

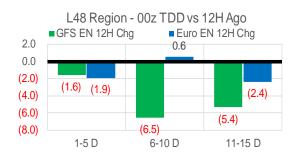
Prompt

## **Market Report**

# Current $\Delta$ from YD $\begin{array}{c}\Delta \text{ from 7D}\\\text{Avg}\end{array}$ Nat Gas \$ 6.63 $\checkmark$ \$ (0.15) $\blacktriangle$ \$ 0.30 Prompt Current $\Delta$ from YD $\begin{array}{c}\Delta \text{ from 7D}\\\text{Avg}\end{array}$ WTI \$ 81.24 $\bigstar$ \$ 1.51 $\checkmark$ \$ (0.8)

	С	urrent	∆ fro	m YD	∆ from 7D Avg			
Brent Prompt	\$	88.81	▲ \$	1.36		0		

### Vs. 12H Ago

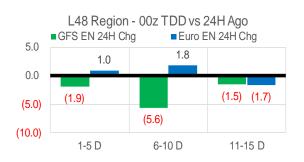


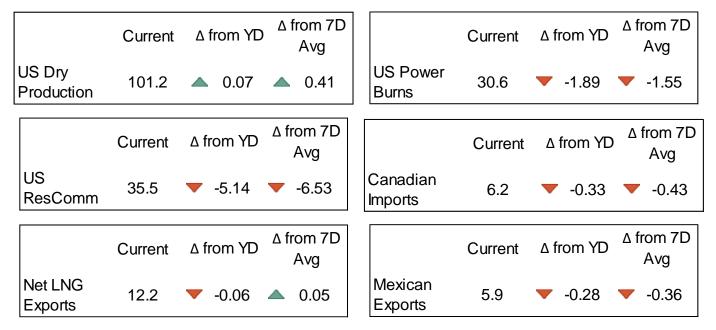
#### Page Menu

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

**22 November 2022** 

### Vs. 24H Ago



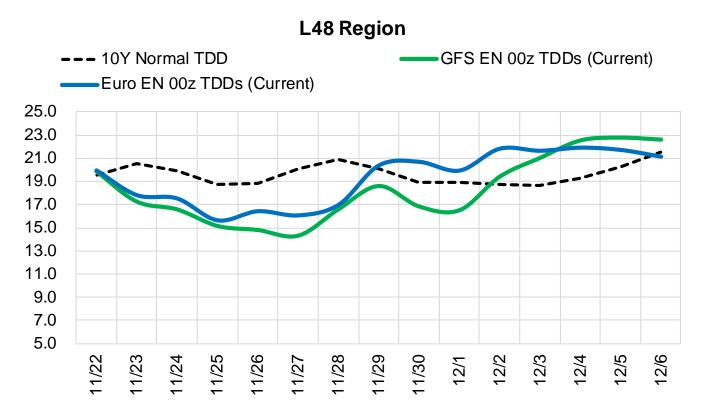




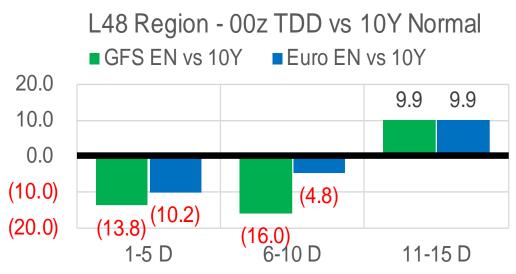
**Market Report** 

22 November 2022

### Short-term Weather Model Outlooks (00z)



### Vs. 10Y Normal



Source: WSI, Bloomberg



## **Market Report**

### 22 November 2022

#### **Daily Balances**

	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	DoD	vs. 7D
Lower 48 Dry Production	100.5	100.3	100.7	101.2	100.9	101.1	101.2	<b>0.1</b>	<b>0.4</b>
Canadian Imports	6.7	7.0	6.7	6.5	6.5	6.6	6.2	<b>v</b> -0.3	<b>v</b> -0.4
L48 Power	33.2	32.7	31.8	30.5	30.9	32.5	30.6	<b>T</b> -1.9	▼ -1.3
L48 Residential & Commercial	38.5	41.6	44.4	44.7	45.7	40.6	35.5	▼ -5.1	▼ -7.1
L48 Industrial	25.3	25.4	25.5	25.5	25.4	24.7	24.0	▼ -0.7	▼ -1.3
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	4.3	4.4	4.3	4.4	4.2	3.8	▼ -0.4	<b>-</b> 0.5
L48 Regional Gas Consumption	106.7	109.5	111.7	110.7	112.1	107.7	99.5	▼ -8.2	▼ -10.2
Net LNG Delivered	11.67	11.77	12.16	12.38	12.28	12.26	12.20	<b>v</b> -0.1	<b>0.1</b>
Total Mexican Exports	6.4	6.4	6.3	6.2	6.0	6.2	5.9	<b>v</b> -0.3	<b>v</b> -0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity	-17.6	-20.4	-22.7	-21.6	-23.0	-18.4	-10.2		

Lower 48 Component Models

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	<b>0.7</b>	▲ 5.4
Canadian Imports	4.9	6.1	5.3	4.9	4.2	6.6	<b>2.4</b>	<b>1.7</b>
L48 Power	28.5	30.9	28.9	29.5	29.1	31.4	<b>2</b> .3	3.0
L48 Residential & Commercial	26.3	20.9	15.9	17.6	17.7	35.4	<b>17.7</b>	9.1
L48 Industrial	24.4	20.0	21.1	21.3	22.9	25.1	<b>A</b> 2.2	0.8
L48 Lease and Plant Fuel	5.3	5.6	5.6	5.6	5.6	5.6	<b>0</b> .0	0.3
L48 Pipeline Distribution	3.2	3.2	2.8	2.8	2.7	3.8	<b>1.2</b>	0.7
L48 Regional Gas Consumption	87.7	80.6	74.4	77.0	78.0	101.5	<b>23.5</b>	<b>13.8</b>
Net LNG Exports	11.1	11.5	11.4	11.9	11.5	12.1	<b>0.6</b>	<b>1.0</b>
Total Mexican Exports	6.0	6.7	6.4	6.3	6.3	6.5	<b>0.2</b>	<b>0.5</b>
Implied Daily Storage Activity EIA Reported Daily Storage Activity	-4.2 -3.0	7.6 7.4	14.2 15.3	10.8 11.3	8.8 9.1	-12.4	-21.2	-8.2
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	МоМ	vs. LY
Lower 48 Dry Production	91.2	96.4	97.8	98.2	100.5	101.2	100.8	<b>-0.5</b>	<b>4.3</b>
Canadian Imports	4.6	5.3	5.9	5.4	5.9	5.7	5.4	▼ -0.2	<b>0.1</b>
L48 Power	25.7	29.3	44.8	43.8	37.0	30.2	30.4	<b>a</b> 0.3	▲ 1.1
L48 Residential & Commercial	24.4	28.2	8.2	7.8	8.9	16.6	28.3	<b>▲</b> 11.7	<b>a</b> 0.1
L48 Industrial	22.5	23.3	19.4	19.7	20.5	20.6	23.9	<b>A</b> 3.3	<b>0.6</b>
L48 Lease and Plant Fuel	5.0	5.4	5.5	5.5	5.5	5.7	5.6	▼ 0.0	<b>a</b> 0.2
L48 Pipeline Distribution	2.7	3.3	3.1	3.0	2.8	2.9	3.4	<b>A</b> 0.5	<b>a</b> 0.1
L48 Regional Gas Consumption	80.3	89.5	81.0	79.9	74.7	75.9	91.6	<b>15.7</b>	<b>2.1</b>
Net LNG Exports	10.1	11.4	10.9	11.0	11.5	11.3	11.8	<b>a</b> 0.5	▲ 0.4
Total Mexican Exports	6.1	6.1	7.0	6.9	6.7	6.6	6.3	▼ -0.2	<b>0.2</b>
Implied Daily Storage Activity EIA Reported Daily Storage Activity	-0.7	-5.3	4.8	5.8	13.6	13.1	-3.6		
Daily Model Error					-0.5				

Source: Bloomberg, analytix.ai

## **Daily** Average Generation Data

#### Nuclear Generation Daily Average - GWh (NRC)

ENERGY

	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	DoD	vs. 7D
NRC Nuclear Daily Output	81.8	82.0	81.6	82.4	82.7	82.7	82.7	0.0	0.5
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	23.1	22.9	23.3	22.5	22.1	22.1	22.1	0.0	-0.5
NRC % Nuclear Cap Utilization	83.2	83.4	83.0	83.8	84.1	84.1	84.1	0.0	0.5

#### Wind Generation Daily Average - MWh (EIA)

	14-Nov	15 <b>-No</b> v	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	DoD	vs.7D
CALI Wind	584	1495	1489	646	1148	1486	479	-1007	-662
TEXAS Wind	14340	8006	4332	9096	11935	7609	6589	-1019	-2630
US Wind	34034	24487	26976	38525	39505	35674	35381	-293	2181

#### **Generation Daily Average - MWh (EIA)**

	14-Nov	15-Nov	16-Nov	17 <b>-N</b> ov	18-Nov	19-Nov	20-Nov	DoD	vs. 7D
US Wind	34034	24487	26976	38525	39505	35674	35381	-293	2181
US Solar	10792	9258	10513	11984	10278	9779	8947	-833	-1487
US Petroleum	1180	1162	1344	914	827	612	576	-37	-431
US Other	8555	8476	7944	7969	8675	8035	8461	425	185
US Coal	66322	69631	70038	71152	74457	72907	73923	1016	3172
US Nuke	75328	75160	75344	76300	77021	76823	77681	858	1685
US Hydro	26824	26738	25732	26863	26860	24623	23916	-708	-2358
US Gas	155729	168474	164358	157878	157369	153764	152319	-1445	-7276

## 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- <b>N</b> ov	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	57824	37916	-19908	3.7
							-34%	
						-0.1		

#### **Generation Weekly Average - MWh (EIA)**

					<u> </u>	Ounon		
	19-Nov	21-Oct	28-Oct	4-Nov	11 <b>-No</b> v	18-Nov	WoW	WoW Bcf/d Impact
US Wind	58369	45195	64748	44699	57824	37916	-19908	3.7
US Solar	10070	14347	13756	11428	10350	10652	302	-0.1
US Petroleum	878	1054	933	990	1023	1067	44	0.0
US Other	7853	11285	9085	10014	9819	8602	-1217	0.2
US Coal	77745	79517	69841	75083	60482	66061	5578	-1.0
US Nuke	88370	76583	77718	79723	77693	76194	-1498	0.3
US Hydro	26231	19318	19097	21591	22692	25194	2501	-0.5
US Gas	146998	162313	148302	157761	146992	152472	5480	1.0

### See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

LY

Current



## 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	78.9	78.2	90.5	86.2	76.1	79.7	78.5	3.6	0.2
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	26.0	26.6	14.3	18.7	28.8	25.2	26.4	-3.6	-0.2
NRC % Nuclear Cap Utilization	80.2	79.6	92.1	87.7	77.4	81.0	79.8	3.7	0.2

#### 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	1208	1509	2028	1608	1239	1703	1535	465	25
TEXAS Wind	9581	12358	8440	7993	9916	11338	11180	1422	-1178
US Wind	42654	50154	33222	38270	43698	47720	46421	4022	-3733

#### **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	42654	50154	33222	38270	43698	47720	46421	▼-1298.4	<b>T</b> -3733
US Solar	7213	9822	16962	16163	14198	10278	10939	<b>660.6</b>	🔺 1117
US Petroleum	902	964	1251	864	899	945	951	<b>6</b>	<b>T</b> -12
US Other	8938	8621	10597	10512	10517	9181	9224	<b>4</b> 3	<b>604</b>
US Coal	87511	78395	117203	92002	75808	66314	69164	<b>2849</b>	<b>v</b> -9232
US Nuke	82703	82464	92976	89062	78132	77425	77830	<b>4</b> 06	<b>v</b> -4634
US Hydro	29065	25851	30192	25203	19926	24065	22984	🔽 -1081	<b>v</b> -2867
US Gas	141098	153036	233739	200120	162343	151377	153142	<b>1586</b>	<b>106</b>
US Total	399061	409659	535696	470764	405842	387044	390387	<b>4470</b>	▼-19272



### See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

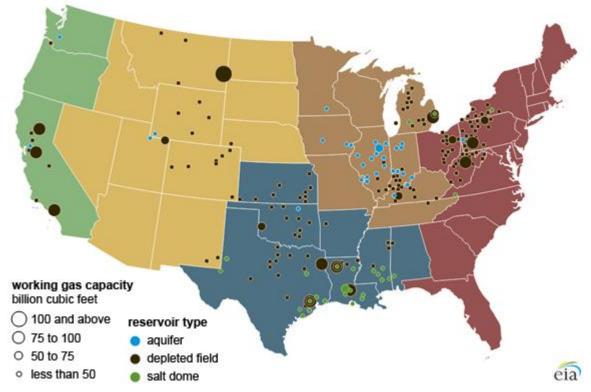


### Regional S/D Models Storage Projection

Week Ending	18-Nov			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
1.40		o <del>-</del>	40.0	05
L48	-11.5	-0.7	-12.2	-85
East	-4.7	2.2	-2.5	-18
Midwest	-3.0	0.1	-2.9	-20
Mountain	2.9	-4.1	-1.2	-9
South Central	-5.3	1.2	-4.1	-29
Pacific	-1.3	-0.2	-1.5	-10

\*Adjustment Factor is calcuated based on historical regional deltas

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

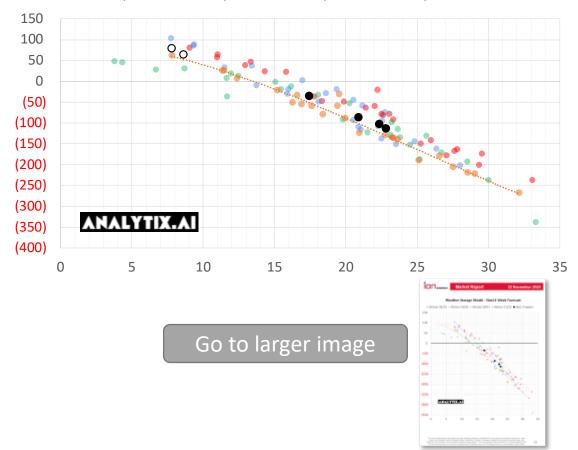


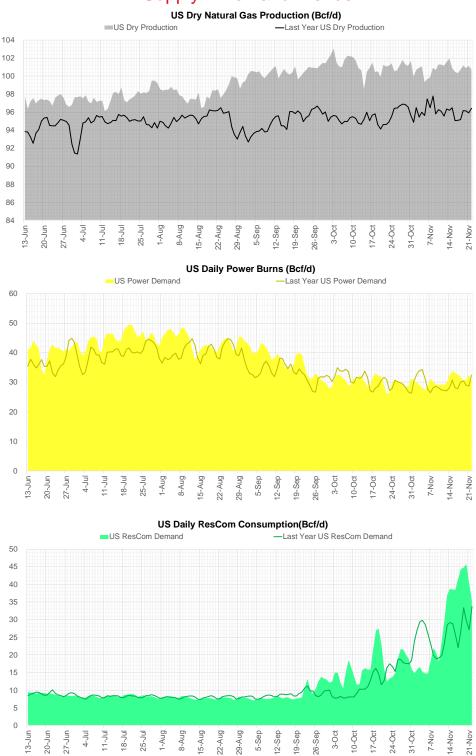
### Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
18-Nov	20.9	-85
25-Nov	22.3	-102
02-Dec	17.4	-34
09-Dec	22.8	-113

#### Weather Storage Model - Next 4 Week Forecast

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





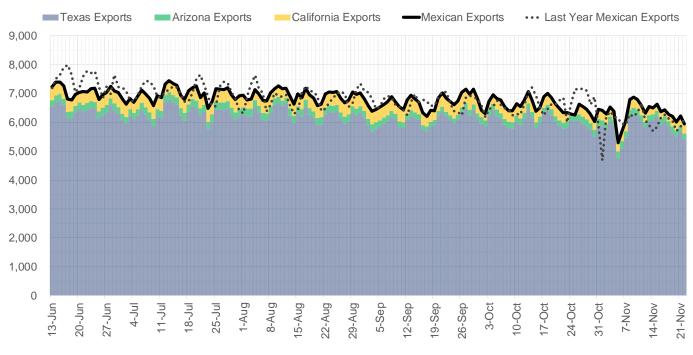
Supply – Demand Trends

Source: Bloomberg

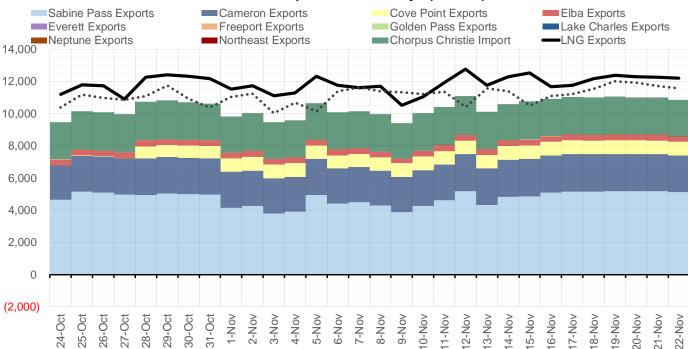


### **Market Report**





Net LNG Exports - Last 30 days (MMcf/d)



Source: Bloomberg



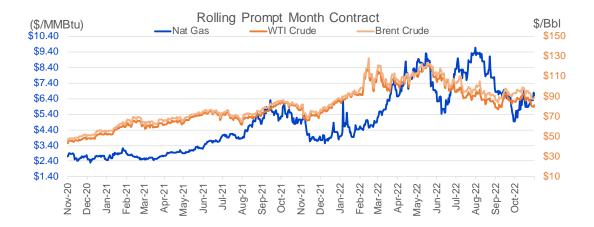
#### Nat Gas Options Volume and Open Interest CME and ICE Combined

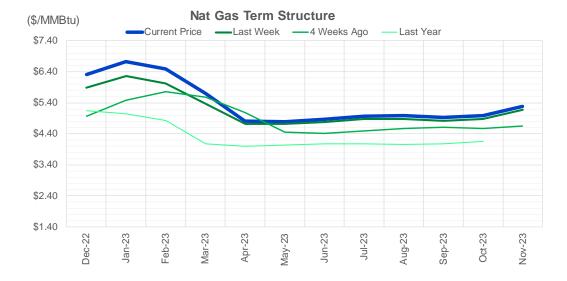
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
12	2022	Р	6.00	8556	12	2022	Р	4.00	49616
12	2022	С	7.50	4820	12	2022	Р	5.00	42745
12	2022	С	7.00	4711	12	2022	Р	6.00	33090
12	2022	С	8.00	4211	10	2023	Р	3.00	31195
12	2022	Р	5.00	3656	5	2023	Р	2.00	31104
12	2022	Р	5.50	3526	12	2022	С	10.00	30757
12	2022	Р	5.75	2918	12	2022	Р	4.50	30513
3	2023	С	10.00	2821	1	2023	С	10.00	28693
12	2022	Р	6.50	2783	4	2023	Р	3.00	28358
12	2022	С	7.75	2167	12	2022	Р	3.50	28225
1	2023	Р	5.00	2134	1	2023	Р	5.00	27144
12	2022	С	9.00	1866	3	2023	С	10.00	26937
3	2023	С	7.00	1800	12	2022	P	4.75	26311
12	2022	Р	6.25	1546	12	2022	С	8.00	24004
1	2023	С	10.00	1406	10	2023	Р	2.50	23730
1	2023	С	7.00	1383	4	2023	Р	2.00	23717
3	2023	Р	3.50	1296	5	2023	P P	3.00	23633
3	2023	Р	2.75	1228	3 10	2023	P	4.00	23588
1	2023	С	15.00	1202		2023	Р С	2.00	23488
12	2022	С	6.50	1194	12 5	2022 2023	c	6.00 6.00	23241 23224
12	2022	Р	6.10	1174	5 6	2023	P		
2	2023	Р	5.00	1112	3	2023	P	3.00 3.00	22855 22452
12	2022	Р	5.25	1109	3 7	2023	P	3.00	21875
1	2023	С	12.00	1095	4	2023	P	3.50	21731
1	2023	Р	6.00	1043	8	2023	P	3.00	21536
12	2022	С	7.25	1027	9	2023	P	3.00	21485
1	2023	Р	4.50	1027	12	2023	c	7.00	21017
3	2023	Р	3.00	1026	1	2022	P	4.00	20574
4	2023	Р	3.00	940	2	2023	c	10.00	20548
1	2023	Р	5.50	937	12	2022	P	3.00	20309
3	2023	С	12.00	910	10	2023	P	4.00	19984
1	2023	С	7.50	895	6	2023	P	2.00	19979
2	2023	С	8.00	882	8	2023	P	2.00	19925
2	2023	С	15.00	881	9	2023	Р	2.00	19763
1	2023	Р	4.00	875	7	2023	Р	2.00	19725
12	2022	С	6.75	834	12	2022	Р	5.50	19136
12	2022	Р	4.50	816	4	2023	Р	4.00	19063
1	2023	Р	3.75	810	3	2023	С	20.00	19005
1	2023	С	8.00	807	5	2023	Р	2.50	18950
3	2023	Р	5.00	805	4	2023	Р	2.75	18780
3	2023	С	11.00	800	6	2023	Р	2.50	18600
12	2022	С	8.50	795	6	2023	Р	3.50	18435
9	2023	Р	5.00	750	4	2023	Р	2.50	18403
1	2023	Р	7.00	730	9	2023	Р	2.50	18195
2	2023	С	10.00	717	12	2022	С	5.00	18112
2	2023	С	12.00	711	5	2023	Р	3.50	18020
12	2022	С	7.30	657	5	2023	Р	4.00	18014
1	2023	С	8.50	633	6	2023	Р	4.00	17616
3	2023	С	15.00	630	9	2023	P Source	e: CME, ICE	17594

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										
CME Henry H	Hub Futures (1)	0,000 MMBt	u)	ICE Henry	Hub Futures Cont	tract Equiva	No. 1			
	Current	Prior	Daily Change	_	Current	Prior	Daily Change			
DEC 22	24913	32744	-7831	DEC 22	81572	84261	-2689			
JAN 23	170337	168434	1903	JAN 23	76492	75698	795			
FEB 23	64686	64496	190	FEB 23	68090	68220	-130			
MAR 23	109437	105319	4118	MAR 23	64685	63312	1373			
APR 23	97492	93154	4338	APR 23	59922	58959	964			
MAY 23	90534	91709	-1175	MAY 23	61047	61196	-149			
JUN 23	27602	26933	669	JUN 23	51060	50888	172			
JUL 23	31054	32065	-1011	JUL 23	51880	51803	78			
AUG 23	27681	27591	90	AUG 23	49722	49541	182			
SEP 23	34055	33526	529	SEP 23	48224	47719	506			
OCT 23	47562	49750	-2188	OCT 23	63277	62334	943			
NOV 23	19389	20111	-722	NOV 23	49350	49369	-20			
DEC 23	28564	27830	734	DEC 23	44521	44225	296			
JAN 24	33668	34099	-431	JAN 24	47555	47597	-42			
FEB 24	12033	12013	20	FEB 24	31488	31540	-52			
MAR 24	24487	23995	492	MAR 24	39392	39384	9			
APR 24	23301	22985	316	APR 24	32867	32408	459			
MAY 24	10045	9678	367	MAY 24	31638	31326	312			
JUN 24	3584	3607	-23	JUN 24	27939	27821	118			
JUL 24	4911	4948	-37	JUL 24	26975	26839	136			
AUG 24	4608	4621	-13	AUG 24	26118	25996	122			
SEP 24	3416	3396	20	SEP 24	25928	26132	-204			
OCT 24	9867	9882	-15	OCT 24	30691	30611	80			
NOV 24	4908	4941	-33	NOV 24	26971	26990	-19			
DEC 24	8753	8749	4	DEC 24	31097	31178	-81			
JAN 25	18574	18539	35	JAN 25	26001	25991	10			
FEB 25	1846	1852	-6	FEB 25	15897	15867	30			
MAR 25	6144	6293	-149	MAR 25	17512	17510	2			
APR 25	6754	6603	151	APR 25	16475	16489	-15			
MAY 25	2764	2764	0	MAY 25	15715	15707	8			

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	\$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

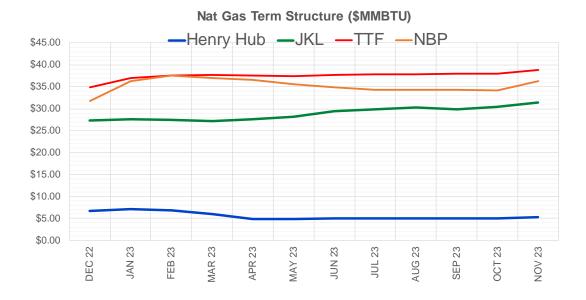
		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	12.00	16.46	4.46
TETCO M3	\$/MMBtu	6.64	7.49	0.85
FGT Zone 3	\$/MMBtu	7.05	6.52	-0.53
Zone 6 NY	\$/MMBtu	7.05	7.82	0.77
Chicago Citygate	\$/MMBtu	6.18	6.38	0.20
Michcon	\$/MMBtu	6.23	5.66	-0.57
Columbia TCO Pool	\$/MMBtu	5.92	5.34	-0.58
Ventura	\$/MMBtu	5.85	7.08	1.23
Rockies/Opal	\$/MMBtu	8.80	6.31	-2.49
El Paso Permian Basin	\$/MMBtu	4.86	4.78	-0.08
Socal Citygate	\$/MMBtu	9.38	8.19	-1.19
Malin	\$/MMBtu	9.05	7.62	-1.43
Houston Ship Channel	\$/MMBtu	5.83	5.34	-0.49
Henry Hub Cash	\$/MMBtu	6.23	5.49	-0.75
AECO Cash	C\$/GJ	5.42	4.26	-1.16
Station2 Cash	C\$/GJ	2.02	8.86	6.84
Dawn Cash	C\$/GJ	6.31	5.84	-0.47

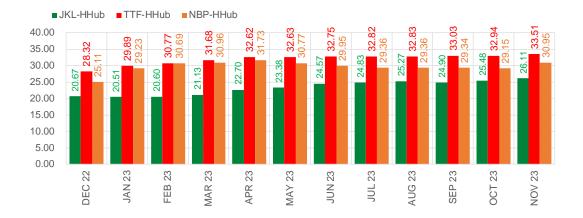
Source: CME, Bloomberg



					VS	s. 4 Weeks		
	Units	<b>Current Price</b>	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	▼	-0.837
NatGas Apr22/Oct22	\$/MMBtu	1.532		0.000		0.000		1.508
WTI Crude	\$/Bbl	79.73		-6.140		-4.850		2.980
Brent Crude	\$/Bbl	87.45	$\bullet$	-5.690		-5.810		7.750
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	349.73		-4.670	▼	-42.280		117.190
Propane, Mt. Bel	cents/Gallon	0.86		-0.011		0.014		-0.389
Ethane, Mt. Bel	cents/Gallon	0.40		0.000		0.004		0.004
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						

ENERGY

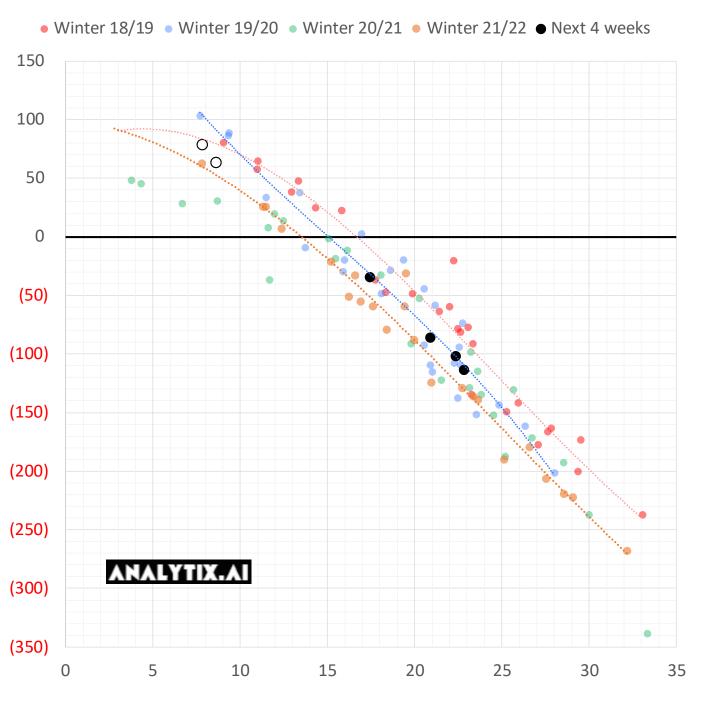




	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	<b>JUN 23</b>	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23
Henry Hub	\$6.631	\$7.091	\$6.821	\$5.998	\$4.891	\$4.853	\$4.930	\$5.008	\$5.025	\$4.972	\$5.013	\$5.307
JKL	\$27.300	\$27.600	\$27.425	\$27.130	\$27.590	\$28.235	\$29.495	\$29.835	\$30.295	\$29.870	\$30.495	\$31.420
JKL-HHub	\$20.669	\$20.509	\$20.604	\$21.132	\$22.699	\$23.382	\$24.565	\$24.827	\$25.270	\$24.898	\$25.482	\$26.113
TTF	\$34.953	\$36.984	\$37.590	\$37.675	\$37.514	\$37.486	\$37.677	\$37.824	\$37.858	\$38.005	\$37.951	\$38.812
TTF-HHub	\$28.322	\$29.893	\$30.769	\$31.677	\$32.623	\$32.633	\$32.747	\$32.816	\$32.833	\$33.033	\$32.938	\$33.505
NBP	\$31.738	\$36.318	\$37.513	\$36.962	\$36.617	\$35.620	\$34.877	\$34.363	\$34.384	\$34.316	\$34.159	\$36.257
NBP-HHub	\$25.107	\$29.227	\$30.692	\$30.964	\$31.726	\$30.767	\$29.947	\$29.355	\$29.359	\$29.344	\$29.146	\$30.950



### Weather Storage Model - Next 4 Week Forecast



NERGY

