

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 7.24 ▲	\$ 0.53 ▲	\$ 0.22

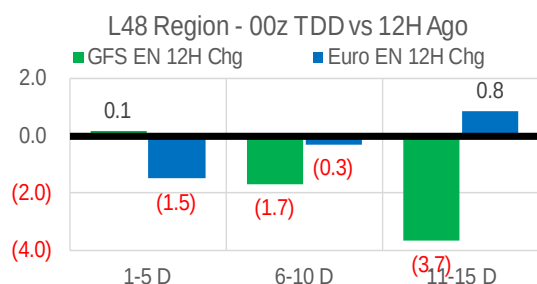
	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 79.06 ▲	\$ 1.82 ▲	\$ 1.5

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 85.59 ▲	\$ 2.40 ▲	\$ 0.8

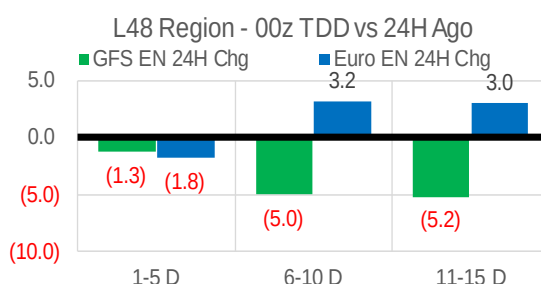
Page Menu

[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	101.0 ▼	-1.25 ▼	-0.86

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	27.8 ▲	0.33 ▲	1.32

	Current	Δ from YD	Δ from 7D Avg
US ResComm	29.7 ▼	-1.62 ▼	-0.37

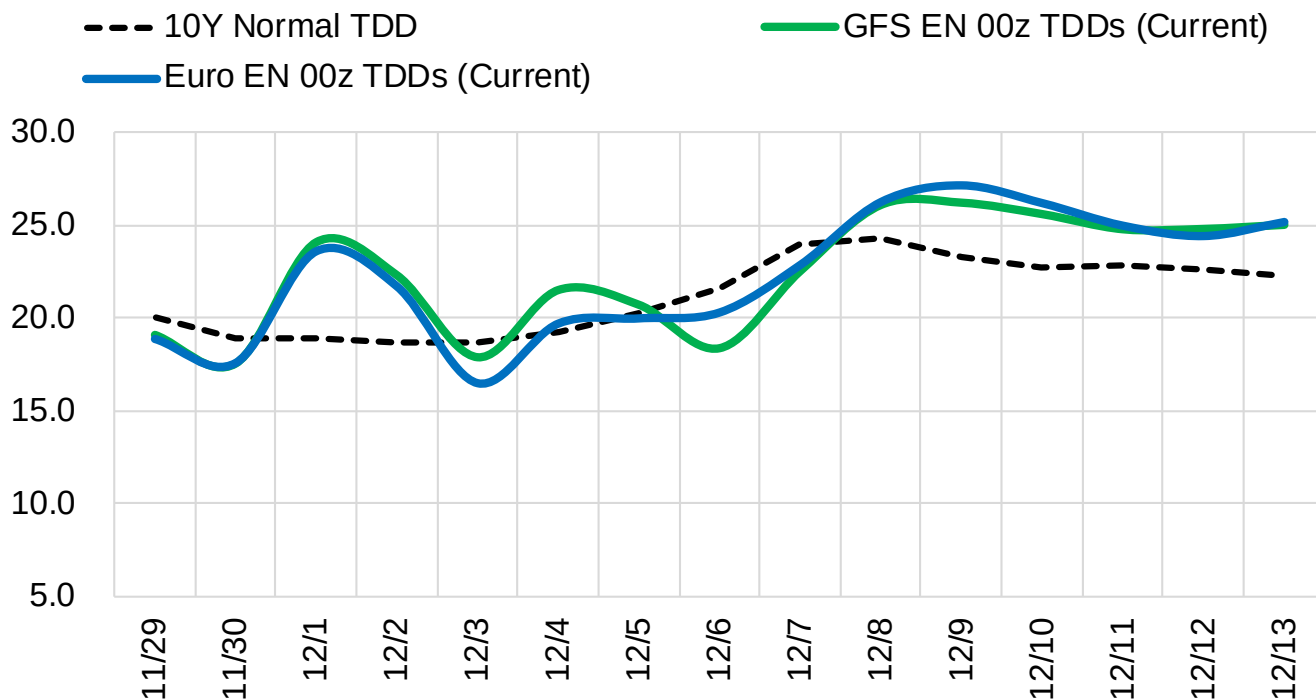
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.9 ▲	0.81 ▲	0.68

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	10.7 ▼	-0.78 ▼	-0.91

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.1 ▼	-0.18 ▼	0.07

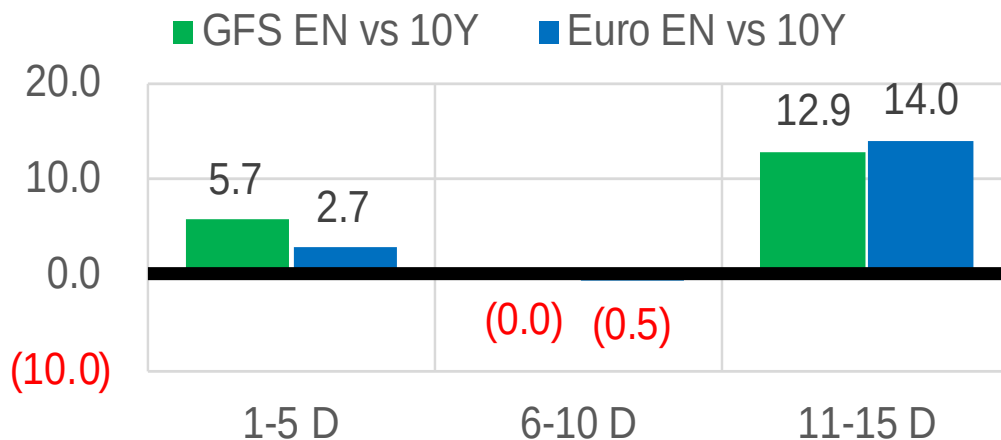
Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal

L48 Region - 00z TDD vs 10Y Normal



Source: WSI , Bloomberg

Lower 48 Component Models

Daily Balances

	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	DoD	vs. 7D
Lower 48 Dry Production	102.0	102.5	102.2	100.8	102.0	102.3	101.0	▼ -1.3	▼ -1.0
Canadian Imports	5.4	5.0	5.1	4.9	5.0	5.1	5.9	▲ 0.8	▲ 0.8
L48 Power	28.4	24.8	25.0	24.0	25.6	27.5	27.8	▲ 0.3	▲ 1.9
L48 Residential & Commercial	30.6	28.0	28.5	28.7	28.4	31.3	29.7	▼ -1.6	▲ 0.4
L48 Industrial	22.6	22.7	22.9	23.2	23.4	23.7	23.2	▼ -0.5	▲ 0.1
L48 Lease and Plant Fuel	5.7	5.7	5.7	5.6	5.7	5.7	5.6	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	3.4	3.0	3.1	3.0	3.1	3.4	3.3	▼ -0.1	▲ 0.1
L48 Regional Gas Consumption	90.6	84.3	85.2	84.5	86.2	91.5	89.6	▼ -2.0	▲ 2.5
Net LNG Delivered	11.29	11.20	11.31	11.60	12.04	11.44	10.67	▼ -0.8	▼ -0.8
Total Mexican Exports	6.1	6.1	6.2	6.0	5.9	6.3	6.1	▼ -0.2	▲ 0.0
Implied Daily Storage Activity	-0.7	5.9	4.6	3.7	2.9	-1.9	0.5		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	LY 26-Nov	28-Oct	4-Nov	11-Nov	LW 18-Nov	Current 25-Nov	WoW	vs. LY
Lower 48 Dry Production	96.7	101.0	101.1	100.4	101.1	101.3	▲ 0.2	▲ 4.6
Canadian Imports	5.5	5.3	4.9	4.2	6.6	6.0	▼ -0.5	▲ 0.5
L48 Power	29.4	28.9	29.5	29.1	31.5	29.8	▼ -1.7	0.4
L48 Residential & Commercial	31.8	15.9	17.6	17.7	35.5	38.5	▲ 3.0	6.6
L48 Industrial	23.8	21.1	21.3	22.9	24.8	23.7	▼ -1.1	-0.1
L48 Lease and Plant Fuel	5.4	5.6	5.6	5.6	5.6	5.7	▲ 0.0	0.3
L48 Pipeline Distribution	3.5	2.8	2.8	2.7	3.9	3.9	▲ 0.1	0.4
L48 Regional Gas Consumption	94.0	74.4	77.0	78.0	101.3	101.5	▲ 0.3	▲ 7.6
Net LNG Exports	11.7	11.4	11.9	11.5	12.1	12.0	▼ -0.1	▲ 0.2
Total Mexican Exports	6.0	6.4	6.3	6.3	6.5	6.0	▼ -0.5	▼ -0.1
Implied Daily Storage Activity	-9.5	14.2	10.7	8.8	-12.2	-12.2	0.1	-2.6
EIA Reported Daily Storage Activity	-8.4	15.3	11.3	9.1	-11.4			
Daily Model Error	-1.1	-1.1	-0.5	-0.3	-0.8			

Monthly Balances

	2Yr Ago Nov-20	LY Nov-21	Jul-22	Aug-22	Sep-22	Oct-22	MTD Nov-22	MoM	vs. LY
Lower 48 Dry Production	91.2	96.4	97.8	98.2	100.5	101.2	101.0	▼ -0.2	▲ 4.6
Canadian Imports	4.6	5.3	5.9	5.4	5.9	5.7	5.4	▼ -0.3	▲ 0.1
L48 Power	25.7	29.3	44.8	43.8	37.0	30.2	29.4	▼ -0.7	▲ 0.1
L48 Residential & Commercial	24.4	28.2	8.2	7.8	8.9	16.6	28.8	▲ 12.2	▲ 0.6
L48 Industrial	22.5	23.3	19.4	19.7	20.5	20.6	23.5	▲ 2.8	▲ 0.2
L48 Lease and Plant Fuel	5.0	5.4	5.5	5.5	5.5	5.7	5.6	▼ 0.0	▲ 0.3
L48 Pipeline Distribution	2.7	3.3	3.1	3.0	2.8	2.9	3.3	▲ 0.5	▲ 0.0
L48 Regional Gas Consumption	80.3	89.5	81.0	79.9	74.7	75.9	90.7	▲ 14.8	▲ 1.1
Net LNG Exports	10.1	11.4	10.9	11.0	11.5	11.3	11.8	▲ 0.5	▲ 0.4
Total Mexican Exports	6.1	6.1	7.0	6.9	6.7	6.6	6.2	▼ -0.3	▲ 0.1
Implied Daily Storage Activity	-0.7	-5.3	4.8	5.8	13.6	13.1	-2.3		
EIA Reported Daily Storage Activity									
Daily Model Error					-0.5				

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	DoD	vs. 7D
NRC Nuclear Daily Output	84.3	84.8	85.7	86.1	87.3	87.8	87.6	-0.2	1.6
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	20.6	20.1	19.2	18.8	17.6	17.1	17.3	0.2	-1.6
NRC % Nuclear Cap Utilization	85.7	86.2	87.1	87.6	88.7	89.3	89.1	-0.2	1.6

Wind Generation Daily Average - MWh (EIA)

	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	DoD	vs. 7D
CALI Wind	339	364	653	1452	726	1455	898	-557	66
TEXAS Wind	7365	8480	10989	12560	16290	10743	7519	-3224	-3552
US Wind	29435	31950	52648	55344	54502	53534	49575	-3958	3340

Generation Daily Average - MWh (EIA)

	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	DoD	vs. 7D
US Wind	29435	31950	52648	55344	54502	53534	49575	-3958	3340
US Solar	10327	9591	10062	8947	7934	9425	10048	623	667
US Petroleum	403	726	927	838	818	324	458	134	-215
US Other	8969	8168	9332	7983	7575	7896	7790	-107	-531
US Coal	78948	74897	89341	81290	79076	80034	80953	919	356
US Nuke	78314	78944	90721	91082	92170	92727	92817	91	5491
US Hydro	26854	25199	25619	23496	22381	23110	23301	191	-1142
US Gas	165144	150137	157238	127100	126390	128020	132867	4847	-9472

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Storage Week Average Generation Data

Nuclear Generation Weekly Average - GWh (NRC)

	26-Nov	28-Oct	4-Nov	11-Nov	18-Nov	25-Nov	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	86.1	74.1	75.8	77.2	81.2	84.2	3.0	-0.6
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	18.8	30.7	29.1	27.7	23.7	20.7	-3.0	
NRC % Nuclear Cap Utilization	87.6	75.4	77.1	78.5	82.6	85.6	3.1	

Wind Generation Weekly Average - MWh (EIA)

	26-Nov	28-Oct	4-Nov	11-Nov	18-Nov	25-Nov	WoW	WoW Bcf/d Impact
CALI Wind	1495	1974	1641	2226	1221	846	-375	0.1
TEXAS Wind	14691	17228	10904	14751	11139	9361	-1778	0.3
US Wind	56264	64748	44699	61742	37916	39991	2075	-0.4
							5%	
							-0.2	

Generation Weekly Average - MWh (EIA)

	26-Nov	28-Oct	4-Nov	11-Nov	18-Nov	25-Nov	LY	Current	WoW	WoW Bcf/d Impact
US Wind	56264	64748	44699	61742	37916	39991			2075	-0.4
US Solar	9087	13756	11428	10434	10821	9836			-985	0.2
US Petroleum	960	933	990	1023	1067	701			-366	0.1
US Other	8446	9085	10014	9835	8735	8640			-94	0.0
US Coal	82147	69841	75083	61413	66061	77964			11903	-2.2
US Nuke	91272	77718	79723	78225	76194	81512			5318	-1.0
US Hydro	27837	19097	21591	22698	25196	25229			33	0.0
US Gas	150609	148302	157761	148034	152719	152197			-522	-0.1

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	Aug-22	Sep-22	Oct-22	Nov-22			
NRC Nuclear Daily Output	81.5	82.2	90.5	86.2	76.1	81.6	81.3	5.5	-0.8
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	23.4	22.7	14.3	18.7	28.8	23.3	23.5	-5.5	0.8
NRC % Nuclear Cap Utilization	82.8	83.5	92.1	87.7	77.4	82.9	82.7	5.6	-0.8

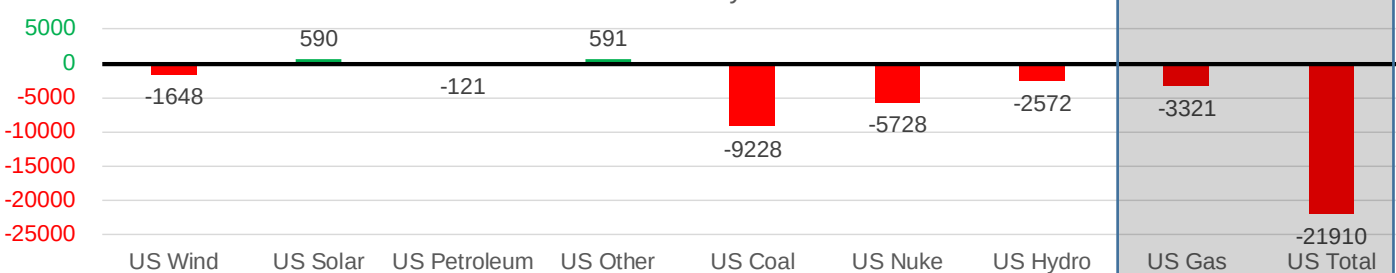
Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD				Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Aug-22	Sep-22	Oct-22	Nov-22			
CALI Wind	1234	1327	2028	1608	1239	1524	1488	285	160
TEXAS Wind	10406	11869	8440	7993	9916	11856	11637	1941	-233
US Wind	46287	50220	33222	38270	43698	49401	48572	5704	-1648

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	Aug-22	Sep-22	Oct-22	Nov-22			
US Wind	46287	50220	33222	38270	43698	49401	48572	▼ -829.1	▼ -1648
US Solar	7201	9696	16962	16163	14198	10254	10286	▲ 32.4	▲ 590
US Petroleum	885	990	1251	864	899	864	869	▲ 5	▼ -121
US Other	8797	8413	10597	10512	10517	8974	9005	▲ 30	▲ 591
US Coal	84056	80135	117203	92002	75808	70483	70907	▲ 424	▼ -9228
US Nuke	85543	86827	92976	89062	78132	81177	81099	▼ -77	▼ -5728
US Hydro	29974	26592	30192	25203	19926	24077	24020	▼ -57	▼ -2572
US Gas	135426	152064	233739	200120	162343	147918	148743	▼ -472	▼ -3321
US Total	397229	415264	535696	470764	405842	393016	393354	▼ -114	▼ -21910

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

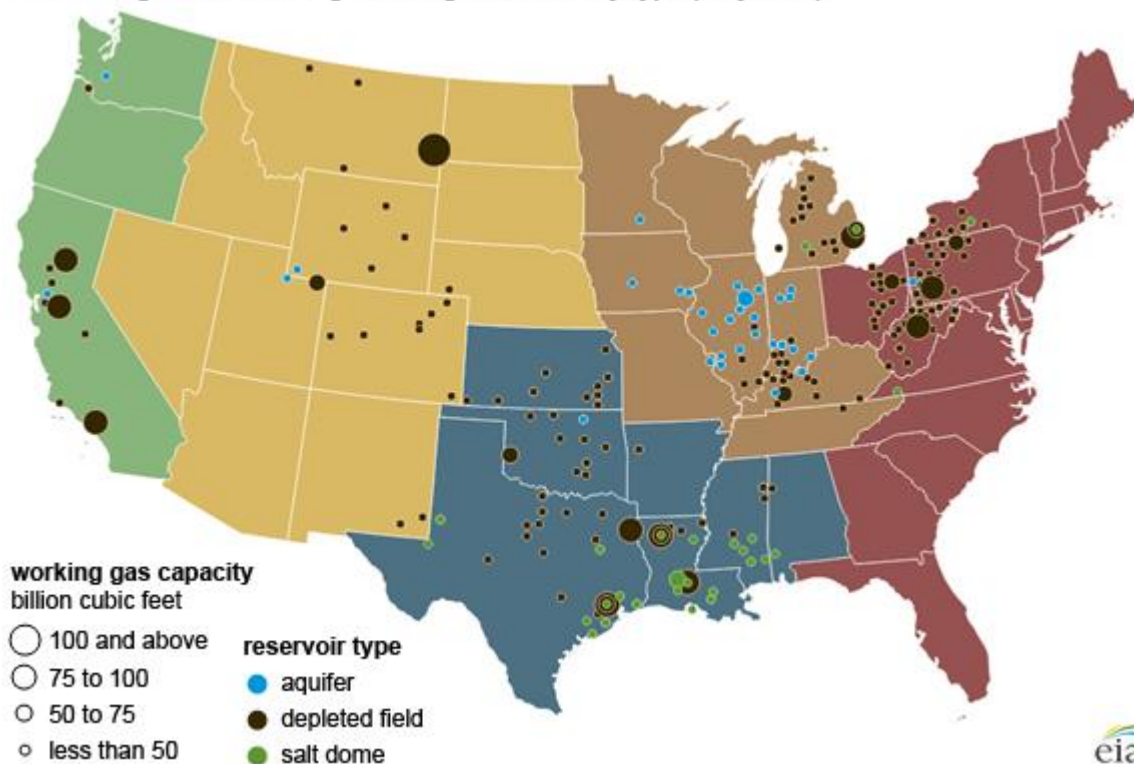
Regional S/D Models Storage Projection

Week Ending 25-Nov

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-11.4	-0.3	-11.6	-81
East	-5.9	2.3	-3.6	-25
Midwest	-4.7	0.1	-4.6	-32
Mountain	3.3	-3.9	-0.5	-4
South Central	-3.4	1.3	-2.1	-15
Pacific	-0.7	0.0	-0.8	-6

*Adjustment Factor is calculated based on historical regional deltas

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

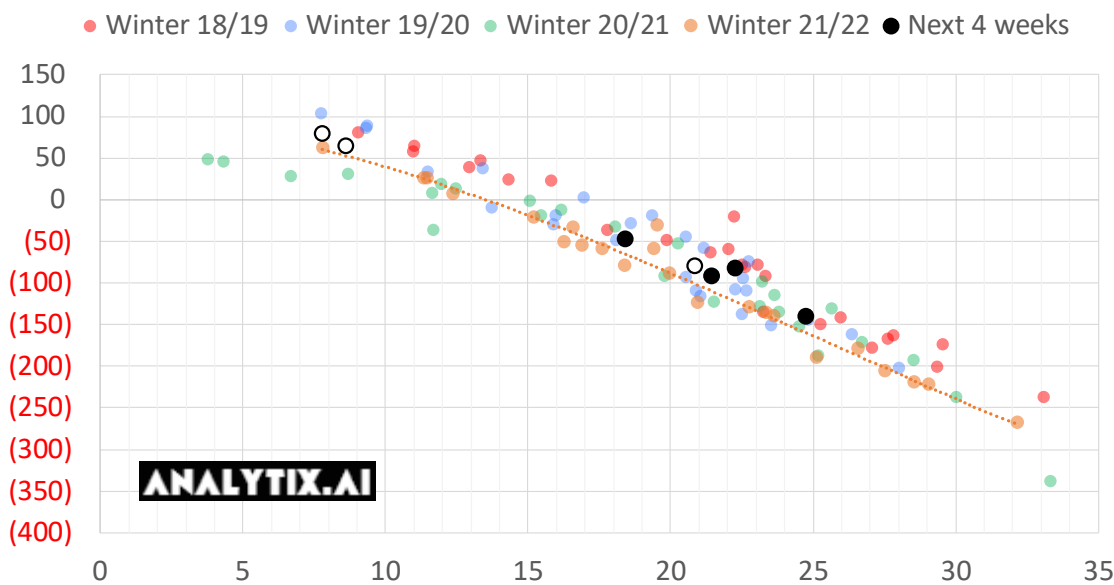


Weather Model Storage Projection

Next report
and beyond

Week Ending	GWDDs	Week Storage Projection
25-Nov	22.3	-81
02-Dec	18.4	-47
09-Dec	21.4	-92
16-Dec	24.7	-139

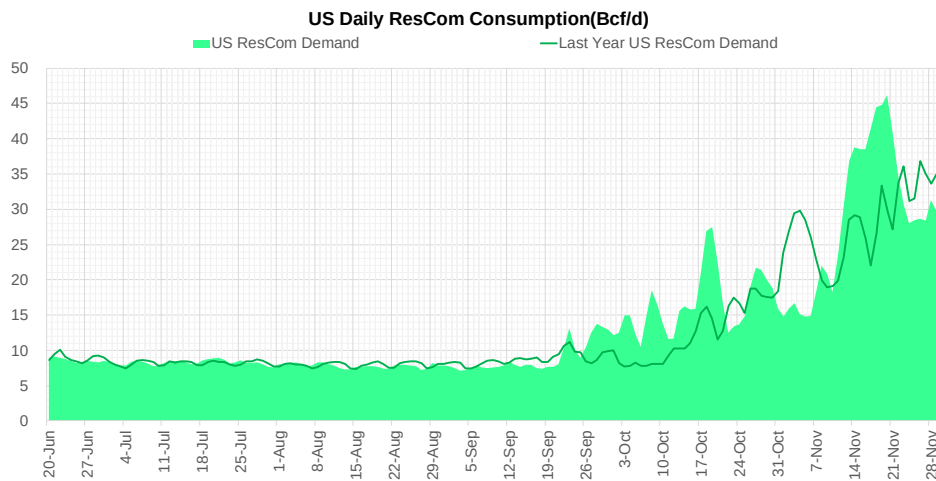
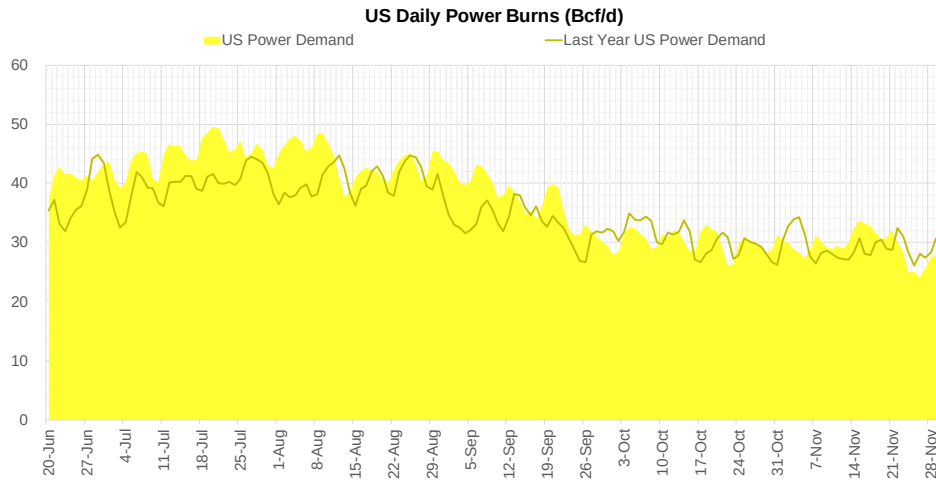
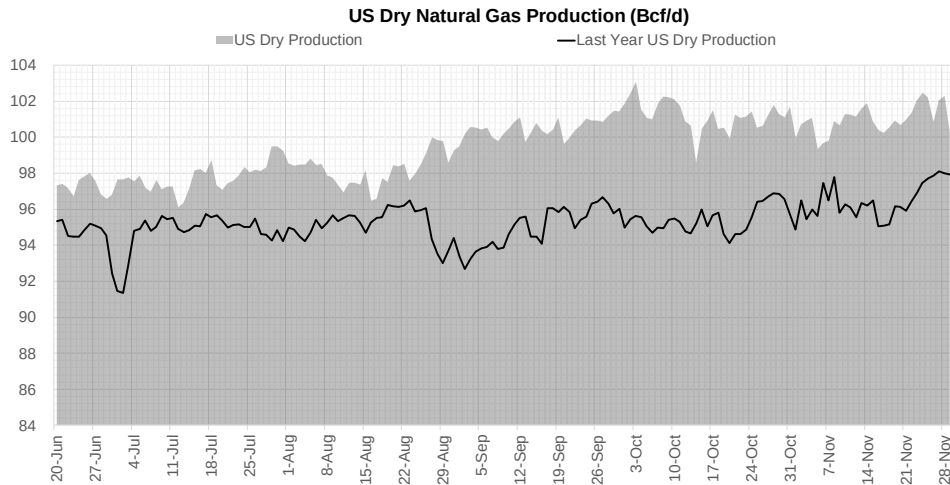
Weather Storage Model - Next 4 Week Forecast



[Go to larger image](#)



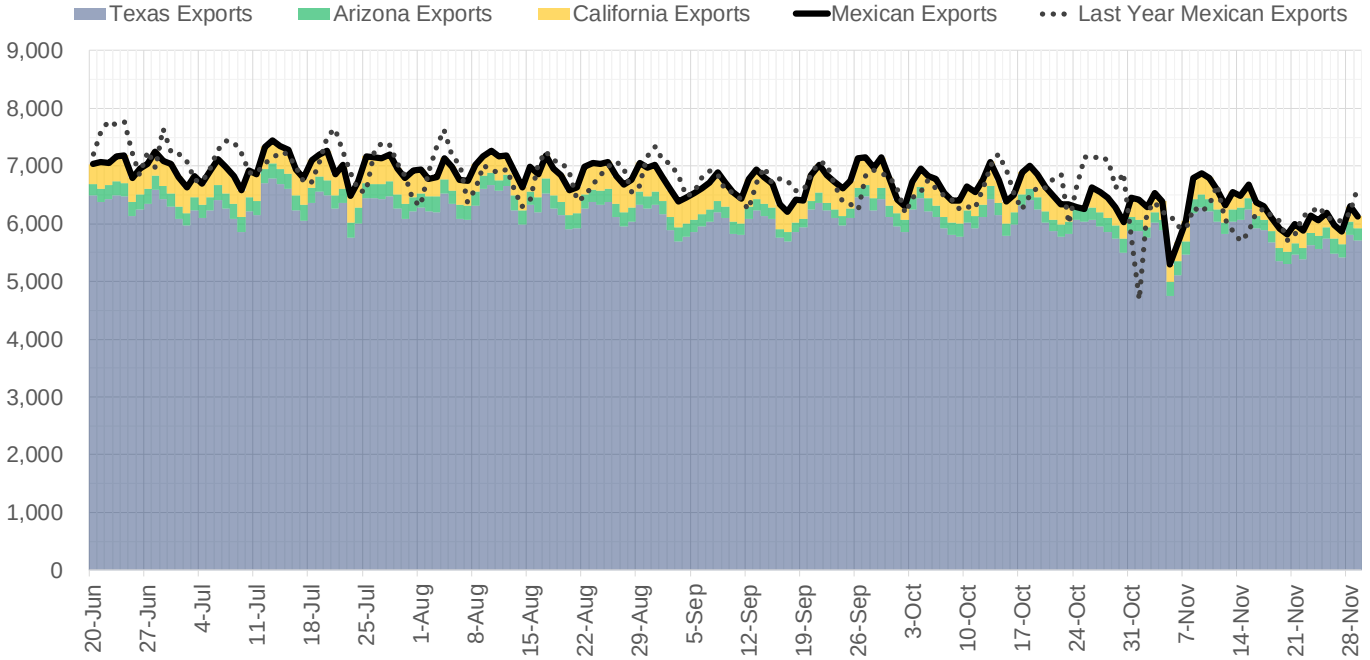
Supply – Demand Trends



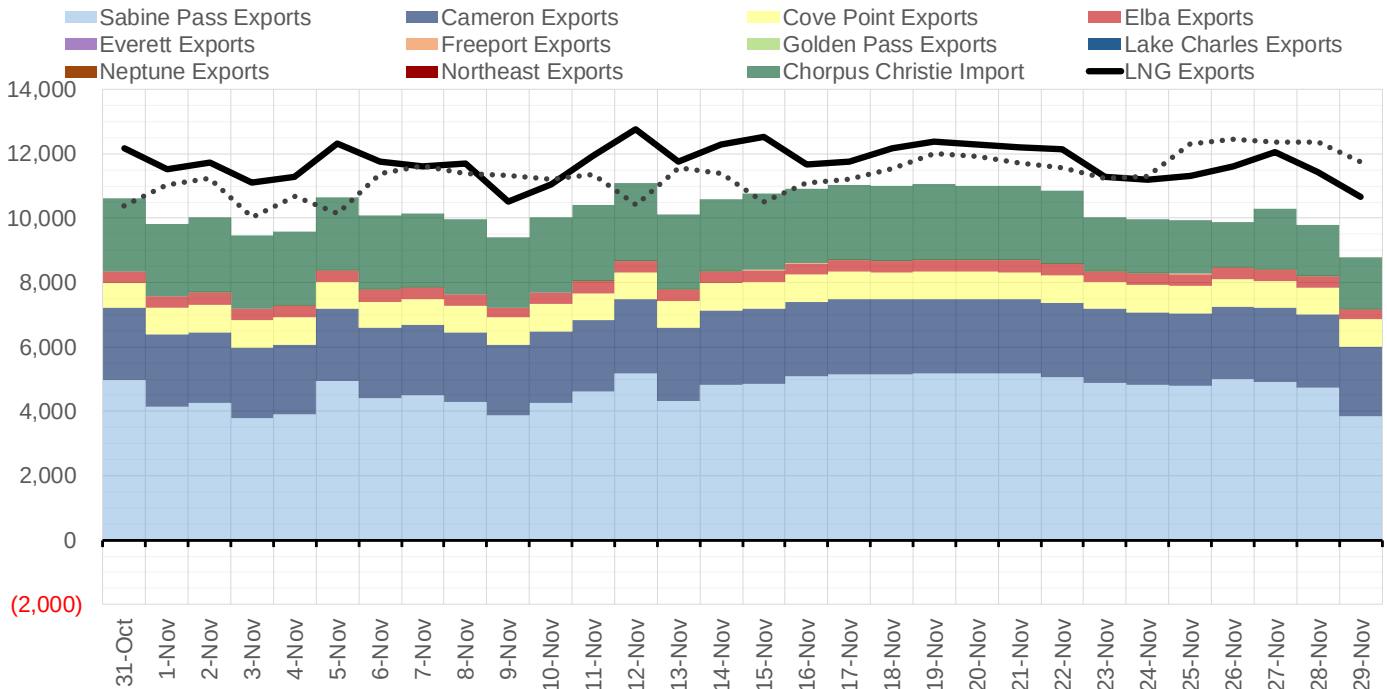
Source: Bloomberg

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
1	2023	P	5.00	4993	3	2023	P	4.00	32224
2	2023	C	12.00	3636	10	2023	P	3.00	31315
1	2023	C	10.00	3552	5	2023	P	2.00	31089
1	2023	P	6.00	3515	3	2023	C	10.00	30206
2	2023	C	9.00	3408	4	2023	P	3.00	27818
2	2023	P	5.00	2951	1	2023	C	10.00	27343
2	2023	C	15.00	2934	2	2023	C	12.00	24424
1	2023	C	8.50	2722	5	2023	P	3.00	24028
1	2023	P	4.75	2579	3	2023	P	3.00	23978
1	2023	C	8.00	2563	1	2023	P	5.00	23756
1	2023	C	20.00	2446	4	2023	P	2.00	23592
7	2023	P	3.00	2175	10	2023	P	2.00	23488
10	2023	P	3.00	2175	10	2023	P	2.50	23430
1	2023	C	12.00	2165	5	2023	C	6.00	23404
1	2023	C	15.00	2145	6	2023	P	3.00	23255
1	2023	P	5.50	1979	7	2023	P	3.00	22045
2	2023	C	7.00	1819	3	2023	P	3.50	21921
3	2023	C	12.00	1778	4	2023	P	3.50	21741
3	2023	C	15.00	1717	8	2023	P	3.00	21706
3	2023	C	7.50	1600	9	2023	P	3.00	21655
3	2023	C	10.00	1509	1	2023	P	4.00	20887
1	2023	P	3.00	1506	3	2023	C	20.00	20318
1	2023	C	7.00	1440	10	2023	P	4.00	20069
2	2023	C	8.00	1428	2	2023	C	9.00	19994
1	2023	P	7.00	1369	2	2023	C	10.00	19987
1	2023	P	4.00	1307	8	2023	P	2.00	19925
1	2023	P	6.25	1252	6	2023	P	2.00	19854
1	2023	P	5.75	1237	5	2023	P	2.50	19831
10	2023	P	2.00	1225	9	2023	P	2.00	19763
1	2023	P	6.50	1101	7	2023	P	2.00	19725
3	2023	C	20.00	1094	2	2023	C	15.00	19311
1	2023	C	9.00	1046	4	2023	P	4.00	19111
1	2023	P	4.50	1046	4	2023	P	2.75	18780
1	2023	C	17.00	1004	6	2023	P	3.50	18385
10	2023	P	2.50	1000	6	2023	P	2.50	18231
4	2023	P	4.50	990	2	2023	C	8.00	18215
2	2023	P	6.00	916	3	2023	P	5.00	18212
1	2023	C	7.50	898	5	2023	P	4.00	17949
1	2023	C	9.50	897	5	2023	P	3.50	17920
3	2023	C	8.00	887	9	2023	P	2.50	17895
2	2023	C	10.00	847	4	2023	P	2.50	17783
1	2023	C	8.25	825	9	2023	P	4.00	17679
1	2023	P	3.50	821	6	2023	P	4.00	17551
2	2023	P	4.75	801	1	2023	P	3.00	17526
3	2023	P	4.75	800	1	2023	P	4.50	16920
3	2023	P	5.00	800	4	2023	C	8.00	16914
1	2023	P	4.60	788	8	2023	P	3.50	16911
1	2023	P	4.10	785	10	2023	P	3.50	16900
2	2023	P	5.50	722	7	2023	P	2.50	16745
					5	2023	P	2.75	16715

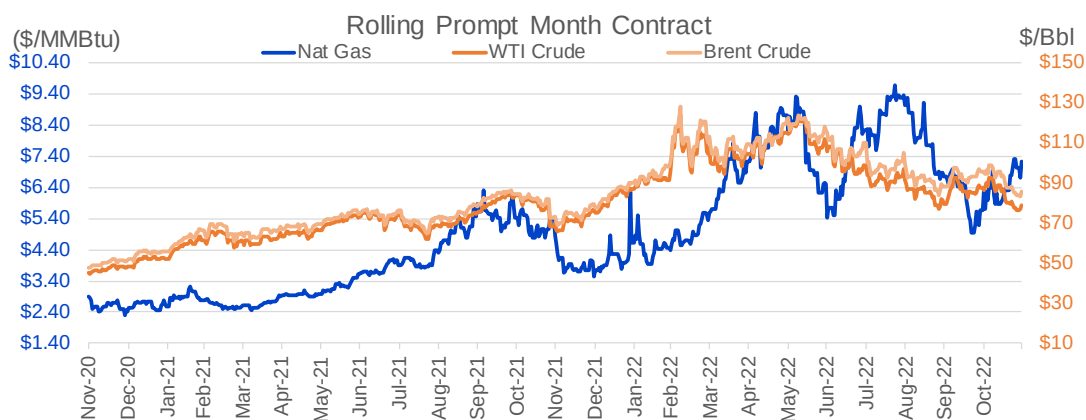
Source: CME, ICE

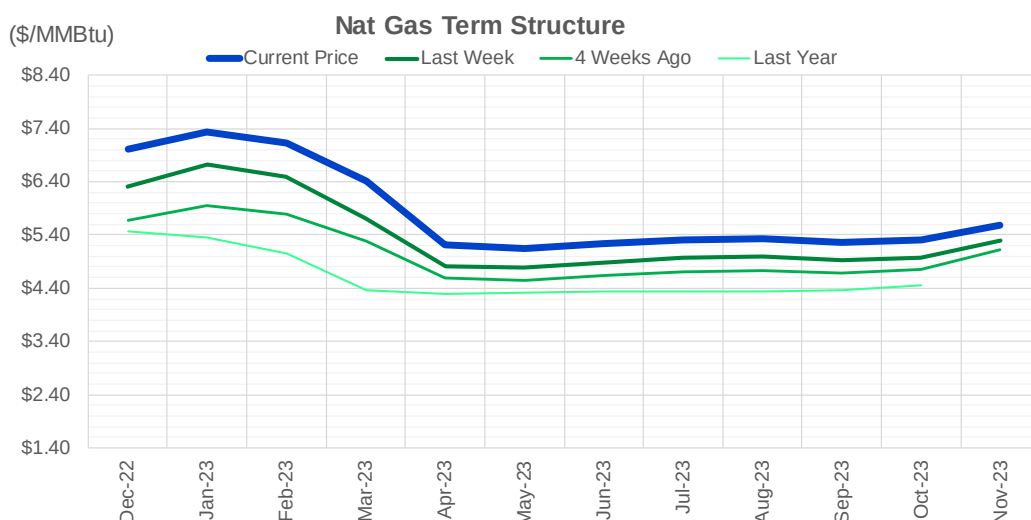
Nat Gas Futures Open Interest

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
JAN 23	930	3211	-2281	JAN 23	79648	78321	1327
FEB 23	161890	165936	-4046	FEB 23	78170	80080	-1911
MAR 23	66708	65356	1352	MAR 23	68944	69158	-214
APR 23	115970	113290	2680	APR 23	68424	68235	189
MAY 23	104884	103528	1356	MAY 23	59208	59554	-345
JUN 23	93400	93507	-107	JUN 23	59957	59949	8
JUL 23	28072	28789	-717	JUL 23	51489	51983	-494
AUG 23	30392	30858	-466	AUG 23	51867	51920	-53
SEP 23	28502	28670	-168	SEP 23	50378	50416	-38
OCT 23	34439	34121	318	OCT 23	48810	48737	73
NOV 23	48494	49148	-654	NOV 23	64154	64242	-88
DEC 23	19332	19490	-158	DEC 23	48789	49046	-257
JAN 24	30122	30236	-114	JAN 24	45293	45602	-309
FEB 24	37608	36246	1362	FEB 24	47913	48056	-143
MAR 24	12999	12829	170	MAR 24	31404	31793	-390
APR 24	24813	24811	2	APR 24	38820	39369	-550
MAY 24	24034	23644	390	MAY 24	33497	33090	408
JUN 24	10492	10423	69	JUN 24	31727	31854	-127
JUL 24	3584	3546	38	JUL 24	28212	28218	-6
AUG 24	4905	4854	51	AUG 24	27656	27679	-23
SEP 24	4454	4427	27	SEP 24	26809	26832	-23
OCT 24	3805	3730	75	OCT 24	26509	26545	-36
NOV 24	10086	10024	62	NOV 24	30699	30715	-16
DEC 24	4976	4937	39	DEC 24	27536	27449	88
JAN 25	8721	8745	-24	JAN 25	31507	31433	74
FEB 25	18669	18662	7	FEB 25	25732	25863	-131
MAR 25	1880	1880	0	MAR 25	15858	15836	22
APR 25	6224	6187	37	APR 25	17622	17705	-84
MAY 25	6856	6856	0	MAY 25	17104	16908	197
JUN 25	2815	2815	0	JUN 25	16087	15961	126

Source: CME, ICE



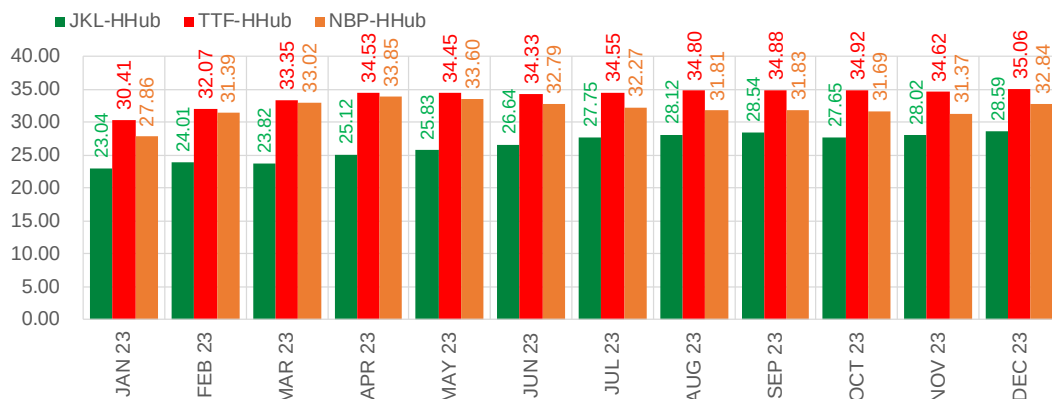
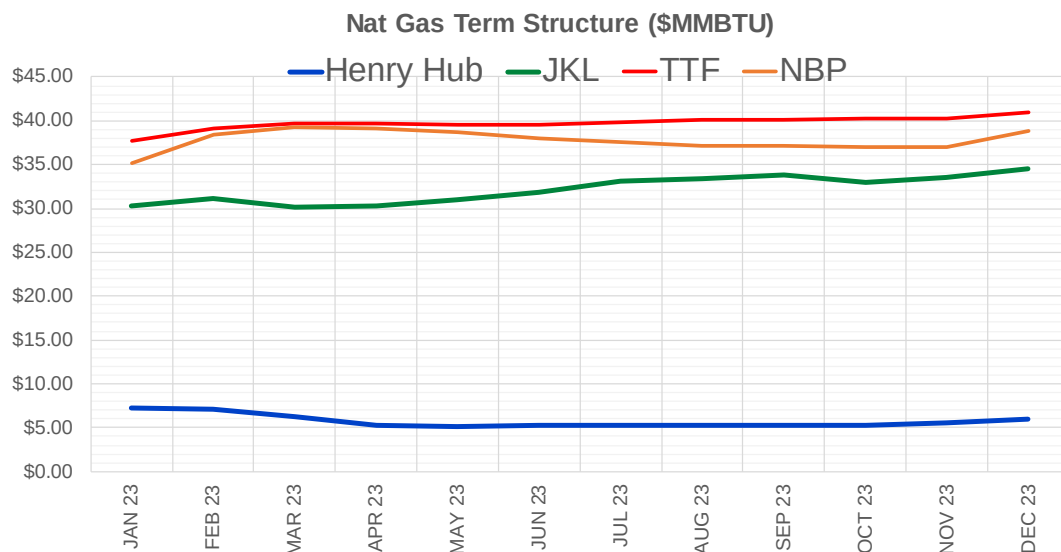


	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Current Price	\$7.024	\$7.330	\$7.135	\$6.424	\$5.215	\$5.150	\$5.231	\$5.315	\$5.320	\$5.261	\$5.316	\$5.581
Last Week	\$6.303	\$6.716	\$6.483	\$5.703	\$4.814	\$4.786	\$4.875	\$4.968	\$4.985	\$4.931	\$4.979	\$5.287
vs. Last Week	\$0.721	\$0.614	\$0.652	\$0.721	\$0.401	\$0.364	\$0.356	\$0.347	\$0.335	\$0.330	\$0.337	\$0.294
4 Weeks Ago	\$5.684	\$5.953	\$5.794	\$5.276	\$4.601	\$4.556	\$4.630	\$4.708	\$4.727	\$4.688	\$4.756	\$5.116
vs. 4 Weeks Ago	\$1.340	\$1.377	\$1.341	\$1.148	\$0.614	\$0.594	\$0.601	\$0.607	\$0.593	\$0.573	\$0.560	\$0.465
Last Year	\$5.447	\$5.477	\$5.364	\$5.044	\$4.352	\$4.285	\$4.310	\$4.346	\$4.350	\$4.330	\$4.367	\$4.454
vs. Last Year	\$1.577	\$1.853	\$1.771	\$1.380	\$0.863	\$0.865	\$0.921	\$0.969	\$0.970	\$0.931	\$0.949	\$1.127

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	5.90	24.82	18.92
TETCO M3	\$/MMBtu	5.50	9.43	3.93
FGT Zone 3	\$/MMBtu	6.20	7.22	1.02
Zone 6 NY	\$/MMBtu	6.20	9.86	3.66
Chicago Citygate	\$/MMBtu	5.60	6.96	1.36
Michcon	\$/MMBtu	5.57	6.39	0.82
Columbia TCO Pool	\$/MMBtu	5.74	6.01	0.27
Ventura	\$/MMBtu	5.44	7.59	2.15
Rockies/Opal	\$/MMBtu	12.25	6.90	-5.35
El Paso Permian Basin	\$/MMBtu	5.40	5.14	-0.26
Socal Citygate	\$/MMBtu	11.50	9.50	-2.00
Malin	\$/MMBtu	13.45	8.89	-4.56
Houston Ship Channel	\$/MMBtu	5.67	6.09	0.42
Henry Hub Cash	\$/MMBtu	6.02	6.21	0.19
AECO Cash	C\$/GJ	5.15	5.03	-0.12
Station2 Cash	C\$/GJ	3.74	10.07	6.33
Dawn Cash	C\$/GJ	5.65	6.60	0.95

Source: CME, Bloomberg

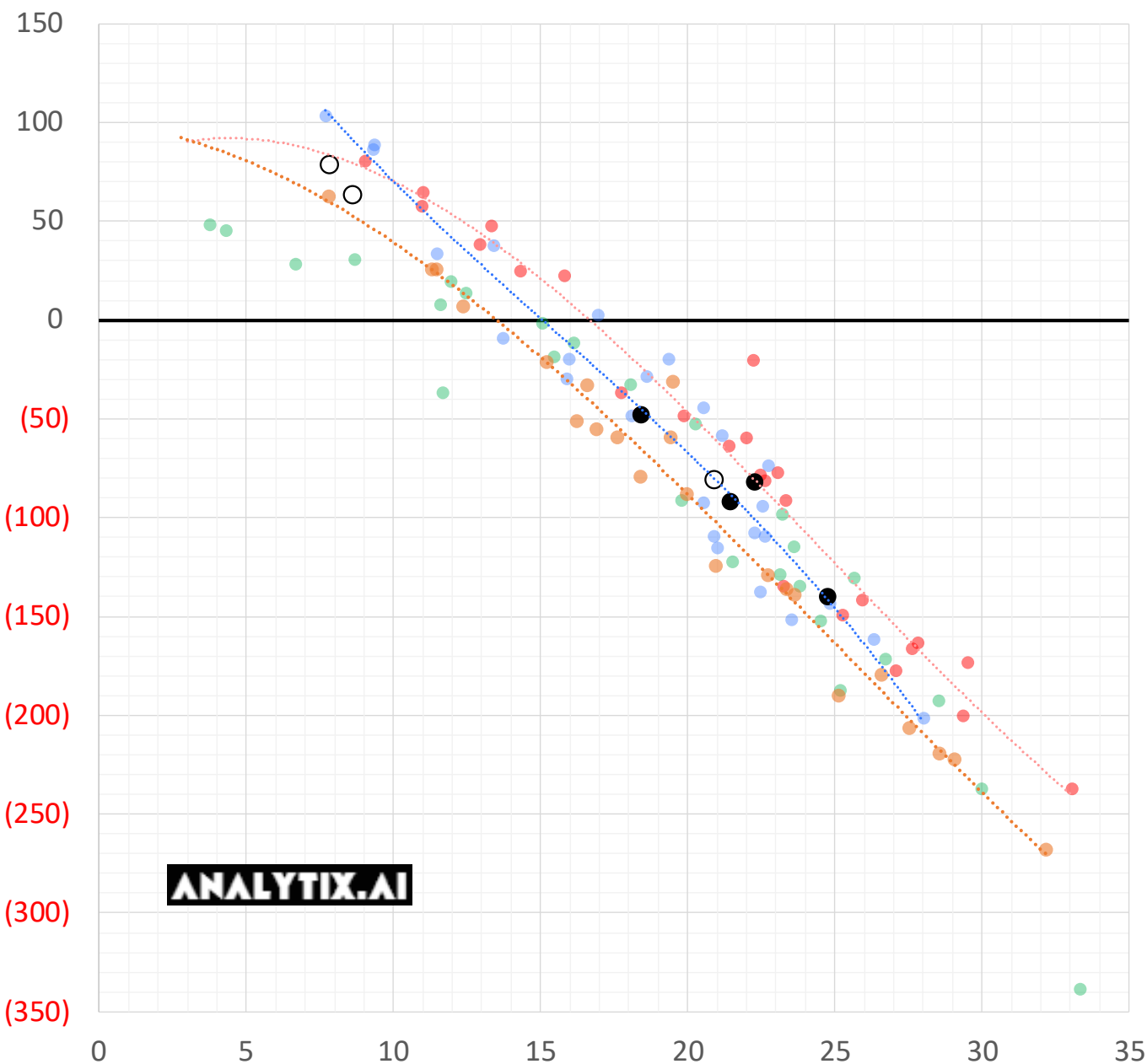
	Units	Current Price	vs. 4 Weeks			
			vs. Last Week	Ago	vs. Last Year	
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 0.000	
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.000	
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -0.830	
NatGas Apr22/Oct22	\$/MMBtu	1.532	▲ 0.000	▲ 0.000	▲ 1.473	
WTI Crude	\$/Bbl	77.24	▼ -2.490	▼ -9.290	▲ 7.290	
Brent Crude	\$/Bbl	83.19	▼ -4.260	▼ -11.640	▲ 9.750	
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000	
Heating Oil	cents/Gallon	321.54	▼ -28.190	▼ -97.550	▲ 106.330	
Propane, Mt. Bel	cents/Gallon	0.85	▼ -0.011	▼ -0.004	▼ -0.412	
Ethane, Mt. Bel	cents/Gallon	0.40	▼ -0.001	▼ -0.001	▲ 0.001	
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				



	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23	DEC 23
Henry Hub	\$7.242	\$7.070	\$6.309	\$5.212	\$5.156	\$5.230	\$5.301	\$5.310	\$5.258	\$5.326	\$5.588	\$5.948
JKL	\$30.280	\$31.075	\$30.130	\$30.335	\$30.985	\$31.865	\$33.050	\$33.425	\$33.800	\$32.980	\$33.605	\$34.535
JKL-HHub	\$23.038	\$24.005	\$23.821	\$25.123	\$25.829	\$26.635	\$27.749	\$28.115	\$28.542	\$27.654	\$28.017	\$28.587
TTF	\$37.655	\$39.136	\$39.656	\$39.739	\$39.604	\$39.564	\$39.855	\$40.111	\$40.135	\$40.242	\$40.209	\$41.004
TTF-HHub	\$30.413	\$32.066	\$33.347	\$34.527	\$34.448	\$34.334	\$34.554	\$34.801	\$34.877	\$34.916	\$34.621	\$35.056
NBP	\$35.099	\$38.461	\$39.333	\$39.061	\$38.758	\$38.024	\$37.573	\$37.119	\$37.084	\$37.014	\$36.955	\$38.790
NBP-HHub	\$27.857	\$31.391	\$33.024	\$33.849	\$33.602	\$32.794	\$32.272	\$31.809	\$31.826	\$31.688	\$31.367	\$32.842

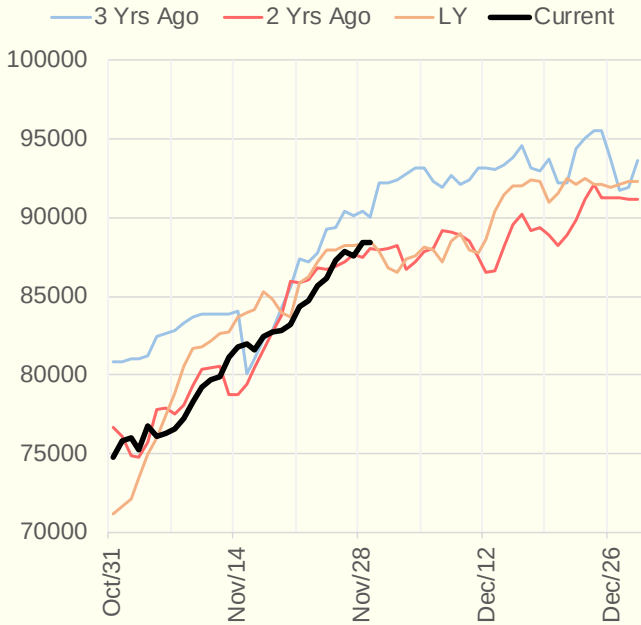
Weather Storage Model - Next 4 Week Forecast

● Winter 18/19 ● Winter 19/20 ● Winter 20/21 ● Winter 21/22 ● Next 4 weeks

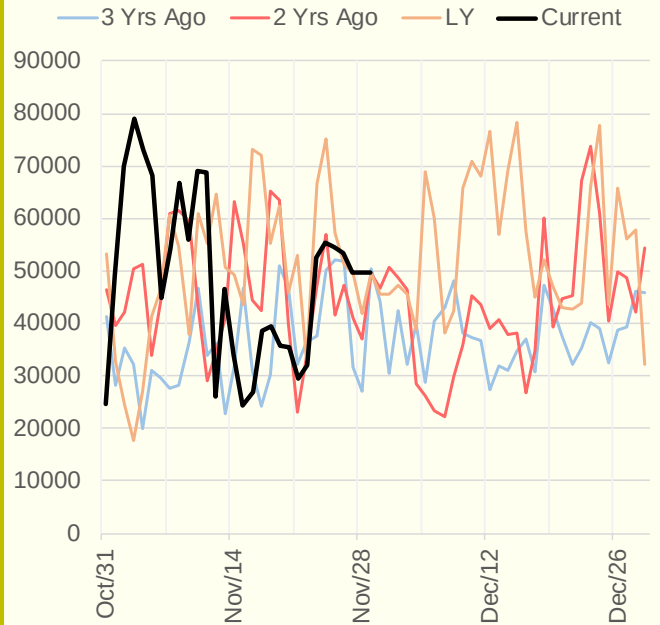


ANALYTIX.AI

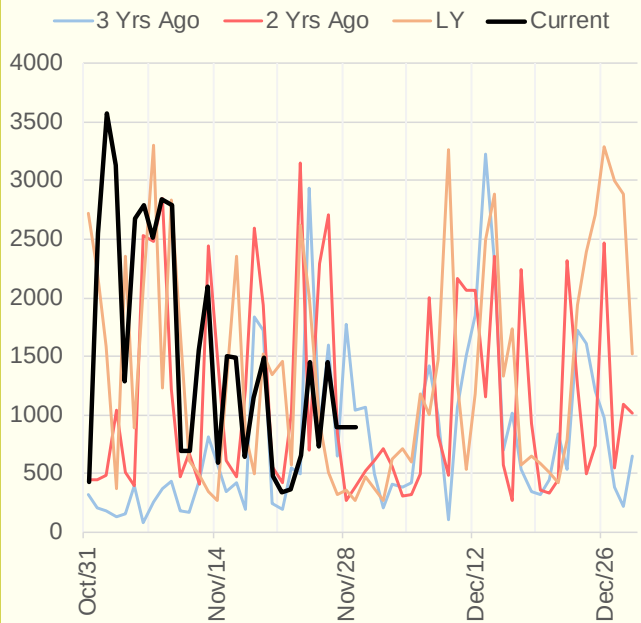
NRC Nuclear Daily Output



US Wind



CALI Wind



TEXAS Wind

