

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 6.34 ▲	\$ 0.03 ▲	\$ 0.13 ▲

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 79.53 ▼	\$ (0.55) ▼	\$ (3.4) ▼

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 87.11 ▼	\$ (0.51) ▼	\$ (3.2) ▼

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[Lower 48 Component Models](#)

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

[Weather Model Storage Projection](#)

[Supply – Demand Trends](#)

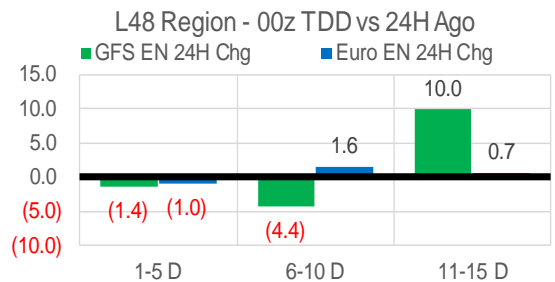
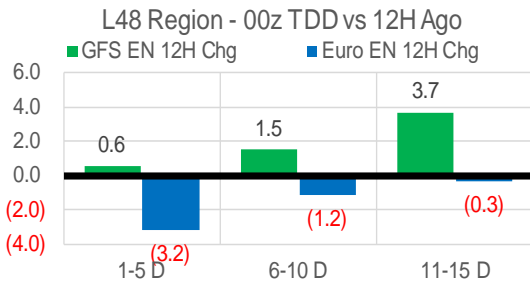
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

[Price Summary](#)

Vs. 12H Ago

Vs. 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	101.5 ▲	0.58 ▲	0.56 ▲

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	31.9 ▲	0.23 ▲	-0.32 ▼

	Current	Δ from YD	Δ from 7D Avg
US ResComm	39.9 ▼	-5.91 ▼	-1.86 ▼

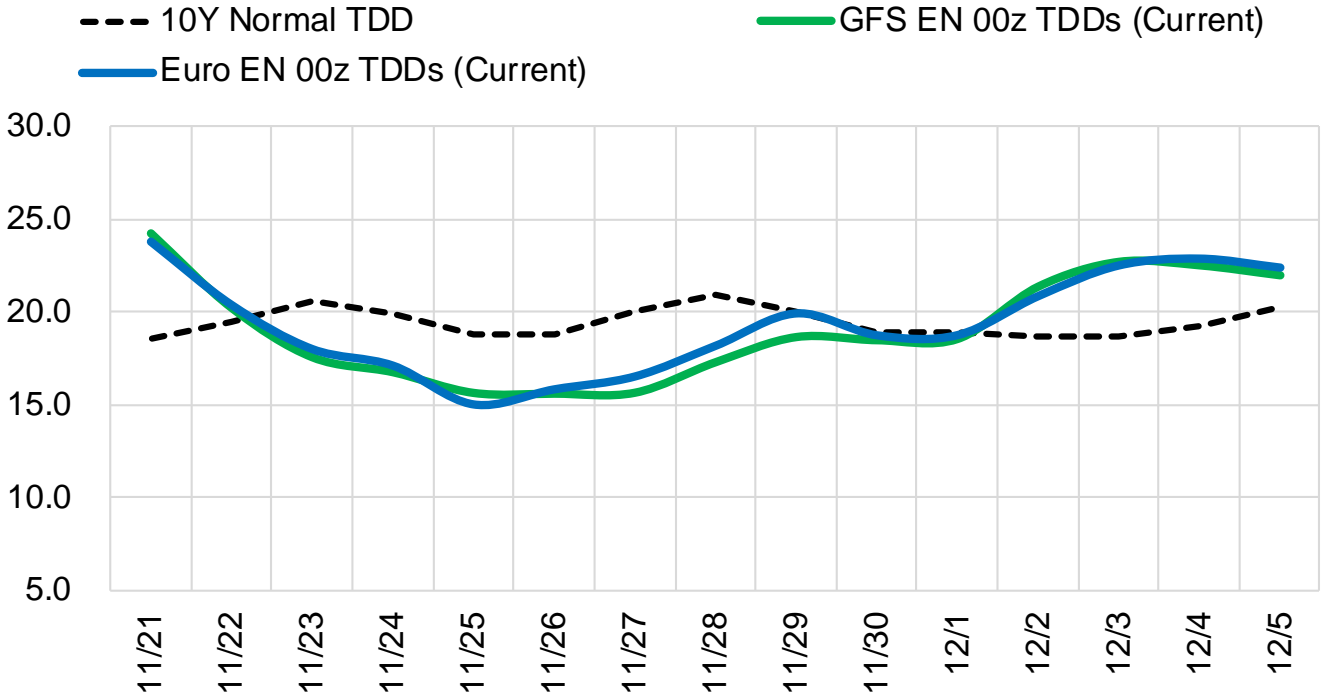
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.6 ▲	0.04 ▲	-0.11 ▼

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.4 ▲	0.14 ▲	0.27 ▲

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.2 ▲	0.12 ▲	-0.16 ▼

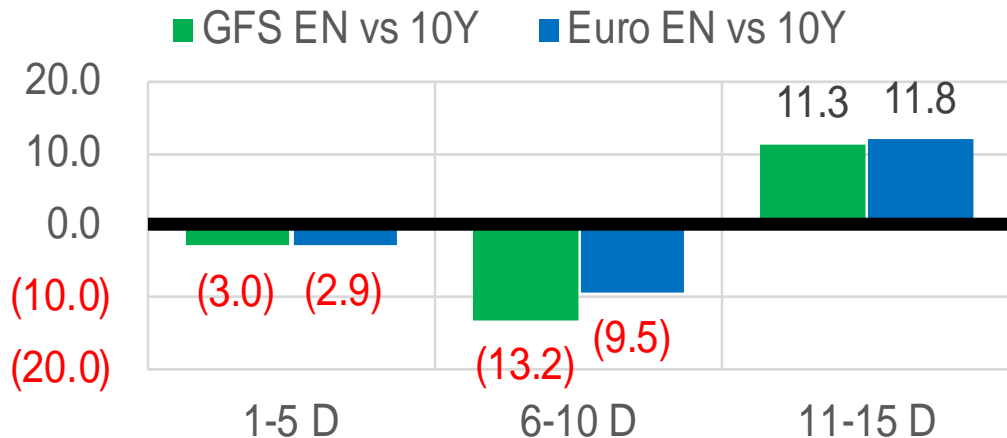
Short-term Weather Model Outlooks (00z)

L48 Region



Vs. 10Y Normal

L48 Region - 00z TDD vs 10Y Normal



Source: WSI , Bloomberg

Lower 48 Component Models

Daily Balances

	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	DoD	vs. 7D
Lower 48 Dry Production	100.9	100.5	100.3	100.7	101.2	100.9	101.5	▲ 0.6	▲ 0.7
Canadian Imports	6.7	6.7	7.0	6.7	6.5	6.6	6.6	▲ 0.0	▼ -0.1
L48 Power	33.7	33.2	32.5	31.6	30.4	31.7	31.9	▲ 0.2	▼ -0.3
L48 Residential & Commercial	38.4	38.5	41.5	44.4	44.8	45.8	39.9	▼ -5.9	▼ -2.4
L48 Industrial	25.0	24.8	24.7	24.6	24.4	24.1	23.4	▼ -0.7	▼ -1.2
L48 Lease and Plant Fuel	5.6	5.6	5.6	5.6	5.6	5.6	5.6	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	4.1	4.1	4.3	4.4	4.3	4.5	4.1	▼ -0.3	▼ -0.2
L48 Regional Gas Consumption	106.9	106.2	108.6	110.6	109.6	111.6	104.9	▼ -6.7	▼ -4.0
Net LNG Delivered	12.52	11.67	11.77	12.16	12.38	12.28	12.42	▲ 0.1	▲ 0.3
Total Mexican Exports	6.6	6.4	6.4	6.3	6.2	6.1	6.2	▲ 0.1	▼ -0.1
Implied Daily Storage Activity	-18.4	-17.0	-19.5	-21.6	-20.6	-22.5	-15.4		
EIA Reported Daily Storage Activity									
Daily Model Error									

EIA Storage Week Balances

	LY		LW			Current		
	19-Nov	21-Oct	28-Oct	4-Nov	11-Nov	18-Nov	WoW	vs. LY
Lower 48 Dry Production	95.7	100.3	101.0	101.1	100.4	101.1	▲ 0.7	▲ 5.4
Canadian Imports	4.9	6.1	5.3	4.9	4.2	6.6	▲ 2.4	▲ 1.7
L48 Power	28.5	30.9	28.9	29.5	29.1	31.4	▲ 2.3	3.0
L48 Residential & Commercial	26.3	20.9	15.9	17.6	17.7	35.4	▲ 17.7	9.1
L48 Industrial	24.4	20.0	21.1	21.3	22.9	24.8	▲ 1.9	0.4
L48 Lease and Plant Fuel	5.3	5.6	5.6	5.6	5.6	5.6	▲ 0.0	0.3
L48 Pipeline Distribution	3.2	3.2	2.8	2.8	2.7	3.8	▲ 1.2	0.7
L48 Regional Gas Consumption	87.7	80.6	74.4	77.0	77.9	101.1	▲ 23.2	▲ 13.5
Net LNG Exports	11.1	11.5	11.4	11.9	11.5	12.1	▲ 0.6	▲ 1.0
Total Mexican Exports	6.0	6.7	6.4	6.3	6.3	6.5	▲ 0.2	▲ 0.5
Implied Daily Storage Activity	-4.2	7.6	14.2	10.7	8.9	-12.0	-20.9	-7.8
EIA Reported Daily Storage Activity	-3.0	7.4	15.3	11.3	9.1			
Daily Model Error	-1.2	0.2	-1.1	-0.5	-0.3			

Monthly Balances

	2Yr Ago	LY		MTD					
	Nov-20	Nov-21	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	MoM	vs. LY
Lower 48 Dry Production	91.2	96.4	97.8	98.2	100.5	101.2	100.7	▼ -0.5	▲ 4.3
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	30.3	▲ 0.2	▲ 1.0
L48 Residential & Commercial	24.4	28.2	8.2	7.8	8.9	16.6	27.7	▲ 11.1	▼ -0.5
L48 Industrial	22.5	23.3	19.4	19.7	20.5	20.6	23.6	▲ 2.9	▲ 0.3
L48 Lease and Plant Fuel	5.0	5.4	5.5	5.5	5.5	5.7	5.6	▼ 0.0	▲ 0.2
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	90.6	▲ 14.6	▲ 1.0
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	6.4	▼ -0.2	▲ 0.2
Implied Daily Storage Activity	-0.7	-5.3	4.8	5.8	13.6	13.1	-2.6		
EIA Reported Daily Storage Activity									
Daily Model Error					-0.5				

Source: Bloomberg, analytix.ai

Daily Average Generation Data

Nuclear Generation Daily Average - GWh (NRC)

	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	DoD	vs. 7D
NRC Nuclear Daily Output	81.1	81.8	82.0	81.6	82.4	82.7	82.7	0.0	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	23.7	23.1	22.9	23.3	22.5	22.1	22.1	0.0	-0.8
NRC % Nuclear Cap Utilization	82.5	83.2	83.4	83.0	83.8	84.1	84.1	0.0	0.8

Wind Generation Daily Average - MWh (EIA)

	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	DoD	vs. 7D
CALI Wind	2100	584	1495	1489	646	736	1486	750	311
TEXAS Wind	17043	14340	8006	4332	9096	9517	7609	-1909	-2781
US Wind	46489	34034	24485	26976	38525	40334	36141	-4192	1001

Generation Daily Average - MWh (EIA)

	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	DoD	vs. 7D
US Wind	46489	34034	24485	26976	38525	40334	36141	-4192	1001
US Solar	10861	10792	9242	10513	12032	11729	9768	-1961	-1094
US Petroleum	938	1180	1162	1344	914	910	612	-298	-463
US Other	8099	8547	8454	7944	7962	8686	8007	-679	-275
US Coal	56822	66322	69631	70038	71152	72086	72915	829	5240
US Nuke	74737	75328	75024	75344	76300	76531	76789	258	1245
US Hydro	22567	26824	26705	25732	26863	27176	24533	-2643	-1445
US Gas	129058	155708	168216	164358	157883	155305	153271	-2034	-1817

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

Storage Week Average Generation Data

Nuclear Generation Weekly Average - GWh (NRC)

	19-Nov	21-Oct	28-Oct	4-Nov	11-Nov	18-Nov	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	83.9	74.4	74.1	75.8	77.2	81.2	4.0	-0.8
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	21.0	30.5	30.7	29.1	27.7	23.7	-4.0	
NRC % Nuclear Cap Utilization	85.3	75.6	75.4	77.1	78.5	82.6	4.1	

Wind Generation Weekly Average - MWh (EIA)

	19-Nov	21-Oct	28-Oct	4-Nov	11-Nov	18-Nov	WoW	WoW Bcf/d Impact
CALI Wind	860	944	1974	1641	2226	1221	-1005	0.2
TEXAS Wind	13655	9710	17228	10904	12095	11139	-956	0.2
US Wind	58369	45195	64748	44699	58184	37915	-20269	3.8
							-35%	
							-0.1	

Generation Weekly Average - MWh (EIA)

	19-Nov	21-Oct	28-Oct	4-Nov	11-Nov	18-Nov	WoW	WoW Bcf/d Impact
					LY	Current		
US Wind	58369	45195	64748	44699	58184	37915	-20269	3.8
US Solar	10070	14347	13756	11428	10356	10567	211	0.0
US Petroleum	878	1054	933	990	1004	1067	64	0.0
US Other	7853	11285	9085	10014	9807	8525	-1282	0.2
US Coal	77745	79517	69841	75083	60391	66061	5670	-1.1
US Nuke	88370	76583	77718	79723	77521	76175	-1346	0.3
US Hydro	26231	19318	19097	21591	22653	25188	2535	-0.5
US Gas	146998	162313	148302	157761	146778	152299	5521	1.0

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	Aug-22	Sep-22	Oct-22	Nov-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	NRC Nuclear Daily Output	78.5	77.8	90.5	86.2	76.1	79.4	78.1	3.3
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	26.3	27.1	14.3	18.7	28.8	25.5	26.8	-3.3	-0.3
NRC % Nuclear Cap Utilization	79.9	79.1	92.1	87.7	77.4	80.7	79.4	3.4	0.3

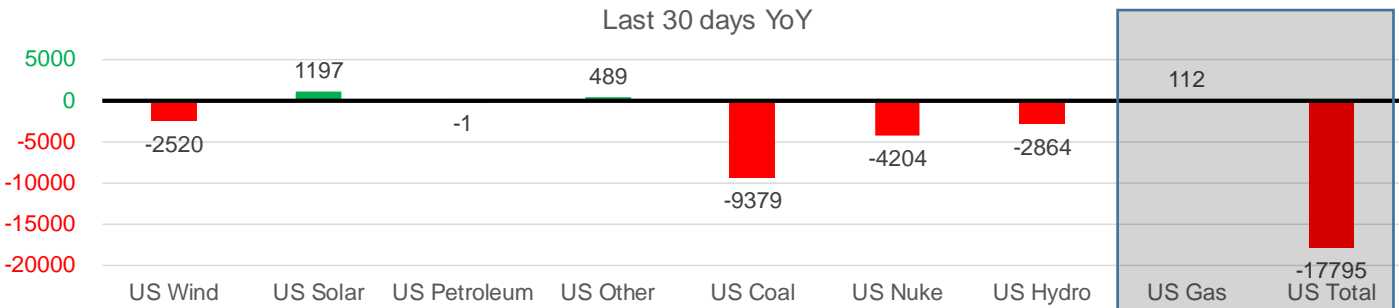
Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Aug-22	Sep-22	Oct-22	Nov-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	CALI Wind	1213	1617	2028	1608	1239	1838	1654	599
TEXAS Wind	9748	12729	8440	7993	9916	11546	11754	1630	-975
US Wind	43266	50725	33222	38270	43698	48561	48204	4864	-2520

Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						
	Same 30 days	Same 30 days	Aug-22	Sep-22	Oct-22	Nov-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	US Wind	43266	50725	33222	38270	43698	48561	48204	▼ -357.2
US Solar	7251	9932	16962	16163	14198	10462	11129	▲ 666.2	▲ 1197
US Petroleum	901	964	1251	864	899	963	962	▼ -1	▼ -1
US Other	8956	8701	10597	10512	10517	9142	9190	▲ 48	▲ 489
US Coal	87785	77890	117203	92002	75808	65713	68511	▲ 2798	▼ -9379
US Nuke	82347	81893	92976	89062	78132	77239	77689	▲ 450	▼ -4204
US Hydro	28979	25651	30192	25203	19926	24126	22787	▼ -1339	▼ -2864
US Gas	141775	152146	233739	200120	162343	151172	152258	▲ 2264	▲ 112
US Total	400221	408245	535696	470764	405842	387100	390450	▲ 4885	▼ -17795

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

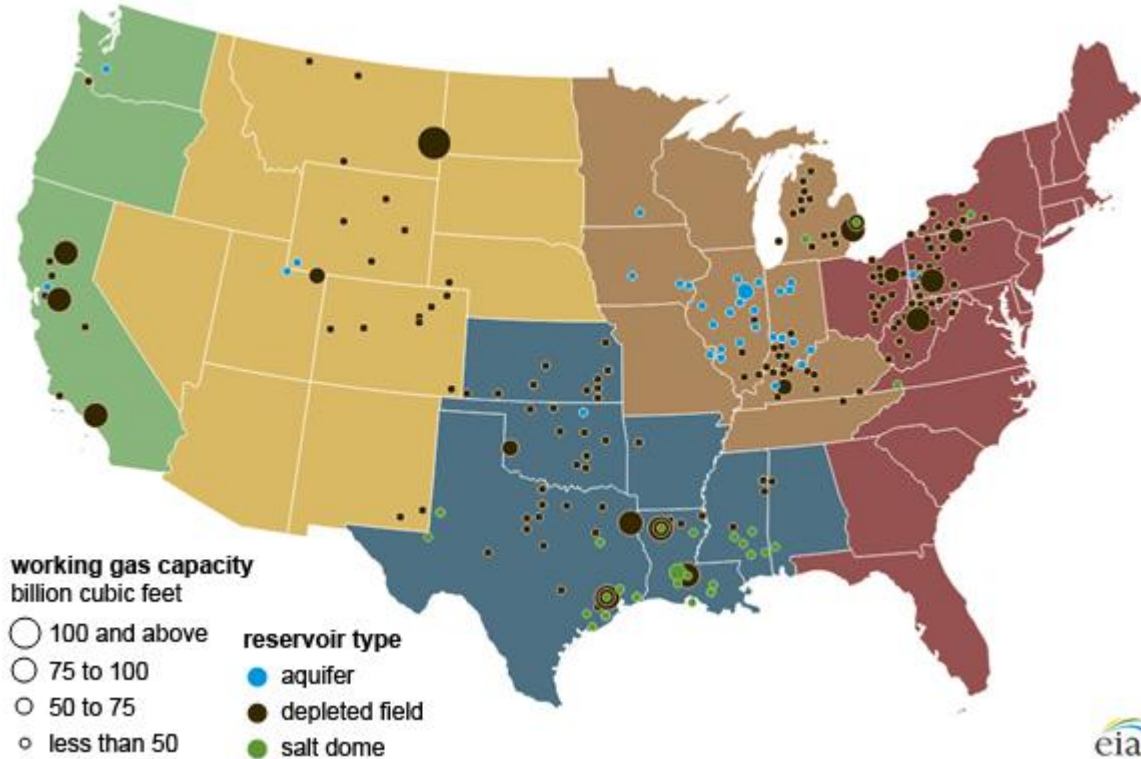
Regional S/D Models Storage Projection

Week Ending 18-Nov

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-11.1	-0.7	-11.8	-83
East	-4.7	2.2	-2.4	-17
Midwest	-2.9	0.1	-2.8	-19
Mountain	2.9	-4.1	-1.2	-8
South Central	-5.2	1.2	-4.0	-28
Pacific	-1.3	-0.2	-1.5	-10

*Adjustment Factor is calculated based on historical regional deltas

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

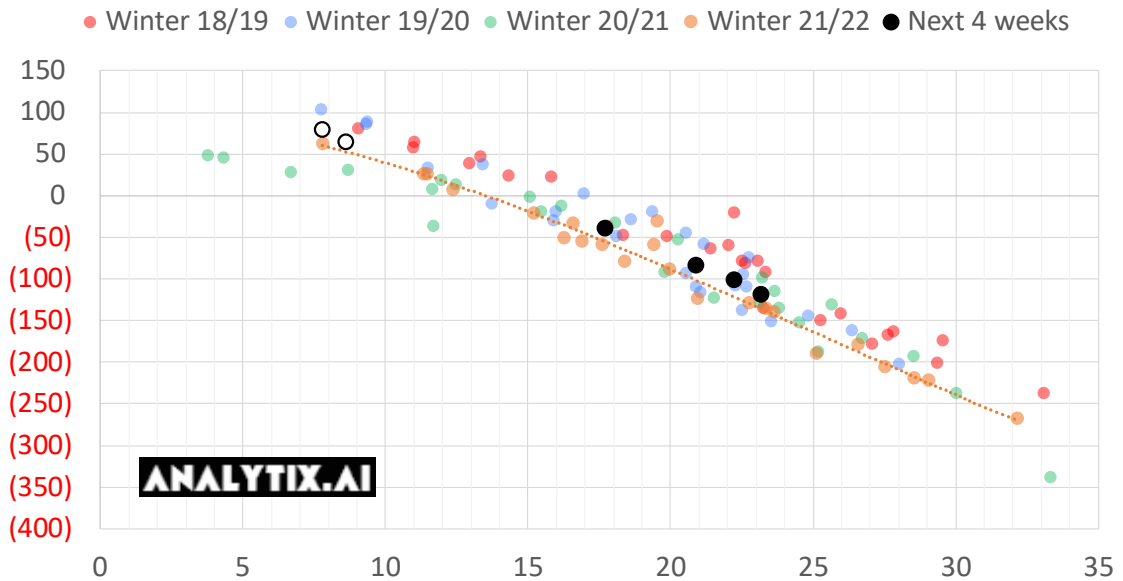


Weather Model Storage Projection

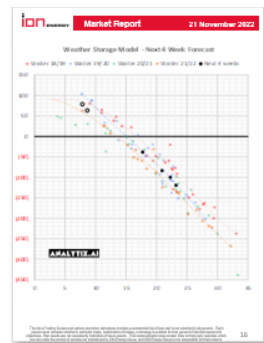
Next report and beyond

Week Ending	GWDDs	Week Storage Projection
18-Nov	20.9	-83
25-Nov	22.2	-100
02-Dec	17.7	-38
09-Dec	23.2	-119

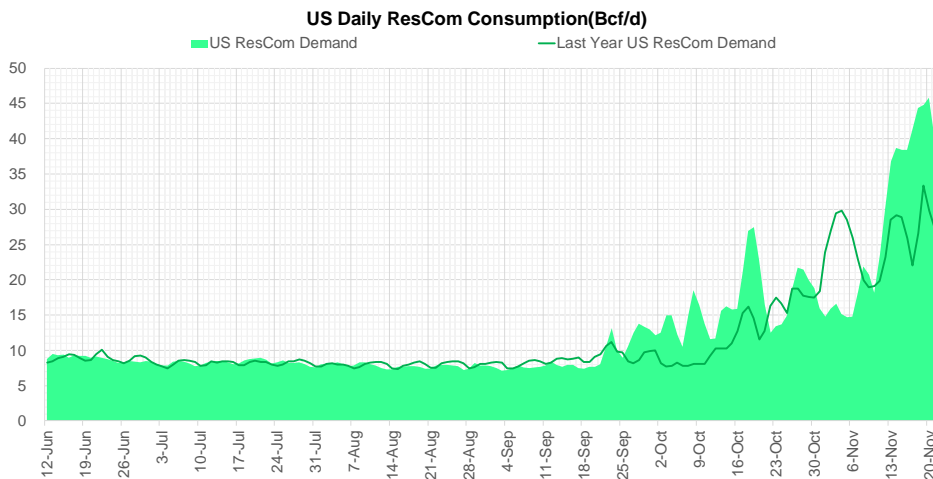
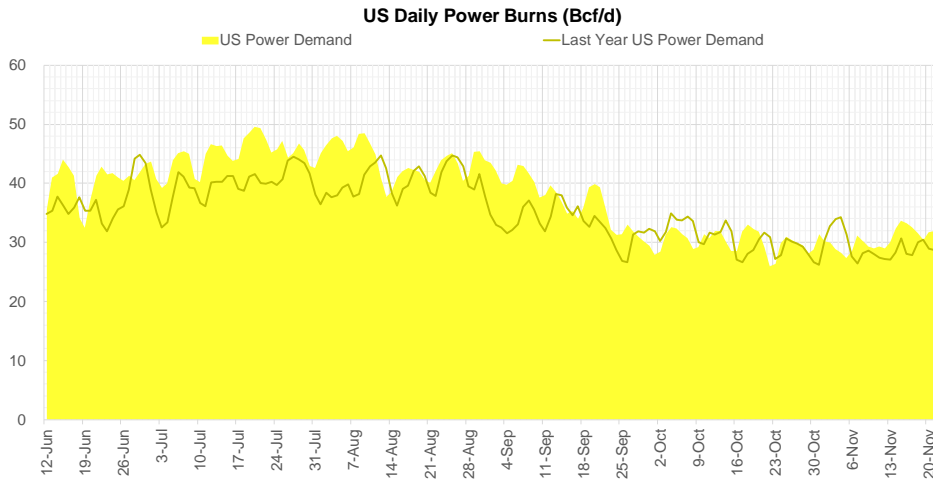
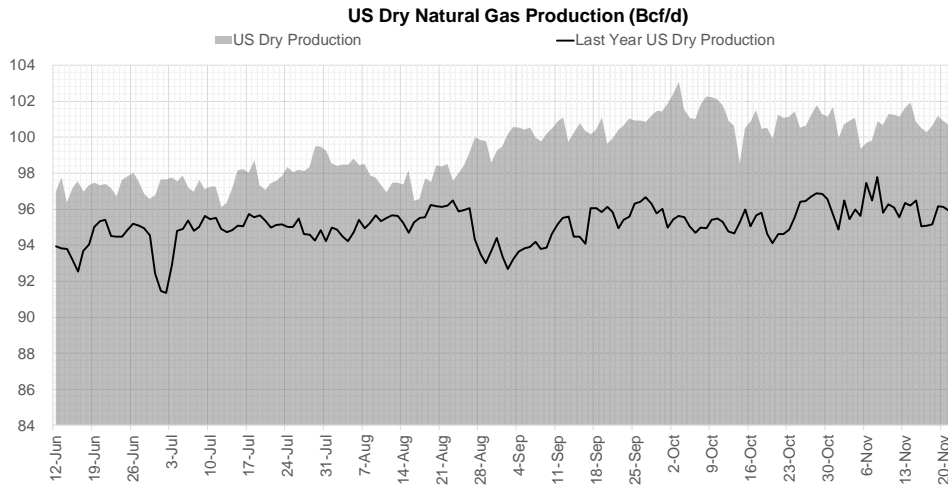
Weather Storage Model - Next 4 Week Forecast



Go to larger image



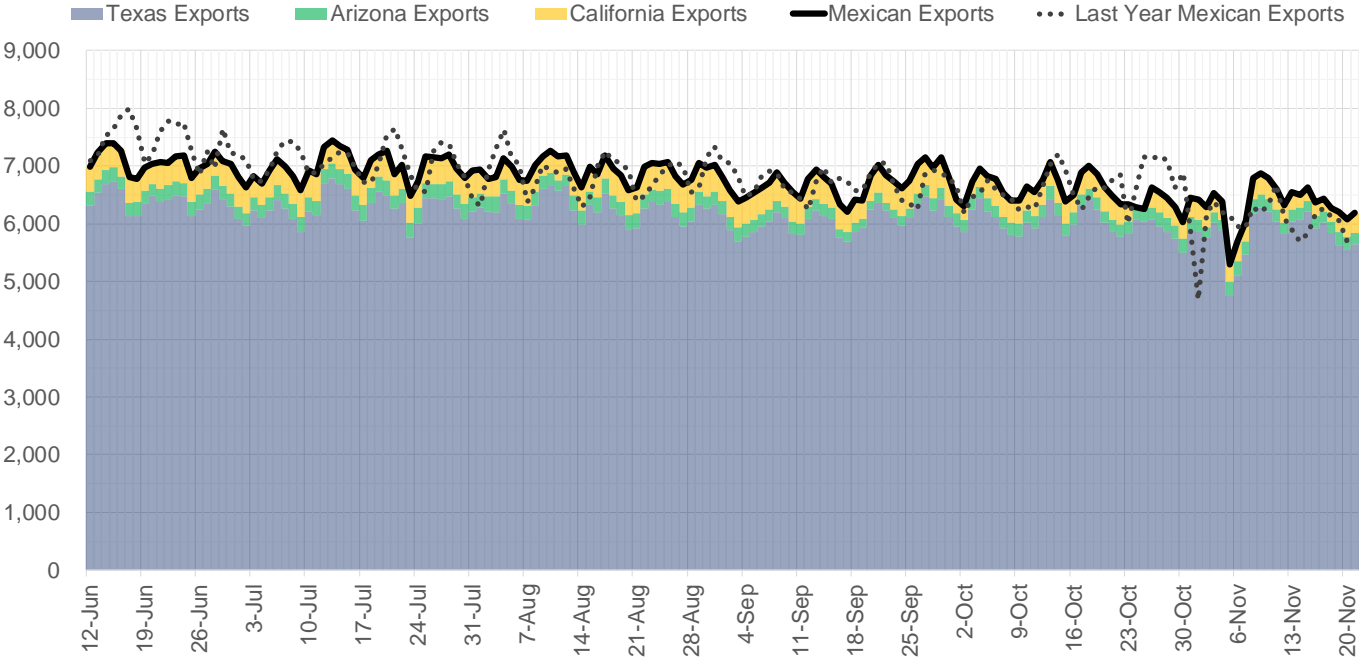
Supply – Demand Trends



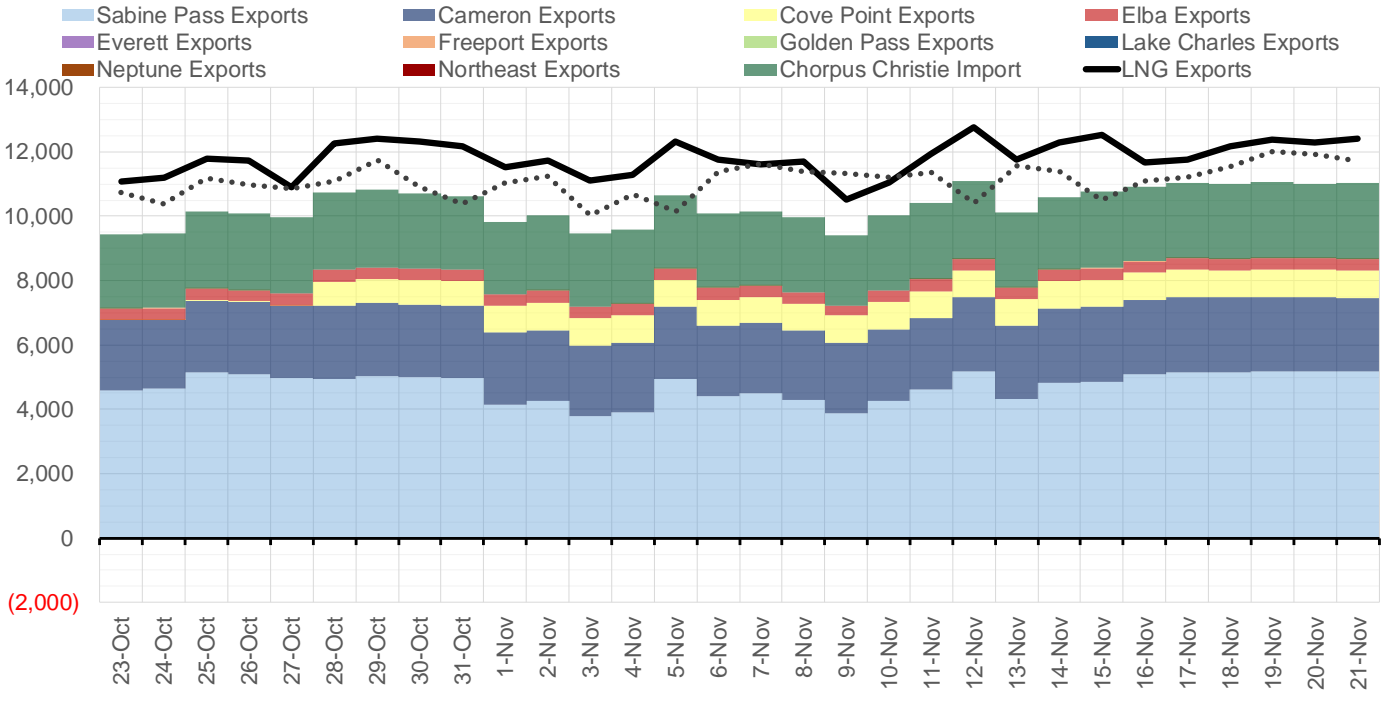
Source: Bloomberg

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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

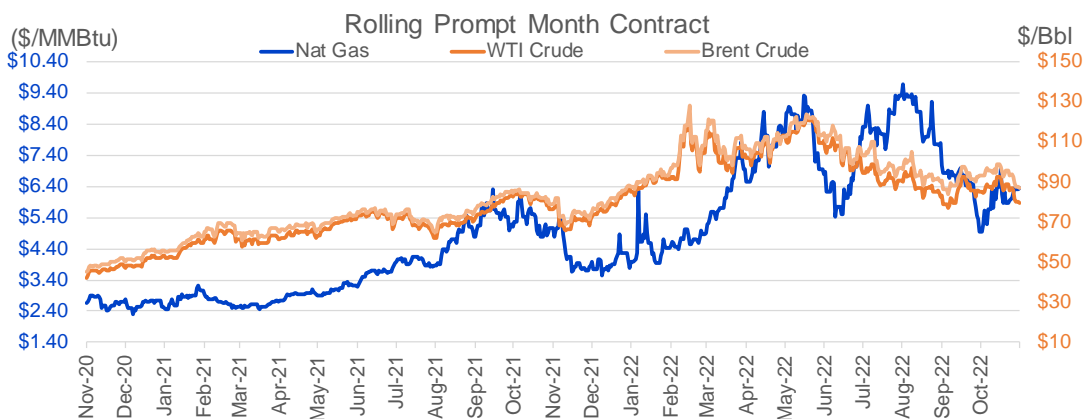
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
5	2023	C	6.00	8475	12	2022	P	4.00	49327
12	2022	P	5.00	6788	12	2022	P	5.00	43440
12	2022	P	6.00	5573	12	2022	P	6.00	33685
12	2022	C	7.00	3892	10	2023	P	3.00	31280
12	2022	C	8.00	3351	12	2022	P	4.50	31183
12	2022	C	10.00	2943	5	2023	P	2.00	31104
1	2023	C	15.00	2743	12	2022	C	10.00	30591
12	2022	P	5.50	2538	1	2023	C	10.00	28638
12	2022	C	7.50	2449	4	2023	P	3.00	28208
12	2022	P	4.75	2305	12	2022	P	3.50	27726
4	2023	C	7.00	1875	1	2023	P	5.00	27272
5	2023	C	7.00	1875	3	2023	C	10.00	26735
6	2023	C	7.00	1875	12	2022	P	4.75	25922
1	2023	P	5.00	1864	10	2023	P	2.50	23680
10	2023	C	10.00	1760	4	2023	P	2.00	23667
12	2022	P	5.25	1712	3	2023	P	4.00	23588
1	2023	P	4.50	1601	12	2022	C	8.00	23509
12	2022	C	6.50	1537	10	2023	P	2.00	23488
4	2023	P	2.75	1500	5	2023	P	3.00	23418
5	2023	P	2.75	1500	5	2023	C	6.00	23224
6	2023	P	2.75	1500	12	2022	C	6.00	22989
4	2023	P	2.00	1450	6	2023	P	3.00	22665
5	2023	P	2.00	1450	4	2023	P	3.50	21731
6	2023	P	2.00	1450	7	2023	P	3.00	21535
1	2023	C	10.00	1428	8	2023	P	3.00	21246
4	2023	C	7.25	1350	9	2023	P	3.00	21195
5	2023	C	5.00	1350	12	2022	C	7.00	21171
5	2023	C	7.25	1350	2	2023	C	10.00	20601
6	2023	C	7.25	1350	1	2023	P	4.00	20502
3	2023	P	3.50	1300	3	2023	P	3.00	20302
3	2023	P	3.00	1250	12	2022	P	3.00	20059
12	2022	C	9.00	1199	8	2023	P	2.00	19925
1	2023	P	3.00	1161	6	2023	P	2.00	19879
4	2023	C	10.00	1160	9	2023	P	2.00	19763
5	2023	C	10.00	1160	10	2023	P	4.00	19759
6	2023	C	10.00	1160	7	2023	P	2.00	19725
7	2023	C	10.00	1160	3	2023	C	20.00	18900
8	2023	C	10.00	1160	5	2023	P	2.50	18900
9	2023	C	10.00	1160	4	2023	P	2.75	18780
1	2023	C	6.50	1104	4	2023	P	4.00	18688
2	2023	C	6.50	1103	12	2022	P	5.50	18568
5	2023	C	9.50	1100	6	2023	P	2.50	18450
7	2023	P	4.00	1085	6	2023	P	3.50	18435
4	2023	P	4.00	1075	12	2022	C	5.00	18411
5	2023	P	4.00	1075	4	2023	P	2.50	18353
6	2023	P	4.00	1075	9	2023	P	2.50	18145
8	2023	P	4.00	1075	5	2023	P	3.50	18020
9	2023	P	4.00	1075	5	2023	P	4.00	17789
10	2023	P	4.00	1075	1	2023	P	3.00	17542
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Source: CME, ICE

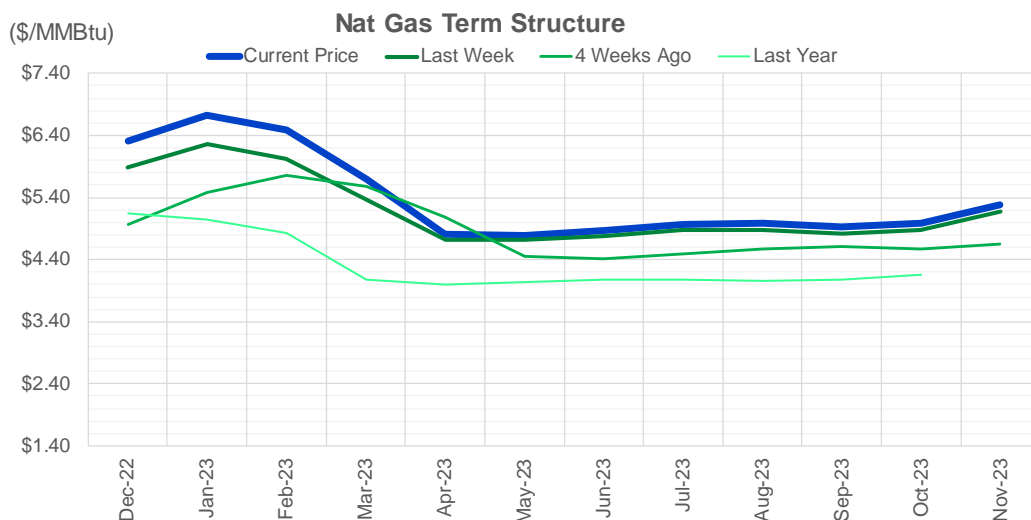
Nat Gas Futures Open Interest CME and ICE Combined

CME Henry Hub Futures (10,000 MMBtu)				ICE Henry Hub Futures Contract Equivalent (10,000 MM			
	Current	Prior	Daily Change		Current	Prior	Daily Change
DEC 22	32867	40049	-7182	DEC 22	84261	87449	-3188
JAN 23	168437	170177	-1740	JAN 23	75698	76392	-694
FEB 23	64496	64627	-131	FEB 23	68220	67276	944
MAR 23	105319	102512	2807	MAR 23	63312	62676	637
APR 23	93149	90726	2423	APR 23	58959	59523	-564
MAY 23	91709	91078	631	MAY 23	61196	60922	274
JUN 23	26933	26643	290	JUN 23	50888	50437	452
JUL 23	32065	32433	-368	JUL 23	51803	51718	85
AUG 23	27591	27287	304	AUG 23	49541	49440	101
SEP 23	33526	33505	21	SEP 23	47719	47543	176
OCT 23	49750	50578	-828	OCT 23	62334	62141	193
NOV 23	20111	20143	-32	NOV 23	49369	49512	-143
DEC 23	27830	27888	-58	DEC 23	44225	44333	-107
JAN 24	34099	34171	-72	JAN 24	47597	47615	-19
FEB 24	12013	12056	-43	FEB 24	31540	31438	102
MAR 24	23995	23897	98	MAR 24	39384	39481	-97
APR 24	22985	23063	-78	APR 24	32408	32402	7
MAY 24	9678	9660	18	MAY 24	31326	31315	11
JUN 24	3607	3597	10	JUN 24	27821	27844	-24
JUL 24	4948	4909	39	JUL 24	26839	26825	14
AUG 24	4621	4643	-22	AUG 24	25996	26009	-13
SEP 24	3396	3322	74	SEP 24	26132	26119	13
OCT 24	9882	9876	6	OCT 24	30611	30646	-34
NOV 24	4941	4937	4	NOV 24	26990	26950	40
DEC 24	8749	8728	21	DEC 24	31178	31138	41
JAN 25	18539	18871	-332	JAN 25	25991	26027	-36
FEB 25	1852	1853	-1	FEB 25	15867	15865	2
MAR 25	6293	6295	-2	MAR 25	17510	17545	-35
APR 25	6603	6603	0	APR 25	16489	16381	108
MAY 25	2764	2764	0	MAY 25	15707	15723	-16

Source: CME, ICE



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.



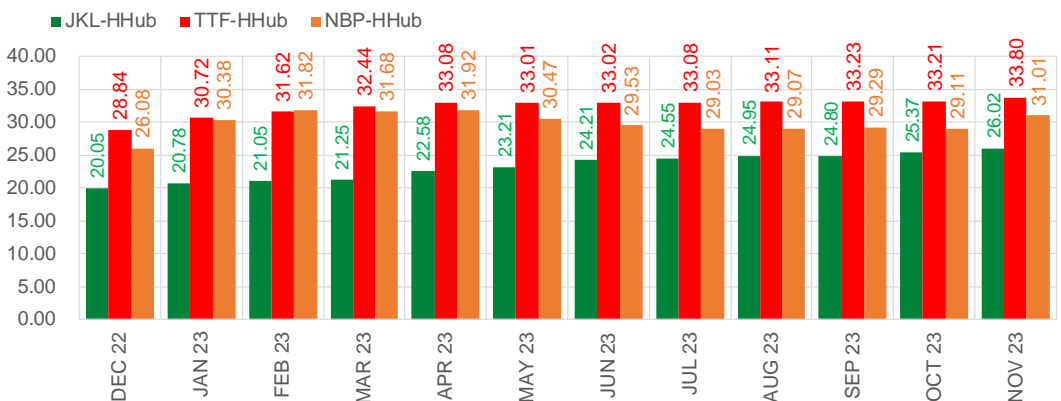
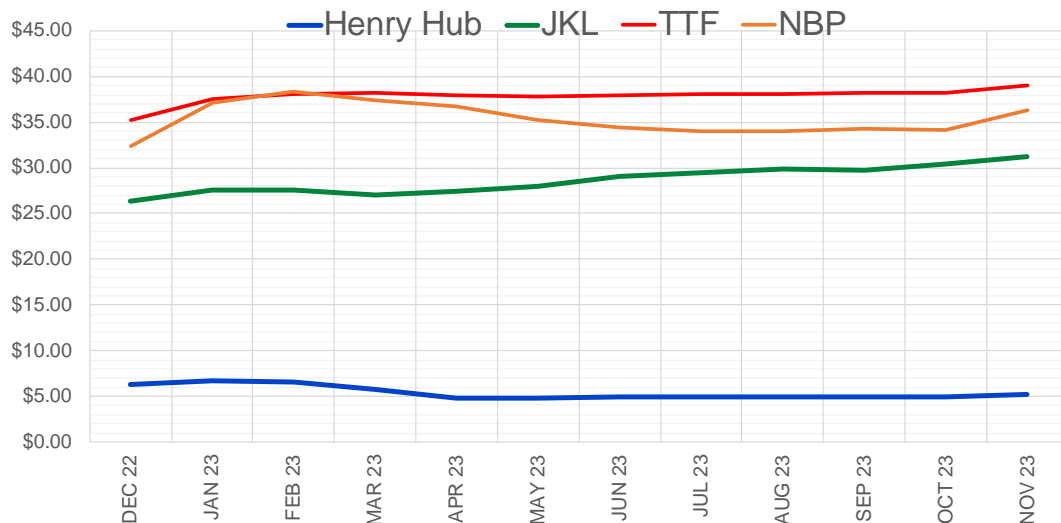
	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Current Price	\$6.303	\$6.716	\$6.483	\$5.703	\$4.814	\$4.786	\$4.875	\$4.968	\$4.985	\$4.931	\$4.979	\$5.287
Last Week	\$5.879	\$6.263	\$6.022	\$5.369	\$4.728	\$4.712	\$4.787	\$4.868	\$4.880	\$4.824	\$4.879	\$5.176
vs. Last Week	\$0.424	\$0.453	\$0.461	\$0.334	\$0.086	\$0.074	\$0.088	\$0.100	\$0.105	\$0.107	\$0.100	\$0.111
4 Weeks Ago	\$4.959	\$5.472	\$5.754	\$5.587	\$5.086	\$4.448	\$4.417	\$4.494	\$4.579	\$4.604	\$4.574	\$4.648
vs. 4 Weeks Ago	\$1.344	\$1.244	\$0.729	\$0.116	-\$0.272	\$0.338	\$0.458	\$0.474	\$0.406	\$0.327	\$0.405	\$0.639
Last Year	\$5.065	\$5.145	\$5.052	\$4.818	\$4.078	\$4.004	\$4.031	\$4.071	\$4.076	\$4.056	\$4.084	\$4.164
vs. Last Year	\$1.238	\$1.571	\$1.431	\$0.885	\$0.736	\$0.782	\$0.844	\$0.897	\$0.909	\$0.875	\$0.895	\$1.123

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	13.00	16.04	3.04
TETCO M3	\$/MMBtu	8.03	7.33	-0.70
FGT Zone 3	\$/MMBtu	8.13	6.35	-1.78
Zone 6 NY	\$/MMBtu	8.13	8.28	0.15
Chicago Citygate	\$/MMBtu	6.00	6.22	0.22
Michcon	\$/MMBtu	5.83	5.49	-0.34
Columbia TCO Pool	\$/MMBtu	5.68	5.14	-0.54
Ventura	\$/MMBtu	5.85	6.89	1.04
Rockies/Opal	\$/MMBtu	8.00	6.10	-1.90
El Paso Permian Basin	\$/MMBtu	5.50	4.62	-0.88
Socal Citygate	\$/MMBtu	8.50	8.02	-0.48
Malin	\$/MMBtu	8.65	7.44	-1.21
Houston Ship Channel	\$/MMBtu	5.40	5.22	-0.18
Henry Hub Cash	\$/MMBtu	6.09	5.31	-0.78
AECO Cash	C\$/GJ	4.90	4.32	-0.58
Station2 Cash	C\$/GJ	1.97	8.69	6.72
Dawn Cash	C\$/GJ	6.06	5.64	-0.42

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	▲ 0.000
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.000
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -1.121
NatGas Apr22/Oct22	\$/MMBtu	1.532	▲ 0.000	▲ 0.000	▲ 1.526
WTI Crude	\$/Bbl	80.08	▼ -8.880	▼ -4.970	▲ 3.980
Brent Crude	\$/Bbl	87.62	▼ -8.370	▼ -5.880	▲ 8.730
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	351.81	▼ -3.720	▼ -31.420	▲ 122.470
Propane, Mt. Bel	cents/Gallon	0.86	▼ -0.013	▲ 0.019	▼ -0.387
Ethane, Mt. Bel	cents/Gallon	0.40	▲ 0.004	▲ 0.003	▼ -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			

Nat Gas Term Structure (\$MMBTU)



	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23
Henry Hub	\$6.337	\$6.766	\$6.514	\$5.733	\$4.831	\$4.795	\$4.879	\$4.970	\$4.971	\$4.933	\$4.981	\$5.259
JKL	\$26.385	\$27.545	\$27.560	\$26.985	\$27.410	\$28.005	\$29.090	\$29.515	\$29.925	\$29.735	\$30.355	\$31.280
JKL-HHHub	\$20.048	\$20.779	\$21.046	\$21.252	\$22.579	\$23.210	\$24.211	\$24.545	\$24.954	\$24.802	\$25.374	\$26.021
TTF	\$35.177	\$37.482	\$38.133	\$38.170	\$37.909	\$37.807	\$37.896	\$38.049	\$38.081	\$38.166	\$38.188	\$39.056
TTF-HHHub	\$28.840	\$30.716	\$31.619	\$32.437	\$33.078	\$33.012	\$33.017	\$33.079	\$33.110	\$33.233	\$33.207	\$33.797
NBP	\$32.414	\$37.147	\$38.332	\$37.417	\$36.752	\$35.263	\$34.413	\$34.004	\$34.039	\$34.223	\$34.086	\$36.273
NBP-HHHub	\$26.077	\$30.381	\$31.818	\$31.684	\$31.921	\$30.468	\$29.534	\$29.034	\$29.068	\$29.290	\$29.105	\$31.014

Weather Storage Model - Next 4 Week Forecast

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

