

## **Market Report**

### 31 October 2022

	Cı	ırrent	Δ fro	m YD	Δ from 7D Avg		
Nat Gas Prompt	\$	6.31	<b>\$</b>	0.62	<b>\$</b>	0.78	

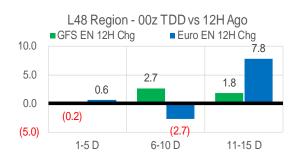
	С	urrent	Δ from YD		m 7D vg
WTI Prompt	\$	86.70	<b>\$</b> (1.20)	<b>~</b> \$	(0.5)

	_	urront	Δ from YD	Δ from 7D			
	Current	urreni		A	vg		
Brent	Ф	04.60	<b>*</b> \$ (1.08)	<b>_</b> •	(O 6)		
Prompt	Φ	94.09	<b>Φ</b> Φ (1.06)	• ф	(0.0)		

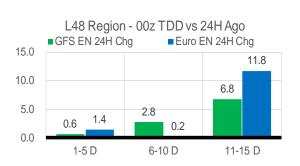
#### Page Menu

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	101.9	<b>0.44</b>	<b>0.49</b>		

	Current	Δ from YD	Δ from 7D Avg
US ResComm	16.0	▼ -3.01	<b>▼</b> -2.63

	Current	Δ from YD	Δ from 7D Avg		
Net LNG Exports	12.5	<b>a</b> 0.20	<b>a</b> 0.72		

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	29.3	▲ 0.24	<b>▼</b> -0.28

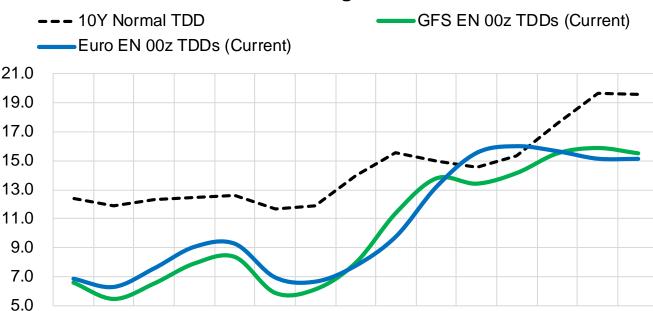
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.6	▼ -0.21	<b>a</b> 0.28

	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.2	<b>a</b> 0.06	<b>▼</b> -0.18



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

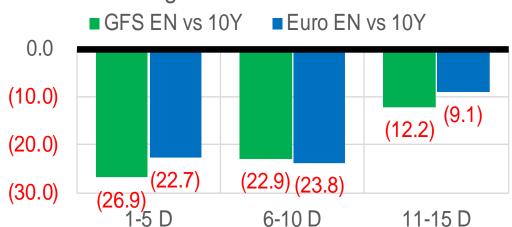




### Vs. 10Y Normal

L48 Region - 00z TDD vs 10Y Normal

11/3 11/6 11/6 11/7 11/9 11/10 11/12



Source: WSI, Bloomberg



## **Market Report**

## Lower 48 Component Models

#### **Daily Balances**

	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	DoD	vs. 7D
Lower 48 Dry Production	100.8	100.9	101.5	102.0	101.6	101.5	101.9	<b>0.4</b>	<b>△</b> 0.5
Canadian Imports	5.2	5.2	5.3	5.1	5.1	5.8	5.6	▼ -0.2	<b>a</b> 0.3
L48 Power	30.9	30.3	29.6	29.3	28.2	29.1	29.3	<b>0.2</b>	<b>▼</b> -0.2
L48 Residential & Commercial	15.0	18.9	21.7	21.7	20.2	19.0	16.0	▼ -3.0	<b>▼</b> -3.4
L48 Industrial	21.9	22.4	22.4	22.3	22.0	21.8	21.7	<b>-</b> 0.1	<b>-</b> 0.4
L48 Lease and Plant Fuel	5.6	5.6	5.7	5.7	5.7	5.7	5.7	▼ 0.0	<b>a</b> 0.0
L48 Pipeline Distribution	2.8	3.0	3.2	3.1	3.0	3.0	2.8	▼ -0.2	<b>▼</b> -0.2
L48 Regional Gas Consumption	76.2	80.2	82.6	82.1	79.0	78.5	75.4	▼ -3.1	<b>▼</b> -4.3
Net LNG Delivered	11.79	11.73	10.89	12.27	12.41	12.32	12.52	<b>0.2</b>	<b>0.6</b>
Total Mexican Exports	6.3	6.5	6.5	6.5	6.4	6.1	6.2	<b>▲ 0.1</b>	▼ -0.2
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	11.7	7.6	6.7	6.3	9.0	10.3	13.3		

EIA Storage Week Balances								
_	LY				LW	Current		
	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	vs. LY
Lower 48 Dry Production	95.9	101.3	102.1	102.0	100.6	101.3	<b>0.6</b>	<b>5.4</b>
Canadian Imports	5.6	6.2	6.0	5.5	6.1	5.3	▼-0.8	▼-0.3
L48 Power	29.4	31.6	30.6	30.8	30.8	28.9	<b>▼</b> -1.9	-0.5
L48 Residential & Commercial	17.3	11.9	13.0	14.8	21.0	16.0	▼ -5.0	-1.3
L48 Industrial	20.8	20.0	20.9	20.3	20.2	21.7	<b>1.5</b>	0.9
L48 Lease and Plant Fuel	5.4	5.6	5.7	5.7	5.6	5.7	<b>0.0</b>	0.3
L48 Pipeline Distribution	2.9	2.7	2.7	2.8	3.2	2.8	<b>▼</b> -0.4	-0.1
L48 Regional Gas Consumption	75.6	71.8	72.9	74.4	80.8	75.0	▼ -5.9	▼ -0.7
Net LNG Exports	10.8	11.8	11.0	11.0	11.5	11.4	▼ -0.1	<b>0.6</b>
Total Mexican Exports	6.9	6.9	6.7	6.6	6.7	6.4	▼ -0.3	▼ -0.5
Implied Daily Storage Activity	8.3	17.0	17.5	15.5	7.7	13.9	6.3	5.7
EIA Reported Daily Storage Activity	9.0	18.4	17.9	15.9	7.4			
Daily Model Error	-0.7	-1.4	-0.4	-0.4	0.2			

	2Yr Ago	LY					MTD		
	Oct-20	Oct-21	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	MoM	vs. LY
Lower 48 Dry Production	88.5	95.4	97.3	97.7	99.0	100.9	101.5	<b>0.7</b>	<b>6.1</b>
Canadian Imports	4.3	5.4	5.7	5.9	5.4	5.9	5.7	▼-0.3	<b>0.3</b>
L48 Power	30.6	30.4	38.3	44.3	43.1	36.9	30.1	<b>▼</b> -6.7	▼-0.3
L48 Residential & Commercial	15.5	12.6	8.9	8.3	8.0	9.0	16.7	<b>7.7</b>	<b>4.2</b>
L48 Industrial	22.7	21.7	19.1	19.8	21.1	20.9	20.9	▼-0.1	▼ -0.8
L48 Lease and Plant Fuel	4.8	5.3	5.5	5.5	5.5	5.6	5.7	<b>0.1</b>	<b>0.3</b>
L48 Pipeline Distribution	2.5	2.7	2.9	3.1	3.0	2.8	2.9	<b>0.1</b>	<b>0.2</b>
L48 Regional Gas Consumption	76.1	72.7	74.6	81.0	80.8	75.2	76.3	<b>1.1</b>	<b>3.6</b>
Net LNG Exports	8.0	10.6	11.2	10.9	11.0	11.5	11.3	▼-0.2	<b>0.7</b>
Total Mexican Exports	6.0	6.6	7.1	7.0	6.9	6.7	6.6	▼-0.1	▼ -0.1
Implied Daily Storage Activity EIA Reported Daily Storage Activity	2.6	10.9	10.0	4.7	5.7	13.4	13.0		
Daily Model Error					0.0				

Source: Bloomberg, analytix.ai



## **Daily** Average Generation Data

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

	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	DoD	vs. 7D
NRC Nuclear Daily Output	74.0	74.2	74.3	74.6	75.4	76.6	76.6	0.0	1.8
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	30.8	30.7	30.6	30.3	29.5	28.3	28.3	0.0	-1.8
NRC % Nuclear Cap Utilization	75.3	75.4	75.5	75.8	76.6	77.9	77.9	0.0	1.8

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

	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	DoD	vs. 7D
CALI Wind	2460	779	1558	2755	1252	445	445	0	-1097
TEXAS Wind	24198	18056	9223	11743	18095	15183	15183	0	-900
US Wind	83510	67333	49567	48539	62784	43203	43203	0	-15953

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

	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	DoD	vs. 7D
US Wind	83510	67333	49567	48539	62784	43203	43203	0	-15953
US Solar	11952	12544	13489	12627	13203	11463	11463	0	-1083
US Petroleum	895	938	949	952	966	964	964	0	20
US Other	9559	8843	8824	7952	8515	9548	9548	0	675
US Coal	59355	70036	74239	76736	73386	80614	80614	0	8220
US Nuke	77044	77609	77929	78044	79172	80235	80235	0	1897
US Hydro	16850	19289	20223	20119	20292	20678	20678	0	1103
US Gas	128637	155953	159701	157194	147907	157044	157044	0	5971

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai



US Hydro

**US Gas** 

Nuclear Generation Weekly Average - GWh (NRC)

## **Storage Week** Average Generation Data

Nuclear Generation Weekly A	verage - G	WIII (INKC	)						
	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	WoW Bcf/d Impact	
NRC Nuclear Daily Output	71.6	84.9	80.5	76.2	74.4	74.4	0.0	0.0	
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0		
NRC Nuclear Outage	33.3	20.0	24.4	28.7	30.5	30.5	0.0		
NRC % Nuclear Cap Utilization	72.8	86.4	81.9	77.5	75.6	75.6	0.0		
Wind Generation Weekly Average - MWh (EIA)									
								WoW	
	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	Bcf/d Impact	
CALI Wind	2314	1208	1370	1087	944	1974	1029	-0.2	
TEXAS Wind	15462	8083	6160	7842	9710	17228	7517	-1.4	
US Wind	53987	40606	32707	41063	45156	64739	19583	-3.7	
							43%		
						8.0			
<b>Generation Weekly Average -</b>	MWh (EIA	)							
,	•	•			LY	Current			
								WoW	
	29-Oct	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	WoW	Bcf/d	
								Impact	
US Wind	53987	40606	32707	41063	45156	64739	19583	-3.7	
US Solar	10171	16636	15455	14503	14543	13209	-1334	0.2	
US Petroleum	907	379	664	842	957	933	-25	0.0	
US Other	10232	11165	10786	11233	11769	8880	-2889	0.5	
US Coal	75374	77592	74744	76322	79517	69842	-9675	1.8	
US Nuke	74308	86665	83242	77235	76450	77712	1263	-0.2	

See National Wind and Nuclear daily charts

23101

171876

23812

155996

21917

171116

20001

170286

Source: Bloomberg, analytix.ai

19093

147330

19332

162048

-239

-14718

0.0

-2.8



## **Monthly** Average Generation Data

Nuclear Generation Monthly	/ Average -	GWh (NF	RC)							
	2Yr Ago	2Yr Ago LY					MTD			
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY	
NRC Nuclear Daily Output	76.5	75.2	90.6	90.5	86.2	76.2	76.1	-10.0	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	28.4	29.7	14.3	14.3	18.7	28.7	28.8	10.0	-0.9	
NRC % Nuclear Cap Utilization	77.8	76.5	92.1	92.1	87.7	77.5	77.4	-10.2	0.9	

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

	2Yr Ago	LY				MTD			
	Same 30 S days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
CALI Wind	1350	1814	2719	2028	1608	1224	1205	-384	-610
TEXAS Wind	9836	11831	11765	8440	7993	10945	11022	2952	-809
US Wind	38954	44125	39701	33222	38117	45566	45742	7449	1618

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

, ,	2Yr Ago	ĹY				MTD			
	Same 30 days	Same 30 days	Jul-22	Aug-22	Sep-22	Oct-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
US Wind	38954	44125	39701	33222	38117	45566	45742	<b>176.2</b>	<b>1618</b>
US Solar	8296	11023	18617	16962	16163	14016	13946	<b>-70.7</b>	<b>2923</b>
US Petroleum	817	874	1252	1251	864	875	888	<b>1</b> 3	<b>14</b>
US Other	8300	11184	10156	10543	10467	10517	10514	▼ -3	<b>▼</b> -671
US Coal	80457	83718	119788	117203	92002	75836	76134	<b>298</b>	<b>▼ -7584</b>
US Nuke	79856	76745	92906	92976	89057	78170	78283	<b>113</b>	<b>1538</b>
US Hydro	25346	24080	34227	30192	25202	20011	20012	<u>2</u>	<b>▼</b> -4068
US Gas	162322	160947	235864	233739	199958	161715	162375	<b>529</b>	<b>1428</b>
US Total	402727	412739	551987	535696	470459	406902	407574	<b>881</b>	<b>▼</b> -5165



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai



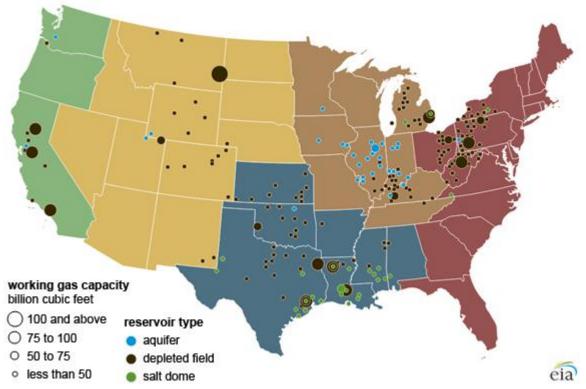
## Regional S/D Models Storage Projection

Week Ending 28-Oct

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	14.9	-0.9	14.1	98
East	1.5	2.8	4.3	30
Midwest	4.6	0.9	5.5	38
Mountain	4.7	-4.2	0.5	3
South Central	4.2	0.2	4.4	30
Pacific	0.0	-0.6	-0.5	-4

<sup>\*</sup>Adjustment Factor is calcuated based on historical regional deltas

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



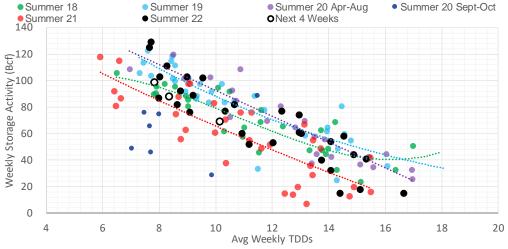


## Weather Model Storage Projection

Next report
and beyond

Week Ending	GWDDs	Week Storage Projection
28-Oct	7.9	98
04-Nov	8.4	88
11-Nov	10.2	69
18-Nov	#N/A	#N/A

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



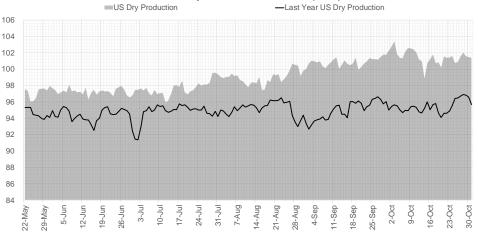
Go to larger image



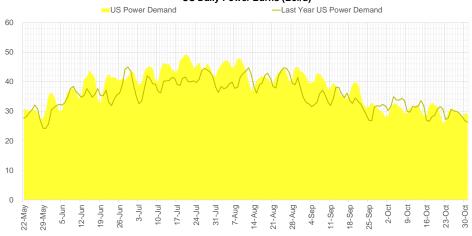


### Supply - Demand Trends

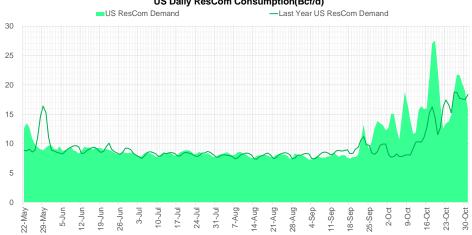
#### US Dry Natural Gas Production (Bcf/d)



#### US Daily Power Burns (Bcf/d)



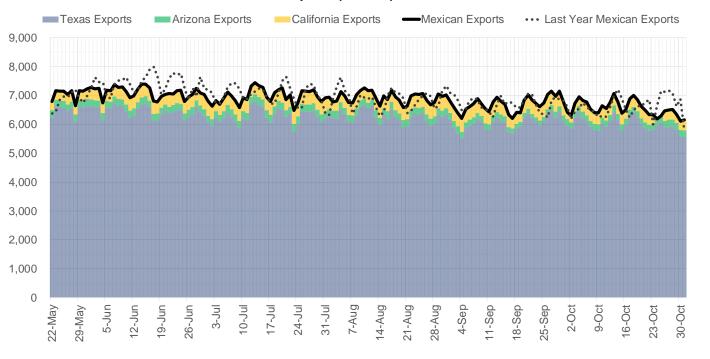
#### US Daily ResCom Consumption(Bcf/d)



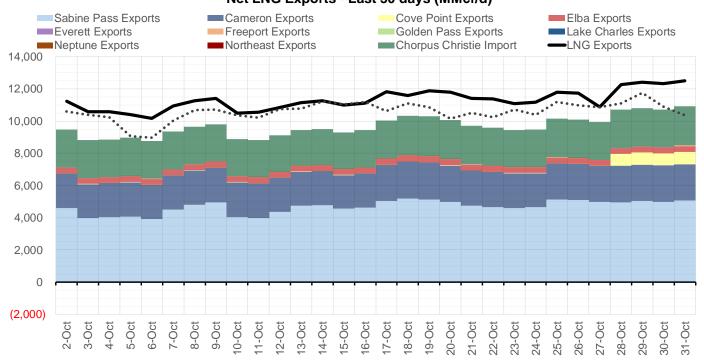
Source: Bloomberg



#### Mexican Exports (MMcf/d)



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



Source: Bloomberg



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

	CONTRACT	PUT/CALL	STRIKE	CUMULATIVE	CONTR		PUT/CALL	STRIKE	CUMULATIVE OI
MONTH	YEAR			VOL	MONT	TH YEAR			
12	2022	Р	4.50	8992	12	2022	Р	4.00	49947
12	2022	С	7.00	6637	12	2022	Р	5.00	31864
12	2022	Р	5.00	6303	5	2023	Р	2.00	27519
3	2023	С	1.00	4050	12	2022	Р	4.50	25334
3	2023	Р	1.00	4050	12	2022	Р	6.00	24794
12	2022	Р	3.25	4002	1	2023	С	10.00	24763
12	2022	С	8.00	3846	10	2023	Р	3.00	23294
12	2022	Р	3.00	3606	4	2023	Р	3.00	22568
12	2022	Р	4.00	3574	3	2023	С	10.00	21848
12	2022	Р	3.50	3422	12	2022	С	10.00	21579
12	2022	Р	3.75	3335	12	2022	Р	3.50	21527
12	2022	Р	4.25	2808	3	2023	Р	4.00	20838
1	2023	С	10.00	2791	2	2023	С	10.00	20429
12	2022	С	6.00	2635	4	2023	Р	3.50	19750
12	2022	P	5.25	2518	4	2023	Р	2.00	19409
5	2023	С	6.00	2040	1	2023	Р	4.00	19317
1	2023	C	11.00	2011	10	2023	Р	4.00	19286
5	2023	C	5.00	2010	3	2023	С	20.00	18865
12	2022	P	4.75	1917	10	2023	Р	2.00	18710
12	2022	C	9.50	1891	10	2023	Р	2.50	18490
12	2022	Ċ	10.00	1458	12	2022	С	5.00	18279
1	2023	P	5.00	1349	3	2023	Р	3.00	18232
4	2023	P	3.00	1300	5	2023	Р	3.00	18138
4	2023	Р	3.50	1300	6	2023	Р	3.00	17735
1	2023	P	5.50	1257	12	2022	Р	5.50	17706
12	2022	P	5.50	1244	1	2023	Р	5.00	17687
3	2023	C	10.00	1225	12	2022	P	3.00	17582
12	2022	Ċ	9.00	1131	4	2023	Р	4.00	17502
12	2022	Ċ	12.00	1101	12	2022	С	8.00	17426
1	2023	P	3.00	1051	9	2023	Р	4.00	17186
4	2023	Р	4.50	1050	5	2023	P	3.50	17069
3	2023	C	13.00	1000	3	2023	С	8.00	16678
1	2023	Č	6.30	962	8	2023	P P	3.00	16651
1	2023	Ċ	5.95	950	10	2023	-	3.50	16568
2	2023	P	5.00	891	7	2023	P P	3.00	16550
3	2023	P	5.00	879	9	2023	P P	3.00	16550
1	2023	P	3.25	829	6 1	2023 2023	P	3.50 3.00	16365 16357
4	2023	C	5.00	810	12	2023	C	4.00	
5	2023	P	3.00	800	8	2022	P	3.50	16195 16101
6	2023	Р	3.00	800	7	2023	P	3.50	16069
2	2023	P	4.00	770	9	2023	P	3.50	16059
10	2023	P	3.00	751	6	2023	P	2.00	16024
4	2023	P	2.50	750	6	2023	P	4.00	15941
7	2023	Р	3.00	750	2	2023	C	8.00	15902
8	2023	Р	3.00	750	7	2023	P	4.00	15849
9	2023	Р	3.00	750	5	2023	P	2.50	15830
12	2022	Р	5.75	747	5	2023	P	4.00	15623
3	2023	C	8.00	745	8	2023	P	4.00	15526
12	2022	P	4.10	665	3	2023	P	2 75	15450
		÷			3	2020	Source	e: CME, ICE	10-100

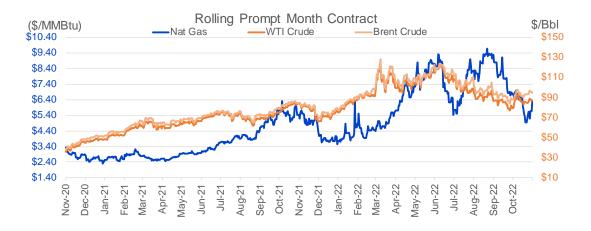


## Nat Gas Futures Open Interest

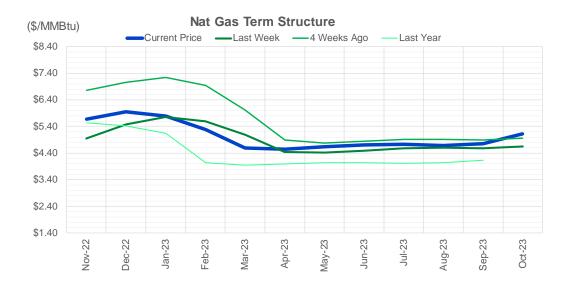
CME and ICE Combined

CME Henry Hub Futures (10,000 MMBtu)  ICE Henry Hub Futures Contract Equivalent (10,000 MM													
CIVIE Henry H				ICE Henry F			· · · · · · · · · · · · · · · · · · ·						
250.00	Current	Prior	Daily Change	250.00	Current	Prior	Daily Change						
DEC 22	105952	487	105465	DEC 22	77718	83367	-5649						
JAN 23	139107	103225	35882	JAN 23	73115	78339	-5224						
FEB 23	58760	137903	-79143	FEB 23	66985	74288	-7303						
MAR 23	97232	58175	39057	MAR 23	59733	66800	-7067						
APR 23	76869	96182	-19313	APR 23	57187	59638	-2451						
MAY 23	86371	77704	8667	MAY 23	59719	57156	2563						
JUN 23	23837	86967	-63130	JUN 23	49117	59588	-10472						
JUL 23	33817	23875	9942	JUL 23	49057	48998	59						
AUG 23	22387	34078	-11691	AUG 23	47269	48974	-1705						
SEP 23	30015	22439	7576	SEP 23	45355	47341	-1986						
OCT 23	51346	30175	21171	OCT 23	56613	44826	11787						
NOV 23	22155	51542	-29387	NOV 23	47349	56181	-8833						
DEC 23	26613	22924	3689	DEC 23	41788	47416	-5628						
JAN 24	37025	26795	10230	JAN 24	45929	41681	4248						
FEB 24	10537	36609	-26072	FEB 24	30721	45704	-14983						
MAR 24	22301	10549	11752	MAR 24	36815	31345	5470						
APR 24	20650	22152	-1502	APR 24	30409	37045	-6636						
MAY 24	8767	20584	-11817	MAY 24	29144	30466	-1322						
JUN 24	3219	8743	-5524	JUN 24	26199	29165	-2967						
JUL 24	4309	3232	1077	JUL 24	25518	26215	-697						
AUG 24	3972	4321	-349	AUG 24	25025	25547	-523						
SEP 24	2616	3976	-1360	SEP 24	24877	25054	-177						
OCT 24	9022	2620	6402	OCT 24	29192	24902	4290						
NOV 24	4883	9024	-4141	NOV 24	26258	29174	-2916						
DEC 24	8634	4883	3751	DEC 24	30149	26281	3868						
JAN 25	17790	8633	9157	JAN 25	23086	30196	-7110						
FEB 25	1845	17789	-15944	FEB 25	15710	23041	-7332						
MAR 25	6099	1845	4254	MAR 25	17707	15729	1978						
APR 25	5536	6099	-563	APR 25	16508	18079	-1571						
MAY 25	2585	5777	-3192	MAY 25	15117	16523	-1406						

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	\$5.684	\$5.953	\$5.794	\$5.276	\$4.601	\$4.556	\$4.630	\$4.708	\$4.727	\$4.688	\$4.756	\$5.116
Last Week	\$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. Last Week	\$0.725	\$0.481	\$0.040	-\$0.311	-\$0.485	\$0.108	\$0.213	\$0.214	\$0.148	\$0.084	\$0.182	\$0.468
4 Weeks Ago	\$6.766	\$7.065	\$7.247	\$6.937	\$6.028	\$4.887	\$4.784	\$4.848	\$4.914	\$4.924	\$4.894	\$4.965
vs. 4 Weeks Ago	-\$1.082	-\$1.112	-\$1.453	-\$1.661	-\$1.427	-\$0.331	-\$0.154	-\$0.140	-\$0.187	-\$0.236	-\$0.138	\$0.151
Last Year	\$5.426	\$5.529	\$5.433	\$5.145	\$4.047	\$3.955	\$3.989	\$4.031	\$4.035	\$4.018	\$4.050	\$4.140
vs. Last Year	\$0.258	\$0.424	\$0.361	\$0.131	\$0.554	\$0.601	\$0.641	\$0.677	\$0.692	\$0.670	\$0.706	\$0.976

	Unito	Cash	Prompt	Cash to	
	Units	Settled	Settle	Prompt	
AGT Citygate	\$/MMBtu	5.00	7.04	2.04	
TETCO M3	\$/MMBtu	3.21	4.43	1.22	
FGT Zone 3	\$/MMBtu	3.35	5.34	1.99	
Zone 6 NY	\$/MMBtu	3.35	4.68	1.33	
Chicago Citygate	\$/MMBtu	4.50	4.59	0.09	
Michcon	\$/MMBtu	4.43	4.51	0.08	
Columbia TCO Pool	\$/MMBtu	3.47	4.17	0.70	
Ventura	\$/MMBtu	4.54	4.74	0.20	
Rockies/Opal	\$/MMBtu	5.67	4.41	-1.26	
El Paso Permian Basin	\$/MMBtu	3.10	2.16	-0.94	
Socal Citygate	\$/MMBtu	5.75	5.16	-0.59	
Malin	\$/MMBtu	5.58	4.82	-0.76	
Houston Ship Channel	\$/MMBtu	4.63	4.33	-0.30	
Henry Hub Cash	\$/MMBtu	4.85	4.29	-0.56	
AECO Cash	C\$/GJ	1.59	3.64	2.05	
Station2 Cash	C\$/GJ	1.34	4.83	3.49	
Dawn Cash	C\$/GJ	4.54	4.62	0.08	

Source: CME, Bloomberg



				vs. 4 Weeks	
	Units	<b>Current Price</b>	vs. Last Week	Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
NatGas Oct21/Nov21	\$/MMBtu	0.361	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
NatGas Oct21/Jan22	\$/MMBtu	-1.817	<b>0.000</b>	<b>0.000</b>	<b>▼</b> -1.505
NatGas Apr22/Oct22	\$/MMBtu	1.532	<b>0.000</b>	<b>0.000</b>	<b>1.529</b>
WTI Crude	\$/Bbl	87.90	<b>2.850</b>	<b>8.410</b>	<b>4.330</b>
Brent Crude	\$/BbI	95.77	<b>2.270</b>	<b>7.810</b>	<b>11.390</b>
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Heating Oil	cents/Gallon	454.98	<b>11.750</b>	<b>118.080</b>	<b>2</b> 05.340
Propane, Mt. Bel	cents/Gallon	0.86	<b>0.010</b>	<b>-</b> 0.137	<b>-</b> 0.590
Ethane, Mt. Bel	cents/Gallon	0.40	<b>0.005</b>	<b>-</b> 0.061	<b>▼</b> -0.032
Coal, PRB	\$/MTon	12.30	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Coal, PRB	\$/MMBtu	0.70			
Coal, ILB	\$/MTon	31.05	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Coal, ILB	\$/MMBtu	1.32			

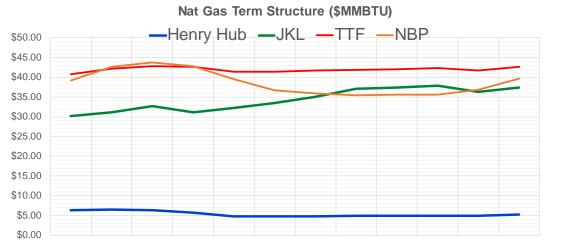
FEB 23

**MAR 23** 

**APR 23** 

**NOV 23** 

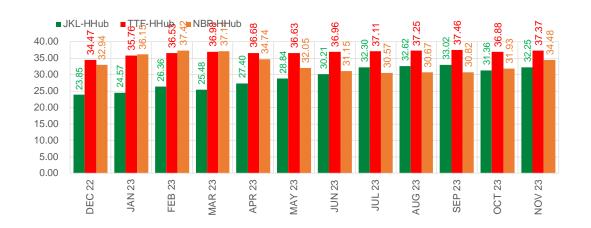




MAY 23

**AUG 23** 

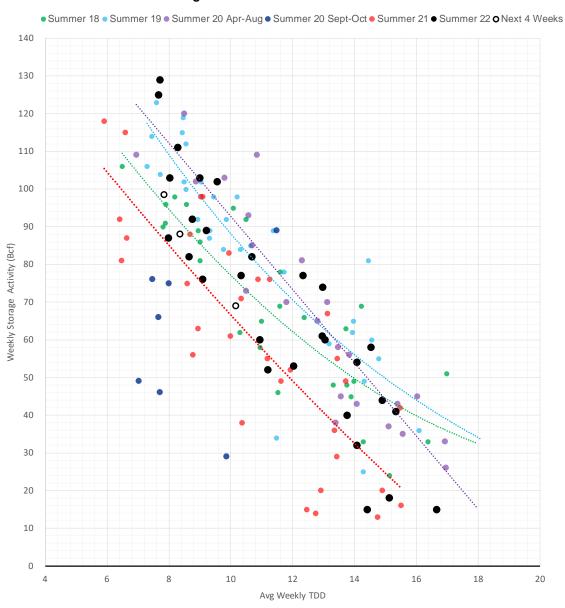
SEP 2



	<b>DEC 22</b>	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	\$6.306	\$6.515	\$6.317	\$5.639	\$4.794	\$4.729	\$4.792	\$4.866	\$4.879	\$4.847	\$4.912	\$5.239
JKL	\$30.160	\$31.085	\$32.675	\$31.120	\$32.195	\$33.565	\$35.005	\$37.170	\$37.500	\$37.870	\$36.270	\$37.490
JKL-HHub	\$23.854	\$24.570	\$26.358	\$25.481	\$27.401	\$28.836	\$30.213	\$32.304	\$32.621	\$33.023	\$31.358	\$32.251
TTF	\$40.778	\$42.279	\$42.849	\$42.623	\$41.473	\$41.356	\$41.748	\$41.974	\$42.129	\$42.306	\$41.796	\$42.611
TTF-HHub	\$34.472	\$35.764	\$36.532	\$36.984	\$36.679	\$36.627	\$36.956	\$37.108	\$37.250	\$37.459	\$36.884	\$37.372
NBP	\$39.246	\$42.665	\$43.738	\$42.774	\$39.534	\$36.774	\$35.939	\$35.434	\$35.550	\$35.669	\$36.838	\$39.721
NBP-HHub	\$32.940	\$36.150	\$37.421	\$37.135	\$34.740	\$32.045	\$31.147	\$30.568	\$30.671	\$30.822	\$31.926	\$34.482



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





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

