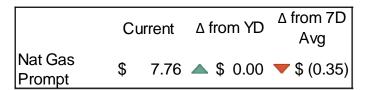


## **Market Report**

## 20 September 2022



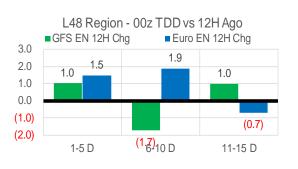
	С	urrent	Δ from YD		m 7D vg
WTI Prompt	\$	85.54	<b>\$</b> (0.19)	<b>-</b> \$	(0.5)

	С	urrent	Δf	rom Y	D		m 7D va
Brent Prompt	\$	92.00		\$	-	<b>*</b> \$	0

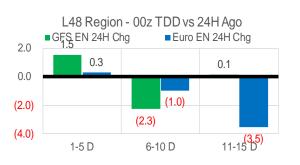
#### Page Menu

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	99.0	<b>▼</b> -1.92	<b>▼</b> -1.25

	Current	Δ from YD	Δ from 7D Avg
US ResComm	8.0	▲ 0.04	▼ -0.11

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.6	<b>▼</b> -0.11	<b>a</b> 0.10

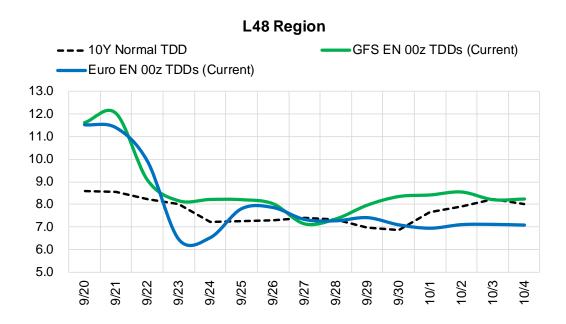
	Current	Δ from YD	Δ from 7D Avg
US Power Burns	37.9	<b>a</b> 0.07	<b>1.93</b>

	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.3	▲ 0.39	<b>a</b> 0.57

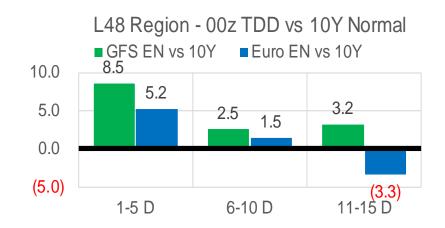
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.4	<b>a</b> 0.17	<b>0.07</b>



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



### Vs. 10Y Normal



Source: WSI, Bloomberg



## **Market Report**

#### **Daily Balances**

## Lower 48 Component Models

	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	DoD	vs. 7D
Lower 48 Dry Production	100.0	100.6	100.3	100.1	100.4	101.0	99.0	▼-1.9	▼ -1.4
Canadian Imports	5.4	5.5	5.7	5.9	6.2	5.9	6.3	<b>0.4</b>	<b>▲</b> 0.5
L48 Power	36.8	35.2	34.9	33.5	35.2	37.9	37.9	<b>0.1</b>	<b>2.3</b>
L48 Residential & Commercial	8.0	8.4	8.4	8.0	7.7	8.0	8.0	<b>0.0</b>	▼ -0.1
L48 Industrial	20.1	20.7	21.1	21.6	21.9	22.2	22.4	<b>0.1</b>	<b>1.1</b>
L48 Lease and Plant Fuel	5.4	5.5	5.4	5.4	5.4	5.5	5.3	▼ -0.1	<b>▼</b> -0.1
L48 Pipeline Distribution	2.5	2.4	2.4	2.3	2.4	2.5	2.5	<b>0.0</b>	<b>0.1</b>
L48 Regional Gas Consumption	72.8	72.1	72.3	70.8	72.7	76.1	76.2	<b>0.1</b>	<b>3.4</b>
Net LNG Delivered	11.17	11.64	11.83	11.44	11.54	11.69	11.59	▼ -0.1	▲ 0.0
Total Mexican Exports	6.7	6.6	6.2	5.5	6.3	6.2	6.4	<b>0.2</b>	<b>▲</b> 0.2
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	14.8	15.7	15.7	18.3	16.0	12.8	11.1		

EIA Storage Week Balances								
_	LY				LW	Current		
	17-Sep	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	WoW	vs. LY
Lower 48 Dry Production	93.3	97.8	98.6	99.8	100.4	100.4	▼ -0.1	<b>▲ 7.1</b>
Canadian Imports	5.0	4.8	5.4	5.7	5.8	5.5	▼-0.3	<b>0.4</b>
L48 Power	35.1	39.6	41.2	42.6	41.0	37.9	▼-3.1	2.7
L48 Residential & Commercial	8.5	8.1	8.2	8.2	7.9	8.2	<b>0.4</b>	-0.3
L48 Industrial	20.5	21.3	21.0	21.9	21.3	21.2	▼ -0.1	0.7
L48 Lease and Plant Fuel	5.1	5.3	5.4	5.4	5.4	5.4	▼ 0.0	0.4
L48 Pipeline Distribution	2.4	2.5	2.6	2.7	2.7	2.6	▼ -0.1	0.1
L48 Regional Gas Consumption	71.6	76.8	78.5	80.8	78.2	75.3	▼ -2.9	<b>3.6</b>
Net LNG Exports	10.2	10.9	11.1	10.9	11.3	11.3	▼ 0.0	<b>1.1</b>
Total Mexican Exports	6.6	7.0	6.9	6.9	6.6	6.7	<b>▲ 0.1</b>	▲ 0.0
Implied Daily Storage Activity	9.8	7.9	7.6	7.0	10.2	12.6	2.5	2.8
EIA Reported Daily Storage Activity	10.9	8.6	8.7	7.7	11.0			
Daily Model Error	-1.1	-0.6	-1.1	-0.7	-0.8			

Monthly Balances									
	2Yr Ago	LY					MTD		
	Sep-20	Sep-21	May-22	Jun-22	Jul-22	Aug-22	Sep-22	MoM	vs. LY
Lower 48 Dry Production	88.9	93.6	95.8	96.5	97.1	98.6	100.4	<b>1.8</b>	<b>6.8</b>
Canadian Imports	3.8	5.1	5.1	5.7	5.9	5.4	5.7	<b>0.4</b>	<b>0.6</b>
L48 Power	34.4	33.1	29.8	38.0	43.7	42.6	38.8	▼-3.9	<b>5.6</b>
L48 Residential & Commercial	8.9	8.7	12.4	9.1	9.0	8.3	8.1	▼-0.3	▼ -0.7
L48 Industrial	19.9	20.2	19.7	18.7	19.5	21.3	21.0	▼-0.3	8.0
L48 Lease and Plant Fuel	4.8	5.1	5.3	5.3	5.3	5.4	5.4	<b>0.1</b>	<b>0.4</b>
L48 Pipeline Distribution	2.4	2.3	2.4	2.5	2.8	2.7	2.6	<b>▼</b> -0.1	<b>0.3</b>
L48 Regional Gas Consumption	70.4	69.5	69.5	73.7	80.2	80.3	75.8	▼ -4.4	<b>6.3</b>
Net LNG Exports	5.9	10.3	12.5	11.2	10.9	11.0	11.3	<b>0.4</b>	<b>1.0</b>
Total Mexican Exports	6.1	6.7	7.0	7.1	7.0	6.9	6.5	▼-0.4	▼ -0.2
Implied Daily Storage Activity EIA Reported Daily Storage Activity	10.3	12.1	11.9	10.2	4.9	5.8	12.4		
Daily Model Error					0.2				

Source: Bloomberg, analytix.ai



## **Daily** Average Generation Data

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

	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	DoD	vs. 7D
NRC Nuclear Daily Output	86.9	86.0	86.1	86.4	86.9	86.9	86.9	0.0	0.4
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	18.0	18.9	18.8	18.5	18.0	18.0	18.0	0.0	-0.4
NRC % Nuclear Cap Utilization	88.4	87.4	87.5	87.9	88.4	88.4	88.4	0.0	0.4

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

	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	DoD	vs. 7D
CALI Wind	1470	3334	2462	2883	2474	3033	2068	-965	-541
TEXAS Wind	4395	9897	13152	12794	14525	16597	13917	-2680	2024
US Wind	25041	35948	51272	52821	48839	55278	46302	-8976	1436

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

	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	DoD	vs. 7D
US Wind	25041	35948	51272	52821	48839	55278	46302	-8976	1436
US Solar	14236	15356	16544	17256	17709	16714	16245	-470	-58
US Petroleum	1129	983	937	943	963	965	988	23	1
US Other	9999	10061	9660	9788	10583	10268	10328	60	268
US Coal	94830	89595	85291	86422	88829	82040	87278	5238	-556
US Nuke	88714	89230	88923	89429	89636	89013	88591	-422	-567
US Hydro	27427	24999	24121	24077	24103	22185	22397	212	-2089
US Gas	218536	205902	184599	179376	180975	169311	182023	12711	-7761

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai



**US Nuke** 

US Hydro

**US Gas** 

## **Storage Week** Average Generation Data

Nuclear Generation Weekly Ave	rage - G	Wh (NRC	<b>5)</b>					
	17-Sep	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	86.7	91.2	90.3	89.6	87.5	86.6	-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	18.2	13.7	14.5	15.2	17.4	18.3	0.9	
NRC % Nuclear Cap Utilization	88.2	92.8	91.9	91.2	88.9	88.0	-0.9	
Wind Generation Weekly Average	ge - MWI	n (EIA)						
	17-Sep	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	WoW	WoW Bcf/d Impact
CALI Wind	2083	1953	2324	1825	1285	2033	748	-0.1
TEXAS Wind	9541	7139	5879	6839	4092	8875	4783	-0.9
US Wind	42417	28474	23582	36122	27253	37391	10138	-1.8
							37%	
						1.2		
Generation Weekly Average - M	Wh (EIA	)						
					LY	Current		
								WoW
	17-Sep	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	YoY	Bcf/d
								Impact
US Wind	42417	28474	23582	36122	27253	37391	10138	-1.8
US Solar	14069	16951	15905	17073	16144	14522	-1622	0.3
US Petroleum	425	1045	1047	1075	1105	1029	-77	0.0
US Other	9289	9882	10332	10580	9947	9791	-156	0.0
US Coal	114911	112914	114538	113005	105982	91205	-14778	2.7

See National Wind and Nuclear daily charts

94032

30431

218153

92872

30663

227218

92018

27850

232735

89638

27940

227615

89509

24153

184243

Source: Bloomberg, analytix.ai

88711

25841

200603

-927

-2099

-27013

0.2

0.4

-4.9



## **Monthly** Average Generation Data

Nuclear Generation Monthly A	verage -	GWh (N	RC)						
	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	Jun-22	Jul-22	Aug-22	Sep-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
NRC Nuclear Daily Output	90.0	89.1	88.6	90.6	90.5	87.1	88.1	-3.5	-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	14.9	15.8	16.3	14.3	14.3	17.8	16.8	3.5	1.0
NRC % Nuclear Cap Utilization	91.5	90.6	90.1	92.1	92.1	88.5	89.6	-3.5	-1.0

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

	2Yr Ago	LY				MTD			
	Same 30 days	Same 30 days	Jun-22	Jul-22	Aug-22	Sep-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
CALI Wind	1448	1978	2892	2719	2028	1824	1883	-204	-95
TEXAS Wind	6913	8881	13378	11765	8440	8350	7620	-90	-1261
US Wind	30188	38040	46918	39701	33222	36030	34160	2808	-3880

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

	2Yr Ago	ĹY				MTD			
	Same 30 days	Same 30 days	Jun-22	Jul-22	Aug-22	Sep-22	Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
US Wind	30188	38040	46918	39701	33222	36030	34160	▼-1870.3	▼ -3880
US Solar	9454	13849	19376	18598	16998	15676	16043	<b>367.0</b>	<b>2194</b>
US Petroleum	987	966	1001	1252	1253	1029	1053	<b>2</b> 4	<b>87</b>
US Other	8877	9493	8608	10129	10424	9995	10212	<b>217</b>	<b>~</b> 718
US Coal	111192	123912	105517	119788	117200	96394	102564	<b>6171</b>	<b>▼-21348</b>
US Nuke	92631	91683	89949	92883	92969	89211	90332	<b>1121</b>	<b>▼</b> -1351
US Hydro	27678	26806	37531	34227	30121	25908	27016	<b>1108</b>	<b>209</b>
US Gas	195692	195681	200872	235766	233735	206731	215699	<b>~</b> 7137	<b>20018</b>
US Total	474708	500511	509350	551822	535671	480763	496851	<b>16143</b>	▼ -3660



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai



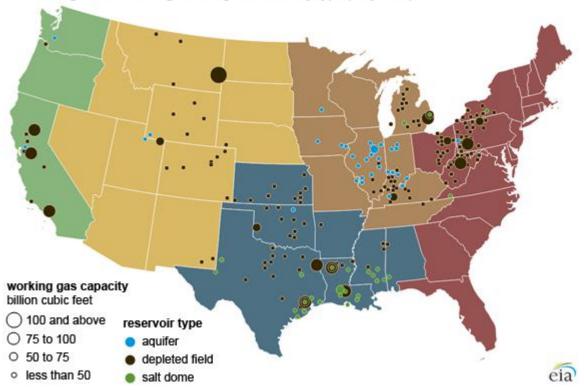
## Regional S/D Models Storage Projection

Week Ending 16-Sep

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	13.7	-0.1	13.6	95
East	1.8	1.8	3.6	25
Midwest	5.2	0.1	5.3	37
Mountain	4.9	-4.2	0.7	5
South Central	0.9	2.8	3.7	26
Pacific	0.9	-0.6	0.3	2

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

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



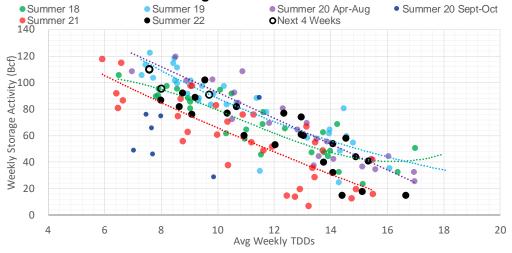


## Weather Model Storage Projection

Next report
and beyond

Week Ending	GWDDs	Week Storage Projection
16-Sep	8.0	95
23-Sep	9.7	91
30-Sep	7.6	110
07-Oct	7.6	110

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



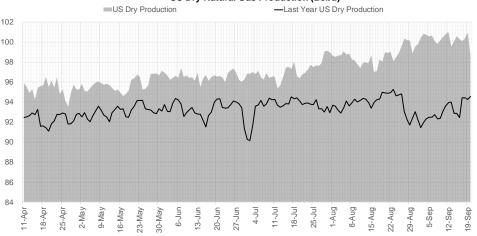
Go to larger image



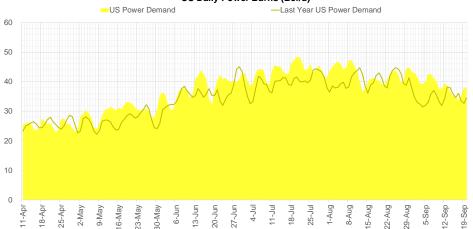


### Supply - Demand Trends

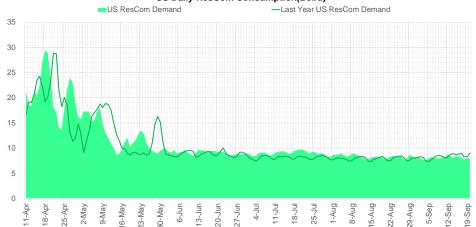
#### US Dry Natural Gas Production (Bcf/d)



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



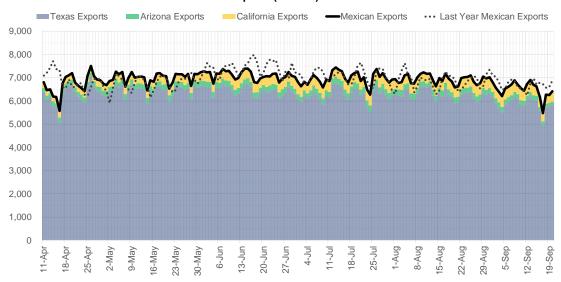
#### US Daily ResCom Consumption(Bcf/d)

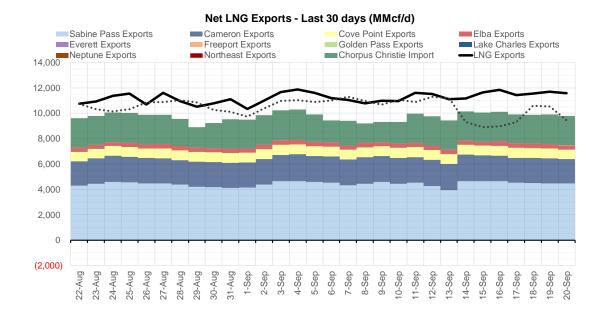


Source: Bloomberg



#### Mexican Exports (MMcf/d)





Source: Bloomberg



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

ONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATI
10	2022	Р	6.00	6603	10	2022	Р	3.00	36677
10	2022	Р	5.50	5138	10	2022	С	6.00	36016
10	2022	Р	7.00	3446	10	2022	Р	6.00	34159
10	2022	Р	5.00	2950	10	2022	Р	5.00	30533
10	2022	С	8.00	2916	10	2022	Р	2.50	28006
10	2022	C	9.00	2815	10	2022	С	10.00	25566
10	2022	C	8.50	2345	10	2022	С	5.00	23569
10	2022	C	11.00	1707	3	2023	С	10.00	23350
10	2022	P	6.25	1677	10	2022	С	12.00	22888
10	2022	P	6.50	1431	11	2022	Р	4.00	22342
10	2022	C	8.25	1237	10	2022	Р	3.50	22296
11	2022	P	5.50	1227	5	2023	Р	2.00	22227
5	2023	P	4.00	1225	12	2022	Р	5.00	21873
7	2023	P	4.00	1225	10	2022	Р	4.00	2162
10	2023	C	9.25	1160	10	2022	Р	7.00	21383
10	2022	C	10.00	1003	4	2023	Р	3.00	21356
10	2022	C	9.15	1003	10	2022	Р	8.00	2055
		P			10	2023	Р	3.00	2006
11	2022		5.65	1000	4	2023	P	3.50	1937
10	2022	С	9.50	980	3	2023	C	20.00	1889
10	2022	P	7.25	910	10	2022	Ċ	8.00	1852
11	2022	C	10.00	872	12	2022	Č	5.00	1822
10	2022	P	7.50	823	10	2023	P	2.50	1790
11	2022	С	8.00	782	5	2023	Р	3.50	1777
6	2023	Р	4.00	725	3	2023	Р	3.00	1769
8	2023	Р	4.00	725	6	2023	Р	3.00	1769
9	2023	Р	4.00	725	5	2023	Р	3.00	1766
10	2023	Р	4.00	725	10	2023	r P	5.50	1762
11	2022	Р	7.00	705	11	2022	P	5.00	1745
4	2023	Р	4.00	705	1	2023	C	10.00	1740
10	2022	С	7.50	601	7	2023	P	3.50	1740
11	2022	Р	4.00	600	8	2023	P	3.50	1732
11	2022	Р	7.50	598	9		P P		
11	2022	С	12.00	565	9 10	2023	P P	3.50	1731 1728
4	2023	C	10.00	525		2023 2023	P P	3.50	
5	2023	C	10.00	525	6		P P	3.50	1719
6	2023	C	10.00	525	10	2022		2.00	1675
7	2023	Č	10.00	525	10	2022	С	9.00	1667
8	2023	Č	10.00	525	12	2022	P	6.00	1660
9	2023	Č	10.00	525	7	2023	P	3.00	1634
10	2023	Č	10.00	525	12	2022	P	4.00	1623
11	2022	Č	11.00	522	12	2022	C	4.00	1619
10	2022	C	8.75	522 513	8	2023	P	3.00	1614
		C			9	2023	P	3.00	1614
10	2022 2023	C	9.20	502	10	2023	P	4.00	1608
1			30.00	501	11	2022	P	6.00	1603
5	2023	С	7.00	500	11	2022	С	12.00	1595
10	2022	P	8.00	484	11	2022	С	4.00	1575
10	2022	P -	7.75	476	2	2023	С	10.00	1568
4	2023	Р	2.75	475	10	2023	Р	2.00	1551
4	2023	Р	3.25	475	4	2023	P	: CME, ICE	1549

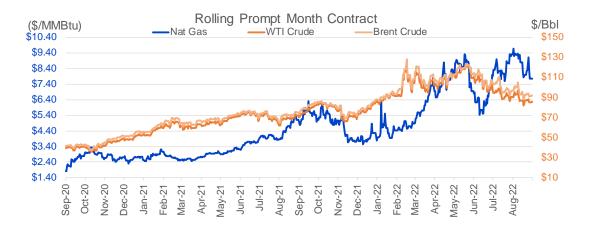


### Nat Gas Futures Open Interest

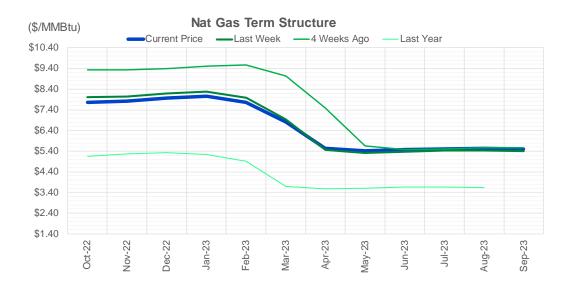
CME and ICE Combined

OME Harmal	lula Eutoma a /4/		and IOE Con		hale Easterne Const	ton at English	-l
CIME Henry H	lub Futures (1)			ICE Henry F			alent (10,000 MM
	Current	Prior	Daily Change		Current	Prior	Daily Change
OCT 22	56588	61811	-5223	OCT 22	74013	75377	-1364
NOV 22	154871	150843	4028	NOV 22	71772	72258	-486
DEC 22	64777	64523	254	DEC 22	68230	68445	-214
JAN 23	86917	85927	990	JAN 23	65198	65108	90
FEB 23	39311	38423	888	FEB 23	67171	66857	314
MAR 23	71078	71328	-250	MAR 23	55941	55996	-55
APR 23	75105	74270	835	APR 23	52397	52124	274
MAY 23	78869	78624	245	MAY 23	52785	52424	361
JUN 23	23731	23973	-242	JUN 23	45038	44854	184
JUL 23	23288	23656	-368	JUL 23	43910	43803	107
AUG 23	19773	19706	67	AUG 23	42595	42555	40
SEP 23	22678	22805	-127	SEP 23	42638	42514	123
OCT 23	54885	54565	320	OCT 23	51587	51310	277
NOV 23	17077	16894	183	NOV 23	46607	46697	-90
DEC 23	14364	14376	-12	DEC 23	40490	40583	-93
JAN 24	23448	22732	716	JAN 24	40719	40254	466
FEB 24	9005	8714	291	FEB 24	30513	30575	-63
MAR 24	18707	18746	-39	MAR 24	35880	36041	-161
APR 24	15004	14944	60	APR 24	29060	29013	46
MAY 24	7549	7551	-2	MAY 24	27657	27641	16
JUN 24	2931	2928	3	JUN 24	24971	24956	16
JUL 24	3462	3459	3	JUL 24	24729	24709	20
AUG 24	3426	3426	0	AUG 24	24426	24399	27
SEP 24	2239	2233	6	SEP 24	24168	24147	21
OCT 24	8638	8626	12	OCT 24	27985	27939	46
NOV 24	4886	4882	4	NOV 24	25414	25383	32
DEC 24	8196	8201	-5	DEC 24	28785	28755	30
JAN 25	17673	17666	7	JAN 25	22955	22957	-2
FEB 25	1563	1563	0	FEB 25	15524	15484	41
MAR 25	5198	5198	0	MAR 25	17507	17509	-2

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
<b>Current Price</b>	\$7.764	\$7.811	\$7.966	\$8.067	\$7.767	\$6.820	\$5.526	\$5.405	\$5.460	\$5.517	\$5.531	\$5.513
Last Week	\$7.996	\$8.044	\$8.183	\$8.278	\$7.989	\$6.953	\$5.469	\$5.319	\$5.366	\$5.417	\$5.430	\$5.413
vs. Last Week	-\$0.232	-\$0.233	-\$0.217	-\$0.211	-\$0.222	-\$0.133	\$0.057	\$0.086	\$0.094	\$0.100	\$0.101	\$0.100
4 Weeks Ago	\$9.336	\$9.315	\$9.385	\$9.492	\$9.552	\$9.030	\$7.496	\$5.656	\$5.462	\$5.508	\$5.555	\$5.567
vs. 4 Weeks Ago	-\$1.572	-\$1.504	-\$1.419	-\$1.425	-\$1.785	-\$2.210	-\$1.970	-\$0.251	-\$0.002	\$0.009	-\$0.024	-\$0.054
Last Year	\$5.105	\$5.146	\$5.258	\$5.328	\$5.244	\$4.902	\$3.703	\$3.576	\$3.611	\$3.653	\$3.661	\$3.644
vs. Last Year	\$2.659	\$2.665	\$2.708	\$2.739	\$2.523	\$1.918	\$1.823	\$1.829	\$1.849	\$1.864	\$1.870	\$1.869

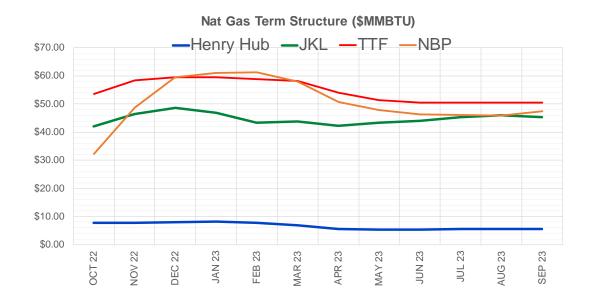
	Unito	Cash	Prompt	Cash to	
	Units	Settled	Settle	Prompt	
AGT Citygate	\$/MMBtu	7.28	7.72	0.44	
TETCO M3	\$/MMBtu	7.05	7.09	0.04	
FGT Zone 3	\$/MMBtu	7.04	9.08	2.04	
Zone 6 NY	\$/MMBtu	7.04	7.04	0.00	
Chicago Citygate	\$/MMBtu	6.97	7.82	0.85	
Michcon	\$/MMBtu	6.98	7.74	0.76	
Columbia TCO Pool	\$/MMBtu	6.88	7.13	0.25	
Ventura	\$/MMBtu	5.95	7.80	1.85	
Rockies/Opal	\$/MMBtu	6.89	7.53	0.63	
El Paso Permian Basin	\$/MMBtu	5.14	6.27	1.13	
Socal Citygate	\$/MMBtu	7.47	8.02	0.55	
Malin	\$/MMBtu	6.91	7.75	0.84	
Houston Ship Channel	\$/MMBtu	6.89	7.69	0.80	
Henry Hub Cash	\$/MMBtu	8.00	7.59	-0.41	
AECO Cash	C\$/GJ	3.23	4.34	1.11	
Station2 Cash	C\$/GJ	1.93	7.72	5.79	
Dawn Cash	C\$/GJ	6.97	7.69	0.72	

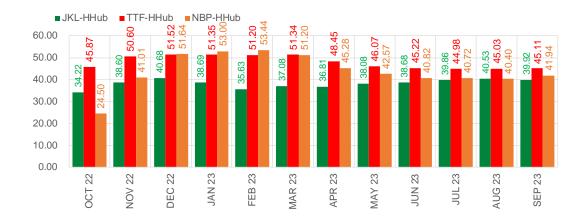
Source: CME, Bloomberg



					V	s. 4 Weeks		
	Units	<b>Current Price</b>	VS	Last Week	V	Ago	VS	s. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224		0.000		0.000		0.856
NatGas Oct21/Nov21	\$/MMBtu	0.361		0.000		0.000		0.324
NatGas Oct21/Jan22	\$/MMBtu	-1.817		0.000		0.000	_	-2.034
NatGas Apr22/Oct22	\$/MMBtu	2.416		-0.497	~	-1.895		2.446
WTI Crude	\$/Bbl	85.73		-2.050	•	-4.500		15.440
Brent Crude	\$/Bbl	92.00		-2.000	•	-4.480		18.080
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	331.08		-29.230	•	-46.540		115.180
Propane, Mt. Bel	cents/Gallon	1.04		-0.018	•	-0.052		-0.234
Ethane, Mt. Bel	cents/Gallon	0.48		-0.028	•	-0.131		0.100
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						



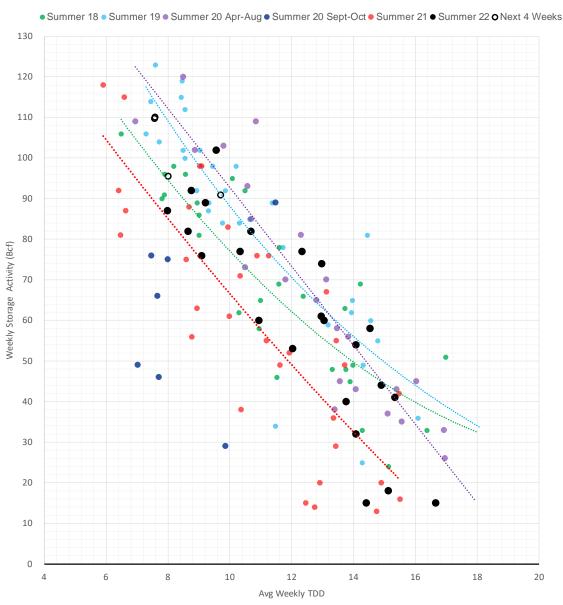




OCT 22	NOV 22	<b>DEC 22</b>	JAN 23	FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23
\$7.755	\$7.811	\$7.963	\$8.102	\$7.785	\$6.785	\$5.488	\$5.360	\$5.414	\$5.469	\$5.480	\$5.459
\$41.970	\$46.415	\$48.640	\$46.790	\$43.410	\$43.865	\$42.300	\$43.435	\$44.090	\$45.330	\$46.010	\$45.375
\$34.215	\$38.604	\$40.677	\$38.688	\$35.625	\$37.080	\$36.812	\$38.075	\$38.676	\$39.861	\$40.530	\$39.916
\$53.624	\$58.412	\$59.480	\$59.451	\$58.984	\$58.120	\$53.935	\$51.430	\$50.630	\$50.447	\$50.508	\$50.569
\$45.869	\$50.601	\$51.517	\$51.349	\$51.199	\$51.335	\$48.447	\$46.070	\$45.216	\$44.978	\$45.028	\$45.110
\$32.256	\$48.816	\$59.602	\$61.103	\$61.221	\$57.981	\$50.772	\$47.934	\$46.238	\$46.191	\$45.877	\$47.400
\$24.501	\$41.005	\$51.639	\$53.001	\$53.436	\$51.196	\$45.284	\$42.574	\$40.824	\$40.722	\$40.397	\$41.941
	\$7.755 \$41.970 \$34.215 \$53.624 \$45.869 \$32.256	\$7.755 \$7.811 \$41.970 \$46.415 \$34.215 \$38.604 \$53.624 \$58.412 \$45.869 \$50.601 \$32.256 \$48.816	\$7.755 \$7.811 \$7.963 \$41.970 \$46.415 \$48.640 \$34.215 \$38.604 \$40.677 \$53.624 \$58.412 \$59.480 \$45.869 \$50.601 \$51.517 \$32.256 \$48.816 \$59.602	\$7.755 \$7.811 \$7.963 \$8.102 \$41.970 \$46.415 \$48.640 \$46.790 \$34.215 \$38.604 \$40.677 \$38.688 \$53.624 \$58.412 \$59.480 \$59.451 \$45.869 \$50.601 \$51.517 \$51.349 \$32.256 \$48.816 \$59.602 \$61.103	\$7.755 \$7.811 \$7.963 \$8.102 \$7.785 \$41.970 \$46.415 \$48.640 \$46.790 \$43.410 \$34.215 \$38.604 \$40.677 \$38.688 \$35.625 \$53.624 \$58.412 \$59.480 \$59.451 \$58.984 \$45.869 \$50.601 \$51.517 \$51.349 \$51.199 \$32.256 \$48.816 \$59.602 \$61.103 \$61.221	\$7.755 \$7.811 \$7.963 \$8.102 \$7.785 \$6.785 \$41.970 \$46.415 \$48.640 \$46.790 \$43.410 \$43.865 \$34.215 \$38.604 \$40.677 \$38.688 \$35.625 \$37.080 \$53.624 \$58.412 \$59.480 \$59.451 \$58.984 \$58.120 \$45.869 \$50.601 \$51.517 \$51.349 \$51.199 \$51.335 \$32.256 \$48.816 \$59.602 \$61.103 \$61.221 \$57.981	\$7.755         \$7.811         \$7.963         \$8.102         \$7.785         \$6.785         \$5.488           \$41.970         \$46.415         \$48.640         \$46.790         \$43.410         \$43.865         \$42.300           \$34.215         \$38.604         \$40.677         \$38.688         \$35.625         \$37.080         \$36.812           \$53.624         \$58.412         \$59.480         \$59.451         \$58.984         \$58.120         \$53.935           \$45.869         \$50.601         \$51.517         \$51.349         \$51.199         \$51.335         \$48.447           \$32.256         \$48.816         \$59.602         \$61.103         \$61.221         \$57.981         \$50.772	\$7.755         \$7.811         \$7.963         \$8.102         \$7.785         \$6.785         \$5.488         \$5.360           \$41.970         \$46.415         \$48.640         \$46.790         \$43.410         \$43.865         \$42.300         \$43.435           \$34.215         \$38.604         \$40.677         \$38.688         \$35.625         \$37.080         \$36.812         \$38.075           \$53.624         \$58.412         \$59.480         \$59.451         \$58.984         \$58.120         \$53.935         \$51.430           \$45.869         \$50.601         \$51.517         \$51.349         \$51.199         \$51.335         \$48.447         \$46.070           \$32.256         \$48.816         \$59.602         \$61.103         \$61.221         \$57.981         \$50.772         \$47.934	\$7.755         \$7.811         \$7.963         \$8.102         \$7.785         \$6.785         \$5.488         \$5.360         \$5.414           \$41.970         \$46.415         \$48.640         \$46.790         \$43.410         \$43.865         \$42.300         \$43.435         \$44.090           \$34.215         \$38.604         \$40.677         \$38.688         \$35.625         \$37.080         \$36.812         \$38.075         \$38.676           \$53.624         \$58.412         \$59.480         \$59.451         \$58.984         \$58.120         \$53.935         \$51.430         \$50.630           \$45.869         \$50.601         \$51.517         \$51.349         \$51.199         \$51.335         \$48.447         \$46.070         \$45.216           \$32.256         \$48.816         \$59.602         \$61.103         \$61.221         \$57.981         \$50.772         \$47.934         \$46.238	\$7.755         \$7.811         \$7.963         \$8.102         \$7.785         \$6.785         \$5.488         \$5.360         \$5.414         \$5.469           \$41.970         \$46.415         \$48.640         \$46.790         \$43.410         \$43.865         \$42.300         \$43.435         \$44.090         \$45.330           \$34.215         \$38.604         \$40.677         \$38.688         \$35.625         \$37.080         \$36.812         \$38.075         \$38.676         \$39.861           \$53.624         \$58.412         \$59.480         \$59.451         \$58.984         \$58.120         \$53.935         \$51.430         \$50.630         \$50.447           \$45.869         \$50.601         \$51.517         \$51.349         \$51.199         \$51.335         \$48.447         \$46.070         \$45.216         \$44.978           \$32.256         \$48.816         \$59.602         \$61.103         \$61.221         \$57.981         \$50.772         \$47.934         \$46.238         \$46.191	\$7.755         \$7.811         \$7.963         \$8.102         \$7.785         \$6.785         \$5.488         \$5.360         \$5.414         \$5.469         \$5.480           \$41.970         \$46.415         \$48.640         \$46.790         \$43.410         \$43.865         \$42.300         \$43.435         \$44.090         \$45.330         \$46.010           \$34.215         \$38.604         \$40.677         \$38.688         \$35.625         \$37.080         \$36.812         \$38.075         \$38.676         \$39.861         \$40.530           \$53.624         \$58.412         \$59.480         \$59.451         \$58.984         \$58.120         \$53.935         \$51.430         \$50.630         \$50.447         \$50.508           \$45.869         \$50.601         \$51.517         \$51.349         \$51.199         \$51.335         \$48.447         \$46.070         \$45.216         \$44.978         \$45.028           \$32.256         \$48.816         \$59.602         \$61.103         \$61.221         \$57.981         \$50.772         \$47.934         \$46.238         \$46.191         \$45.877



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





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