

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 6.54	▼ \$ (0.23)	▼ \$ (0.26)

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](#)

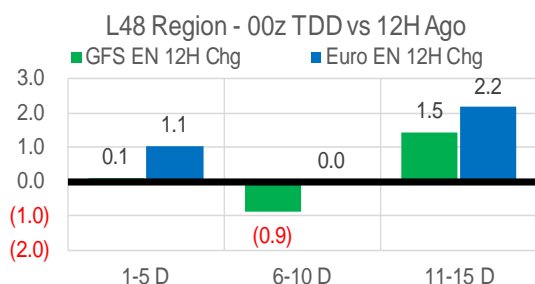
[Nat Gas Futures Open Interest](#)

[Price Summary](#)

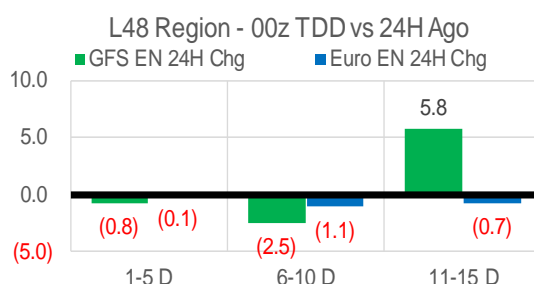
	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 82.97	▲ \$ 3.48	▲ \$ 3.4

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 88.54	▲ \$ 0.58	▲ \$ 1.1

Vs. 12H Ago



Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	102.6	▼ -0.59	▲ 0.59

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	30.0	▲ 1.15	▼ -0.36

	Current	Δ from YD	Δ from 7D Avg
US ResComm	12.7	▼ -0.04	▲ 0.00

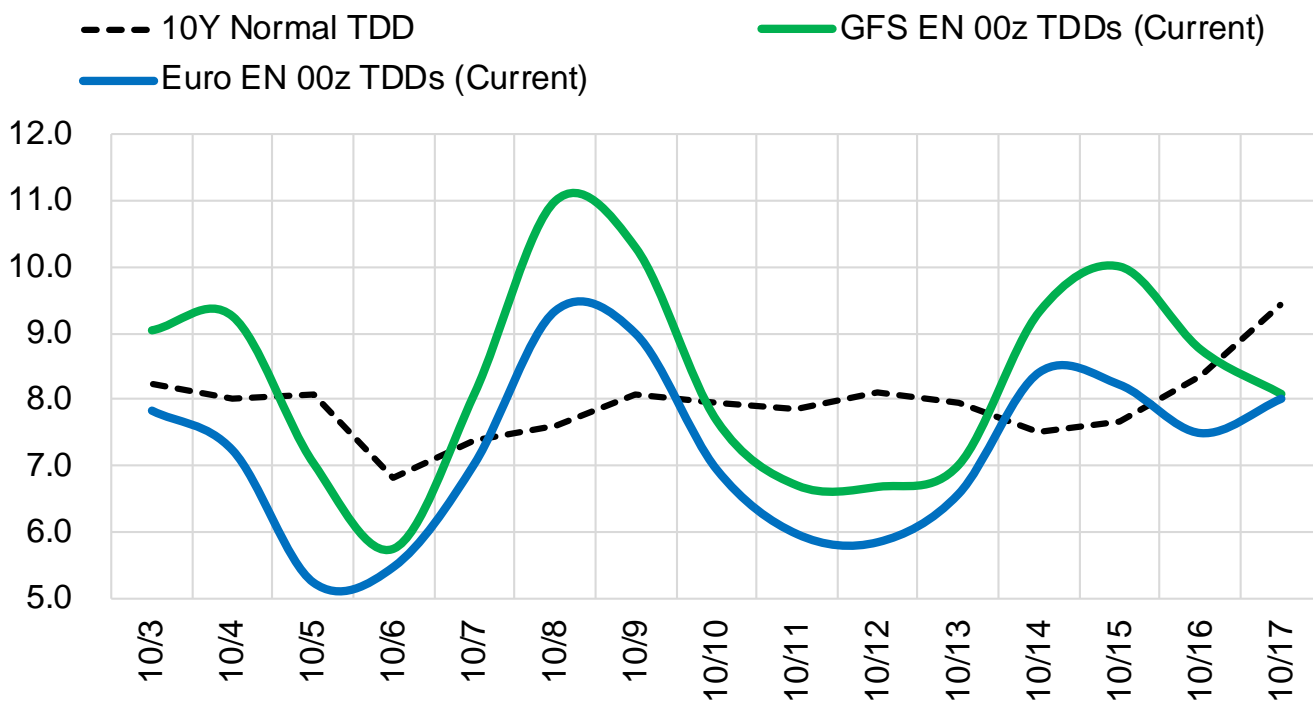
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.1	▼ -0.01	▼ -0.07

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	10.7	▼ -0.47	▼ -1.21

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.3	▼ -0.17	▼ -0.50

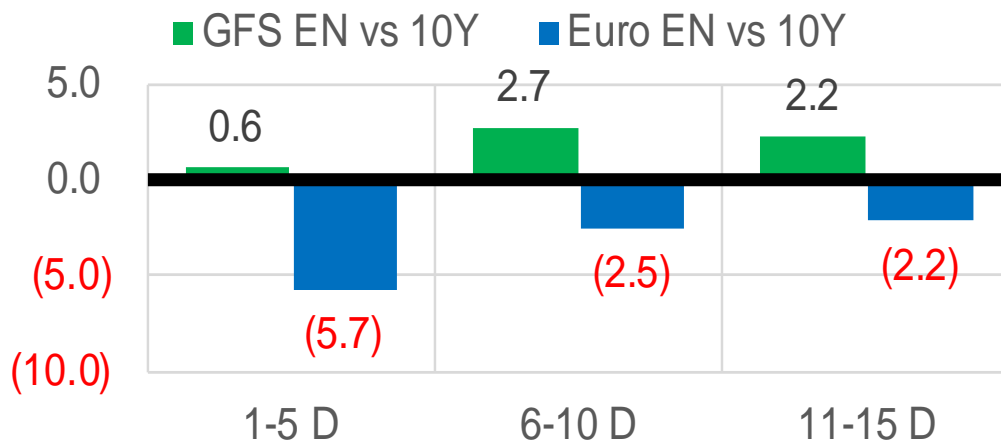
Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal

L48 Region - 00z TDD vs 10Y Normal



Source: WSI , Bloomberg

Lower 48 Component Models

Daily Balances

	27-Sep	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	DoD	vs. 7D
Lower 48 Dry Production	101.3	101.7	102.0	102.1	102.7	103.2	102.6	▼ -0.6	▲ 0.5
Canadian Imports	6.3	6.3	6.1	6.1	6.1	6.1	6.1	▼ 0.0	▼ -0.1
L48 Power	32.0	30.9	30.1	29.6	27.9	28.8	30.0	▲ 1.2	▲ 0.1
L48 Residential & Commercial	12.6	13.8	13.5	13.3	12.5	12.8	12.7	▼ 0.0	▼ -0.4
L48 Industrial	21.1	21.7	22.3	23.1	23.7	24.1	24.2	▲ 0.2	▲ 1.6
L48 Lease and Plant Fuel	5.6	5.6	5.6	5.6	5.7	5.8	5.7	▼ 0.0	▲ 0.1
L48 Pipeline Distribution	2.8	2.8	2.7	2.7	2.5	2.6	2.6	▲ 0.1	▼ 0.0
L48 Regional Gas Consumption	74.0	74.8	74.2	74.2	72.4	74.0	75.3	▲ 1.3	▲ 1.3
Net LNG Delivered	12.35	11.86	12.46	12.46	11.62	11.20	10.73	▼ -0.5	▼ -1.3
Total Mexican Exports	7.1	7.0	7.0	6.9	6.5	6.5	6.3	▼ -0.2	▼ -0.5
Implied Daily Storage Activity	14.2	14.3	14.5	14.6	18.4	17.7	16.4		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	LY 1-Oct	2-Sep	9-Sep	16-Sep	LW 23-Sep	Current 30-Sep	WoW	vs. LY
Lower 48 Dry Production	96.2	100.2	100.9	101.0	100.8	101.5	▲ 0.7	▲ 5.3
Canadian Imports	5.7	5.8	5.9	5.6	6.1	6.2	▲ 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	2.6
L48 Industrial	22.0	21.8	21.4	20.9	21.4	21.1	▼ -0.4	-0.9
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
L48 Regional Gas Consumption	68.9	81.1	78.7	75.1	75.0	72.7	▼ -2.3	▲ 3.8
Net LNG Exports	10.3	10.9	11.3	11.3	11.5	11.8	▲ 0.3	▲ 1.5
Total Mexican Exports	6.6	6.9	6.6	6.7	6.6	6.9	▲ 0.3	▲ 0.2
Implied Daily Storage Activity	16.1	7.2	10.2	13.4	13.9	16.3	2.4	0.2
EIA Reported Daily Storage Activity	16.9	7.7	11.0	14.7	14.7			
Daily Model Error	-0.8	-0.5	-0.8	-1.3	-0.9			

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	101.0	103.0	▲ 1.9	▲ 7.5
Canadian Imports	4.3	5.4	5.7	5.9	5.4	5.9	6.1	▲ 0.2	▲ 0.8
L48 Power	30.6	30.4	38.3	44.3	43.1	36.8	28.4	▼ -8.5	▼ -2.0
L48 Residential & Commercial	15.5	12.6	8.9	8.3	8.0	9.0	12.7	▲ 3.6	▲ 0.1
L48 Industrial	22.7	21.7	19.1	19.8	21.1	21.3	23.9	▲ 2.6	▲ 2.2
L48 Lease and Plant Fuel	4.8	5.3	5.5	5.5	5.5	5.6	5.8	▲ 0.2	▲ 0.4
L48 Pipeline Distribution	2.5	2.7	2.9	3.1	3.0	2.8	2.5	▼ -0.3	▼ -0.1
L48 Regional Gas Consumption	76.1	72.7	74.6	81.0	80.8	75.5	73.2	▼ -2.3	▲ 0.5
Net LNG Exports	8.0	10.6	11.2	10.9	11.0	11.5	11.4	▼ -0.1	▲ 0.8
Total Mexican Exports	6.0	6.6	7.1	7.0	6.9	6.7	6.5	▼ -0.2	▼ -0.2
Implied Daily Storage Activity	2.7	11.0	10.0	4.7	5.8	13.3	18.0		
EIA Reported Daily Storage Activity									
Daily Model Error					0.0				

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	1-Oct	DoD	vs. 7D
NRC Nuclear Daily Output	85.9	84.7	84.6	84.1	84.1	81.5	81.5	0.0	-2.6
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	19.0	20.2	20.2	20.7	20.7	23.3	23.3	0.0	2.6
NRC % Nuclear Cap Utilization	87.3	86.1	86.1	85.6	85.6	82.9	82.9	0.0	-2.7

Wind Generation Daily Average - MWh (EIA)

	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	1-Oct	DoD	vs. 7D
CALI Wind	1065	1193	1632	1827	1549	1449	1808	359	356
TEXAS Wind	8447	6870	8099	7871	6937	8028	8626	598	917
US Wind	46820	35542	34935	39654	34157	34600	39725	5125	2107

Generation Daily Average - MWh (EIA)

	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	1-Oct	DoD	vs. 7D
US Wind	46820	35542	34935	39654	34157	34600	39725	5125	2107
US Solar	15758	17172	15575	14633	13776	14185	15433	1248	250
US Petroleum	293	317	340	338	284	512	478	-34	131
US Other	9868	12207	12128	11508	10100	9953	10174	221	-786
US Coal	72655	80640	78597	76197	54443	54357	68217	13859	-1265
US Nuke	89132	85571	85543	84450	71198	88530	83105	-5425	-965
US Hydro	21855	24443	24474	23452	22353	23679	19766	-3913	-3610
US Gas	167758	186109	174836	167831	143486	152597	140667	-11930	-24769

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	85.5	-1.3	0.2
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	19.4	1.3	
NRC % Nuclear Cap Utilization	86.5	91.2	88.9	87.4	88.2	86.9	-1.3	

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	38901	-9046	1.7
							-19%	
							-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	38901			-9046	1.7
US Solar	12968	17072	16144	14887	17243	16118			-1125	0.2
US Petroleum	458	1075	1105	1029	1010	379			-632	0.1
US Other	8725	10580	9950	9950	10826	10876			50	0.0
US Coal	94602	113005	105981	91209	92461	74641			-17820	3.3
US Nuke	88422	92018	89638	88711	89298	85052			-4246	0.8
US Hydro	25385	27850	27950	25849	23537	22829			-708	0.1
US Gas	156149	232735	227619	201216	197532	168809			-28722	-5.4

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				Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22			
NRC Nuclear Daily Output	87.7	86.5	90.6	90.5	86.3	81.5	85.7	-4.8	-0.9
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	17.2	18.3	14.3	14.3	18.5	23.3	19.2	4.8	0.9
NRC % Nuclear Cap Utilization	89.1	88.0	92.1	92.1	87.8	82.9	87.1	-4.9	-0.9

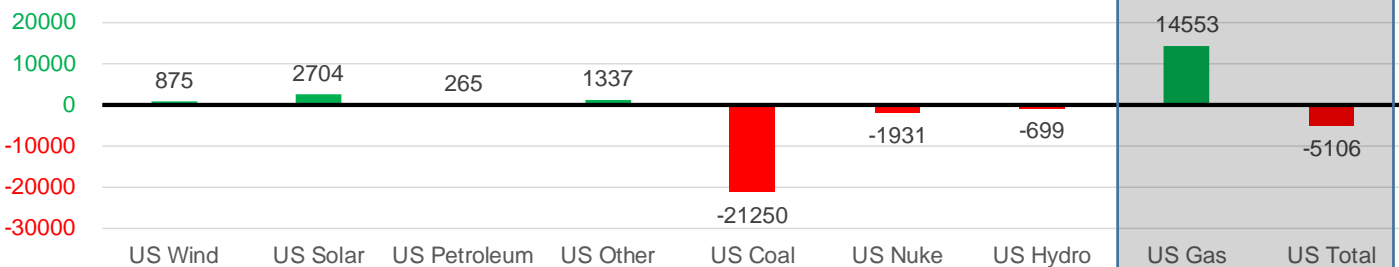
Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD				Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22			
CALI Wind	1288	1787	2719	2028	1608	1808	1606	199	-181
TEXAS Wind	7264	8474	11765	8440	7993	8626	8468	633	-6
US Wind	31815	37575	39701	33222	37338	39725	38450	2387	875

Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD				Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22			
US Wind	31815	37575	39701	33222	37338	39725	38450	▼-1274.7	▲ 875
US Solar	9157	13245	18598	16962	16021	15433	15949	▲ 515.8	▲ 2704
US Petroleum	1015	557	1252	1253	864	478	822	▲ 344	▲ 265
US Other	8303	9058	10128	10426	10369	10174	10395	▲ 220	▲ 1337
US Coal	88438	107658	119788	117200	90642	68217	86408	▲ 18192	▼-21250
US Nuke	90774	89490	92883	92976	88293	83105	87559	▲ 4454	▼-1931
US Hydro	26228	25135	34227	30121	25102	19766	24436	▲ 4670	▼-699
US Gas	175258	175053	235766	233741	198652	140667	189606	▲ 27120	▲ 14553
US Total	429183	457901	551821	535671	465899	382355	452796	▲ 55515	▼-5106

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

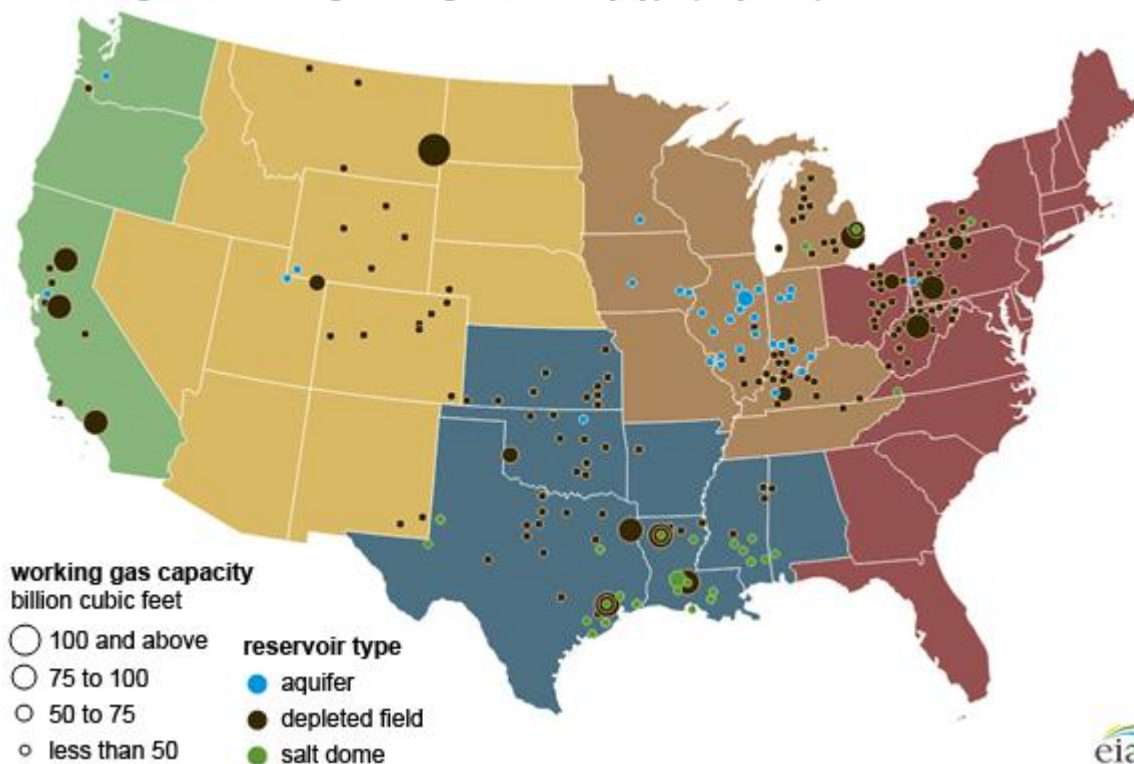
Regional S/D Models Storage Projection

Week Ending 30-Sep

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	17.4	-0.2	17.2	120
East	2.1	2.1	4.2	29
Midwest	4.1	0.1	4.2	30
Mountain	5.5	-4.2	1.3	9
South Central	4.9	2.0	7.0	49
Pacific	0.8	-0.3	0.5	3

*Adjustment Factor is calculated based on historical regional deltas

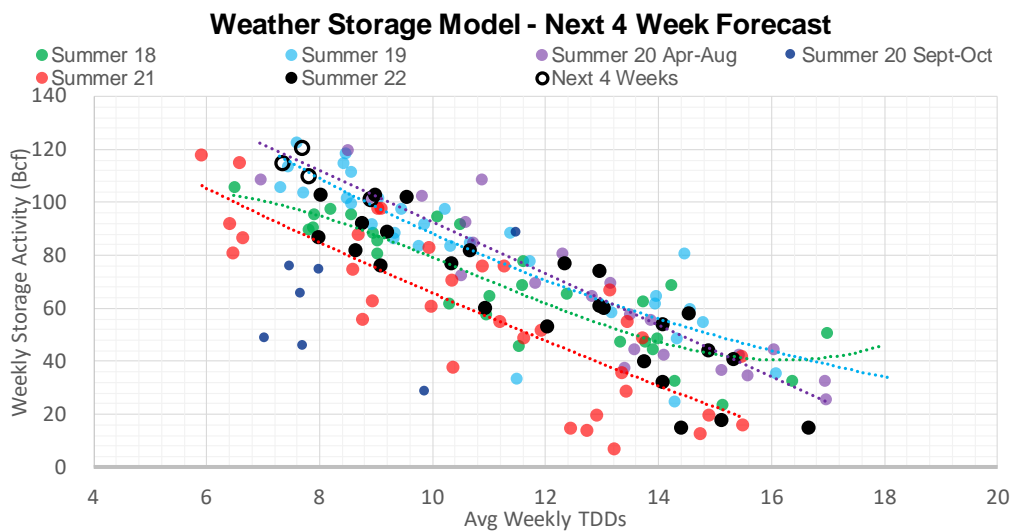
U.S. underground natural gas storage facilities by type (July 2015)



Weather Model Storage Projection

Next report
and beyond

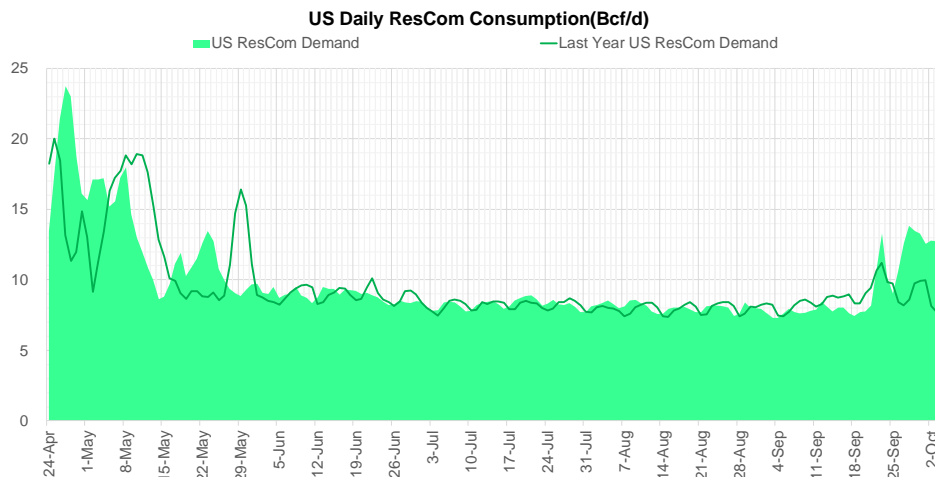
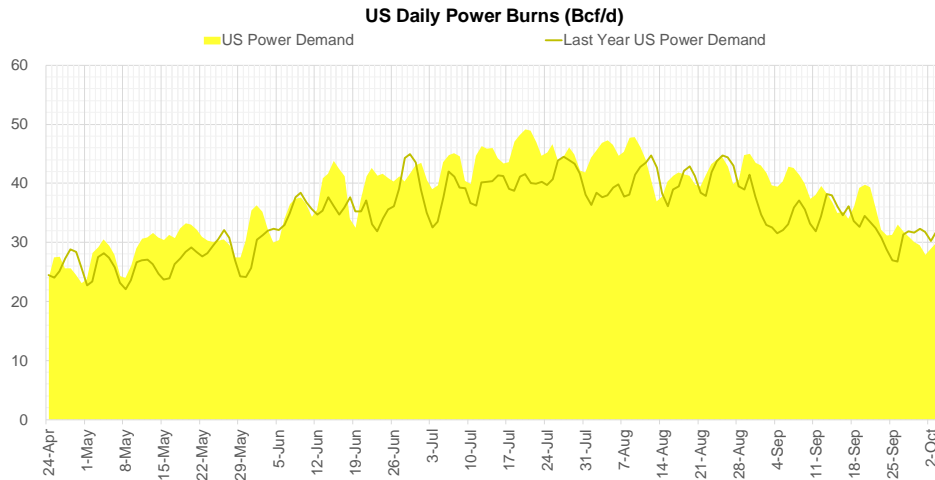
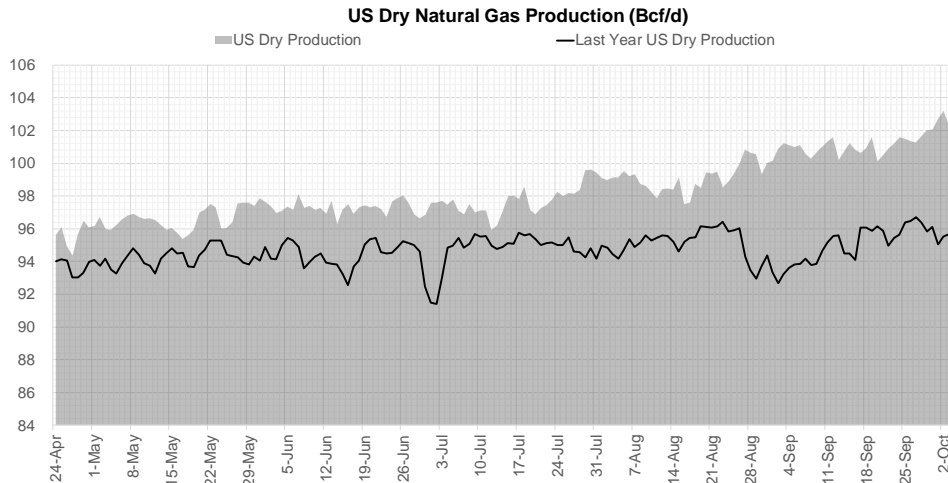
Week Ending	GWDDs	Week Storage Projection
30-Sep	7.7	120
07-Oct	7.4	115
14-Oct	7.8	110
21-Oct	8.9	101



[Go to larger image](#)



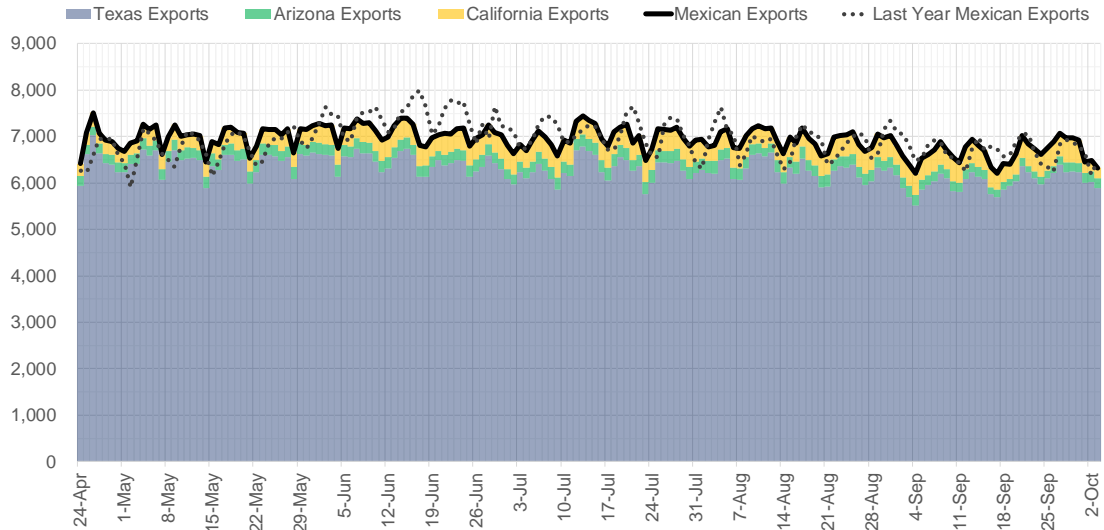
Supply – Demand Trends



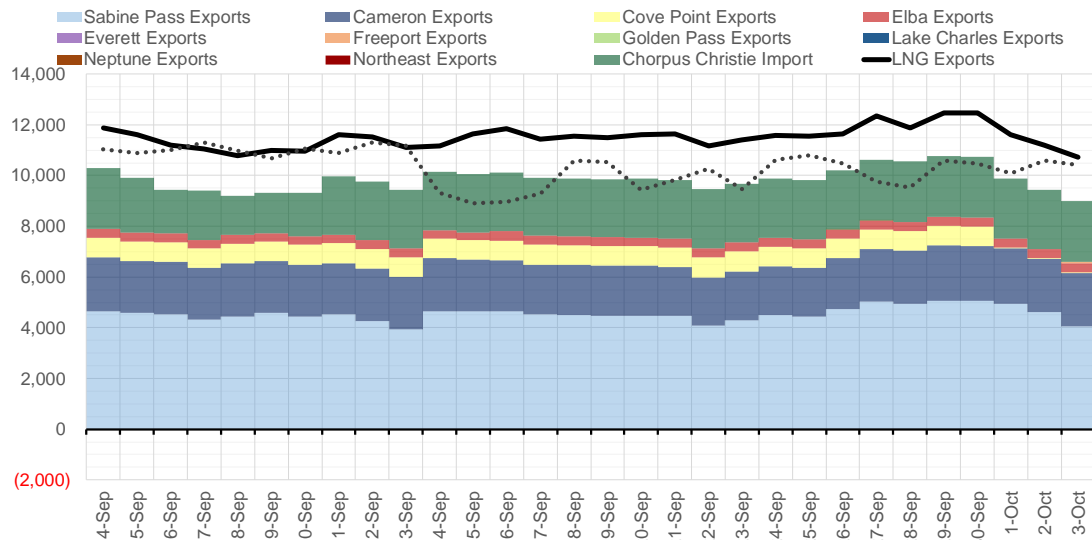
Source: Bloomberg

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	3157	3	2023	C	10.00	25887
12	2022	C	10.00	2427	12	2022	P	4.00	24937
11	2022	C	8.75	2145	11	2022	P	4.00	24509
4	2023	P	4.00	2025	12	2022	P	5.00	23770
5	2023	P	4.00	2025	12	2022	P	6.00	22704
6	2023	P	4.00	2025	5	2023	P	2.00	22377
7	2023	P	4.00	2025	11	2022	P	5.00	21410
8	2023	P	4.00	2025	4	2023	P	3.00	20561
9	2023	P	4.00	2025	10	2023	P	3.00	19459
10	2023	P	4.00	2025	3	2023	P	4.00	19280
11	2022	P	4.00	2003	3	2023	C	20.00	19067
4	2023	P	3.00	1975	4	2023	P	3.50	18516
11	2022	C	11.00	1807	10	2023	P	2.50	18475
11	2022	C	9.50	1671	12	2022	C	5.00	18227
3	2023	C	12.00	1504	1	2023	C	10.00	18011
1	2023	P	2.75	1501	3	2023	P	3.00	17856
12	2022	C	8.75	1500	2	2023	C	10.00	17604
2	2023	P	2.75	1500	5	2023	P	3.00	17448
3	2023	P	2.75	1500	1	2023	P	4.00	17396
1	2023	C	8.00	1483	6	2023	P	3.00	17370
11	2022	C	7.50	1470	5	2023	P	3.50	17165
11	2022	C	8.50	1421	1	2023	P	5.00	16692
5	2023	P	4.50	1350	12	2022	P	5.50	16664
12	2022	C	8.00	1323	11	2022	C	12.00	16664
1	2023	P	4.25	1250	12	2022	C	10.00	16568
2	2023	P	4.25	1250	11	2022	C	10.00	16513
3	2023	C	7.50	1250	10	2023	P	4.00	16456
3	2023	P	4.25	1250	6	2023	P	3.50	16290
4	2023	P	4.50	1250	7	2023	P	3.50	16265
6	2023	P	4.50	1250	8	2023	P	3.50	16265
7	2023	P	4.50	1250	9	2023	P	3.50	16255
8	2023	P	4.50	1250	10	2023	P	3.50	16230
9	2023	P	4.50	1250	12	2022	C	4.00	16194
10	2023	P	4.50	1250	7	2023	P	3.00	15875
4	2023	P	2.00	1175	11	2022	P	6.00	15809
11	2022	C	7.00	1069	10	2023	P	2.00	15785
11	2022	P	5.00	1049	11	2022	C	4.00	15755
11	2022	P	3.75	1000	8	2023	P	3.00	15675
11	2022	P	6.00	975	9	2023	P	3.00	15675
5	2023	P	2.75	975	2	2023	C	9.00	15277
1	2023	C	7.50	915	4	2023	P	4.00	15233
11	2022	C	9.00	840	11	2022	C	8.00	15009
3	2023	P	4.50	800	9	2023	P	4.00	14936
4	2023	P	2.75	775	12	2022	P	7.00	14877
6	2023	P	2.75	775	7	2023	P	4.00	14479
7	2023	P	2.75	775	5	2023	P	4.00	14028
8	2023	P	2.75	775	11	2022	P	7.00	13979
9	2023	P	2.75	775	4	2023	P	2.00	13763
10	2023	P	2.75	775	12	2022	C	6.00	13731
					2	2023	C	20	13654

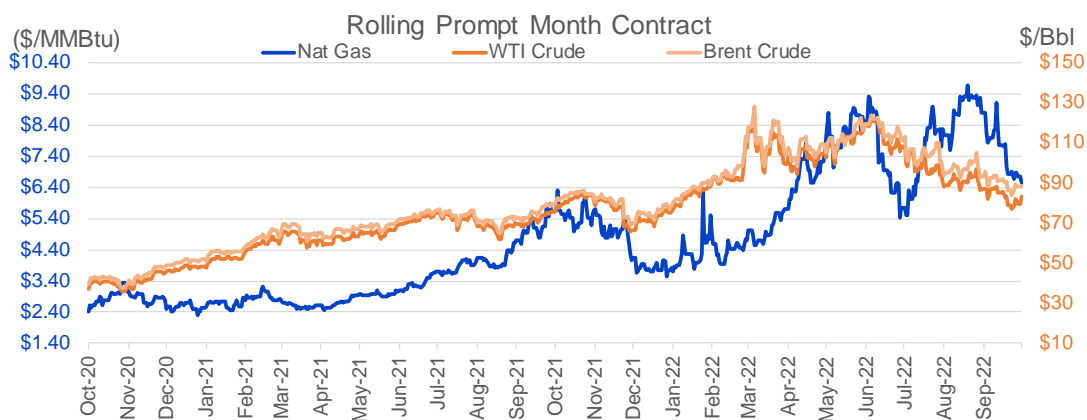
Source: CME, ICE

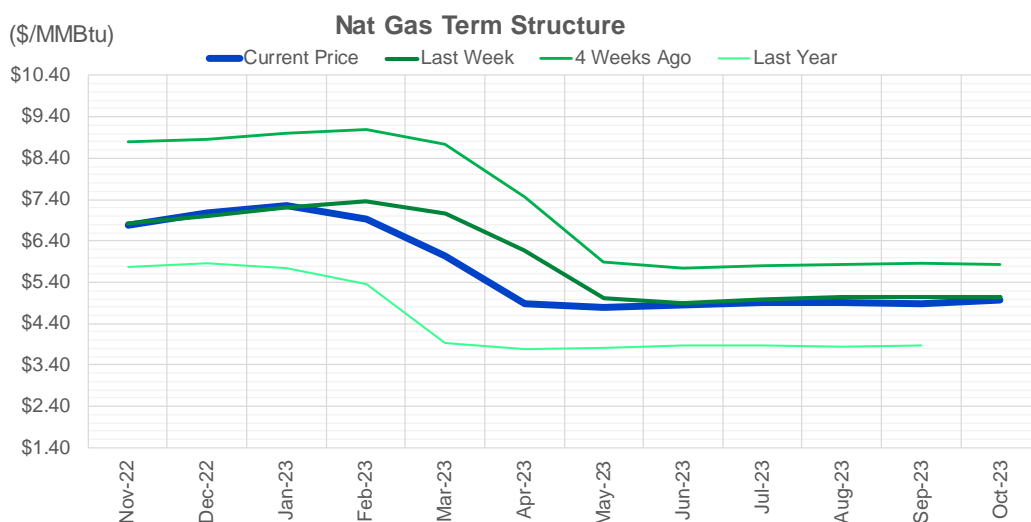
Nat Gas Futures Open Interest

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	159177	162739	-3562	NOV 22	72253	72484	-231
DEC 22	66853	66308	545	DEC 22	71853	71913	-60
JAN 23	92055	90455	1600	JAN 23	69761	68420	1341
FEB 23	44972	43117	1855	FEB 23	64678	64274	404
MAR 23	72440	72231	209	MAR 23	56695	56846	-151
APR 23	76555	77872	-1317	APR 23	54583	54206	377
MAY 23	82388	82682	-294	MAY 23	54688	54146	542
JUN 23	23199	23025	174	JUN 23	45634	45017	617
JUL 23	25706	25224	482	JUL 23	45405	44662	743
AUG 23	20177	20217	-40	AUG 23	44355	43716	639
SEP 23	22849	22848	1	SEP 23	41619	41122	497
OCT 23	54992	53537	1455	OCT 23	54855	54317	538
NOV 23	19441	21418	-1977	NOV 23	47670	47465	205
DEC 23	15112	16450	-1338	DEC 23	40562	40380	183
JAN 24	25557	25160	397	JAN 24	43646	43452	194
FEB 24	9601	9643	-42	FEB 24	31202	31125	77
MAR 24	19069	19103	-34	MAR 24	36716	36759	-43
APR 24	16215	16277	-62	APR 24	29674	29631	43
MAY 24	8027	7854	173	MAY 24	28195	28128	67
JUN 24	2697	2741	-44	JUN 24	25509	25420	90
JUL 24	3685	3679	6	JUL 24	25086	25012	74
AUG 24	3704	3703	1	AUG 24	24787	24705	82
SEP 24	2293	2293	0	SEP 24	24519	24454	65
OCT 24	9103	9104	-1	OCT 24	28511	28437	73
NOV 24	4982	4982	0	NOV 24	25932	25897	35
DEC 24	8251	8266	-15	DEC 24	29291	29237	55
JAN 25	17398	17398	0	JAN 25	23946	23901	45
FEB 25	1624	1588	36	FEB 25	15902	15909	-8
MAR 25	5209	5211	-2	MAR 25	18050	18036	15
APR 25	5171	5056	115	APR 25	16496	16482	14

Source: CME, ICE





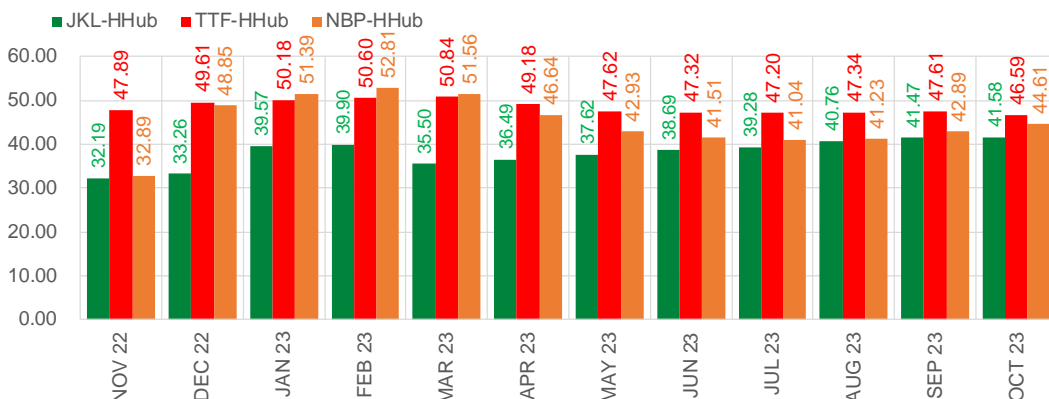
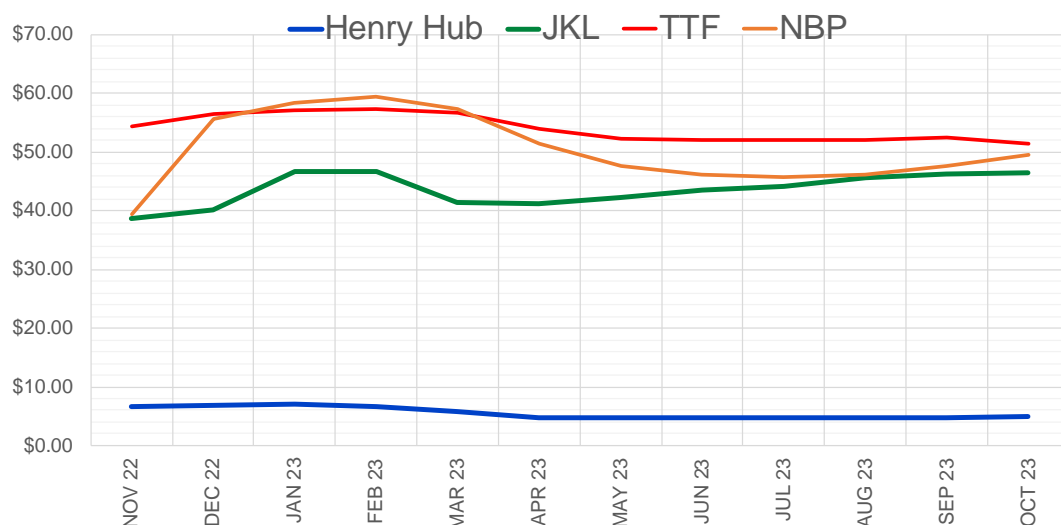
	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
Current Price	\$6.766	\$7.065	\$7.247	\$6.937	\$6.028	\$4.887	\$4.784	\$4.848	\$4.914	\$4.924	\$4.894	\$4.965
Last Week	\$6.828	\$6.992	\$7.203	\$7.366	\$7.054	\$6.174	\$5.021	\$4.911	\$4.977	\$5.045	\$5.056	\$5.031
vs. Last Week	-\$0.062	\$0.073	\$0.044	-\$0.429	-\$1.026	-\$1.287	-\$0.237	-\$0.063	-\$0.063	-\$0.121	-\$0.162	-\$0.066
4 Weeks Ago	\$8.786	\$8.850	\$8.997	\$9.078	\$8.731	\$7.456	\$5.890	\$5.733	\$5.786	\$5.842	\$5.856	\$5.842
vs. 4 Weeks Ago	-\$2.020	-\$1.785	-\$1.750	-\$2.141	-\$2.703	-\$2.569	-\$1.106	-\$0.885	-\$0.872	-\$0.918	-\$0.962	-\$0.877
Last Year	\$5.619	\$5.763	\$5.853	\$5.742	\$5.367	\$3.940	\$3.787	\$3.820	\$3.861	\$3.869	\$3.851	\$3.880
vs. Last Year	\$1.147	\$1.302	\$1.394	\$1.195	\$0.661	\$0.947	\$0.997	\$1.028	\$1.053	\$1.055	\$1.043	\$1.085

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	5.25	5.56	0.31
TETCO M3	\$/MMBtu	4.17	5.01	0.84
FGT Zone 3	\$/MMBtu	4.13	7.36	3.23
Zone 6 NY	\$/MMBtu	4.13	4.97	0.84
Chicago Citygate	\$/MMBtu	4.58	5.90	1.32
Michcon	\$/MMBtu	4.47	5.81	1.34
Columbia TCO Pool	\$/MMBtu	4.15	5.17	1.02
Ventura	\$/MMBtu	4.33	5.85	1.52
Rockies/Opal	\$/MMBtu	4.50	5.75	1.25
El Paso Permian Basin	\$/MMBtu	3.32	4.10	0.78
Socal Citygate	\$/MMBtu	5.16	6.40	1.24
Malin	\$/MMBtu	4.88	6.05	1.17
Houston Ship Channel	\$/MMBtu	4.42	5.82	1.40
Henry Hub Cash	\$/MMBtu	6.40	5.68	-0.72
AECO Cash	C\$/GJ	3.18	2.53	-0.65
Station2 Cash	C\$/GJ	0.41	5.97	5.56
Dawn Cash	C\$/GJ	4.45	5.99	1.54

Source: CME, Bloomberg

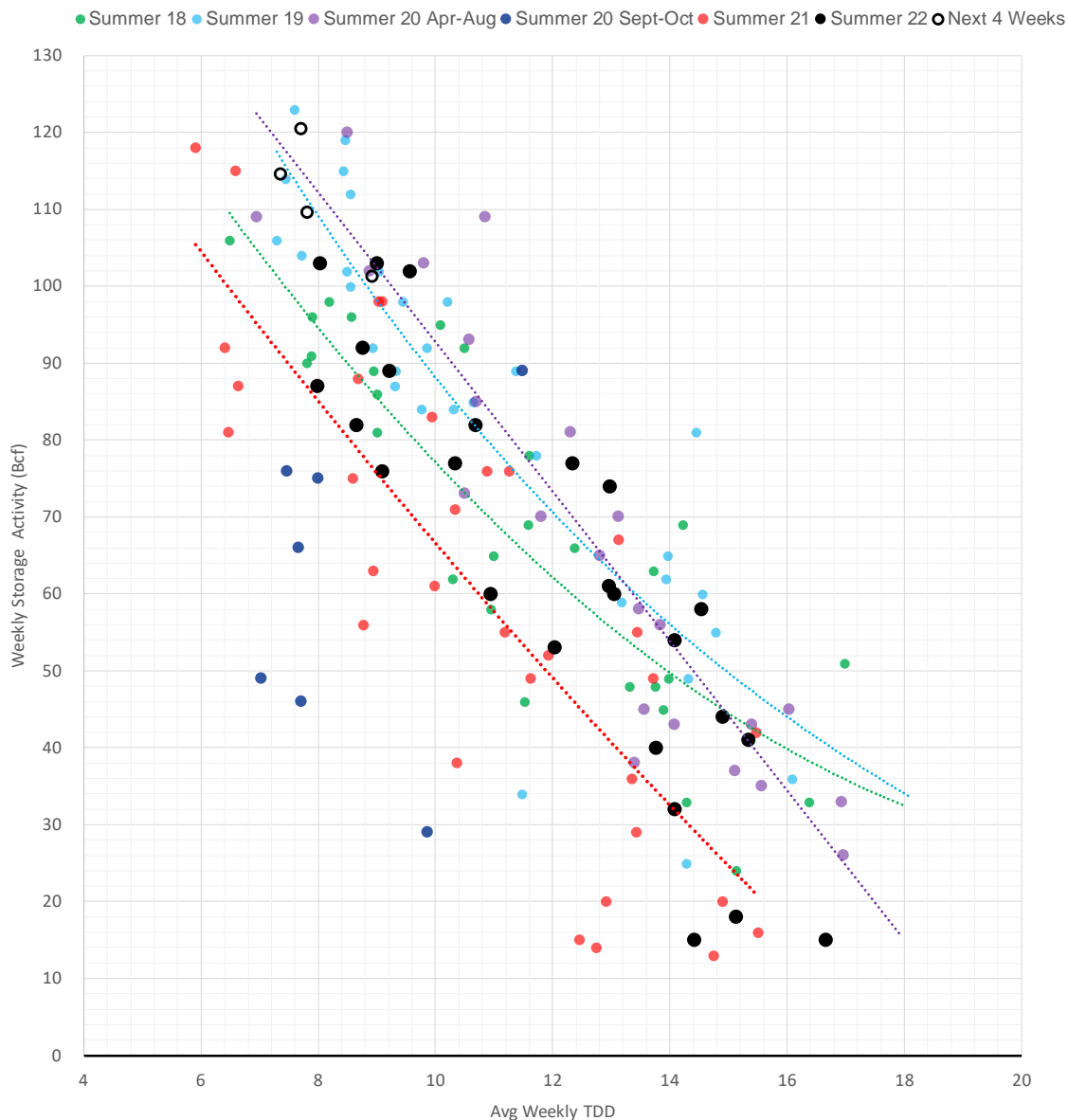
	Units	Current Price	vs. 4 Weeks			
			vs. Last Week	Ago	vs. Last Year	
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 0.000	
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.583	
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -1.829	
NatGas Apr22/Oct22	\$/MMBtu	1.532	▲ 0.040	▼ -1.918	▲ 1.592	
WTI Crude	\$/Bbl	79.49	▲ 0.750	▼ -7.380	▲ 3.610	
Brent Crude	\$/Bbl	87.96	▲ 1.810	▼ -5.060	▲ 8.680	
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000	
Heating Oil	cents/Gallon	336.90	▲ 13.190	▼ -20.900	▲ 98.630	
Propane, Mt. Bel	cents/Gallon	0.99	▼ -0.002	▼ -0.089	▼ -0.496	
Ethane, Mt. Bel	cents/Gallon	0.46	▼ -0.002	▼ -0.102	▲ 0.038	
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				

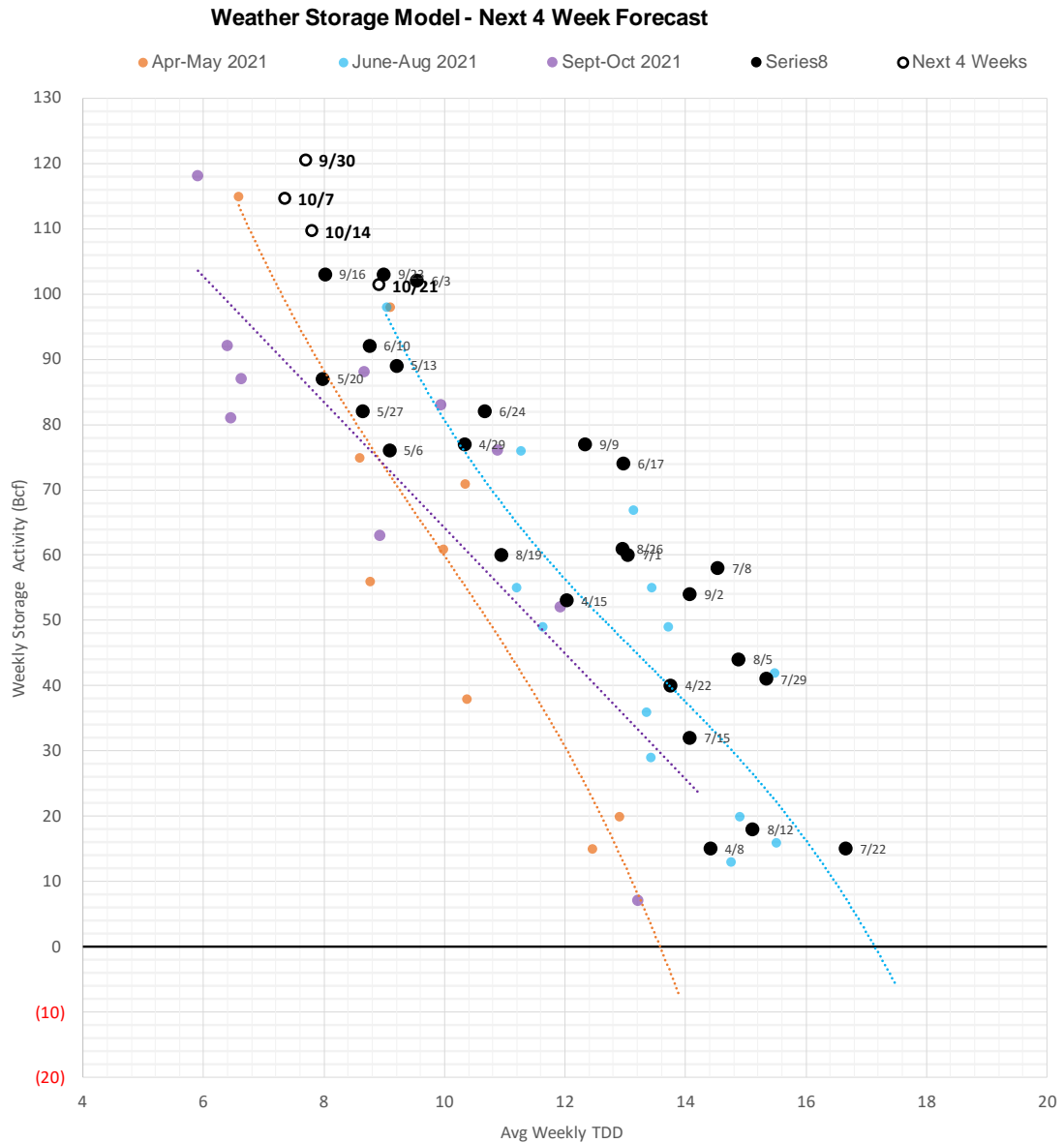
Nat Gas Term Structure (\$MMBTU)



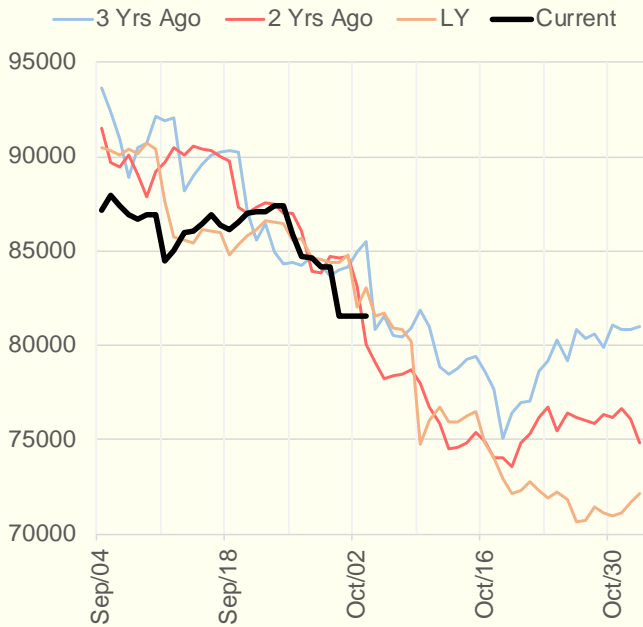
	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23
Henry Hub	\$6.539	\$6.844	\$7.023	\$6.690	\$5.865	\$4.791	\$4.691	\$4.752	\$4.808	\$4.832	\$4.807	\$4.875
JKL	\$38.725	\$40.105	\$46.590	\$46.585	\$41.365	\$41.285	\$42.315	\$43.440	\$44.090	\$45.595	\$46.275	\$46.450
JKL-HHub	\$32.186	\$33.261	\$39.567	\$39.895	\$35.500	\$36.494	\$37.624	\$38.688	\$39.282	\$40.763	\$41.468	\$41.575
TTF	\$54.425	\$56.456	\$57.198	\$57.286	\$56.703	\$53.971	\$52.314	\$52.067	\$52.005	\$52.169	\$52.418	\$51.468
TTF-HHub	\$47.886	\$49.612	\$50.175	\$50.596	\$50.838	\$49.180	\$47.623	\$47.315	\$47.197	\$47.337	\$47.611	\$46.593
NBP	\$39.425	\$55.691	\$58.414	\$59.504	\$57.421	\$51.426	\$47.619	\$46.265	\$45.845	\$46.058	\$47.693	\$49.485
NBP-HHub	\$32.886	\$48.847	\$51.391	\$52.814	\$51.556	\$46.635	\$42.928	\$41.513	\$41.037	\$41.226	\$42.886	\$44.610

Weather Storage Model - Next 4 Week Forecast

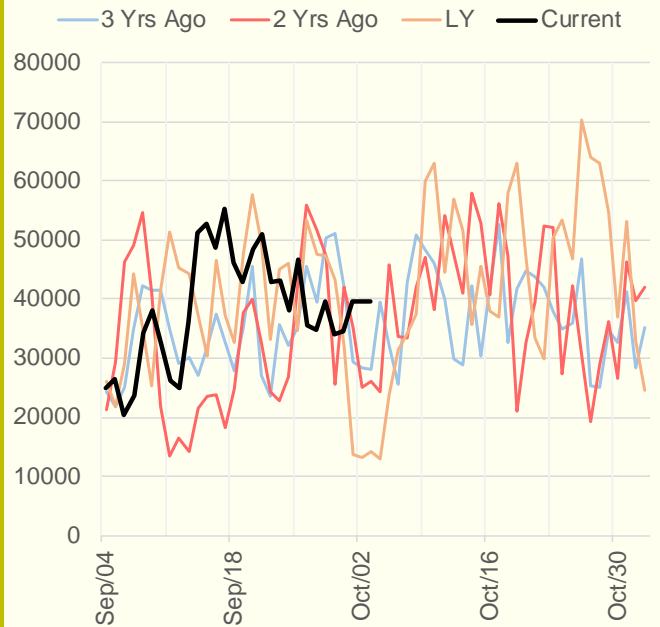




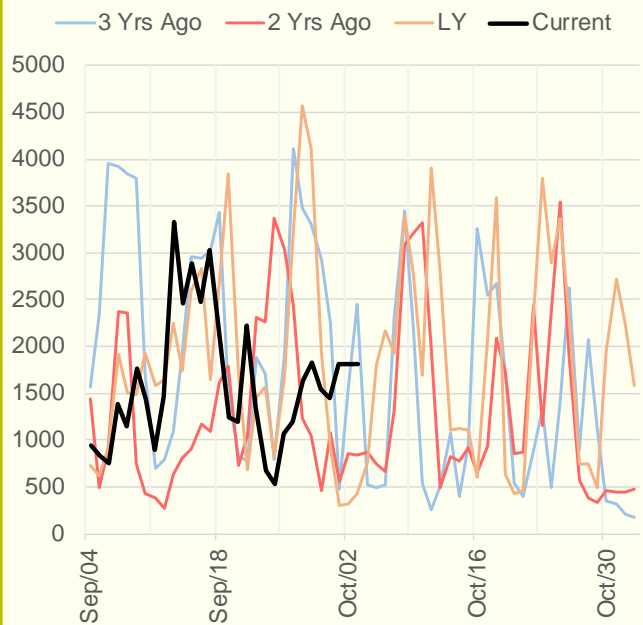
NRC Nuclear Daily Output



US Wind



CALI Wind



TEXAS Wind

