

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 9.08	▼ \$ (0.05)	▼ \$ (0.18)

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 88.25	▼ \$ (1.30)	▼ \$ (4.6)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 94.18	▼ \$ (2.31)	▼ \$ (6.3)

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[Lower 48 Component Models](#)

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[Weather Model Storage Projection](#)

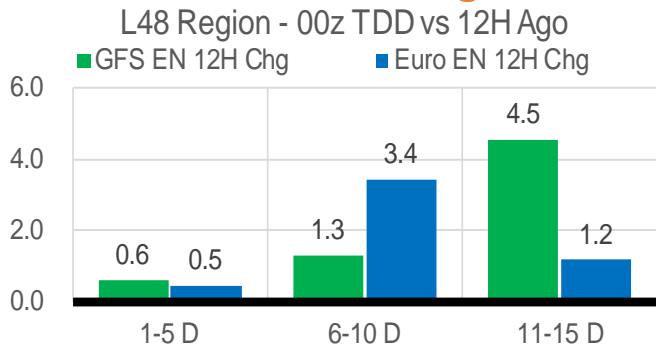
[Supply – Demand Trends](#)

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

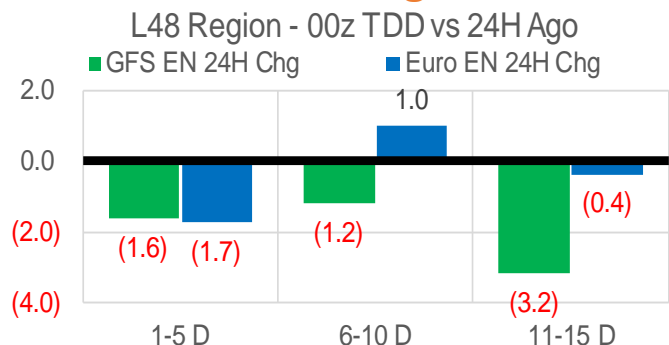
[Nat Gas Futures Open Interest](#)

[Price Summary](#)

Vs. 12H Ago



Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	98.9	▼ -0.71	▼ -0.85

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	40.3	▼ -1.99	▼ -2.09

	Current	Δ from YD	Δ from 7D Avg
US ResComm	8.5	▼ -0.09	▲ 0.23

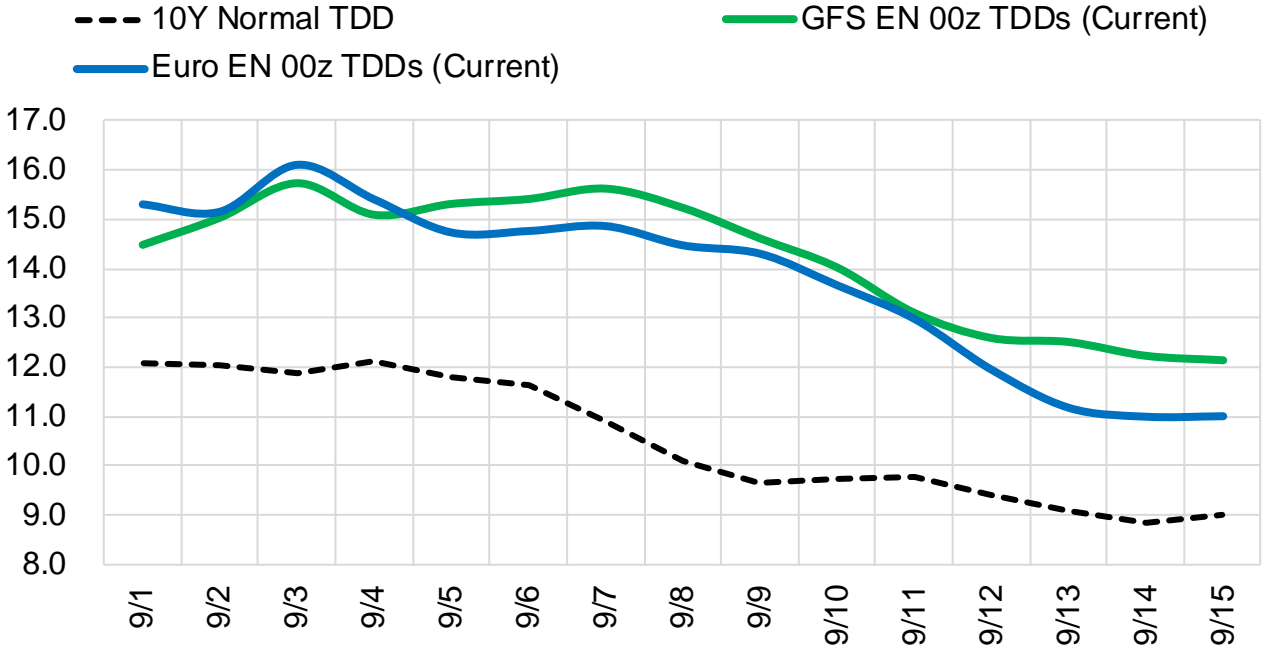
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.0	▲ 0.21	▲ 0.22

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.1	▼ -0.06	▲ 0.08

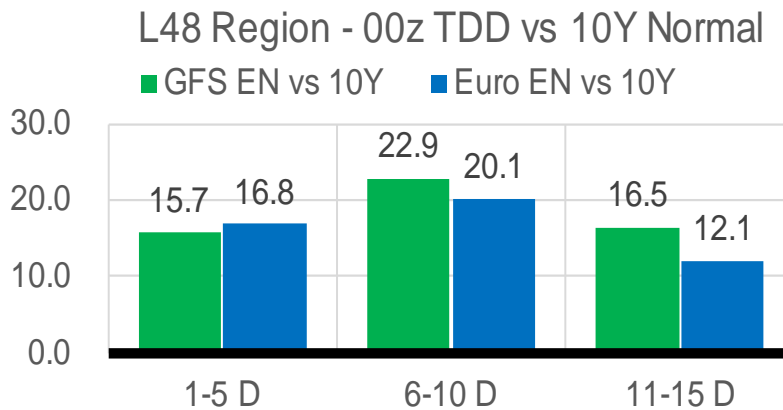
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.5	▼ -0.35	▼ -0.34

Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal



Source: WSI , Bloomberg

Lower 48 Component Models

Daily Balances

	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep	DoD	vs. 7D
Lower 48 Dry Production	99.6	100.4	100.3	100.2	99.0	99.6	98.9	▼ -0.7	▼ -1.0
Canadian Imports	5.8	5.5	5.5	5.9	6.1	5.7	6.0	▲ 0.2	▲ 0.2
L48 Power	42.5	39.8	40.4	43.8	43.9	42.3	40.3	▼ -2.0	▼ -1.8
L48 Residential & Commercial	8.2	7.6	7.7	8.5	8.6	8.6	8.5	▼ -0.1	▲ 0.3
L48 Industrial	21.4	21.8	22.0	22.3	22.4	22.4	21.7	▼ -0.6	▼ -0.3
L48 Lease and Plant Fuel	5.4	5.5	5.5	5.4	5.4	5.4	5.3	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	2.7	2.5	2.6	2.8	2.8	2.7	2.7	▲ 0.0	▲ 0.0
L48 Regional Gas Consumption	80.3	77.2	78.2	82.9	83.0	81.3	78.5	▼ -2.8	▼ -2.0
Net LNG Delivered	10.71	11.62	10.95	10.52	10.77	11.19	11.13	▼ -0.1	▲ 0.2
Total Mexican Exports	7.0	6.6	6.7	6.9	6.9	6.9	6.5	▼ -0.4	▼ -0.3
Implied Daily Storage Activity	7.4	10.5	10.0	5.7	4.4	5.9	8.6		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	vs. 4W
Lower 48 Dry Production	97.2	97.5	98.8	98.3	97.8	98.6	▲ 0.8	▲ 0.5
Canadian Imports	6.2	5.9	5.7	5.4	4.8	5.4	▲ 0.6	▼ 0.0
L48 Power	45.9	45.2	44.5	45.8	39.8	41.6	▲ 1.8	▼ -2.2
L48 Residential & Commercial	9.4	9.1	8.6	8.6	8.1	8.2	▲ 0.1	▼ -0.4
L48 Industrial	20.0	18.6	20.0	21.0	21.1	20.8	▼ -0.3	▲ 0.7
L48 Lease and Plant Fuel	5.3	5.3	5.4	5.3	5.3	5.4	▲ 0.0	▲ 0.0
L48 Pipeline Distribution	2.9	2.9	2.8	2.9	2.5	2.6	▲ 0.1	▼ -0.1
L48 Regional Gas Consumption	83.5	81.0	81.2	83.6	76.8	78.6	▲ 1.8	▼ -2.0
Net LNG Exports	10.8	10.7	10.9	10.9	10.9	11.1	▲ 0.2	▲ 0.3
Total Mexican Exports	7.1	6.9	6.9	7.0	7.0	6.9	▼ -0.1	▼ -0.1
Implied Daily Storage Activity	2.0	4.8	5.4	2.3	7.9	7.4	-0.5	
EIA Reported Daily Storage Activity	2.1	5.9	6.3	2.6	8.6			
Daily Model Error	-0.2	-1.1	-0.9	-0.3	-0.6			

Monthly Balances

	2Yr Ago Sep-20	LY Sep-21	Apr-22	May-22	Jun-22	Jul-22	MTD Aug-22	MoM	vs. LY
Lower 48 Dry Production	88.9	93.6	95.1	95.8	96.5	97.2	98.6	▲ 1.5	▲ 5.1
Canadian Imports	3.8	5.1	5.8	5.1	5.7	5.9	5.4	▼ -0.5	▲ 0.2
L48 Power	34.4	33.1	25.1	29.8	38.1	44.1	42.8	▼ -1.3	▲ 9.6
L48 Residential & Commercial	8.9	8.7	22.2	12.4	9.1	9.0	8.3	▼ -0.7	▼ -0.4
L48 Industrial	19.9	20.3	20.3	19.7	18.7	19.0	21.1	▲ 2.1	▲ 0.8
L48 Lease and Plant Fuel	4.8	5.1	5.2	5.3	5.3	5.3	5.4	▲ 0.1	▲ 0.3
L48 Pipeline Distribution	2.4	2.3	2.6	2.4	2.5	2.8	2.7	▼ -0.1	▲ 0.4
L48 Regional Gas Consumption	70.4	69.5	75.4	69.5	73.7	80.2	80.3	▲ 0.1	▲ 10.7
Net LNG Exports	5.9	10.3	12.3	12.5	11.2	10.9	11.0	▲ 0.0	▲ 0.6
Total Mexican Exports	6.1	6.7	6.7	7.0	7.1	7.0	6.9	▼ -0.1	▲ 0.2
Implied Daily Storage Activity	10.2	12.1	6.5	11.9	10.2	4.9	5.8		
EIA Reported Daily Storage Activity									
Daily Model Error									

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	DoD	vs. 7D
NRC Nuclear Daily Output	90.9	90.9	91.0	90.4	90.4	88.1	89.3	1.3	-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	14.0	14.0	13.9	14.5	14.5	16.8	15.5	-1.3	0.9
NRC % Nuclear Cap Utilization	92.4	92.4	92.5	91.9	91.9	89.6	90.8	1.3	-1.0

Wind Generation Daily Average - MWh (EIA)

	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	DoD	vs. 7D
CALI Wind	1516	1912	2283	2667	2008	1290	1383	94	-563
TEXAS Wind	3215	2240	3799	9831	13304	10087	4912	-5175	-2167
US Wind	17752	16857	28825	50732	55483	42928	25993	-16935	-9437

Generation Daily Average - MWh (EIA)

	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	DoD	vs. 7D
US Wind	17752	16857	28825	50732	55483	42928	25993	-16935	-9437
US Solar	15824	15307	16799	17889	16955	16785	16097	-687	-495
US Petroleum	1042	1096	1025	1019	1023	1393	1198	-195	98
US Other	10584	10453	10483	10409	10320	10843	10711	-131	196
US Coal	119486	119850	114606	104565	105634	116275	119131	2856	5729
US Nuke	93101	93476	93293	92962	92031	91214	91492	277	-1188
US Hydro	31357	32277	30710	25715	25431	28803	27963	-840	-1086
US Gas	237574	242422	237256	206192	203260	240792	247454	6663	19539

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Storage Week Average Generation Data

Nuclear Generation Weekly Average - GWh (NRC)

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	90.5	90.1	90.6	90.7	91.2	90.3	-0.9	0.2
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	14.4	14.8	14.3	14.1	13.7	14.5	0.9	
NRC % Nuclear Cap Utilization	92.0	91.6	92.1	92.3	92.8	91.9	-0.9	

Wind Generation Weekly Average - MWh (EIA)

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	WoW Bcf/d Impact
CALI Wind	2470	3049	1933	1901	1953	2324	371	-0.1
TEXAS Wind	11182	14533	14443	8762	7139	5879	-1260	0.2
US Wind	40505	44003	43887	32976	28474	23568	-4905	0.9
							-17%	
							-0.2	

Generation Weekly Average - MWh (EIA)

	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	WoW	WoW Bcf/d Impact
						est.		
US Wind	40505	44003	43887	32976	28474	23568	-4905	0.9
US Solar	18727	18098	17577	17568	16951	15788	-1163	0.2
US Petroleum	1707	1465	1131	1737	1045	1047	2	0.0
US Other	10492	10690	10470	10725	9882	10276	394	-0.1
US Coal	121563	128742	122297	122575	112824	114385	1561	-0.3
US Nuke	92543	92281	92607	92966	94032	92872	-1160	0.2
US Hydro	33645	32210	31339	30400	30431	30474	44	0.0
US Gas	249151	238167	236187	252451	218061	226526	8465	1.5

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	90.8	91.5	81.7	88.5	90.6	90.5	90.5	-0.1	-1.0
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	14.1	13.4	23.2	16.3	14.3	14.3	14.4	0.1	1.0
NRC % Nuclear Cap Utilization	92.4	93.1	83.0	90.0	92.1	92.1	92.0	-0.1	-1.0

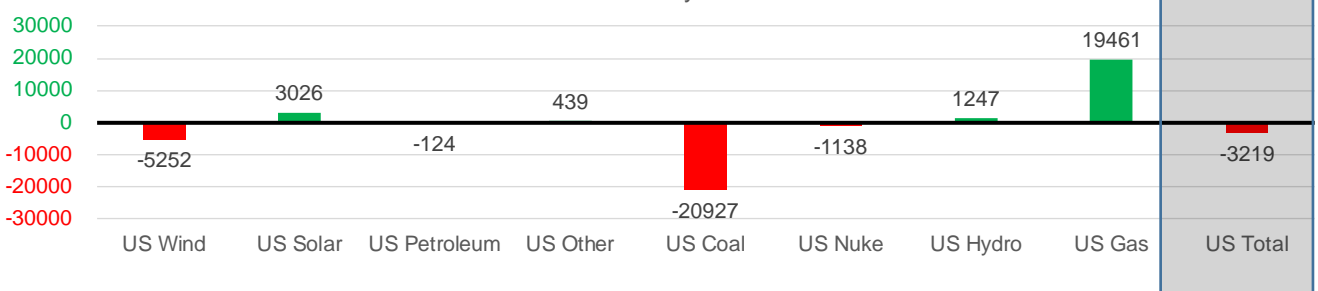
Wind Generation Monthly Average - MWh (EIA)

	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	2138	2513	3361	2875	2719	1241	2010	-1478	-503
TEXAS Wind	9106	10154	16756	13441	11765	14452	7876	2686	-2278
US Wind	31549	37012	56649	47161	39701	45144	31759	5443	-5252

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	31549	37012	56649	47161	39701	45144	31759	▼13384.5	▼-5252
US Solar	10550	13742	18212	19386	18593	16958	16767	▼-191.1	▲3026
US Petroleum	1152	1385	518	998	1252	1020	1261	▲240	▼-124
US Other	9710	9963	7723	8530	9961	10385	10402	▲16	▲439
US Coal	123642	137681	85695	105186	119788	125326	116755	▼-8571	▼-20927
US Nuke	93050	94061	85495	89904	92883	92732	92923	▲191	▼-1138
US Hydro	29391	28674	31811	37522	34185	31187	29921	▼-1265	▲1247
US Gas	218271	214217	157670	199828	235788	233300	233678	▼-22964	▲19461
US Total	515150	536541	443969	508081	551806	556046	533322	▼-32544	▼-3219

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

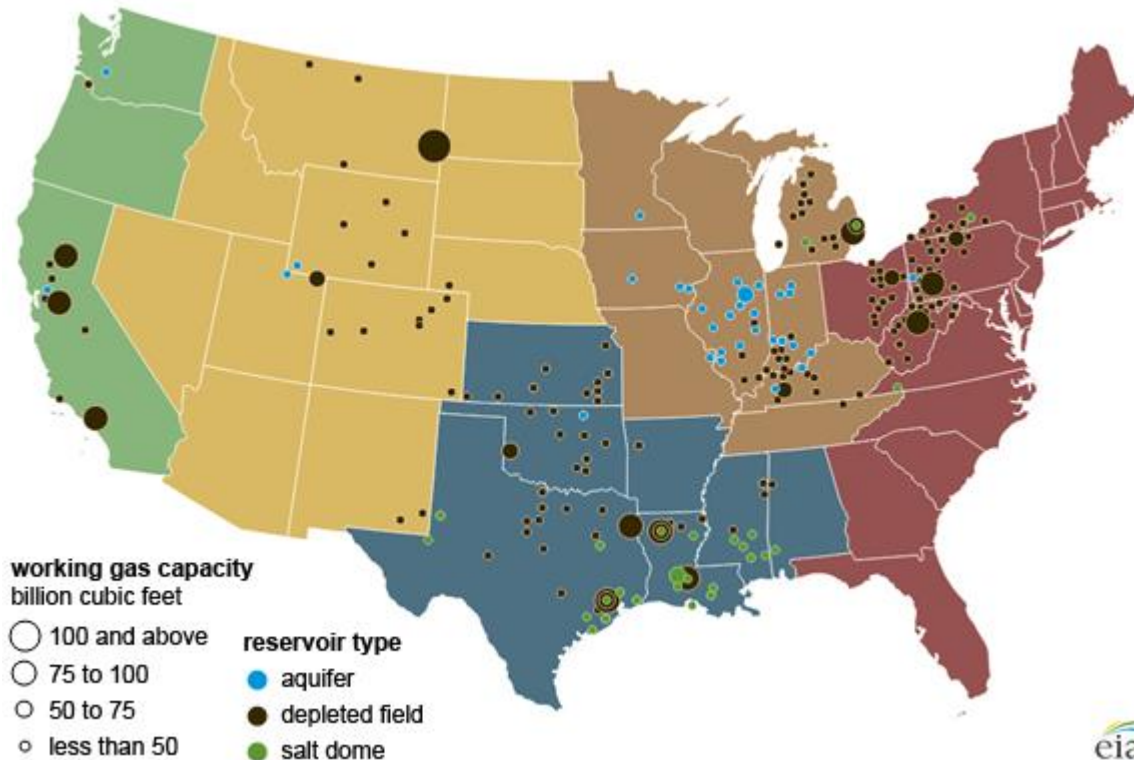
Regional S/D Models Storage Projection

Week Ending 26-Aug

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	8.2	-0.2	8.0	56
East	1.0	2.0	3.0	21
Midwest	4.7	-0.6	4.1	29
Mountain	4.5	-4.1	0.4	3
South Central	-2.2	2.9	0.7	5
Pacific	0.1	-0.4	-0.3	-2

*Adjustment Factor is calculated based on historical regional deltas

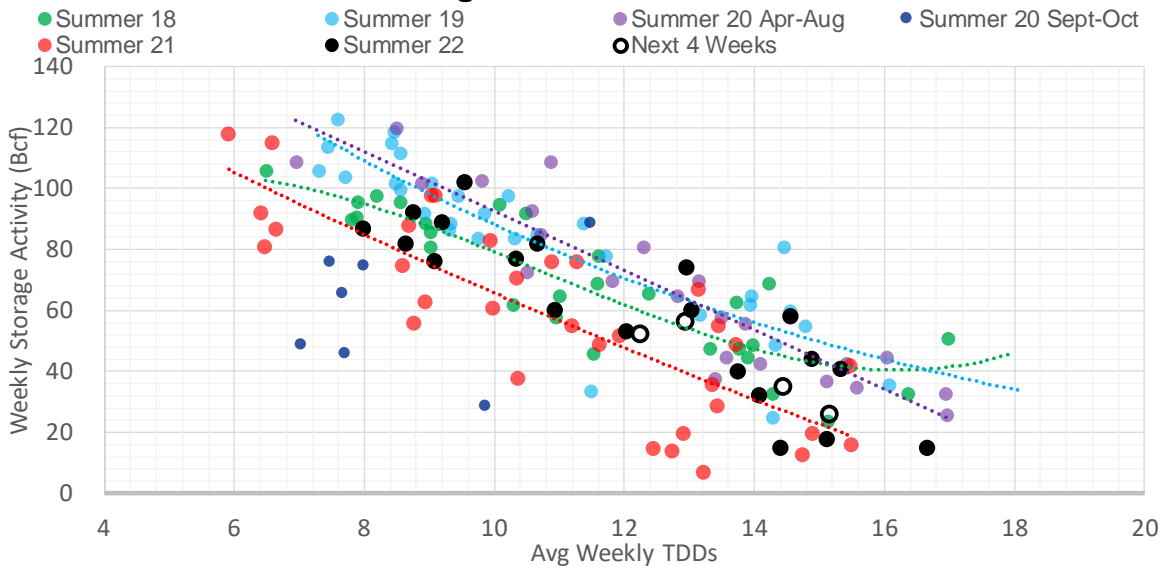
U.S. underground natural gas storage facilities by type (July 2015)



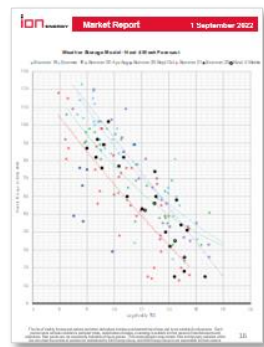
Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
26-Aug	13.0	56
02-Sep	14.5	35
09-Sep	15.2	26
16-Sep	12.3	52

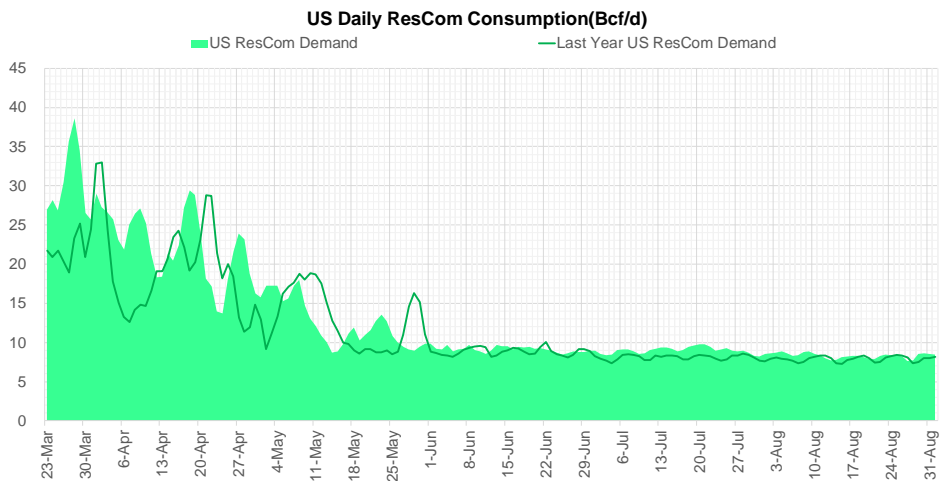
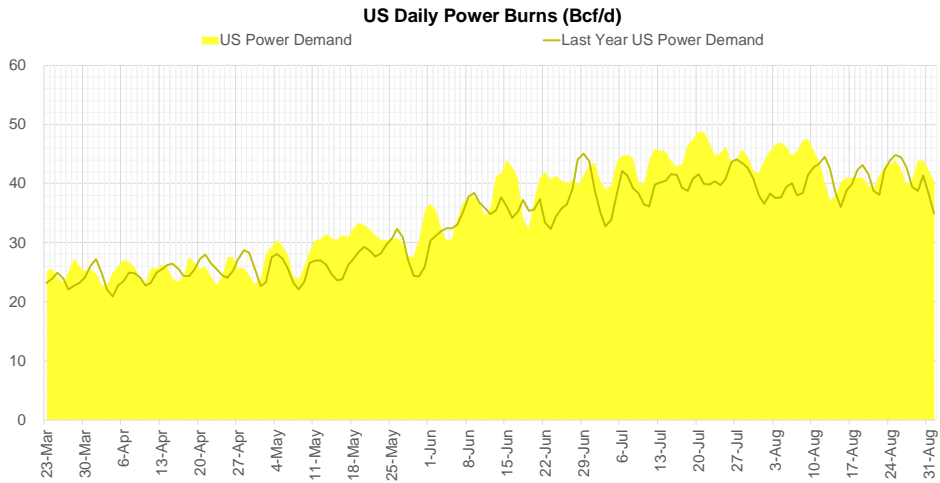
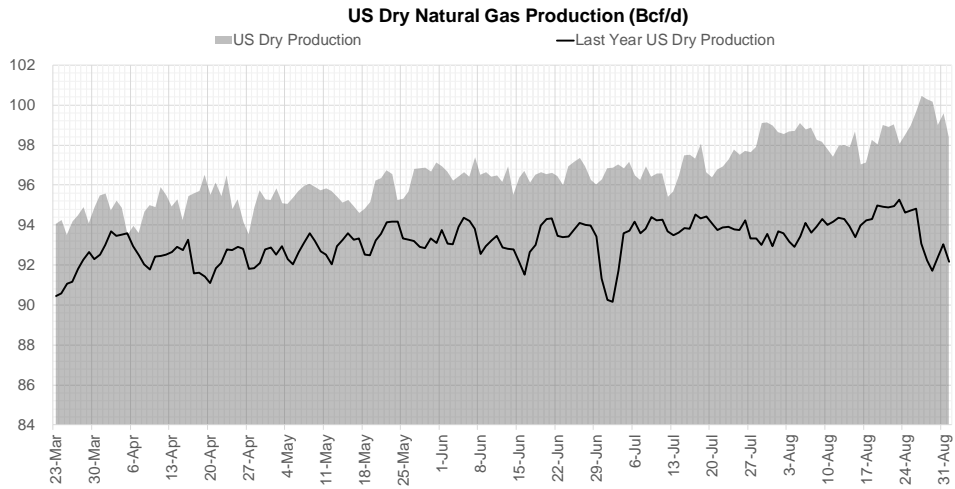
Weather Storage Model - Next 4 Week Forecast



Go to larger image



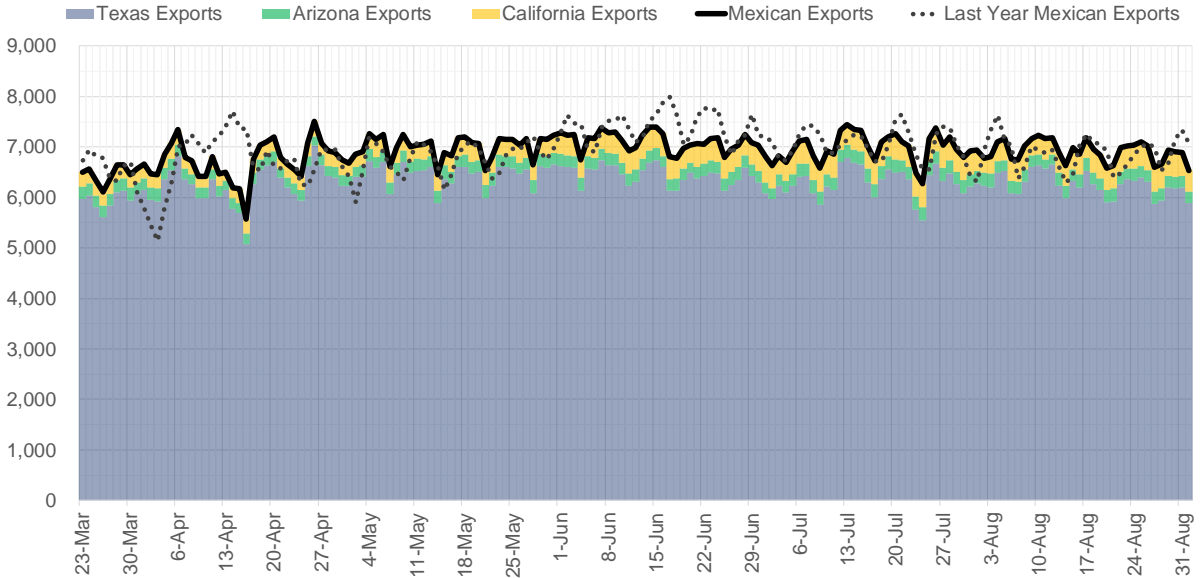
Supply – Demand Trends



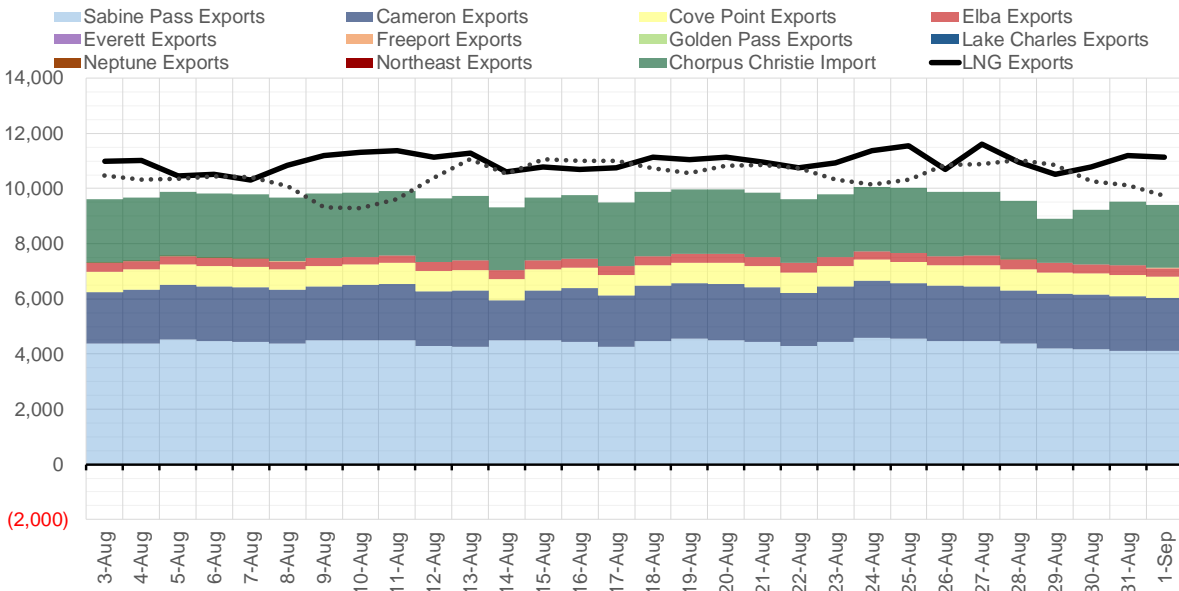
Source: Bloomberg

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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

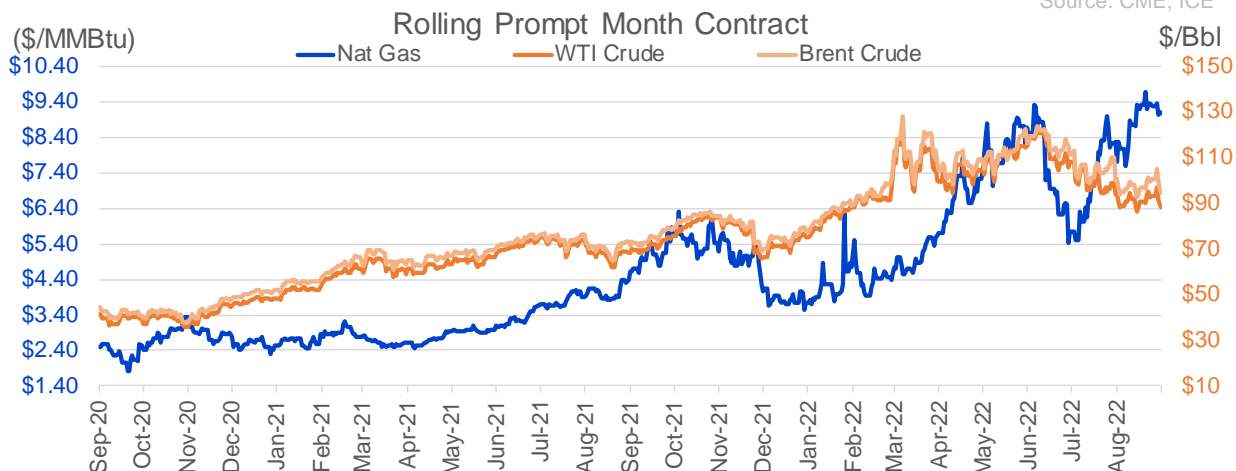
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
12	2022	C	4.00	8000	10	2022	P	3.00	36678
10	2022	P	8.00	4237	10	2022	C	6.00	36012
11	2022	C	12.00	3122	10	2022	P	6.00	32527
10	2022	P	7.00	2892	10	2022	P	5.00	30879
10	2022	P	6.00	2362	10	2022	P	2.50	28111
10	2022	P	7.50	2283	10	2022	C	5.00	23273
10	2022	P	5.00	2014	10	2022	P	3.50	22294
10	2022	C	10.00	1983	3	2023	C	10.00	21873
12	2022	P	6.00	1952	11	2022	P	4.00	21608
10	2022	C	12.00	1745	12	2022	P	5.00	21411
10	2022	C	15.00	1728	10	2022	P	4.00	21261
10	2022	P	7.40	1717	5	2023	P	2.00	21197
10	2022	P	8.75	1584	10	2022	C	10.00	21131
11	2022	P	8.75	1500	10	2022	C	12.00	21106
11	2022	P	8.00	1491	11	2022	P	6.00	18667
10	2022	P	8.50	1365	12	2022	C	5.00	18218
10	2022	C	9.50	1126	3	2023	P	3.00	18152
12	2022	P	4.00	1109	3	2023	C	20.00	17881
11	2022	P	8.50	1102	10	2023	P	2.50	17300
1	2023	C	9.25	975	10	2022	C	8.00	16901
10	2022	P	9.00	974	10	2022	P	2.00	16759
1	2023	C	9.45	950	4	2023	P	3.00	16704
1	2023	C	10.00	950	10	2022	P	5.50	16631
1	2023	P	7.00	950	10	2023	P	3.00	16448
10	2022	P	5.50	899	11	2022	C	12.00	16272
10	2022	P	7.25	874	2	2023	C	10.00	16195
12	2022	P	5.50	800	10	2022	P	7.00	16119
1	2023	P	8.00	800	11	2022	C	4.00	15755
10	2022	P	7.75	760	1	2023	C	10.00	15534
12	2022	P	5.00	750	10	2023	P	2.00	15480
11	2022	P	4.00	717	10	2022	P	3.25	15196
11	2022	C	20.00	714	10	2022	C	7.00	15121
3	2023	C	10.00	710	10	2022	P	8.00	15114
10	2022	C	10.50	704	1	2023	P	5.00	15093
10	2022	C	11.75	654	2	2023	C	9.00	14823
11	2022	C	10.00	624	11	2022	P	5.00	14793
10	2022	C	11.00	562	10	2022	C	11.00	14346
1	2023	C	15.00	550	12	2022	C	6.00	13981
3	2023	P	6.00	550	11	2022	C	10.00	13900
11	2022	P	5.00	532	4	2023	P	2.75	13870
10	2022	P	6.75	513	10	2022	C	9.00	13764
11	2022	P	3.00	500	6	2023	P	3.00	13755
10	2022	C	9.00	483	5	2023	P	3.00	13658
10	2022	C	9.20	465	11	2022	C	8.00	13564
10	2022	P	9.20	462	12	2022	P	4.00	13316
11	2022	C	15.50	451	10	2022	C	4.00	13309
12	2022	C	20.00	451	10	2022	P	2.75	13286
1	2023	P	6.00	450	10	2022	C	3.00	13214
2	2023	C	10.00	450	7	2023	P	3.00	13105
					5	2023	C	5	13013

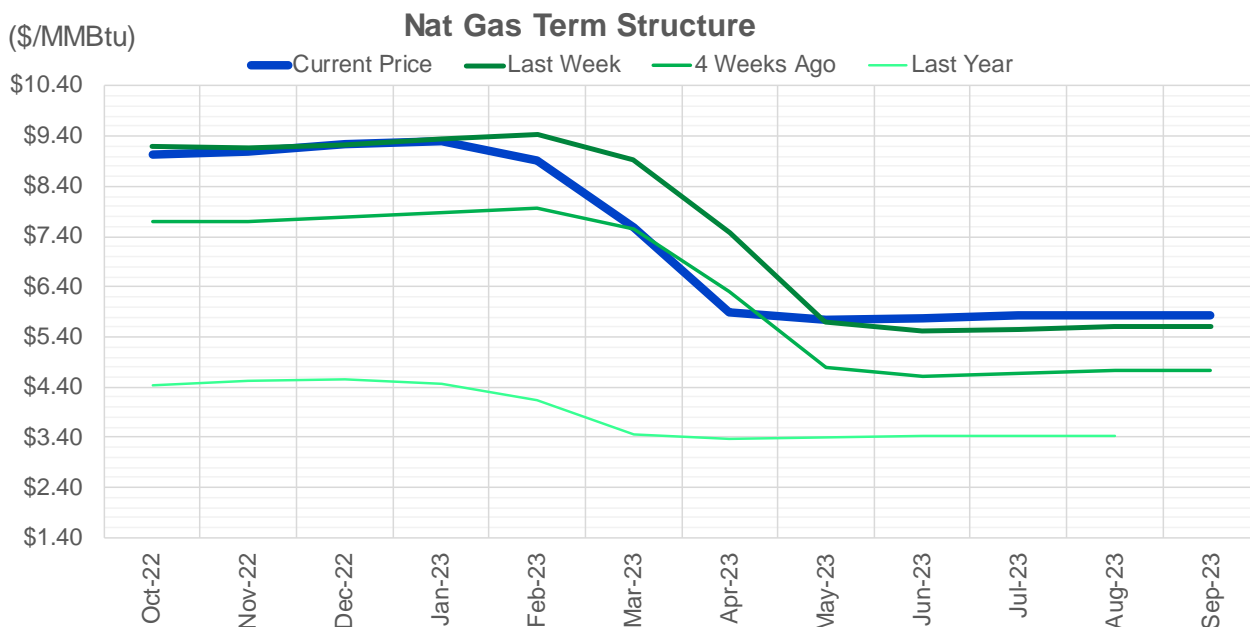
Source: CME, ICE

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	119550	122532	-2982	OCT 22	77594	79438	-1845
NOV 22	128562	129147	-585	NOV 22	70239	69768	471
DEC 22	69677	69674	3	DEC 22	67040	68342	-1302
JAN 23	87624	88026	-402	JAN 23	67945	68088	-143
FEB 23	39118	38026	1092	FEB 23	63965	62890	1076
MAR 23	59832	59881	-49	MAR 23	54978	55120	-142
APR 23	70671	71310	-639	APR 23	55487	56017	-531
MAY 23	77049	76199	850	MAY 23	53591	53886	-295
JUN 23	24387	24197	190	JUN 23	45538	45731	-193
JUL 23	24914	24869	45	JUL 23	44829	45086	-257
AUG 23	19459	19454	5	AUG 23	43531	43765	-233
SEP 23	22136	21826	310	SEP 23	42844	42918	-74
OCT 23	53922	53448	474	OCT 23	50448	50613	-165
NOV 23	14318	14191	127	NOV 23	45953	45930	24
DEC 23	12584	12548	36	DEC 23	41263	41716	-453
JAN 24	19994	19723	271	JAN 24	40216	40300	-84
FEB 24	8378	8206	172	FEB 24	31070	31327	-257
MAR 24	18292	18176	116	MAR 24	36069	36261	-193
APR 24	14917	14791	126	APR 24	28361	28641	-281
MAY 24	7347	7310	37	MAY 24	27368	27577	-208
JUN 24	2899	2886	13	JUN 24	24756	24809	-53
JUL 24	2570	2557	13	JUL 24	24506	24694	-188
AUG 24	3446	3440	6	AUG 24	24245	24291	-46
SEP 24	2074	2069	5	SEP 24	24042	24190	-148
OCT 24	9136	9133	3	OCT 24	27553	27642	-89
NOV 24	4943	4943	0	NOV 24	25124	25311	-187
DEC 24	8136	8079	57	DEC 24	28504	28595	-92
JAN 25	16755	16760	-5	JAN 25	22483	21995	489
FEB 25	1115	1122	-7	FEB 25	14670	14680	-10
MAR 25	5141	5141	0	MAR 25	16923	16965	-43

Source: CME, ICE





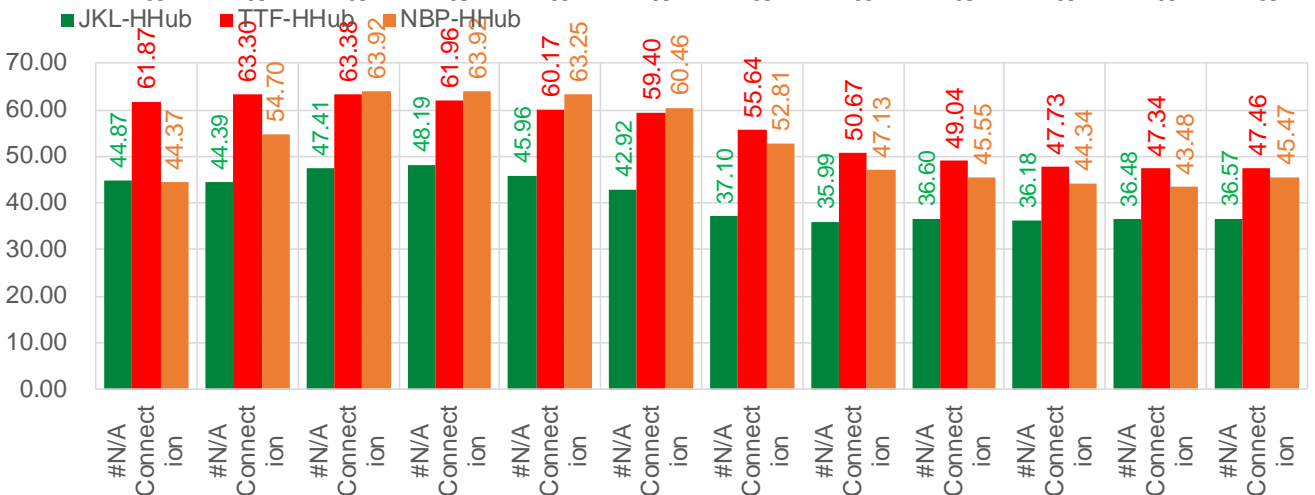
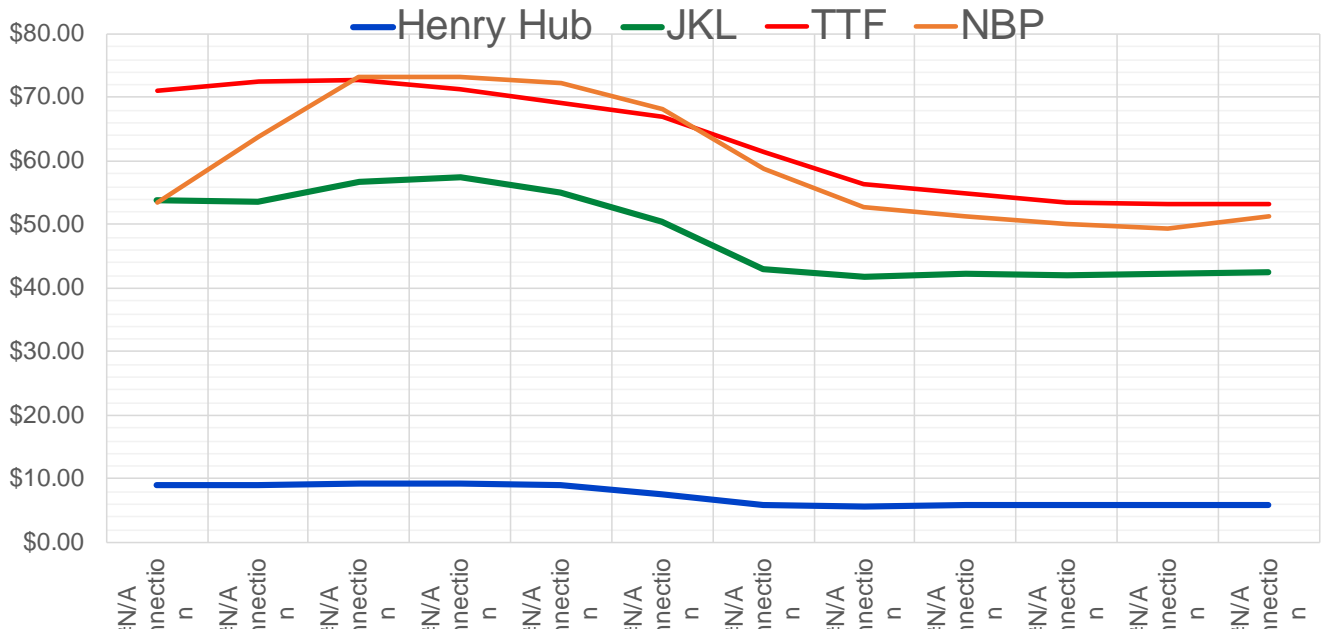
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Current Price	\$9.042	\$9.103	\$9.240	\$9.310	\$8.916	\$7.576	\$5.902	\$5.736	\$5.783	\$5.832	\$5.842	\$5.826
Last Week	\$9.193	\$9.155	\$9.225	\$9.350	\$9.418	\$8.929	\$7.469	\$5.690	\$5.516	\$5.562	\$5.609	\$5.621
vs. Last Week	-\$0.151	-\$0.052	\$0.015	-\$0.040	-\$0.502	-\$1.353	-\$1.567	\$0.046	\$0.267	\$0.270	\$0.233	\$0.205
4 Weeks Ago	\$7.706	\$7.698	\$7.775	\$7.887	\$7.950	\$7.537	\$6.305	\$4.794	\$4.629	\$4.676	\$4.727	\$4.741
vs. 4 Weeks Ago	\$1.336	\$1.405	\$1.465	\$1.423	\$0.966	\$0.039	-\$0.403	\$0.942	\$1.154	\$1.156	\$1.115	\$1.085
Last Year	\$4.377	\$4.425	\$4.515	\$4.563	\$4.456	\$4.132	\$3.470	\$3.373	\$3.398	\$3.430	\$3.439	\$3.427
vs. Last Year	\$4.665	\$4.678	\$4.725	\$4.747	\$4.460	\$3.444	\$2.432	\$2.363	\$2.385	\$2.402	\$2.403	\$2.399

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	8.50	8.59	0.09
TETCO M3	\$/MMBtu	8.28	8.06	-0.22
FGT Zone 3	\$/MMBtu	8.47	10.06	1.59
Zone 6 NY	\$/MMBtu	8.47	8.03	-0.44
Chicago Citygate	\$/MMBtu	8.48	8.82	0.34
Michcon	\$/MMBtu	8.45	8.72	0.27
Columbia TCO Pool	\$/MMBtu	8.20	8.10	-0.10
Ventura	\$/MMBtu	5.95	8.61	2.66
Rockies/Opal	\$/MMBtu	8.74	8.51	-0.23
El Paso Permian Basin	\$/MMBtu	8.02	7.82	-0.20
Socal Citygate	\$/MMBtu	15.97	9.89	-6.09
Malin	\$/MMBtu	9.11	8.74	-0.37
Houston Ship Channel	\$/MMBtu	8.42	8.72	0.30
Henry Hub Cash	\$/MMBtu	8.93	8.51	-0.42
AECO Cash	C\$/GJ	2.59	3.52	0.93
Station2 Cash	C\$/GJ	0.57	8.31	7.74
Dawn Cash	C\$/GJ	8.38	8.77	0.39

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	▲ 1.226
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.313
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.000
NatGas Apr22/Oct22	\$/MMBtu	3.791	▼ -0.173	▲ 0.865	▲ 3.823
WTI Crude	\$/Bbl	89.55	▼ -5.340	▼ -1.110	▲ 20.960
Brent Crude	\$/Bbl	96.49	▼ -4.730	▼ -0.290	▲ 24.900
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	371.54	▼ -29.780	▲ 30.060	▲ 158.650
Propane, Mt. Bel	cents/Gallon	1.09	▼ -0.003	▼ -0.009	▼ -0.087
Ethane, Mt. Bel	cents/Gallon	0.60	▼ -0.005	▲ 0.029	▲ 0.247
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)

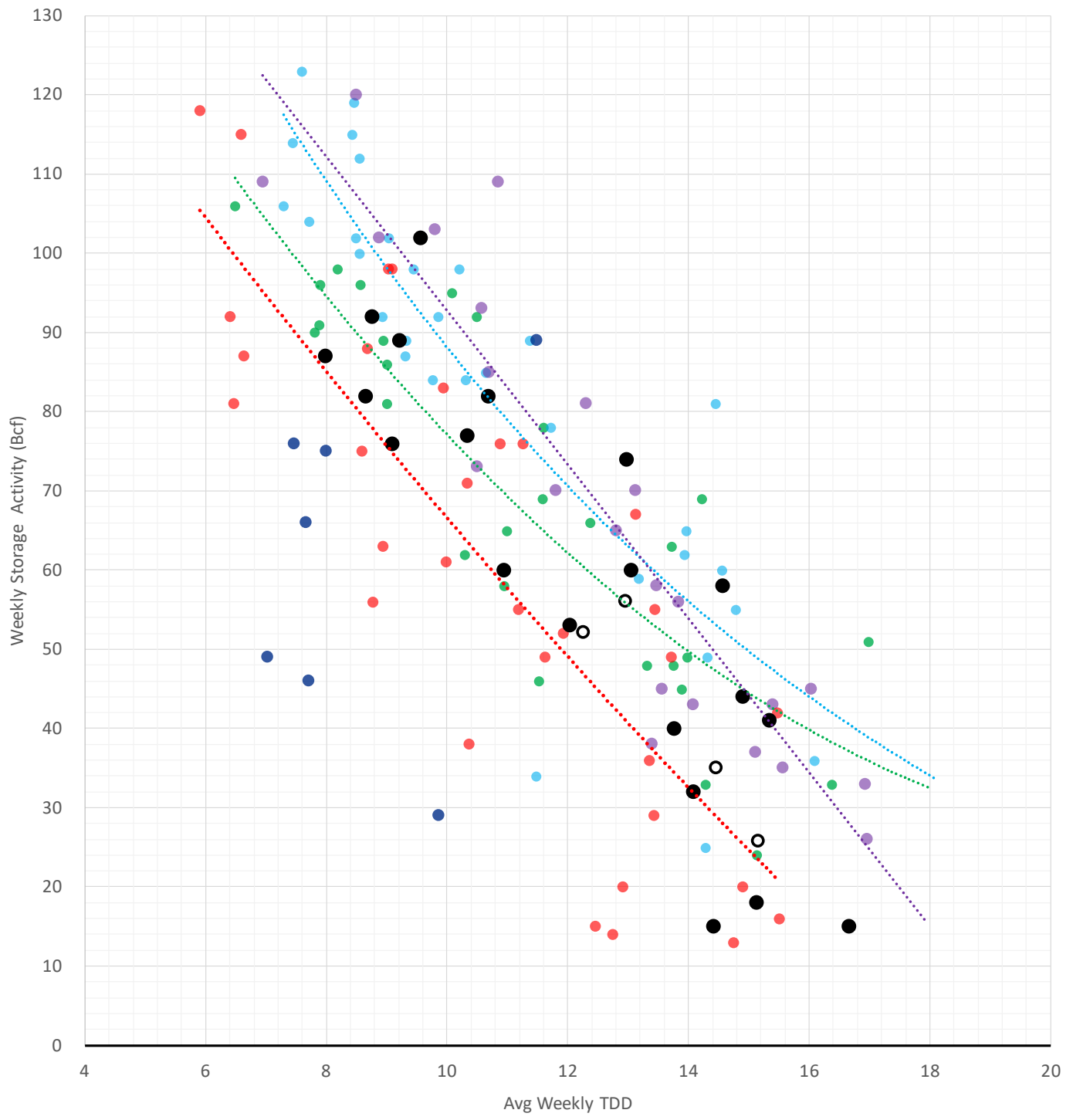


	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Henry Hub	\$9.076	\$9.140	\$9.267	\$9.349	\$8.977	\$7.634	\$5.891	\$5.720	\$5.774	\$5.815	\$5.845	\$5.829
JKL	\$53.950	\$53.525	\$56.675	\$57.540	\$54.935	\$50.555	\$42.995	\$41.705	\$42.370	\$41.995	\$42.320	\$42.400
JKL-HHub	\$44.874	\$44.385	\$47.408	\$48.191	\$45.958	\$42.921	\$37.104	\$35.985	\$36.596	\$36.180	\$36.475	\$36.571
TTF	\$70.950	\$72.441	\$72.645	\$71.307	\$69.148	\$67.036	\$61.529	\$56.391	\$54.810	\$53.543	\$53.181	\$53.287
TTF-HHub	\$61.874	\$63.301	\$63.378	\$61.958	\$60.171	\$59.402	\$55.638	\$50.671	\$49.036	\$47.728	\$47.336	\$47.458
NBP	\$53.447	\$63.838	\$73.184	\$73.267	\$72.230	\$68.097	\$58.698	\$52.848	\$51.327	\$50.151	\$49.321	\$51.294
NBP-HHub	\$44.371	\$54.698	\$63.917	\$63.918	\$63.253	\$60.463	\$52.807	\$47.128	\$45.553	\$44.336	\$43.476	\$45.465

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 that are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

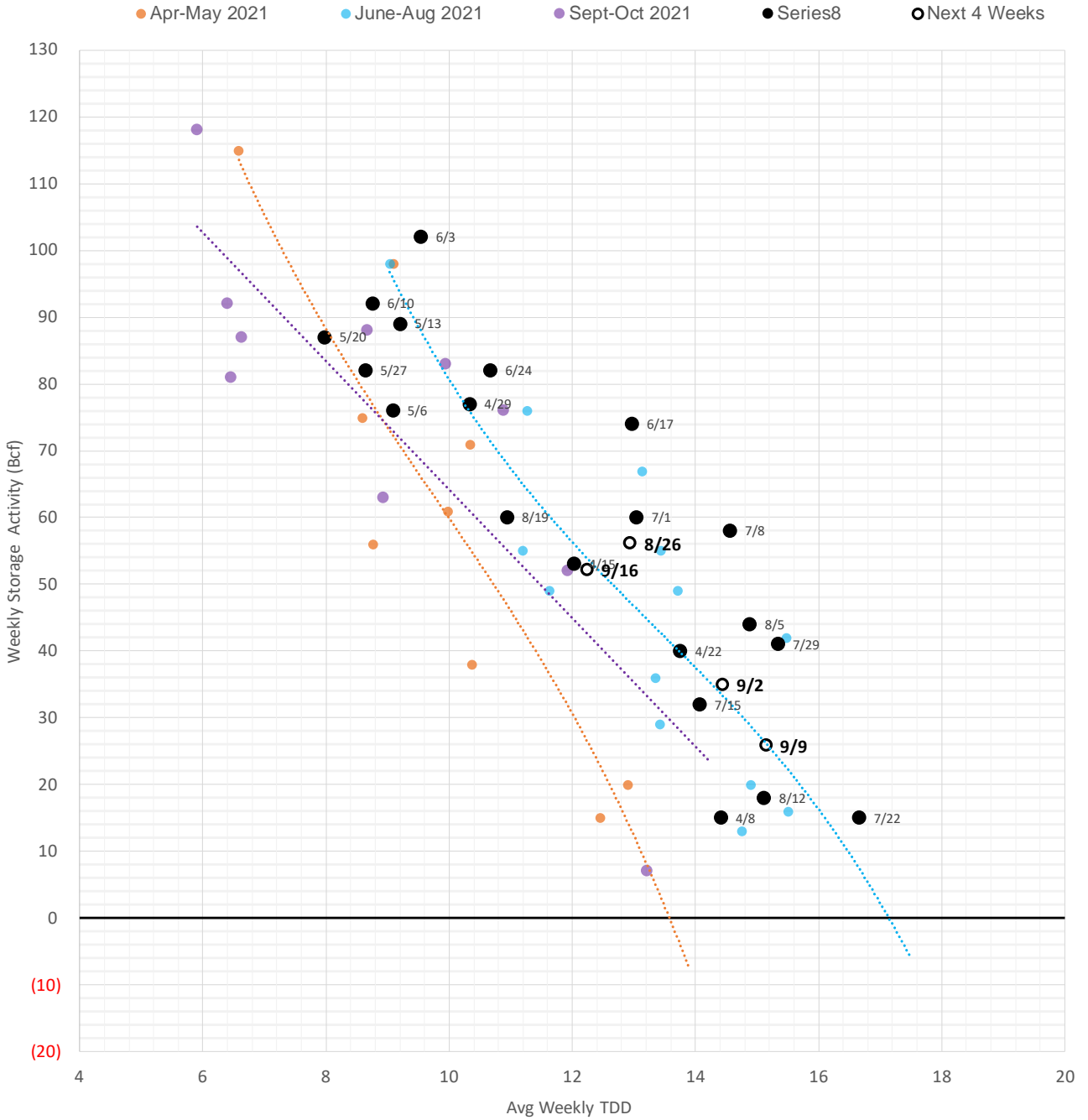
Weather Storage Model - Next 4 Week Forecast

● Summer 18 ● Summer 19 ● Summer 20 Apr-Aug ● Summer 20 Sept-Oct ● Summer 21 ● Summer 22 ○ Next 4 Weeks



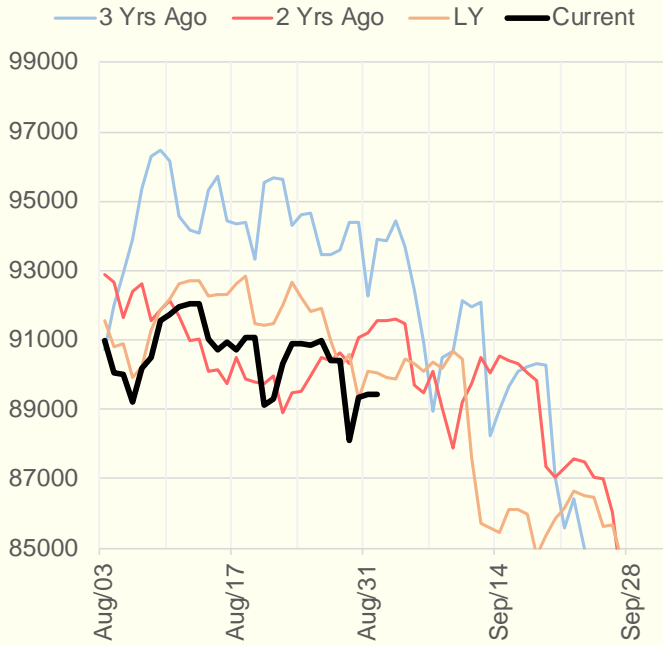
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Weather Storage Model - Next 4 Week Forecast

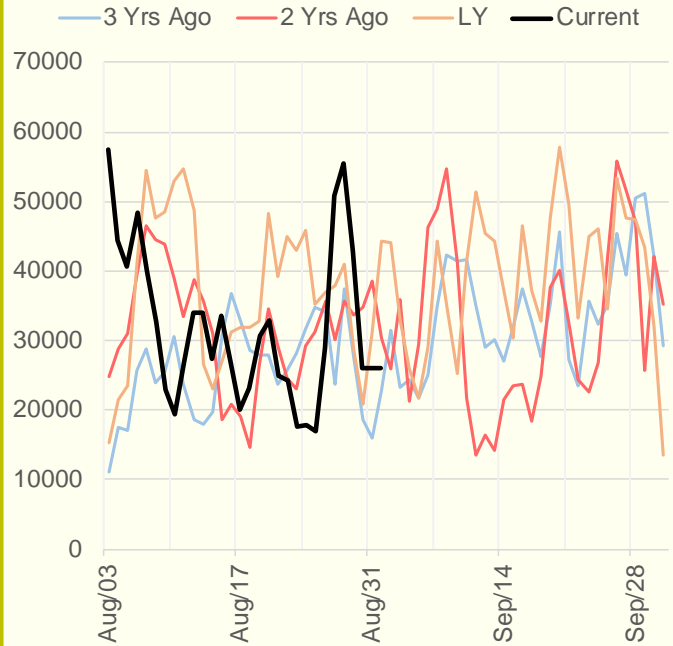


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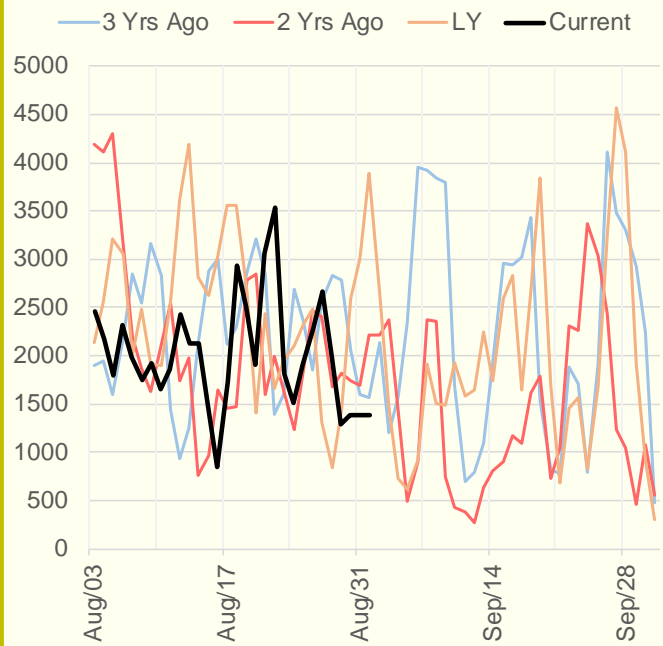
NRC Nuclear Daily Output



US Wind



CALI Wind



TEXAS Wind

