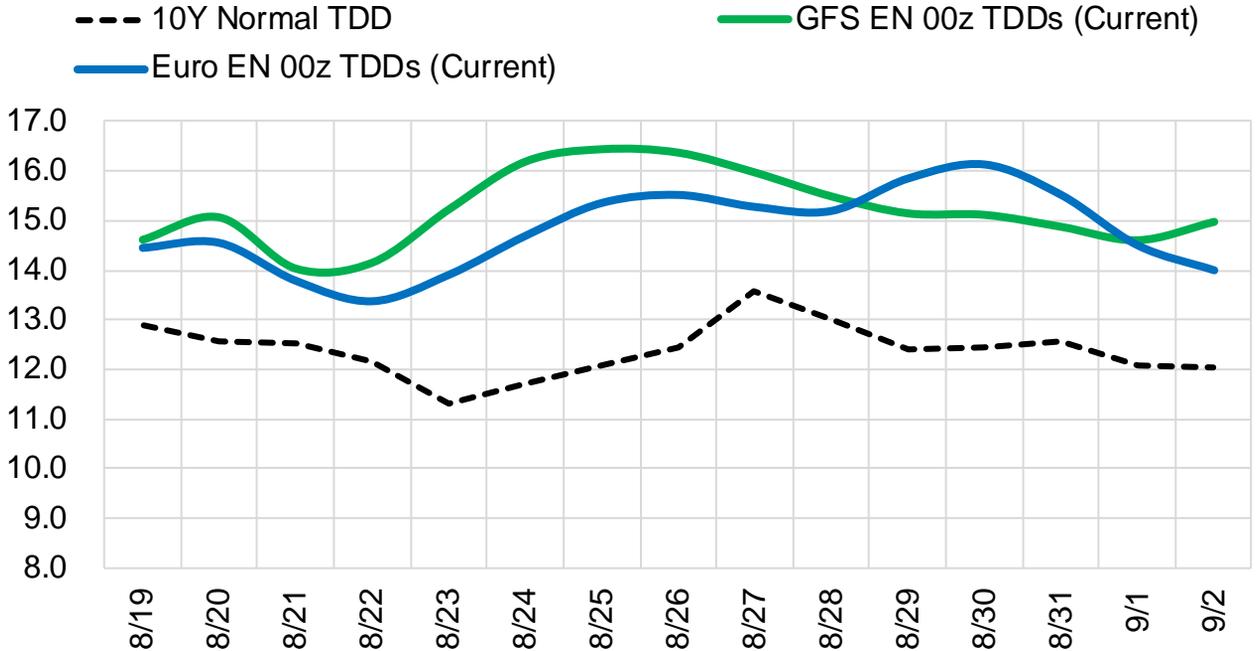
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.5	▲ 0.23	▲ 0.71

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.2	▼ -0.07	▲ 0.24

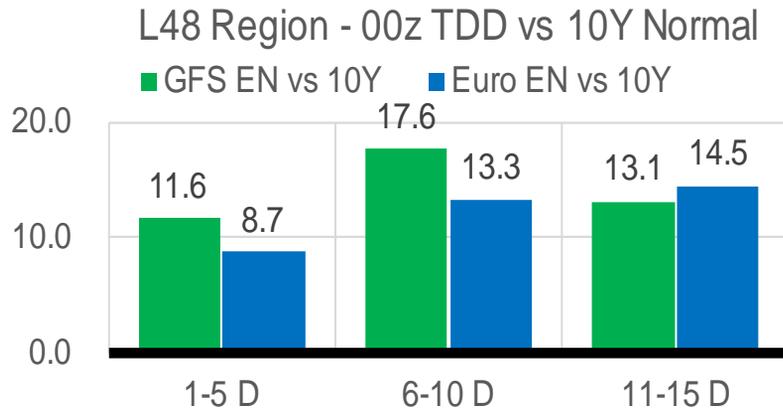
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	7.0	▼ -0.04	▲ 0.04

Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal



Source: WSI , Bloomberg

Lower 48 Component Models

Daily Balances

	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	DoD	vs. 7D
Lower 48 Dry Production	98.7	98.6	98.8	97.2	97.3	98.4	98.8	▲ 0.4	▲ 0.6
Canadian Imports	4.5	4.6	4.7	4.8	4.9	5.3	5.5	▲ 0.2	▲ 0.7
L48 Power	37.1	37.6	40.1	40.8	40.9	40.7	40.2	▼ -0.5	▲ 0.7
L48 Residential & Commercial	7.6	7.6	8.0	8.1	8.1	8.2	8.1	▼ -0.1	▲ 0.2
L48 Industrial	21.5	21.3	21.3	21.5	21.9	22.2	22.6	▲ 0.3	▲ 0.9
L48 Lease and Plant Fuel	5.4	5.4	5.4	5.3	5.3	5.3	5.3	▼ 0.0	▲ 0.0
L48 Pipeline Distribution	2.4	2.4	2.6	2.6	2.6	2.6	2.6	▼ 0.0	▲ 0.0
L48 Regional Gas Consumption	73.9	74.3	77.3	78.3	78.8	79.1	78.8	▼ -0.3	▲ 1.9
Net LNG Delivered	11.28	10.60	10.79	10.70	10.72	11.24	11.17	▼ -0.1	▲ 0.3
Total Mexican Exports	6.9	6.7	6.8	6.9	7.2	7.0	7.0	▼ 0.0	▲ 0.1
Implied Daily Storage Activity	11.2	11.6	8.6	6.2	5.5	6.3	7.3		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	WoW	vs. 4W
Lower 48 Dry Production	96.5	97.4	97.7	99.1	98.9	98.3	▼ -0.6	▲ 0.0
Canadian Imports	6.0	6.2	5.9	5.7	5.4	4.8	▼ -0.6	▼ -1.0
L48 Power	42.9	45.5	44.8	44.4	45.7	39.6	▼ -6.1	▼ -5.5
L48 Residential & Commercial	8.4	8.7	8.6	8.3	8.4	7.9	▼ -0.5	▼ -0.6
L48 Industrial	20.5	21.0	19.4	20.6	21.8	21.6	▼ -0.1	▲ 0.9
L48 Lease and Plant Fuel	5.2	5.3	5.3	5.4	5.4	5.3	▼ 0.0	▲ 0.0
L48 Pipeline Distribution	2.7	2.9	2.8	2.8	2.9	2.5	▼ -0.3	▼ -0.3
L48 Regional Gas Consumption	79.7	83.3	80.9	81.5	84.1	77.1	▼ -7.1	▼ -5.4
Net LNG Exports	11.1	10.8	10.7	10.9	10.9	10.9	▲ 0.1	▲ 0.1
Total Mexican Exports	7.0	7.1	6.9	6.9	7.0	6.9	▼ -0.1	▼ 0.0
Implied Daily Storage Activity	4.7	2.3	5.1	5.4	2.2	8.1	5.9	
EIA Reported Daily Storage Activity	4.6	2.1	5.9	6.3	2.6			
Daily Model Error	0.2	0.2	-0.8	-0.9	-0.3			

Monthly Balances

	2Yr Ago Aug-20	LY Aug-21	Apr-22	May-22	Jun-22	Jul-22	MTD Aug-22	MoM	vs. LY
Lower 48 Dry Production	88.9	93.9	95.1	96.0	97.1	97.4	98.6	▲ 1.2	▲ 4.7
Canadian Imports	4.9	5.1	5.8	5.1	5.7	5.9	5.2	▼ -0.7	▲ 0.1
L48 Power	41.0	40.4	25.1	29.7	36.8	43.4	43.4	▼ -0.1	▲ 3.0
L48 Residential & Commercial	7.7	7.9	22.3	12.4	9.0	8.5	8.2	▼ -0.2	▲ 0.3
L48 Industrial	20.8	21.0	20.1	19.8	20.6	20.3	21.5	▲ 1.3	▲ 0.5
L48 Lease and Plant Fuel	4.8	5.1	5.2	5.3	5.2	5.3	5.4	▲ 0.1	▲ 0.3
L48 Pipeline Distribution	2.5	2.6	2.6	2.4	2.5	2.8	2.7	▼ 0.0	▲ 0.2
L48 Regional Gas Consumption	76.9	77.0	75.3	69.6	74.2	80.2	81.2	▲ 1.0	▲ 4.2
Net LNG Exports	4.0	10.5	12.3	12.5	11.2	10.9	10.9	▼ 0.0	▲ 0.4
Total Mexican Exports	6.0	6.9	6.7	7.0	7.1	7.0	7.0	▼ 0.0	▲ 0.1
Implied Daily Storage Activity	6.8	4.7	6.6	12.0	10.3	5.2	4.8		
EIA Reported Daily Storage Activity									
Daily Model Error									

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	DoD	vs. 7D
NRC Nuclear Daily Output	91.9	92.0	92.0	91.0	90.7	90.9	90.7	-0.2	-0.7
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	12.9	12.8	12.8	13.8	14.2	14.0	14.2	0.2	0.7
NRC % Nuclear Cap Utilization	93.5	93.6	93.6	92.6	92.2	92.4	92.2	-0.2	-0.7

Wind Generation Daily Average - MWh (EIA)

	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	DoD	vs. 7D
CALI Wind	1863	2434	2134	2125	1474	841	1732	890	-80
TEXAS Wind	3873	4924	4526	7893	12098	7709	7381	-328	544
US Wind	26047	33941	34007	27243	33236	26778	19966	-6813	-10243

Generation Daily Average - MWh (EIA)

	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	DoD	vs. 7D
US Wind	26047	33941	34007	27243	33236	26778	19966	-6813	-10243
US Solar	16426	16007	16901	16940	16558	15290	16508	1218	155
US Petroleum	1185	1065	1045	1012	1012	1129	1014	-115	-61
US Other	10272	9791	9321	9132	9823	9708	9614	-94	-60
US Coal	112265	111428	106951	107371	111496	111831	116484	4653	6260
US Nuke	94489	94779	94801	93852	93586	93630	93674	45	-515
US Hydro	29663	27973	25813	25392	30895	30972	32238	1267	3787
US Gas	247681	225198	196580	193470	217058	226941	229869	2928	12047

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Storage Week Average Generation Data

Nuclear Generation Weekly Average - GWh (NRC)

	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	91.2	90.5	90.1	90.6	90.7	91.2	0.5	-0.1
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	13.7	14.4	14.8	14.3	14.1	13.7	-0.5	
NRC % Nuclear Cap Utilization	92.7	92.0	91.6	92.1	92.3	92.8	0.5	

Wind Generation Weekly Average - MWh (EIA)

	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	WoW	WoW Bcf/d Impact
CALI Wind	2268	2470	3049	1933	1901	1782	-119	0.0
TEXAS Wind	7264	11182	14533	14443	8762	7416	-1345	0.2
US Wind	34828	40504	44003	43887	32796	27877	-4919	0.9
							-15%	
							-0.2	

Generation Weekly Average - MWh (EIA)

	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	WoW	WoW Bcf/d Impact
							est.	
US Wind	34828	40504	44003	43887	32796	27877	-4919	0.9
US Solar	18462	18727	18097	17577	17531	16388	-1143	0.2
US Petroleum	1015	1707	1465	1131	1737	1042	-696	0.1
US Other	9191	10492	10690	10470	10724	9572	-1152	0.2
US Coal	115849	121563	128742	122297	121630	111721	-9910	1.8
US Nuke	93487	92543	92281	92607	92966	93999	1034	-0.2
US Hydro	36439	33645	32210	31339	29842	29360	-482	0.1
US Gas	237759	249149	238167	236187	252217	216998	-35219	-6.3

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	May-22	Jun-22	Jul-22	Aug-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY	
NRC Nuclear Daily Output	90.6	90.9	81.7	88.5	90.6	90.9	90.6	0.3	-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	14.3	14.0	23.2	16.3	14.3	14.0	14.2	-0.3	0.3	
NRC % Nuclear Cap Utilization	92.1	92.4	83.0	90.0	92.1	92.4	92.2	0.3	-0.3	

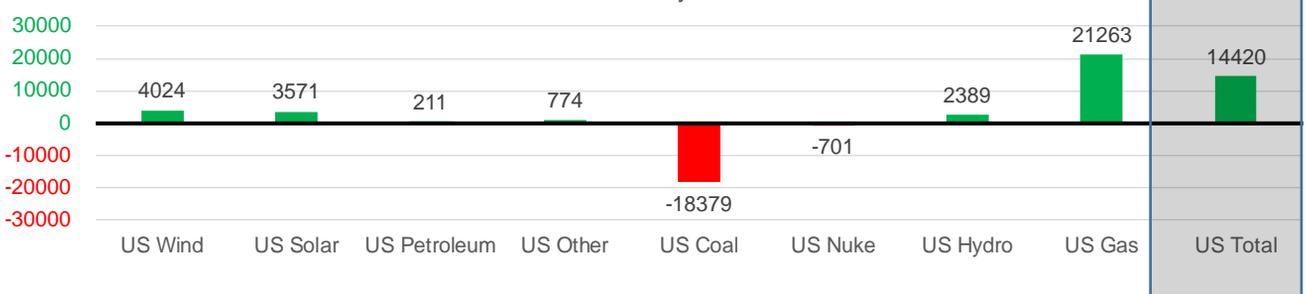
Wind Generation Monthly Average - MWh (EIA)

	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	
CALI Wind	2340	2459	3361	2875	2719	1890	2215	-830	-244	
TEXAS Wind	8500	8952	16756	13441	11765	9752	11159	-2014	2207	
US Wind	29201	32714	56649	47161	39701	34292	36738	-5409	4024	

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	29201	32714	56649	47161	39701	34292	36738	▲ 2446.3	▲ 4024	
US Solar	11468	13824	18211	19386	18593	17059	17395	▲ 336.3	▲ 3571	
US Petroleum	1432	1187	518	998	1252	1354	1399	▲ 45	▲ 211	
US Other	9928	9607	7724	8530	9961	10216	10382	▲ 166	▲ 774	
US Coal	121946	139798	85695	105075	119788	118777	121420	▲ 2642	▼ -18379	
US Nuke	92794	93640	85496	89904	92883	93296	92939	▼ -357	▼ -701	
US Hydro	29887	28469	31811	37521	34185	30170	30858	▲ 688	▲ 2389	
US Gas	227521	215430	199821	199821	235787	236158	236693	▲ 5966	▲ 21263	
US Total	521879	534434	443969	507971	551806	543049	548855	▲ 9486	▲ 14420	

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

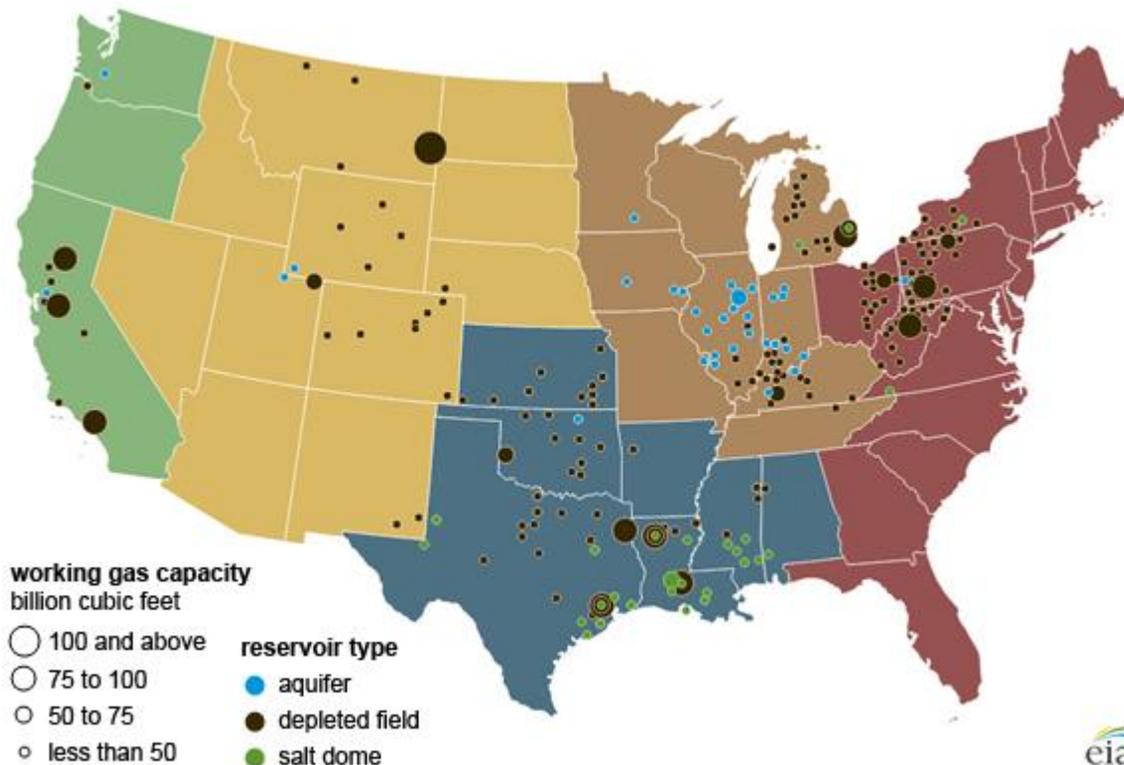
Regional S/D Models Storage Projection

Week Ending 19-Aug

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	8.4	-0.1	8.3	58
East	1.3	2.1	3.3	23
Midwest	5.0	-0.8	4.2	29
Mountain	4.6	-4.1	0.5	3
South Central	-2.3	3.2	0.9	6
Pacific	-0.1	-0.5	-0.6	-4

*Adjustment Factor is calculated based on historical regional deltas

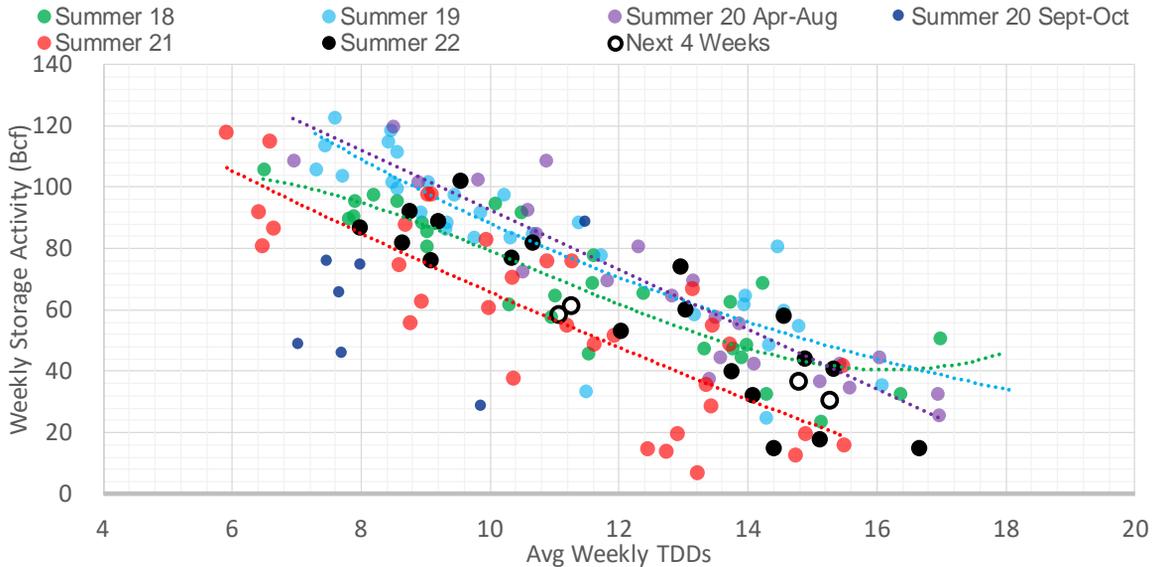
U.S. underground natural gas storage facilities by type (July 2015)



Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
19-Aug	11.1	58
26-Aug	14.8	37
02-Sep	15.3	30
09-Sep	11.3	61

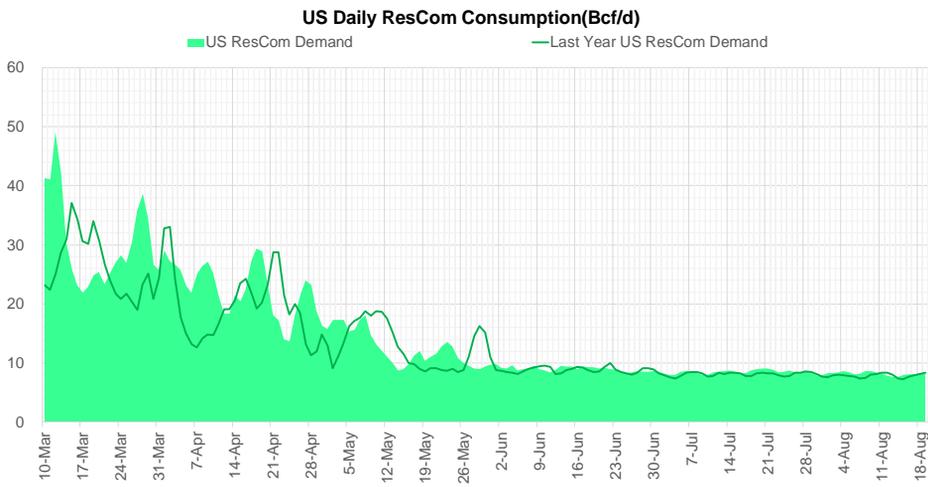
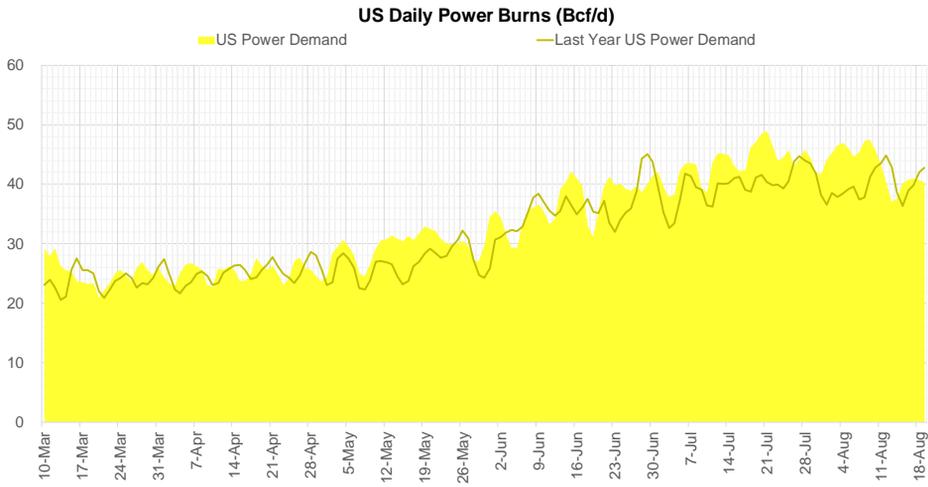
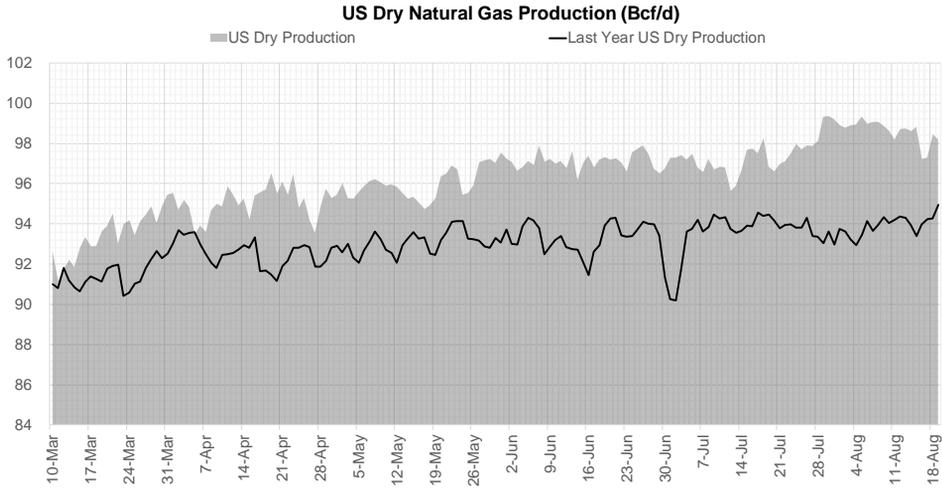
Weather Storage Model - Next 4 Week Forecast



Go to larger image



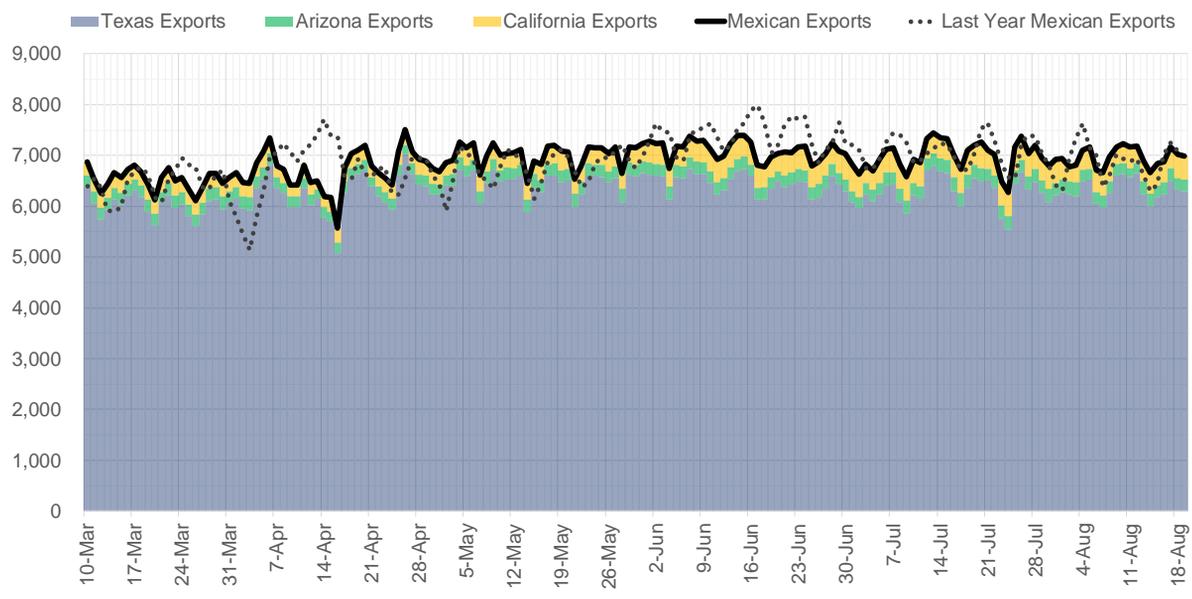
Supply – Demand Trends



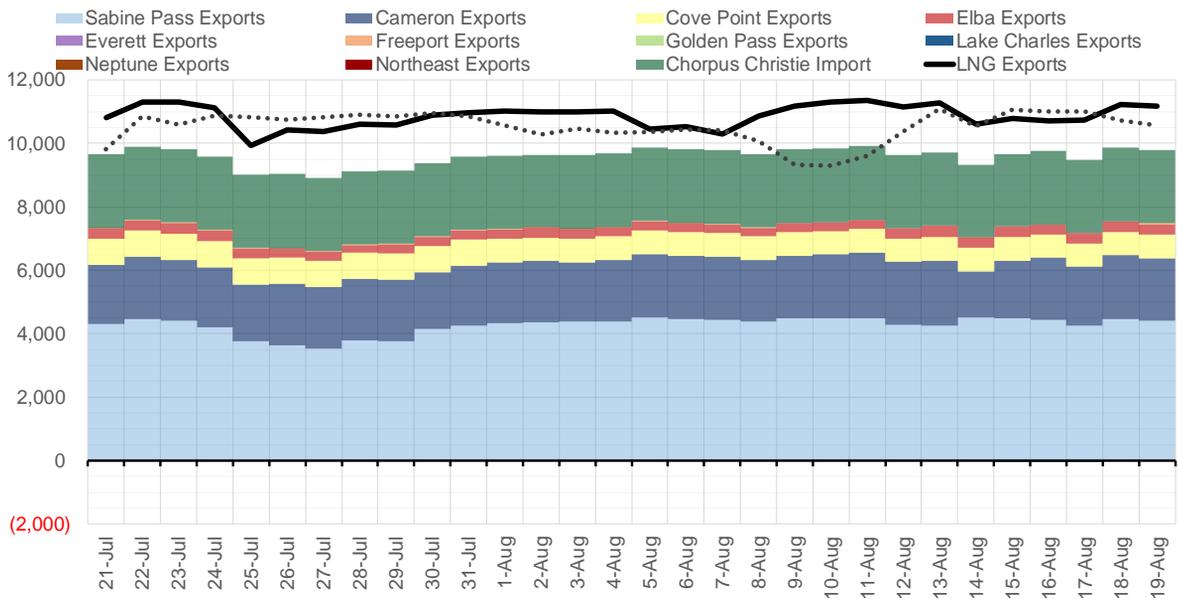
Source: Bloomberg

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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

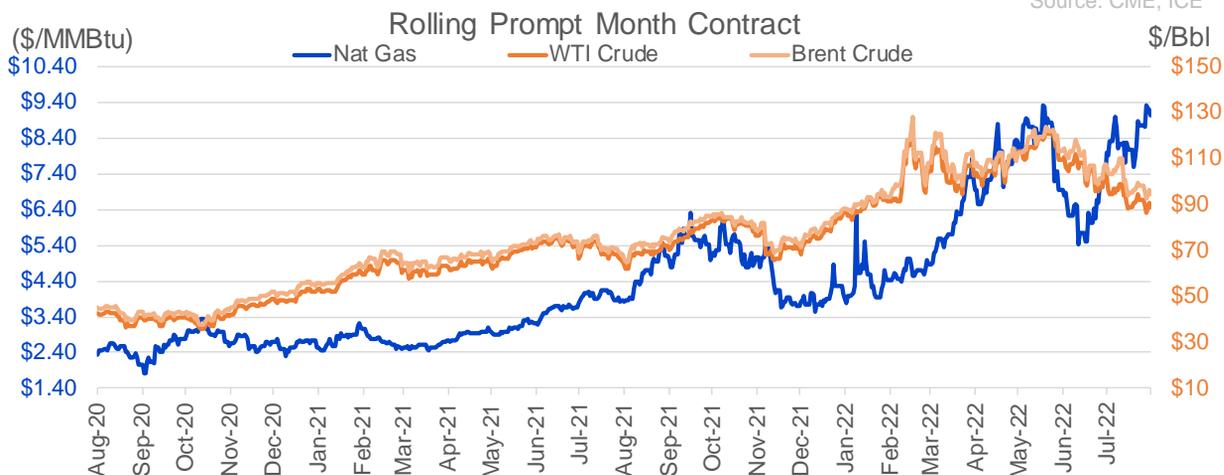
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
9	2022	C	10.00	7145	10	2022	P	3.00	36640
9	2022	C	9.50	5487	10	2022	C	6.00	36016
9	2022	C	9.00	4877	10	2022	P	6.00	31589
9	2022	P	8.00	4662	10	2022	P	5.00	28933
9	2022	P	9.00	3706	10	2022	P	2.50	28113
9	2022	C	11.00	3604	9	2022	C	6.00	24369
9	2022	C	9.25	3371	10	2022	C	5.00	23268
9	2022	P	8.50	3186	3	2023	C	10.00	22460
10	2022	P	8.00	3146	10	2022	P	3.50	22246
9	2022	C	12.00	2536	10	2022	C	12.00	22239
10	2022	C	10.50	2347	10	2022	C	10.00	22052
10	2022	C	14.00	2342	10	2022	P	4.00	21127
4	2023	P	3.00	2010	5	2023	P	2.00	20997
5	2023	P	3.00	2010	9	2022	P	4.00	20463
6	2023	P	3.00	2010	9	2022	P	6.00	20394
7	2023	P	3.00	1975	11	2022	P	4.00	19971
8	2023	P	3.00	1975	9	2022	C	7.00	19552
9	2023	P	3.00	1975	9	2022	C	10.00	19212
10	2023	P	3.00	1975	12	2022	P	5.00	19173
10	2022	C	9.00	1856	10	2023	P	2.50	18525
10	2022	P	5.00	1807	12	2022	C	5.00	18218
9	2022	P	8.25	1680	3	2023	P	3.00	18051
10	2022	C	12.00	1588	2	2023	C	10.00	17369
9	2022	P	7.50	1571	10	2022	C	8.00	17195
9	2022	C	11.50	1523	1	2023	C	10.00	16813
10	2022	C	10.00	1515	10	2022	P	2.00	16759
10	2022	P	4.00	1502	9	2022	P	3.00	16612
10	2022	P	6.00	1371	9	2022	C	9.00	16265
1	2023	C	10.00	1323	4	2023	P	3.00	16109
10	2022	C	11.00	1292	3	2023	C	20.00	16059
10	2022	P	6.25	1282	9	2022	C	4.00	15969
6	2023	P	4.50	1250	9	2022	C	12.00	15896
12	2022	P	6.50	1138	10	2022	P	5.50	15826
10	2022	P	5.50	1070	9	2022	P	2.50	15478
11	2022	C	15.00	1016	10	2022	P	3.25	15350
12	2022	P	5.50	1002	10	2023	P	2.00	15280
9	2022	C	11.10	1000	9	2022	P	7.00	15252
10	2022	C	10.60	1000	10	2022	C	7.00	15069
10	2022	P	5.40	1000	2	2023	C	9.00	14988
6	2023	C	7.00	1000	9	2022	P	2.75	14887
9	2022	C	10.50	986	10	2023	P	3.00	14808
11	2022	C	11.00	972	9	2022	P	5.00	14472
10	2022	P	7.00	966	9	2022	P	6.50	14417
12	2022	P	7.00	900	4	2023	P	2.75	14370
2	2023	C	10.00	884	11	2022	C	8.00	14290
9	2022	C	12.50	827	9	2022	P	3.50	14015
10	2022	P	7.25	801	12	2022	C	6.00	13987
9	2022	P	9.25	781	11	2022	C	10.00	13795
12	2022	C	11.00	740	10	2022	C	9.00	13671
					12	2022	C	10	13310

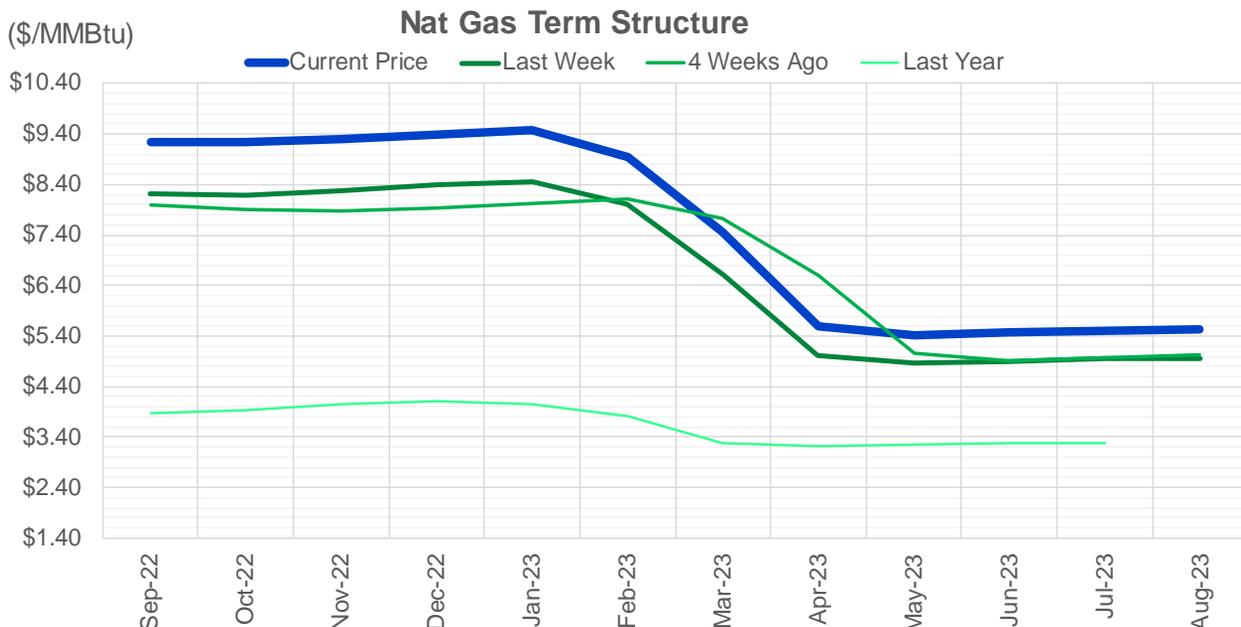
Source: CME, ICE

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
SEP 22	44943	52858	-7915	SEP 22	78040	77560	480
OCT 22	117601	116192	1409	OCT 22	77379	77955	-576
NOV 22	121414	120038	1376	NOV 22	65518	64957	561
DEC 22	65900	64833	1067	DEC 22	67707	67629	78
JAN 23	84498	84793	-295	JAN 23	66398	66318	80
FEB 23	37293	37286	7	FEB 23	62336	61942	394
MAR 23	56394	56300	94	MAR 23	54255	54011	244
APR 23	71185	70318	867	APR 23	56414	56430	-16
MAY 23	73395	73442	-47	MAY 23	54862	54822	41
JUN 23	23309	23045	264	JUN 23	46912	47041	-129
JUL 23	23458	23746	-288	JUL 23	46399	46474	-75
AUG 23	19123	19043	80	AUG 23	45130	45120	10
SEP 23	20106	19969	137	SEP 23	43891	43962	-72
OCT 23	48741	49019	-278	OCT 23	51551	51220	331
NOV 23	13120	13057	63	NOV 23	45168	45090	78
DEC 23	12559	12493	66	DEC 23	41250	41194	56
JAN 24	18672	18876	-204	JAN 24	40461	40118	343
FEB 24	7908	7880	28	FEB 24	30528	30526	2
MAR 24	17768	17648	120	MAR 24	35030	34999	31
APR 24	14414	14294	120	APR 24	28505	28561	-56
MAY 24	6897	6845	52	MAY 24	27399	27349	50
JUN 24	2628	2588	40	JUN 24	24360	24311	49
JUL 24	2426	2418	8	JUL 24	24308	24258	50
AUG 24	3316	3310	6	AUG 24	23897	23847	50
SEP 24	1976	1948	28	SEP 24	23832	23784	48
OCT 24	8935	8935	0	OCT 24	27148	27213	-66
NOV 24	4822	4814	8	NOV 24	24901	24885	16
DEC 24	7892	7890	2	DEC 24	28200	28185	16
JAN 25	16559	16554	5	JAN 25	21804	21749	55
FEB 25	953	974	-21	FEB 25	14318	14318	0

Source: CME, ICE





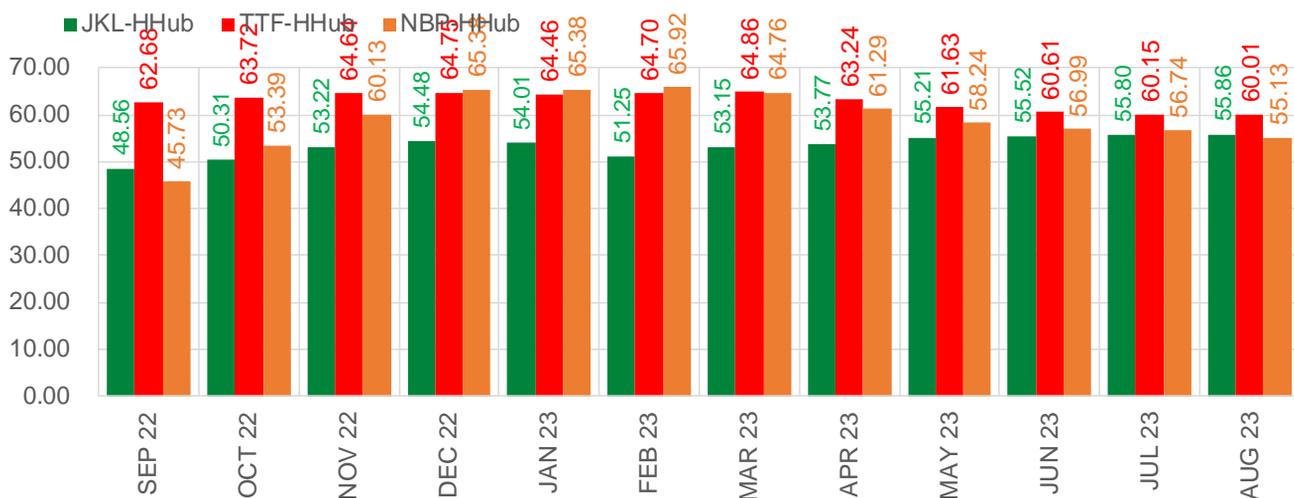
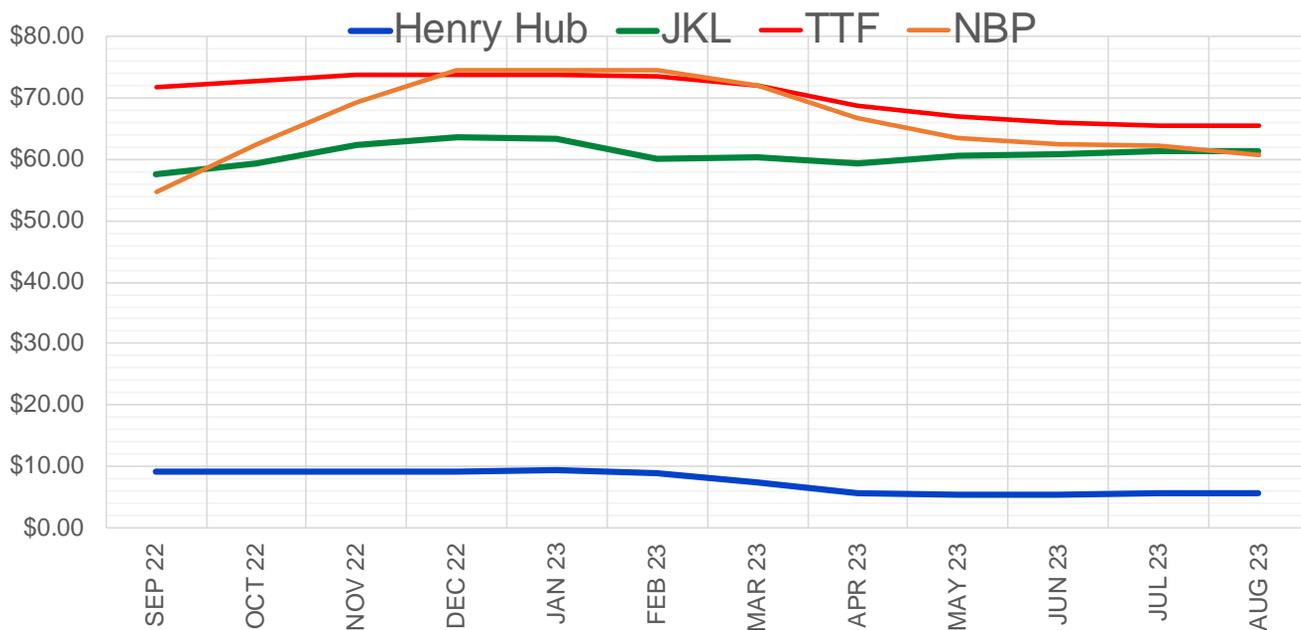
	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
Current Price	\$9.244	\$9.228	\$9.297	\$9.401	\$9.465	\$8.951	\$7.448	\$5.593	\$5.416	\$5.463	\$5.512	\$5.524
Last Week	\$8.202	\$8.193	\$8.272	\$8.389	\$8.449	\$7.997	\$6.605	\$5.015	\$4.854	\$4.901	\$4.947	\$4.960
vs. Last Week	\$1.042	\$1.035	\$1.025	\$1.012	\$1.016	\$0.954	\$0.843	\$0.578	\$0.562	\$0.562	\$0.565	\$0.564
4 Weeks Ago	\$8.007	\$7.899	\$7.870	\$7.944	\$8.030	\$8.109	\$7.726	\$6.588	\$5.074	\$4.923	\$4.975	\$5.028
vs. 4 Weeks Ago	\$1.237	\$1.329	\$1.427	\$1.457	\$1.435	\$0.842	-\$0.278	-\$0.995	\$0.342	\$0.540	\$0.537	\$0.496
Last Year	\$3.852	\$3.866	\$3.939	\$4.057	\$4.120	\$4.045	\$3.800	\$3.287	\$3.220	\$3.250	\$3.284	\$3.292
vs. Last Year	\$5.392	\$5.362	\$5.358	\$5.344	\$5.345	\$4.906	\$3.648	\$2.306	\$2.196	\$2.213	\$2.228	\$2.232

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	8.85	8.21	-0.64
TETCO M3	\$/MMBtu	8.39	7.60	-0.79
FGT Zone 3	\$/MMBtu	8.56	9.73	1.17
Zone 6 NY	\$/MMBtu	8.56	7.57	-0.99
Chicago Citygate	\$/MMBtu	8.67	8.40	-0.27
Michcon	\$/MMBtu	8.69	8.37	-0.32
Columbia TCO Pool	\$/MMBtu	8.28	7.65	-0.63
Ventura	\$/MMBtu	5.95	8.31	2.36
Rockies/Opal	\$/MMBtu	8.89	8.17	-0.71
El Paso Permian Basin	\$/MMBtu	8.42	7.64	-0.79
Socal Citygate	\$/MMBtu	10.84	9.41	-1.43
Malin	\$/MMBtu	8.68	8.40	-0.28
Houston Ship Channel	\$/MMBtu	8.89	8.27	-0.62
Henry Hub Cash	\$/MMBtu	9.42	8.19	-1.23
AECO Cash	C\$/GJ	0.73	5.03	4.30
Station2 Cash	C\$/GJ	-0.42	8.07	8.49
Dawn Cash	C\$/GJ	8.77	8.46	-0.31

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	▲ 1.997
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.296
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.054
NatGas Apr22/Oct22	\$/MMBtu	3.834	▲ 0.307	▲ 1.386	▲ 3.817
WTI Crude	\$/Bbl	90.50	▼ -3.840	▼ -5.850	▲ 26.810
Brent Crude	\$/Bbl	96.59	▼ -3.010	▼ -7.270	▲ 30.140
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	364.97	▲ 16.570	▲ 5.940	▲ 168.070
Propane, Mt. Bel	cents/Gallon	1.09	▼ -0.005	▼ -0.054	▼ -0.025
Ethane, Mt. Bel	cents/Gallon	0.61	▲ 0.013	▲ 0.035	▲ 0.270
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			

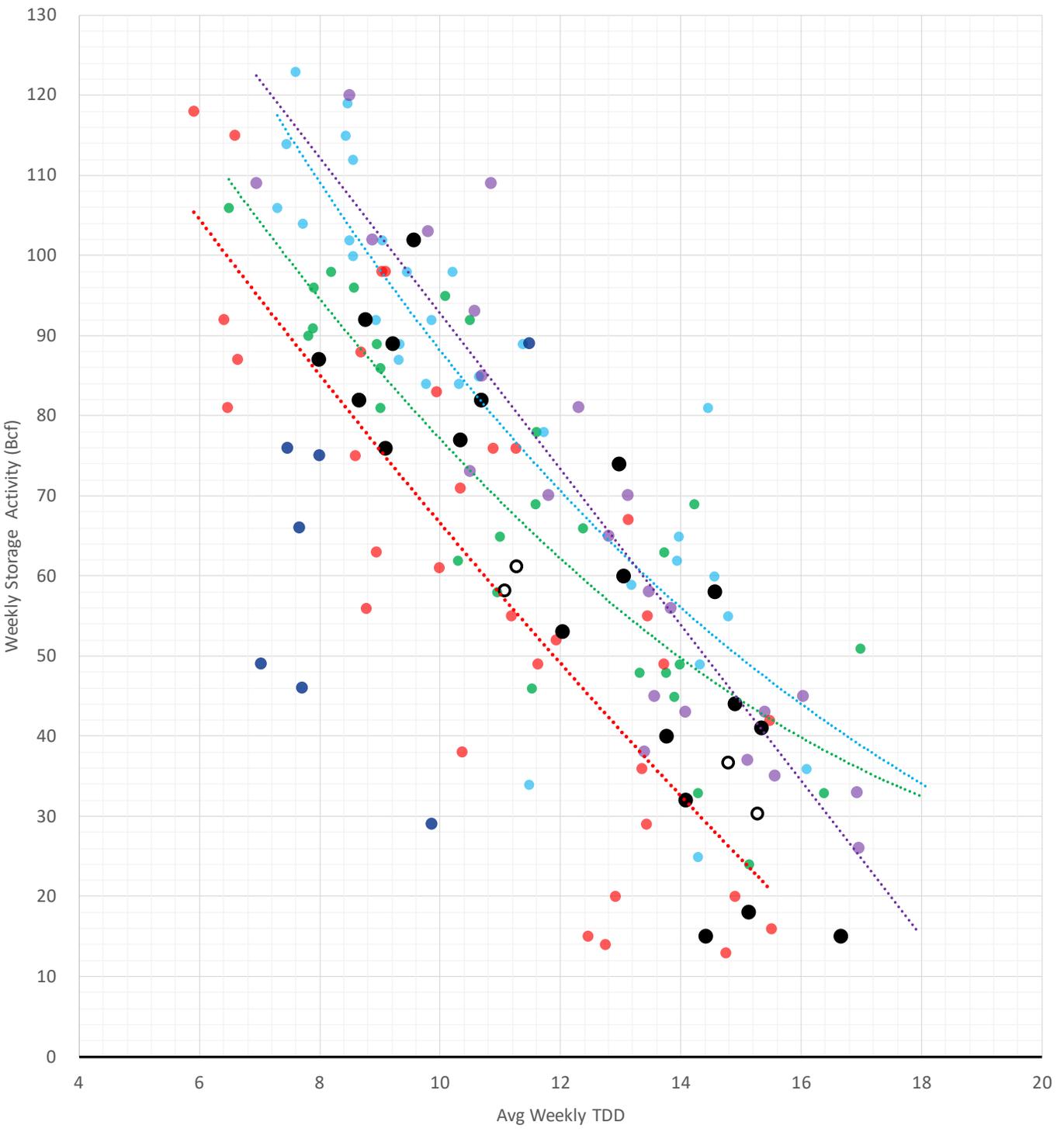
Nat Gas Term Structure (\$MMBTU)



	SEP 22	OCT 22	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23
Henry Hub	\$9.036	\$9.016	\$9.066	\$9.190	\$9.266	\$8.760	\$7.285	\$5.571	\$5.405	\$5.451	\$5.501	\$5.518
JKL	\$57.600	\$59.330	\$62.290	\$63.665	\$63.275	\$60.010	\$60.435	\$59.340	\$60.610	\$60.970	\$61.300	\$61.380
JKL-HHub	\$48.564	\$50.314	\$53.224	\$54.475	\$54.009	\$51.250	\$53.150	\$53.769	\$55.205	\$55.519	\$55.799	\$55.862
TTF	\$71.716	\$72.735	\$73.707	\$73.937	\$73.724	\$73.456	\$72.144	\$68.806	\$67.038	\$66.057	\$65.647	\$65.527
TTF-HHub	\$62.680	\$63.719	\$64.641	\$64.747	\$64.458	\$64.696	\$64.859	\$63.235	\$61.633	\$60.606	\$60.146	\$60.009
NBP	\$54.764	\$62.408	\$69.196	\$74.570	\$74.649	\$74.680	\$72.041	\$66.859	\$63.644	\$62.445	\$62.240	\$60.648
NBP-HHub	\$45.728	\$53.392	\$60.130	\$65.380	\$65.383	\$65.920	\$64.756	\$61.288	\$58.239	\$56.994	\$56.739	\$55.130

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



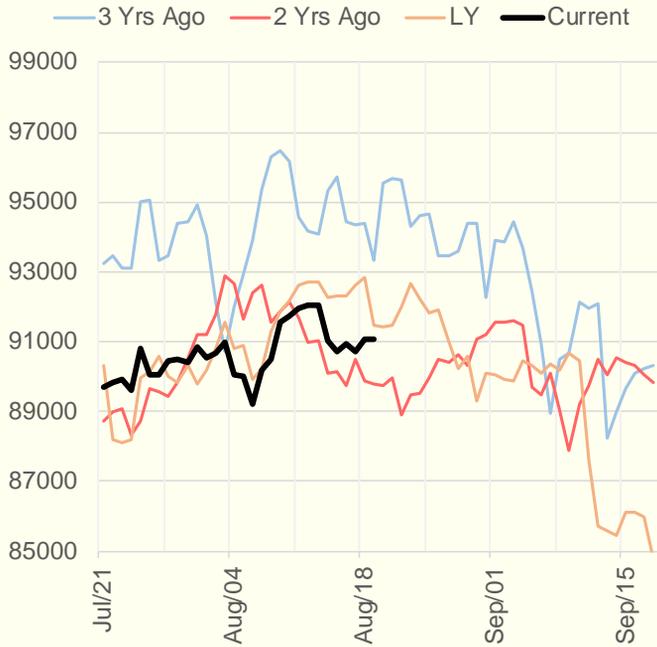
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are 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.

Weather Storage Model - Next 4 Week Forecast

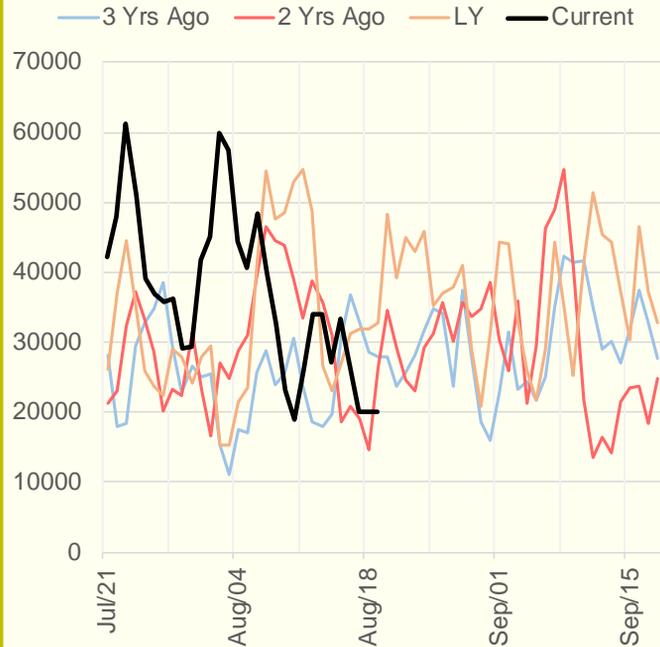


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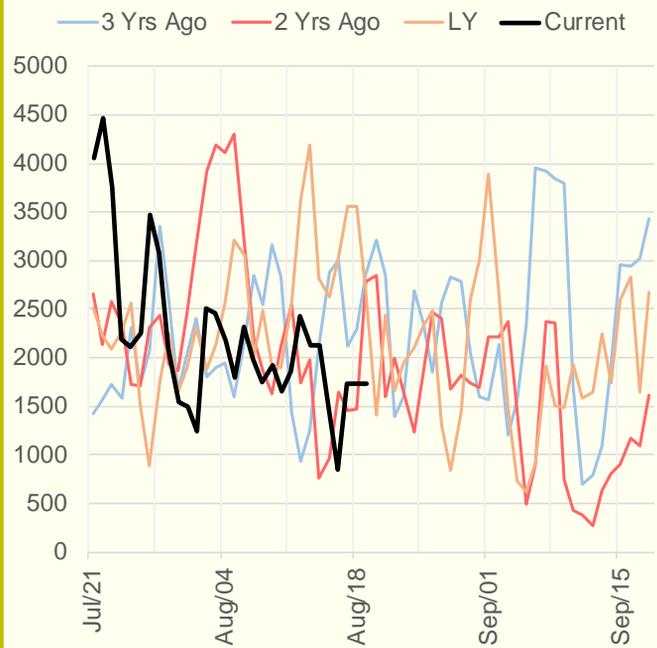
NRC Nuclear Daily Output



US Wind



CALI Wind



TEXAS Wind

