

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 6.21	▼ \$ (0.08)	▲ \$ 0.46

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 102.58	▼ \$ (0.15)	▼ \$ (2.3)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 104.67	▲ \$ 0.02	▼ \$ (3.4)

Page Menu

[Short-term Weather Model Outlooks](#)

[Lower 48 Component Models](#)

[Regional S/D Models Storage Projection](#)

[Weather Model Storage Projection](#)

[Supply – Demand Trends](#)

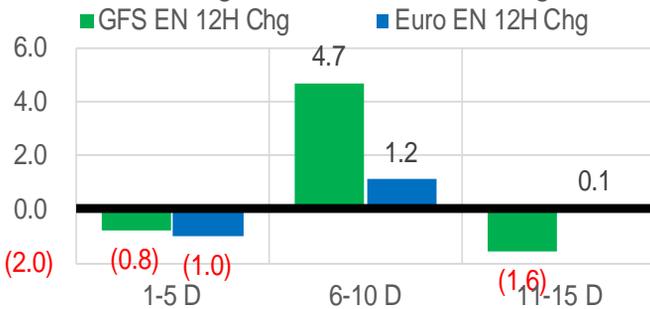
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

[Price Summary](#)

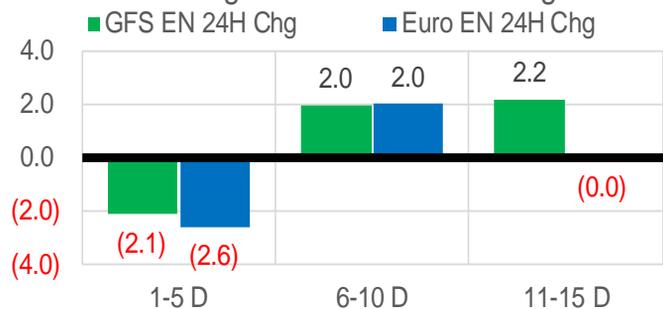
Vs. 12H Ago

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	96.5	▲ 0.10	▼ -0.42

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	41.6	▼ -1.33	▲ 0.64

	Current	Δ from YD	Δ from 7D Avg
US ResComm	8.2	▼ -0.16	▲ 0.14

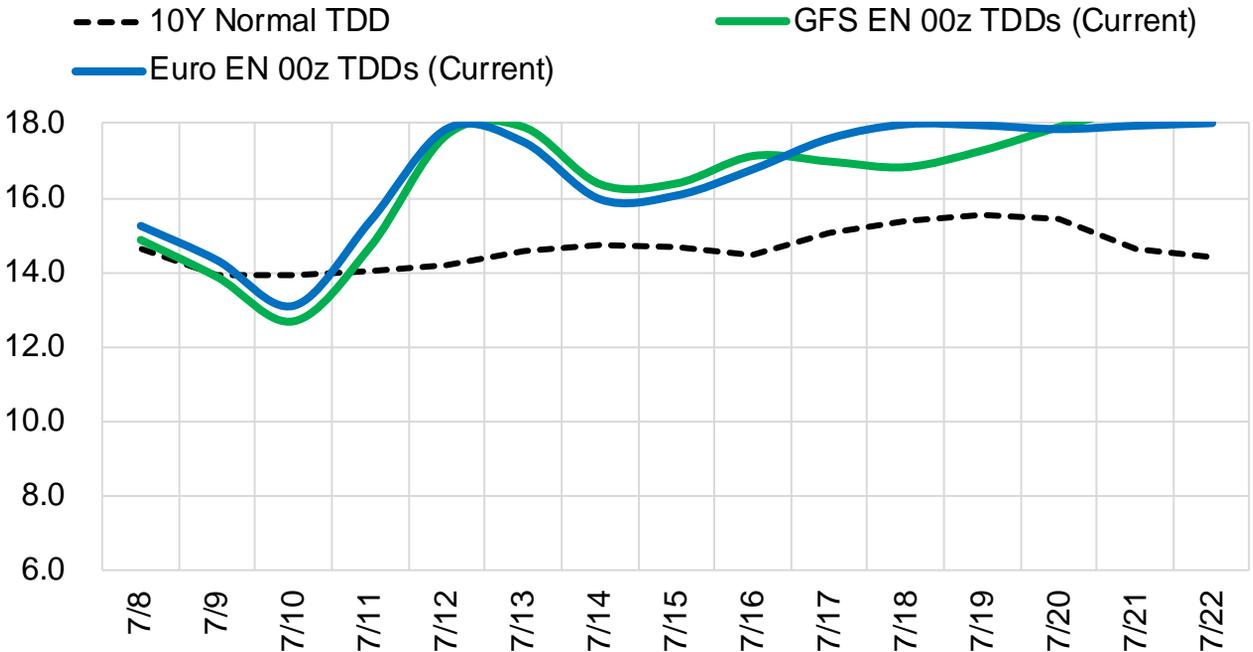
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.1	▲ 0.05	▲ 0.47

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.0	▼ -0.17	▼ -0.19

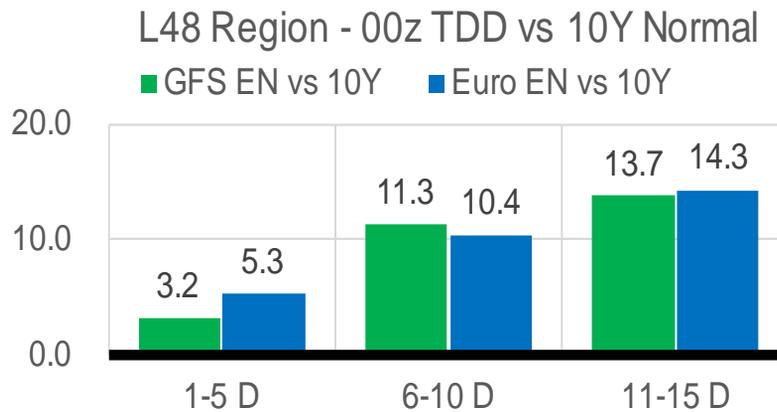
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	7.0	▲ 0.28	▲ 0.32

Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal



Source: WSI , Bloomberg

Lower 48 Component Models

Daily Balances

	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	DoD	vs. 7D
Lower 48 Dry Production	96.8	97.3	97.1	97.4	96.7	96.4	96.5	▲ 0.1	▼ -0.4
Canadian Imports	5.2	5.2	5.2	5.6	6.4	6.1	6.1	▲ 0.1	▲ 0.5
L48 Power	39.6	37.7	38.3	42.5	43.6	43.0	41.6	▼ -1.3	▲ 0.9
L48 Residential & Commercial	7.9	7.7	7.7	8.3	8.4	8.4	8.2	▼ -0.2	▲ 0.2
L48 Industrial	20.4	20.5	20.6	20.8	21.1	21.4	21.6	▲ 0.3	▲ 0.8
L48 Lease and Plant Fuel	5.2	5.3	5.3	5.3	5.2	5.2	5.2	▼ 0.0	▼ -0.1
L48 Pipeline Distribution	2.5	2.4	2.4	2.7	2.8	2.7	2.7	▼ -0.1	▲ 0.1
L48 Regional Gas Consumption	75.7	73.6	74.3	79.5	81.1	80.7	79.3	▼ -1.3	▲ 1.9
Net LNG Delivered	11.11	11.21	11.07	11.04	11.28	11.19	11.02	▼ -0.2	▼ -0.1
Total Mexican Exports	6.4	6.5	6.6	6.9	7.0	6.8	7.0	▲ 0.3	▲ 0.3
Implied Daily Storage Activity	8.8	11.1	10.3	5.5	3.7	3.8	5.2		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	WoW	vs. 4W
Lower 48 Dry Production	97.3	97.0	96.7	96.8	97.1	97.0	▼ -0.1	▲ 0.1
Canadian Imports	4.8	5.4	6.1	5.6	5.7	5.6	▼ -0.1	▼ -0.1
L48 Power	30.3	32.3	37.8	37.5	40.0	41.0	▲ 1.0	▲ 4.1
L48 Residential & Commercial	9.1	8.6	8.3	8.4	8.0	8.1	▲ 0.1	▼ -0.2
L48 Industrial	21.4	21.3	21.5	20.6	21.5	20.8	▼ -0.7	▼ -0.5
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.2	5.3	5.3	▲ 0.0	▲ 0.0
L48 Pipeline Distribution	2.2	2.2	2.5	2.5	2.6	2.6	▼ 0.0	▲ 0.1
L48 Regional Gas Consumption	68.3	69.7	75.3	74.3	77.4	77.7	▲ 0.3	▲ 3.6
Net LNG Exports	12.8	12.3	10.7	10.6	10.6	11.2	▲ 0.6	▲ 0.1
Total Mexican Exports	7.1	7.1	7.2	7.0	7.0	6.7	▼ -0.3	▼ -0.4
Implied Daily Storage Activity	14.0	13.3	9.7	10.5	7.7	6.9	-0.8	
EIA Reported Daily Storage Activity	14.6	13.1	10.6	11.7	8.6			
Daily Model Error	-0.6	0.2	-0.9	-1.2	-0.9			

Monthly Balances

	2Yr Ago Jul-20	LY Jul-21	Mar-22	Apr-22	May-22	Jun-22	MTD Jul-22	MoM	vs. LY
Lower 48 Dry Production	89.0	93.5	93.5	96.3	96.3	96.9	97.0	▲ 0.0	▲ 3.5
Canadian Imports	4.4	5.2	5.2	5.8	5.1	5.6	5.6	▼ 0.0	▲ 0.5
L48 Power	43.8	39.7	25.4	24.7	28.8	36.7	41.0	▲ 4.3	▲ 1.3
L48 Residential & Commercial	7.9	8.1	31.5	22.5	12.3	8.4	8.1	▼ -0.3	▼ 0.0
L48 Industrial	20.1	20.8	19.7	21.5	21.1	21.0	20.8	▼ -0.3	▼ 0.0
L48 Lease and Plant Fuel	4.9	5.1	5.2	5.2	5.2	5.2	5.3	▲ 0.0	▲ 0.2
L48 Pipeline Distribution	2.6	2.5	2.9	2.6	2.3	2.5	2.6	▲ 0.2	▲ 0.1
L48 Regional Gas Consumption	79.3	76.2	84.7	76.6	69.8	73.8	77.7	▲ 3.9	▲ 1.5
Net LNG Exports	3.3	10.8	12.9	12.3	12.5	11.2	11.2	▲ 0.0	▲ 0.4
Total Mexican Exports	5.9	7.1	6.5	6.7	7.0	7.1	6.7	▼ -0.4	▼ -0.3
Implied Daily Storage Activity	4.9	4.6	-5.4	6.5	12.1	10.5	6.9		
EIA Reported Daily Storage Activity									
Daily Model Error									

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	DoD	vs. 7D
NRC Nuclear Daily Output	90.3	89.5	90.1	90.7	90.7	90.9	91.1	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	14.6	15.3	14.8	14.1	14.2	14.0	13.8	-0.2	-0.7
NRC % Nuclear Cap Utilization	91.8	91.1	91.6	92.3	92.2	92.4	92.6	0.2	0.7

Wind Generation Daily Average - MWh (EIA)

	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	DoD	vs. 7D
CALI Wind	2048	2048	2048	2048	2048	2048	2048	0	0
TEXAS Wind	22879	22879	22879	22879	22879	22879	22879	0	0
US Wind	63443	63443	63443	63443	63443	63443	63443	0	0

EIA 930 data is not being updated. EIA experiencing some issues.

Generation Daily Average - MWh (EIA)

	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	DoD	vs. 7D
US Wind	63443	63443	63443	63443	63443	63443	63443	0	0
US Solar	19728	19728	19728	19728	19728	19728	19728	0	0
US Petroleum	1333	1333	1333	1333	1333	1333	1333	0	0
US Other	9775	9775	9775	9775	9775	9775	9775	0	0
US Coal	119543	119543	119543	119543	119543	119543	119543	0	0
US Nuke	90696	90696	90696	90696	90696	90696	90696	0	0
US Hydro	39690	39690	39690	39690	39690	39690	39690	0	0
US Gas	220700	0	0						

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Storage Week Average Generation Data

Nuclear Generation Weekly Average - GWh (NRC)

	3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	86.2	88.3	88.2	89.0	88.9	90.6	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	18.7	16.6	16.7	15.9	16.0	14.2	-1.7	
NRC % Nuclear Cap Utilization	87.6	89.8	89.7	90.5	90.4	92.2	1.8	

Wind Generation Weekly Average - MWh (EIA)

	3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	WoW	WoW Bcf/d Impact
CALI Wind	3268	3842	3032	2048	2048	2048	0	0.0
TEXAS Wind	17915	12449	20462	22879	22879	22879	0	0.0
US Wind	57939	37417	57090	63443	63443	63443	0	0.0

0%

0.0

EIA 930 data is not being updated. EIA experiencing some issues.

Generation Weekly Average - MWh (EIA)

	3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	WoW	WoW Bcf/d Impact
US Wind	57939	37417	57090	63443	63443	63443	0	0.0
US Solar	18656	18807	18731	19728	19728	19728	0	0.0
US Petroleum	863	968	1244	1333	1333	1333	0	0.0
US Other	7866	8001	8688	9775	9775	9775	0	0.0
US Coal	89706	95415	106566	119543	119543	119543	0	0.0
US Nuke	89728	91641	91235	90696	90696	90696	0	0.0
US Hydro	35051	36328	37495	39690	39690	39690	0	0.0
US Gas	163383	178204	201845	220700	220700	220700	0	0.0

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	Apr-22	May-22	Jun-22	Jul-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	NRC Nuclear Daily Output	91.4	88.8	73.4	81.7	88.5	90.7	89.2	2.2
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	13.5	16.1	31.5	23.2	16.3	14.2	15.6	-2.2	-0.5
NRC % Nuclear Cap Utilization	92.9	90.3	74.6	83.0	90.0	92.2	90.7	2.2	0.5

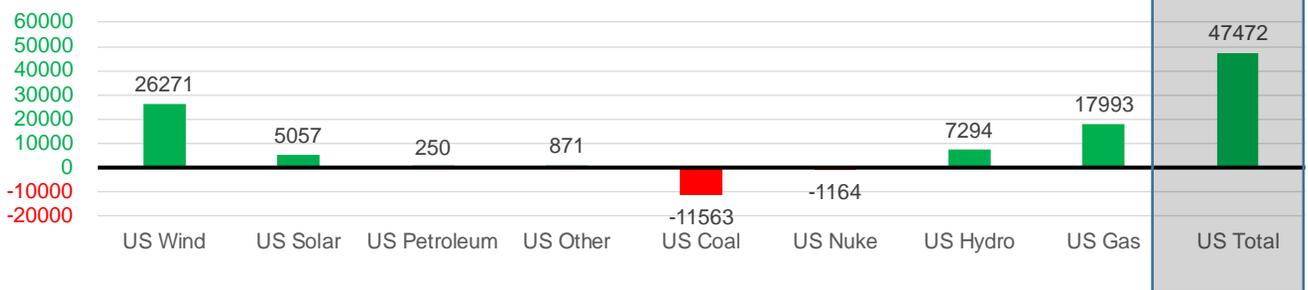
Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Apr-22	May-22	Jun-22	Jul-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	CALI Wind	2705	2639	3218	3361	2724	2048	2290	-676
TEXAS Wind	11383	8679	16384	16756	19072	22879	21862	3807	13183
US Wind	37874	34600	64240	56462	54014	63443	60871	9428	26271

Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Apr-22	May-22	Jun-22	Jul-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	US Wind	37874	34600	64240	56462	54014	63443	60871	-2571.5
US Solar	12227	14406	16265	18186	19216	19728	19463	-265.4	5057
US Petroleum	1104	1051	979	518	1204	1333	1301	-32	250
US Other	8963	8594	7373	7724	8994	9775	9465	-310	871
US Coal	98260	127481	77400	85273	109706	119543	115917	-3626	-11563
US Nuke	94710	92038	77317	85496	91073	90696	90874	178	-1164
US Hydro	36088	31881	28877	31369	38153	39690	39175	-515	7294
US Gas	198005	197703	132665	157565	204668	220700	215696	-7142	17993
US Total	485774	507975	405650	443965	530484	566968	555447	-11712	47472

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

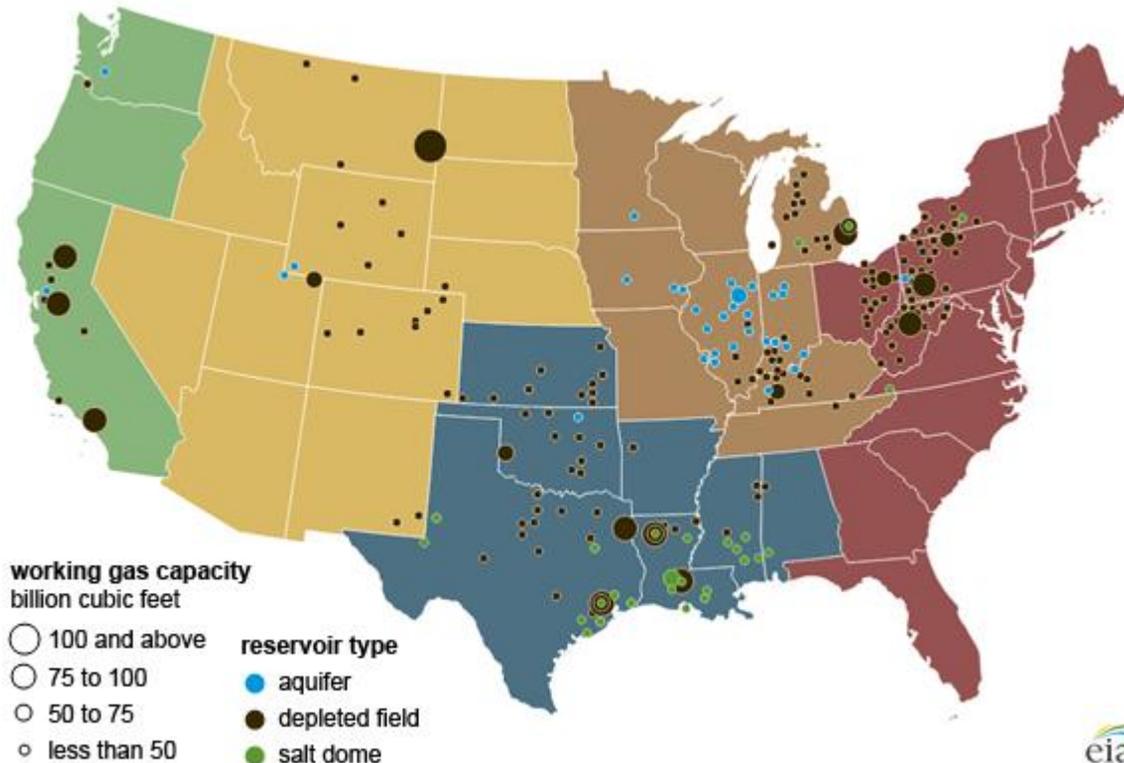
Regional S/D Models Storage Projection

Week Ending 8-Jul

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	8.1	0.0	8.1	57
East	0.4	2.5	2.9	20
Midwest	3.8	-1.1	2.7	19
Mountain	4.7	-4.0	0.7	5
South Central	-3.0	3.4	0.3	2
Pacific	2.3	-0.8	1.5	10

*Adjustment Factor is calculated based on historical regional deltas

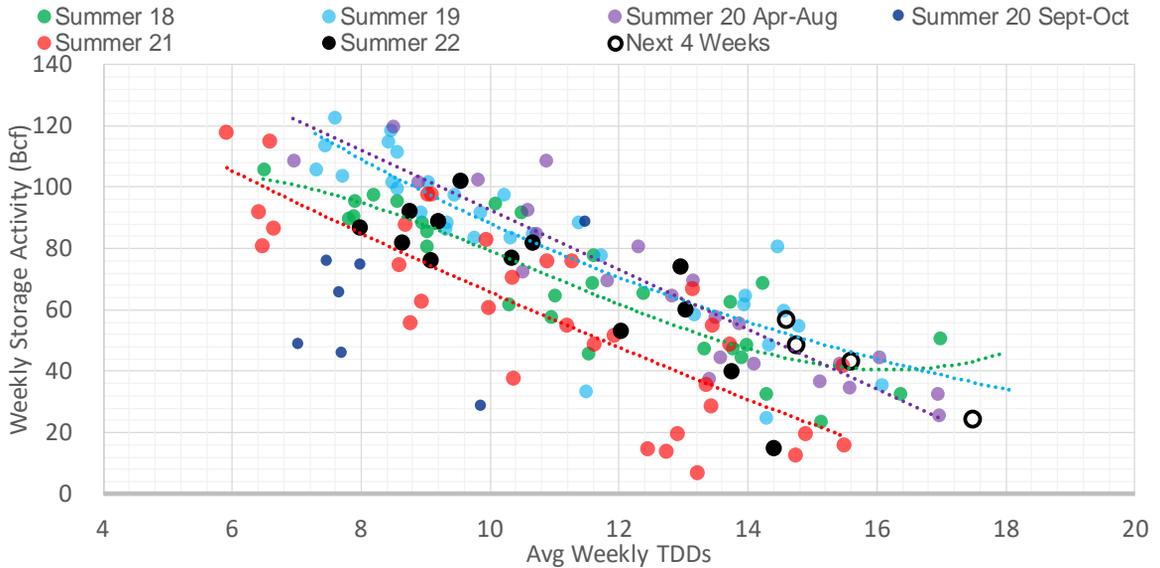
U.S. underground natural gas storage facilities by type (July 2015)



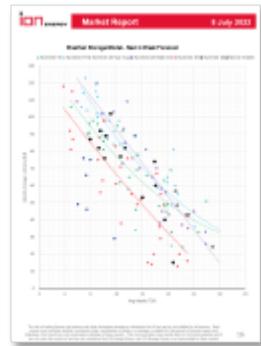
Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
08-Jul	14.6	57
15-Jul	15.6	43
22-Jul	17.5	24
29-Jul	14.8	48

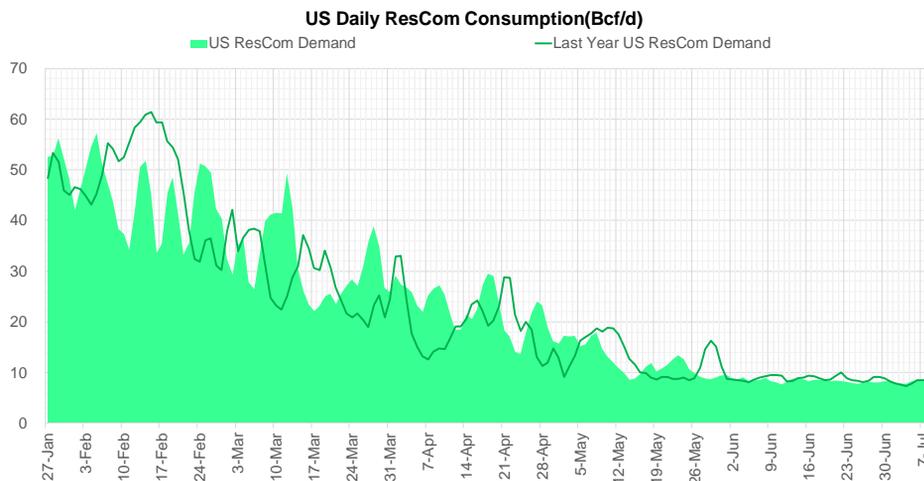
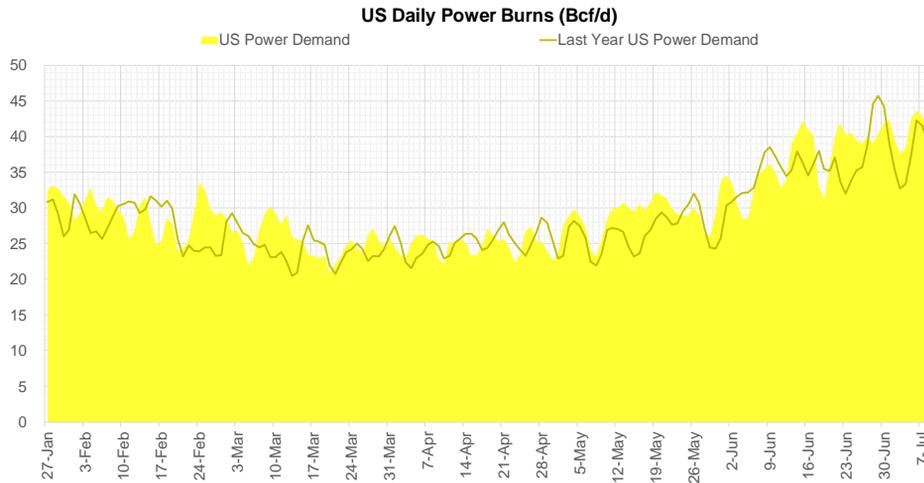
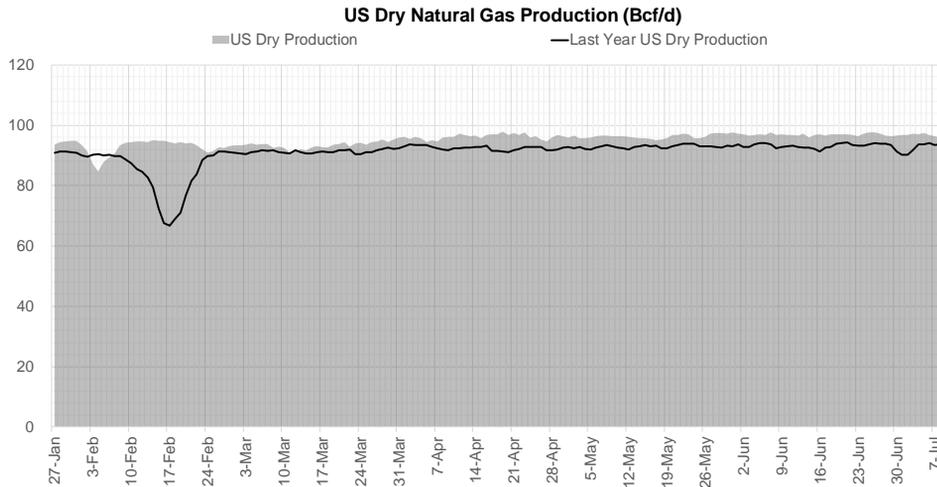
Weather Storage Model - Next 4 Week Forecast



Go to larger image



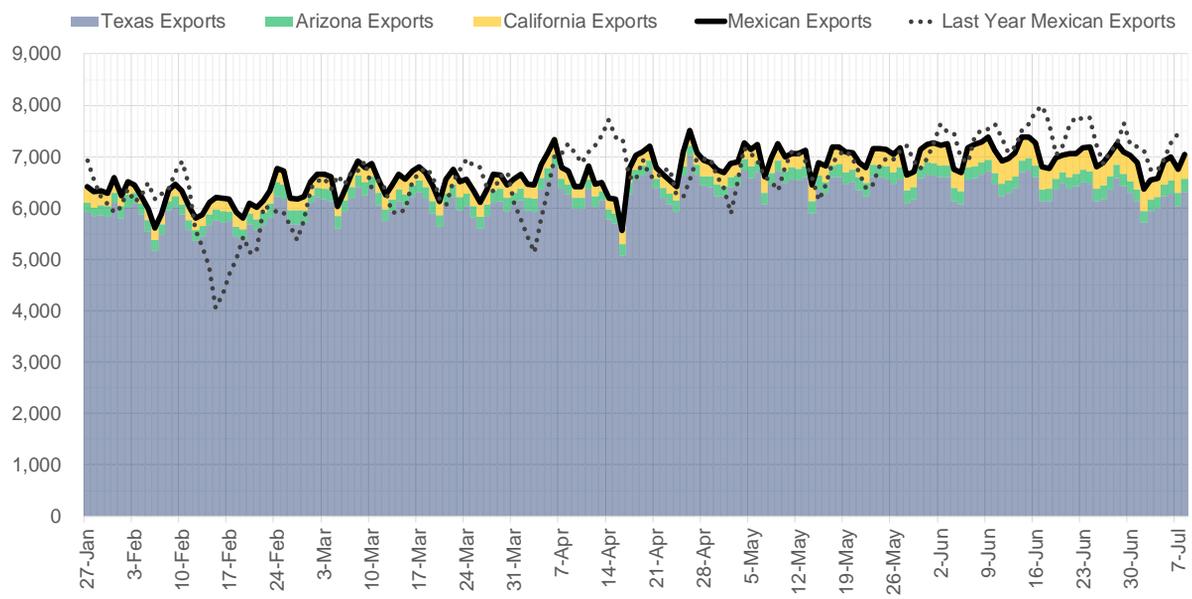
Supply – Demand Trends



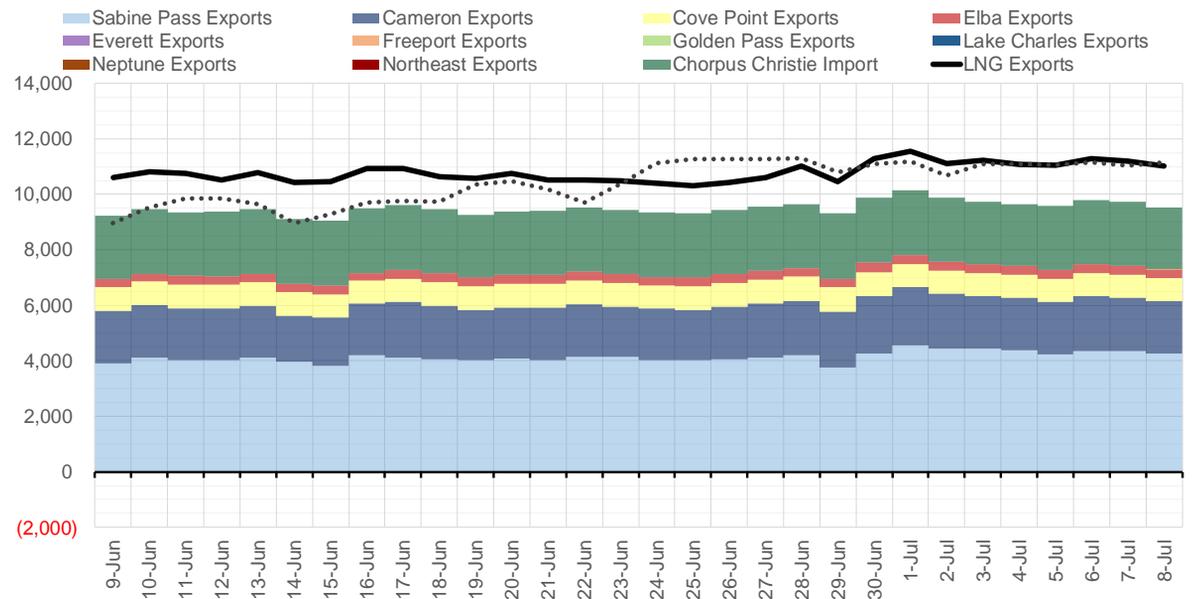
Source: Bloomberg

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

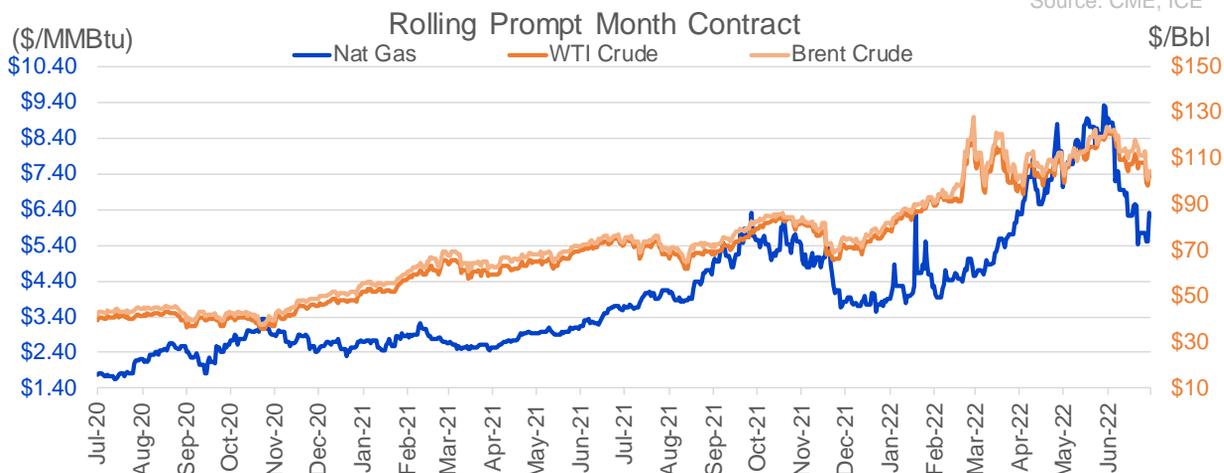
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
8	2022	C	7.00	8662	8	2022	C	10.00	41712
8	2022	P	5.00	7601	8	2022	C	12.00	38194
10	2022	C	10.00	5784	10	2022	C	6.00	36076
10	2022	C	10.10	5400	8	2022	C	10.50	31782
8	2022	P	5.50	5144	8	2022	C	7.00	25638
8	2022	P	5.40	5002	9	2022	C	6.00	24416
8	2022	C	10.00	4719	10	2022	P	6.00	23962
8	2022	C	7.10	4398	10	2022	P	3.00	23502
8	2022	P	5.25	3937	10	2022	C	5.00	23365
8	2022	C	6.50	3613	8	2022	C	12.10	22001
8	2022	C	6.00	2963	9	2022	C	10.00	21662
8	2022	P	4.75	2444	10	2022	P	3.50	21630
10	2023	P	2.50	2200	8	2022	P	6.00	20964
8	2022	C	6.75	2193	8	2022	C	6.00	20406
8	2022	C	7.50	2025	10	2022	P	2.50	19826
1	2023	P	5.00	1944	9	2022	P	4.00	19559
3	2023	P	3.00	1810	10	2022	C	10.00	19463
8	2022	P	4.50	1457	5	2023	P	2.00	19018
8	2022	C	8.00	1440	3	2023	C	10.00	18841
8	2022	P	5.75	1424	8	2022	C	8.00	18752
8	2022	C	6.60	1366	8	2022	C	9.00	18519
1	2023	P	5.50	1317	1	2023	C	10.00	18481
8	2022	P	6.00	1316	12	2022	C	5.00	18221
3	2023	C	8.00	1266	9	2022	C	7.00	18196
12	2022	P	3.50	1200	8	2022	P	7.00	17306
9	2022	C	9.00	1187	10	2022	P	2.00	16902
8	2022	C	5.75	1161	2	2023	C	10.00	16574
9	2022	P	5.00	1149	10	2023	P	2.00	16230
8	2022	C	5.50	1117	9	2022	C	4.00	15970
3	2023	C	7.75	1100	12	2022	P	5.00	15562
3	2023	C	10.00	1100	10	2022	P	4.00	15470
8	2022	P	5.55	1093	9	2022	P	2.50	15295
8	2022	C	6.80	1040	10	2022	P	5.00	15169
8	2022	P	6.15	1037	9	2022	P	3.00	15050
11	2022	C	10.00	1029	8	2022	P	5.00	14999
12	2022	P	3.25	1000	10	2022	C	8.00	14966
8	2022	P	5.85	997	8	2022	P	3.00	14958
10	2023	P	3.00	955	9	2022	P	2.75	14887
10	2022	C	8.00	940	8	2022	P	4.00	14688
9	2022	C	7.00	917	10	2022	P	3.25	14532
4	2023	C	6.00	905	3	2023	P	3.00	14414
1	2025	C	6.00	900	9	2022	C	9.00	14292
2	2025	C	6.00	900	8	2022	P	5.50	14288
3	2025	C	6.00	900	12	2022	C	6.00	14037
4	2025	C	6.00	900	10	2022	C	7.00	13992
5	2025	C	6.00	900	9	2022	P	5.00	13729
6	2025	C	6.00	900	10	2023	P	2.50	13615
7	2025	C	6.00	900	10	2022	C	4.00	13308
8	2025	C	6.00	900	8	2022	C	3.00	13226
					9	2022	C	3	13225

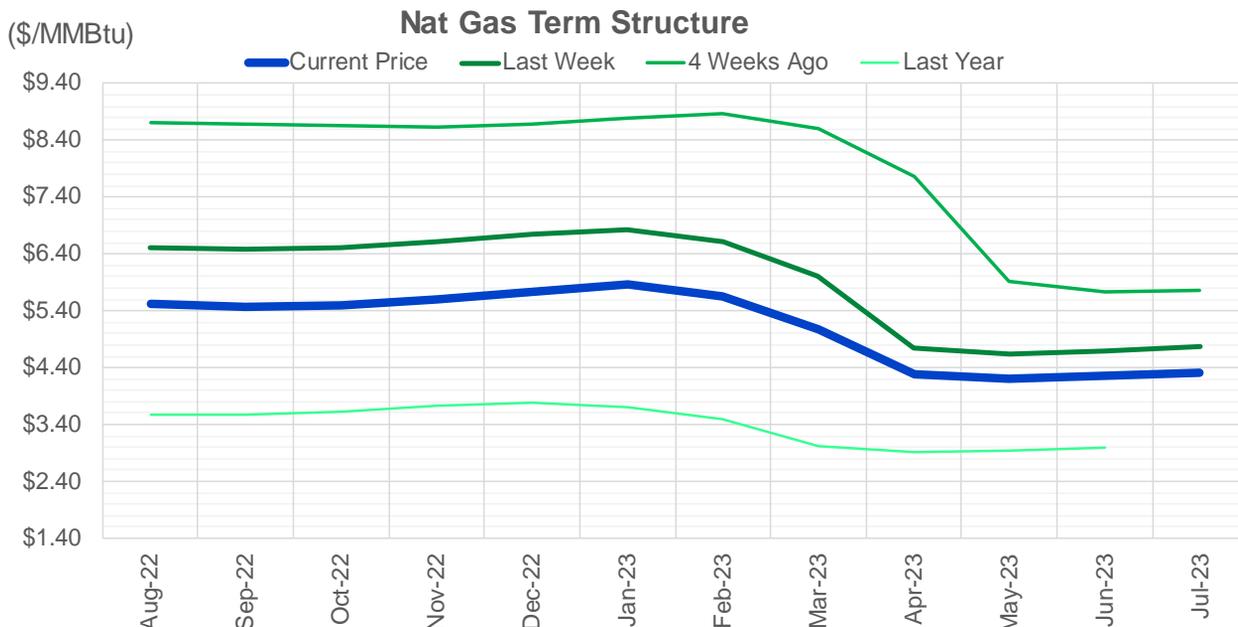
Source: CME, ICE

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
AUG 22	85417	90516	-5099	AUG 22	78398	77841	557
SEP 22	148078	148082	-4	SEP 22	79417	79539	-123
OCT 22	89145	90636	-1491	OCT 22	72439	72548	-109
NOV 22	59194	58046	1148	NOV 22	60067	60179	-112
DEC 22	52036	53674	-1638	DEC 22	64971	64444	527
JAN 23	64351	63179	1172	JAN 23	63612	63782	-170
FEB 23	32143	31768	375	FEB 23	54120	54008	112
MAR 23	48079	48628	-549	MAR 23	50067	49868	199
APR 23	66812	67131	-319	APR 23	50614	50086	529
MAY 23	55111	55539	-428	MAY 23	50260	50188	72
JUN 23	20342	20346	-4	JUN 23	43967	43832	135
JUL 23	19808	19902	-94	JUL 23	43463	43505	-42
AUG 23	15622	15438	184	AUG 23	42688	42656	32
SEP 23	15247	15240	7	SEP 23	41566	41468	98
OCT 23	40269	40275	-6	OCT 23	48467	48974	-507
NOV 23	12324	12223	101	NOV 23	44067	44108	-42
DEC 23	11893	12065	-172	DEC 23	39694	40063	-370
JAN 24	18251	18465	-214	JAN 24	39307	39081	226
FEB 24	7627	7568	59	FEB 24	28581	28620	-39
MAR 24	15568	15756	-188	MAR 24	33419	33147	272
APR 24	13378	13588	-210	APR 24	27446	27399	46
MAY 24	6430	6360	70	MAY 24	26688	26428	261
JUN 24	2359	2340	19	JUN 24	23677	23398	280
JUL 24	2116	2098	18	JUL 24	23427	23340	87
AUG 24	3128	3124	4	AUG 24	23767	23680	87
SEP 24	1484	1475	9	SEP 24	23184	23100	85
OCT 24	7850	7784	66	OCT 24	26430	26374	56
NOV 24	4667	4666	1	NOV 24	24640	24575	65
DEC 24	7103	7103	0	DEC 24	26559	26463	96
JAN 25	14454	14353	101	JAN 25	19675	18880	795

Source: CME, ICE





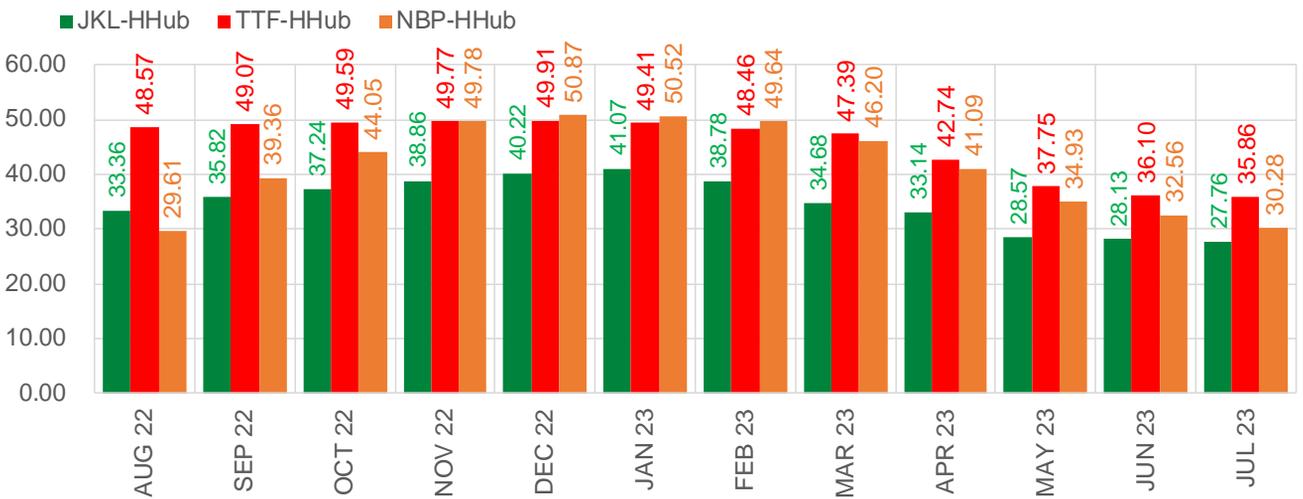
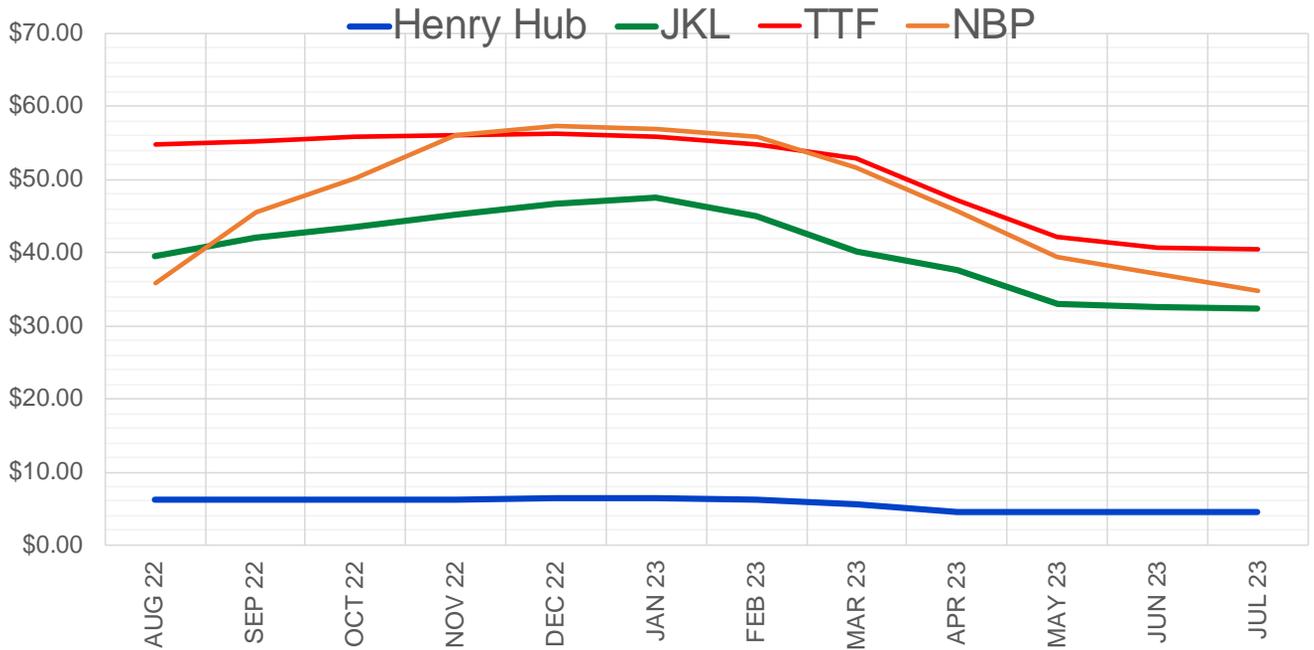
	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23
Current Price	\$5.510	\$5.482	\$5.493	\$5.605	\$5.740	\$5.853	\$5.660	\$5.082	\$4.275	\$4.196	\$4.256	\$4.316
Last Week	\$6.498	\$6.493	\$6.519	\$6.614	\$6.735	\$6.830	\$6.618	\$6.002	\$4.753	\$4.639	\$4.698	\$4.764
vs. Last Week	-\$0.988	-\$1.011	-\$1.026	-\$1.009	-\$0.995	-\$0.977	-\$0.958	-\$0.920	-\$0.478	-\$0.443	-\$0.442	-\$0.448
4 Weeks Ago	\$8.699	\$8.679	\$8.649	\$8.637	\$8.690	\$8.781	\$8.872	\$8.602	\$7.750	\$5.917	\$5.723	\$5.768
vs. 4 Weeks Ago	-\$3.189	-\$3.197	-\$3.156	-\$3.032	-\$2.950	-\$2.928	-\$3.212	-\$3.520	-\$3.475	-\$1.721	-\$1.467	-\$1.452
Last Year	\$3.596	\$3.574	\$3.576	\$3.633	\$3.730	\$3.794	\$3.715	\$3.498	\$3.011	\$2.922	\$2.952	\$2.988
vs. Last Year	\$1.914	\$1.908	\$1.917	\$1.972	\$2.010	\$2.059	\$1.945	\$1.584	\$1.264	\$1.274	\$1.304	\$1.328

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	6.59	5.43	-1.16
TETCO M3	\$/MMBtu	5.53	5.05	-0.48
FGT Zone 3	\$/MMBtu	5.11	6.17	1.06
Zone 6 NY	\$/MMBtu	5.11	4.94	-0.17
Chicago Citygate	\$/MMBtu	5.88	5.31	-0.57
Michcon	\$/MMBtu	5.77	5.24	-0.53
Columbia TCO Pool	\$/MMBtu	5.54	4.86	-0.68
Ventura	\$/MMBtu	5.95	5.18	-0.78
Rockies/Opal	\$/MMBtu	5.80	5.11	-0.69
El Paso Permian Basin	\$/MMBtu	5.60	4.79	-0.81
Socal Citygate	\$/MMBtu	6.25	6.35	0.10
Malin	\$/MMBtu	5.15	5.60	0.45
Houston Ship Channel	\$/MMBtu	5.64	5.34	-0.30
Henry Hub Cash	\$/MMBtu	5.87	5.15	-0.72
AECO Cash	C\$/GJ	3.95	3.42	-0.53
Station2 Cash	C\$/GJ	3.76	5.45	1.69
Dawn Cash	C\$/GJ	5.73	5.28	-0.45

Source: CME, Bloomberg

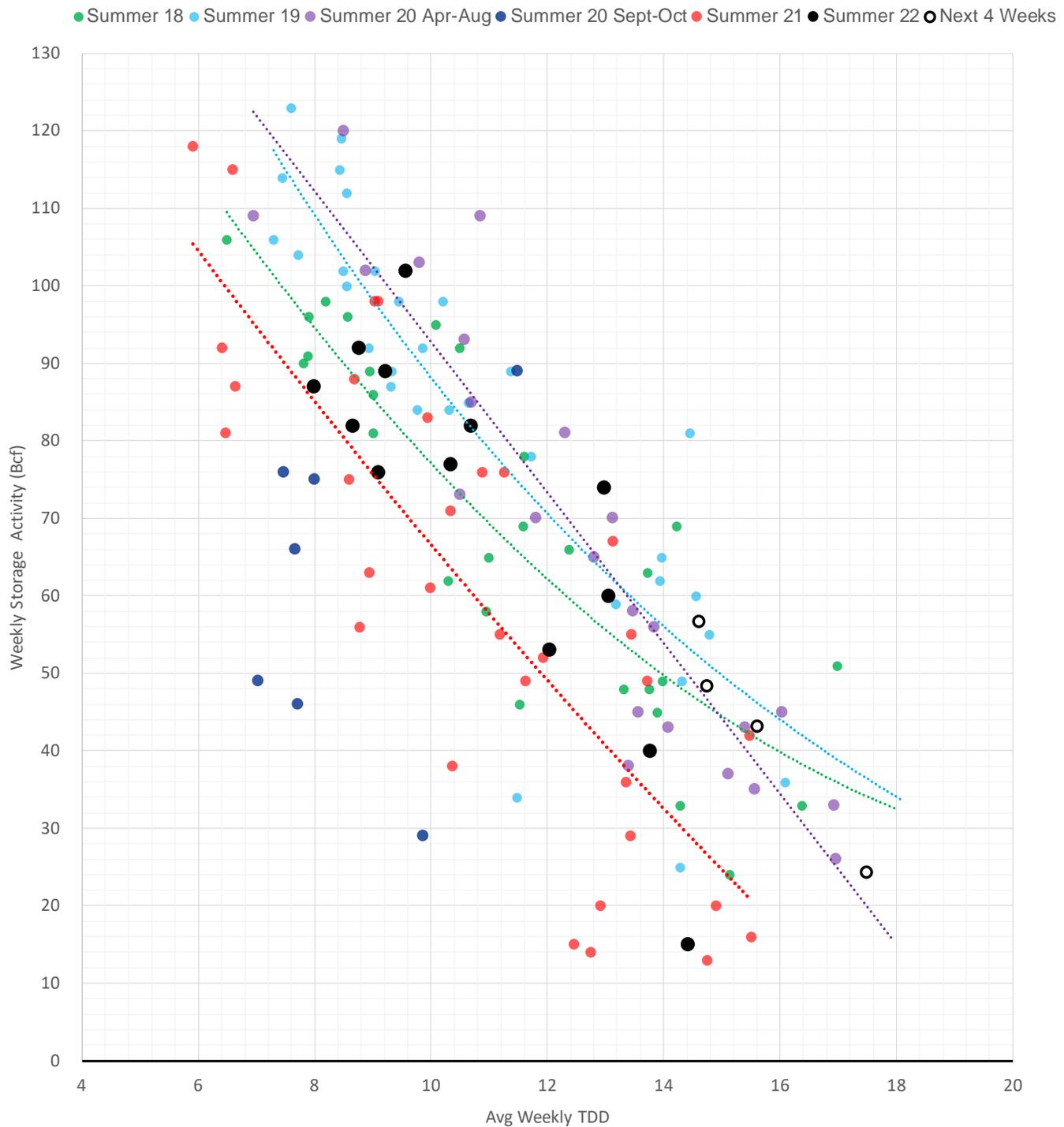
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.173
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.307
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.024
NatGas Apr22/Oct22	\$/MMBtu	0.917	▲ 0.844	▼ -2.702	▲ 0.931
WTI Crude	\$/Bbl	102.73	▼ -3.030	▼ -18.780	▲ 29.790
Brent Crude	\$/Bbl	104.65	▼ -10.160	▼ -18.420	▲ 30.530
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	367.39	▼ -22.430	▼ -72.980	▲ 155.350
Propane, Mt. Bel	cents/Gallon	1.18	▼ -0.033	▼ -0.057	▲ 0.092
Ethane, Mt. Bel	cents/Gallon	0.49	▼ -0.156	▼ -0.190	▲ 0.187
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)



	AUG 22	SEP 22	OCT 22	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23
Henry Hub	\$6.213	\$6.173	\$6.197	\$6.290	\$6.402	\$6.498	\$6.263	\$5.492	\$4.551	\$4.453	\$4.510	\$4.563
JKL	\$39.570	\$41.990	\$43.440	\$45.150	\$46.620	\$47.565	\$45.045	\$40.170	\$37.690	\$33.025	\$32.635	\$32.320
JKL-HHub	\$33.357	\$35.817	\$37.243	\$38.860	\$40.218	\$41.067	\$38.782	\$34.678	\$33.139	\$28.572	\$28.125	\$27.757
TTF	\$54.779	\$55.246	\$55.786	\$56.064	\$56.307	\$55.904	\$54.724	\$52.877	\$47.293	\$42.201	\$40.605	\$40.418
TTF-HHub	\$48.566	\$49.073	\$49.589	\$49.774	\$49.905	\$49.406	\$48.461	\$47.385	\$42.742	\$37.748	\$36.095	\$35.855
NBP	\$35.819	\$45.530	\$50.247	\$56.068	\$57.273	\$57.019	\$55.906	\$51.688	\$45.645	\$39.385	\$37.071	\$34.838
NBP-HHub	\$29.606	\$39.357	\$44.050	\$49.778	\$50.871	\$50.521	\$49.643	\$46.196	\$41.094	\$34.932	\$32.561	\$30.275

Weather Storage Model - Next 4 Week Forecast



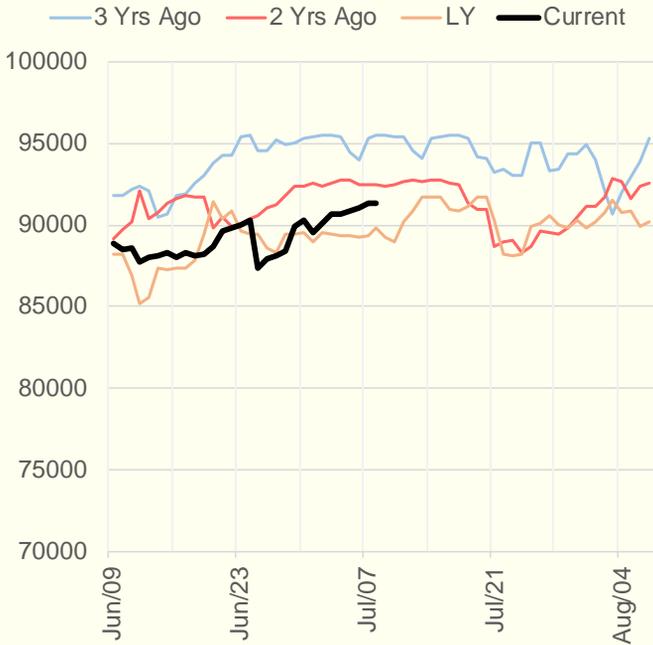
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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

Weather Storage Model - Next 4 Week Forecast

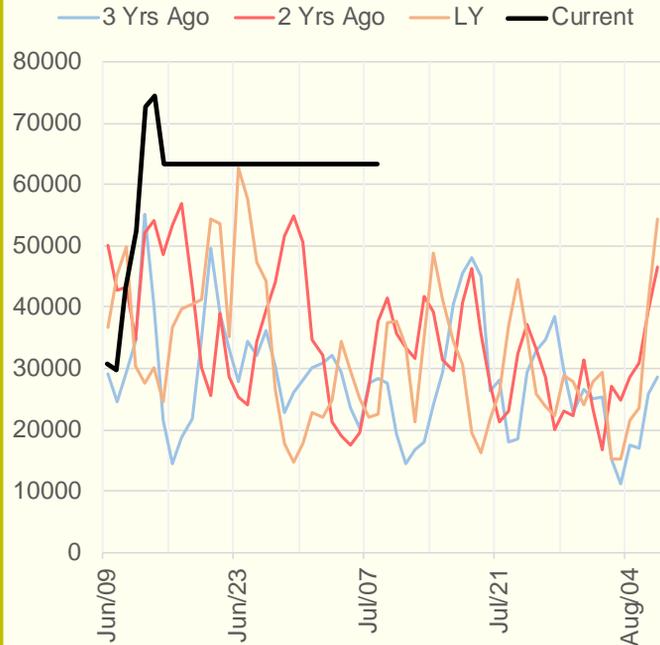


The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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

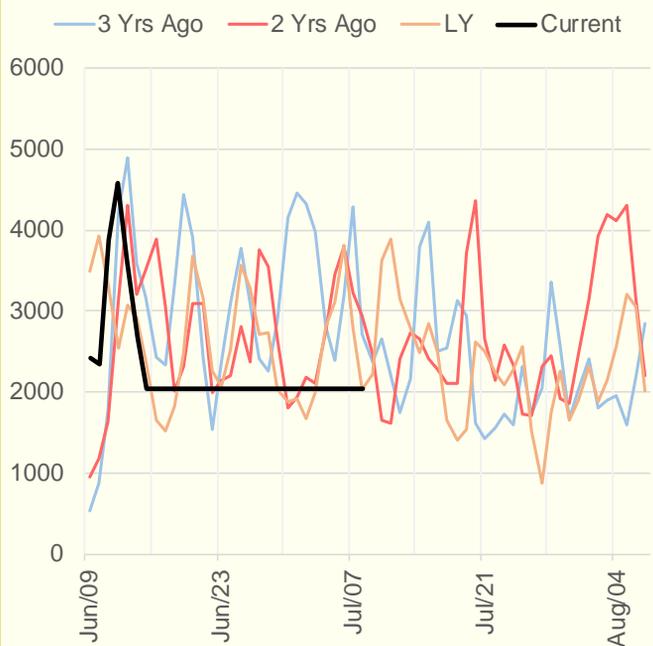
NRC Nuclear Daily Output



US Wind



CALI Wind



TEXAS Wind

