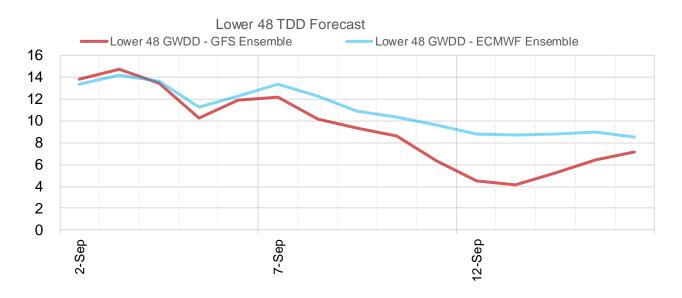
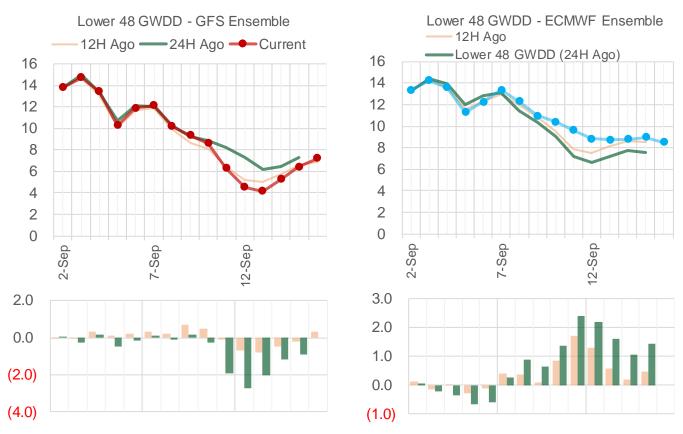
ion.	NERGY	Marke	et Repo	rt	2 September 2020				
	Curre	nt ∆ from `	YD ∆ from 7 Avg	Page M					
Nat Gas Prompt	$ Prompt \qquad \$ 2.44 \forall \$ (0.08) \forall \$ (0.15) \\ Lower 48 Component Models$								
Prompt Current Δ from YD Δ from 7D Regional S/D Models Storage Projection Current Δ from YD Δ from 7D Weather Model Storage Projection WTI \$ 43.03 ▲ \$ 0.27 ▲ \$ 0.1 Nat Gas Options Volume and Open Interest Prompt \$ 10.27 ▲ \$ 0.1 Price Summary									
Brent Prompt	Curre \$45	nt ∆ from ` .90 ▲ \$ 0.:	Avg		<u></u>				
<u></u>	WDD Cl	hange	Coole	er Change	War	mer Change			
ECMM	/F Ensen	nble 00z	1-5 Day	6-10 Day	11-15 Da	ay Total]		
	1	2 Hr Chg	-0.5	3.4	2.5	5.5			
	2	4 Hr Chg	-1.8	5.6	6.3	10.1			
GF	S Ensen	nble 00z	1-5 Day	6-10 Day	11-15 Da	ay Total	1		
	1	2 Hr Chg	0.6	1.6	-1.9	0.3			
	2	4 Hr Chg	-0.7	-2.0	-6.8	-9.6			
	Current	∆ from YD	∆ from 7D Avg		Current	A from YD	m 7D vg		
US Dry Production	84.7	▼ -0.90	✓ -1.30	US Power Burns	37.9	▲ 1.27 ▼ -	0.17		
	Current	∆ from YD	∆ from 7D Avg		Current	A from YL)	m 7D vg		
US ResComm	7.4	▼ -0.44	▼ -0.51	Canadian Imports	3.7	▼ -0.84 ▼ -	1.05		
	Current	∆ from YD	∆ from 7D Avg		Current	A from YL)	m 7D vg		
Net LNG Exports	3.1	▲ 0.13	▲ 0.47	Mexican Exports	6.5	▼ -0.08 ▼	0.04		



Short-term Weather Model Outlooks (00z)





Source: WSI , Bloomberg



Market Report

Daily Balances

	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep	2-Sep	DoD	vs.7D
Lower 48 Dry Production	85.7	86.7	86.0	86.3	86.3	85.6	84.7	▼ -0.9	▼ -1.4
Canadian Imports	5.1	5.0	4.4	4.3	4.4	4.5	3.7	▼ -0.8	▼ -0.9
L48 Power	42.6	40.6	35.8	33.7	35.5	36.7	37.9	1.3	0 .4
L48 Residential & Commercial	8.6	7.9	7.4	7.5	7.9	7.8	7.4	▼ -0.4	▼ -0.4
L48 Industrial	19.5	19.7	20.0	20.2	20.4	20.3	20.1	▼ -0.1	a 0.1
L48 Lease and Plant Fuel	4.8	4.8	4.8	4.8	4.8	4.8	4.7	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	2.4	2.2	2.0	1.9	2.0	2.1	2.2	▲ 0.0	4 0.1
L48 Regional Gas Consumption	77.8	75.3	69.9	68.1	70.6	71.7	72.4	0.7	A 0.1
Net LNG Exports	2.4	2.6	2.9	2.9	2.7	3.0	3.1	<mark>▲ 0.1</mark>	0.4
Total Mexican Exports	7.0	6.8	6.4	6.1	6.3	6.6	6.5	▼ -0.1	▲ 0.0
Implied Daily Storage Activity EIA Reported Daily Storage Activity	3.6	6.9	11.2	13.6	11.2	8.9	6.4		

Lower 48 Component Models

Daily Model Error

EIA Storage Week Balances

	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	WoW	vs. 4W
Lower 48 Dry Production	87.3	87.2	87.3	87.4	87.2	86.0	▼ -1.2	▼ -1.3
Canadian Imports	4.4	4.5	4.6	5.0	4.7	5.2	0.5	0.5
L48 Power	45.5	45.5	40.7	42.9	40.0	41.6	1.6	▼ -0.6
L48 Residential & Commercial	8.8	8.7	8.1	8.1	8.2	8.3	🔺 0.1	▲ 0.0
L48 Industrial	17.3	17.4	18.9	19.0	20.4	19.5	▼ -1.0	a 0.5
L48 Lease and Plant Fuel	4.9	4.9	4.9	4.9	4.8	4.8	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	2.5	2.5	2.2	2.3	2.2	2.3	A 0.1	▼ 0.0
L48 Regional Gas Consumption	78.9	78.9	74.7	77.2	75.7	76.5	A 0.8	▼ -0.2
Net LNG Exports	3.6	3.1	3.9	4.4	4.7	3.9	▼ -0.9	▼ -0.2
Total Mexican Exports	6.4	6.2	6.1	6.0	6.2	6.7	a 0.5	0.5
Implied Daily Storage Activity	2.7	3.5	7.2	4.8	5.3	4.2	-1.1	
EIA Reported Daily Storage Activity	3.7	4.7	8.3	6.1	6.4			
Daily Model Error	-1.0	-1.2	-1.1	-1.3	-1.2			

Monthly Balances

	2Yr Ago	LY					MTD		
	Sep-18	Sep-19	Apr-20	May-20	Jun-20	Jul-20	Aug-20	МоМ	vs. LY
Lower 48 Dry Production	85.2	93.5	91.6	85.8	85.1	86.6	87.3	▲ 0.8	▼ -6.2
Canadian Imports	4.5	4.7	3.9	3.9	4.0	4.4	4.6	A 0.2	▼ -0.1
L48 Power	34.2	36.4	25.5	26.9	34.8	43.8	40.5	▼ -3.4	4 .1
L48 Residential & Commercial	8.5	8.3	20.3	12.9	9.0	8.6	7.9	▼ -0.7	▼ -0.4
L48 Industrial	21.6	22.3	20.7	18.9	18.3	17.8	18.7	A 0.9	▼ -3.6
L48 Lease and Plant Fuel	4.8	5.2	5.1	4.8	4.9	4.9	4.9	▼ 0.0	▼ -0.4
L48 Pipeline Distribution	2.0	2.1	2.1	1.9	2.0	2.4	2.2	▼ -0.2	a 0.1
L48 Regional Gas Consumption	71.2	74.3	73.8	65.5	69.1	77.5	74.1	▼ -3.3	▼ -0.1
Net LNG Exports	3.1	6.2	8.2	6.7	4.0	3.3	4.0	A 0.7	▼ -2.2
Total Mexican Exports	5.1	5.4	4.9	4.9	5.7	6.1	5.8	▼ -0.3	0.5
Implied Daily Storage Activity EIA Reported Daily Storage Activity	10.3	12.4	8.6	12.6	10.2	4.1	7.9		
Daily Model Error									

Source: Bloomberg, analytix.ai

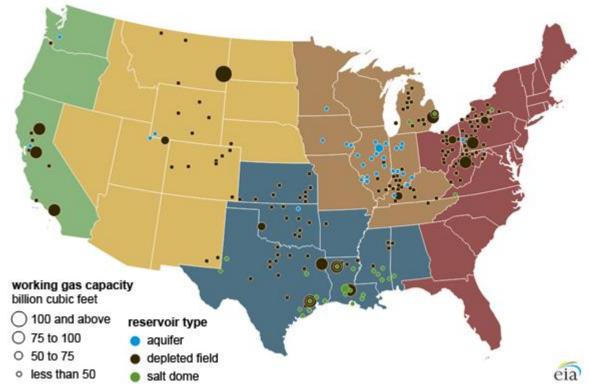


Regional S/D Models Storage Projection

Week Ending	28-Aug			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
L48	3.9	1.4	5.3	37
East	0.4	2.1	2.5	17
Midwest	2.5	0.7	3.3	23
Mountain	3.2	-2.5	0.7	5
South Central	-2.5	1.8	-0.6	-5
Pacific	0.2	-0.7	-0.4	-3

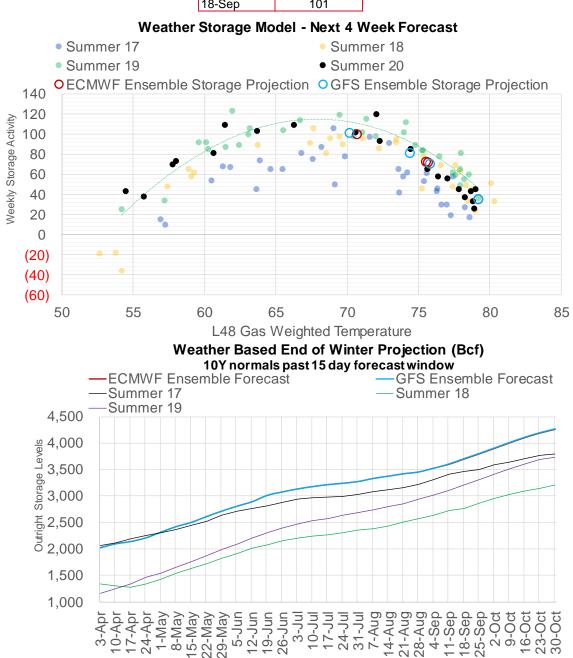
*Adjustment Factor is calcuated based on historical regional deltas

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

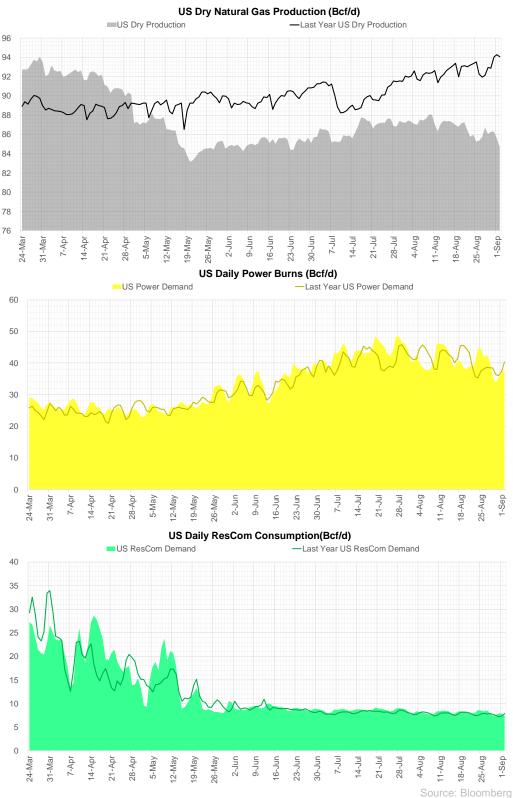


Weather Model Storage Projection

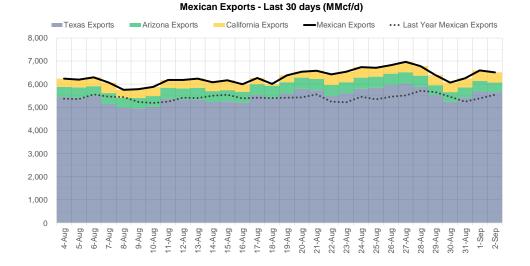
Next report and beyond							
	Week Storage						
Week Ending	Projection						
4-Sep	71						
4-Sep 11-Sep	77						
18-Sep	101						



Supply – Demand Trends



ENERGY



Cameron Exports Cove Point Exports Elba Exports Sabine Pass Exports Everett Exports Freeport Exports Golden Pass Exports Lake Charles Exports Neptune Exports Northeast Exports Chorpus Christie Import LNG Exports 8,000 7,000 6.000 5,000 4,000 3,000 2,000 1,000 0 (1,000)5-Aug 6-Aug 16-Aug 17-Aug 18-Aug 19-Aug 20-Aug 21-Aug 22-Aug 23-Aug 7-Aug 8-Aug 9-Aug 0-Aug 1-Aug 12-Aug 13-Aug 14-Aug 15-Aug 24-Aug 25-Aug 26-Aug 27-Aug 28-Aug 29-Aug 30-Aug 31-Aug 1-Aug 1-Sep 2-Sep

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

Source: Bloomberg



Nat Gas Options Volume and Open Interest

CME, ICE and Nasdaq Combined

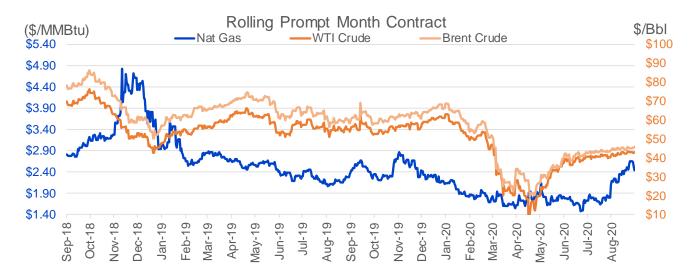
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
10	2020	С	3.00	13497	10	2020	Р	1.50	46601
10	2020	Р	2.00	7461	10	2020	Р	2.00	44436
10	2020	С	3.25	7137	10	2020	С	2.75	42782
10	2020	Р	2.25	5495	10	2020	С	3.00	38502
10	2020	С	2.75	5178	10	2020	С	2.50	34875
1	2021	С	3.75	4464	10	2020	Р	1.60	34051
1	2021	С	5.00	4140	3	2021	Р	2.00	31292
10	2020	С	3.50	2372	10	2020	Р	1.75	30158
10	2020	Р	2.15	2332	10	2020	Р	1.25	28894
10	2020	Р	2.50	2190	3	2021	С	3.25	25823
10	2020	С	2.60	2184	3	2021	С	4.00	24451
10	2020	Р	1.70	2008	10	2020	Р	1.00	24016
12	2020	С	4.00	1806	11	2020	С	3.50	23318
10	2020	С	2.65	1760	11	2020	Р	2.00	23147
11	2020	С	3.50	1685	1	2021	С	4.50	23116
10	2020	Р	2.35	1677	12	2020	Р	2.00	22650
10	2020	Р	2.10	1587	3	2021	С	3.00	22302
11	2020	С	4.00	1521	10	2020	С	2.10	21985
10	2020	C	2.80	1466	10	2020	Р	2.25	21800
10	2020	C	2.50	1177	1	2021	С	3.50	21662
11	2020	P	2.50	1177	10	2020	Р	2.10	21470
11	2020	C	3.00	1138	4	2021	С	5.00	20681
10	2020	C	3.20	1080	10	2020	С	3.50	20355
12	2020	c	4.50	1075	3	2021	С	3.50	20131
10	2020	c	2.85	1073	3	2021	С	6.00	20080
10	2020	c	4.50	1024	10	2020	Р	1.30	19128
3	2021	c	4.00	1014	10	2020	С	2.00	18664
12	2020	c	5.00	1000	10	2020	Р	1.80	18420
1	2020	c	4.00	988	10	2020	С	3.25	17965
10	2021	P	2.20	978	10	2020	С	2.25	17294
10	2020	C	3.50	921	11	2020	Р	2.25	17281
5	2020	c	4.00	900	11	2020	С	3.00	17121
		P			1	2021	С	3.00	16783
10 11	2020 2020	P C	2.40	846	11	2020	Р	2.50	15922
		c	3.25	805	1	2021	С	3.75	15895
10	2020		2.70	774	1	2021	С	5.00	15809
4	2021	С	5.00	769	2	2021	С	5.00	15469
5	2022	С	3.25	750	11	2020	С	5.00	14998
11	2020	Р	2.25	703	11	2020	С	2.75	14928
10	2020	Р	2.45	673	11	2020	С	3.25	14649
10	2020	Р	1.75	663	1	2021	Р	2.25	14304
12	2020	С	3.25	645	4	2021	С	3.00	14217
11	2020	Р	2.00	612	12	2020	С	4.00	14113
4	2021	Р	2.50	570	10	2020	С	2.40	13907
5	2021	Р	2.50	570	10	2020	Р	1.40	13897
6	2021	Р	2.50	570	4	2021	Р	2.00	13594
7	2021	Р	2.50	570	10	2020	С	2.70	13451
8	2021	Р	2.50	570	3	2021	С	5.00	13412
9	2021	Р	2.50	570	1	2021	Р	2.50	13228
10	2021	Р	2.50	570	6	2021	С	4	13225

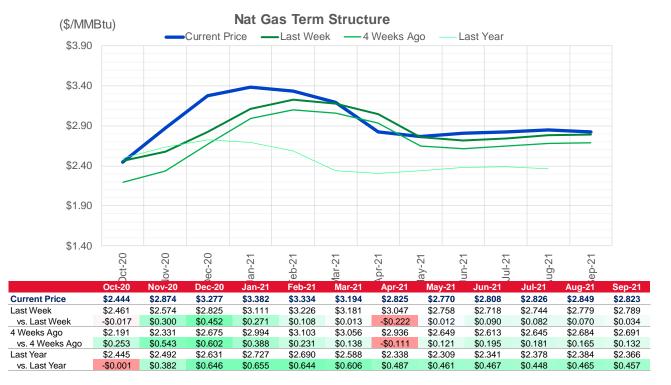
Source: CME, Nasdaq, ICE



CME, and ICE Combined								
CME Henry	Hub Futures (1				Futures Co		lent (10,000 MM	
	Current			FOR JUNE 26	Current	Prior	Daily Change	
OCT 20	223955	225916	-1961	OCT 20	93728	91665	2062.75	
NOV 20	212975	208195	4780	NOV 20	81665	81824	-159	
DEC 20	112512	112759	-247	DEC 20	72633	74474	-1841	
JAN 21	129907	130417	-510	JAN 21	86360	88180	-1820.75	
FEB 21	47461	47424	37	FEB 21	56461	56504	-43	
MAR 21	93693	93116	577	MAR 21	78763	78924	-161	
APR 21	79333	79589	-256	APR 21	63210	63221	-11	
MAY 21	46353	45881	472	MAY 21	53625	53232	392.75	
JUN 21	27185	27051	134	JUN 21	49928	49754	173.75	
JUL 21	19667	18942	725	JUL 21	52123	51741	381.5	
AUG 21	19529	19568	-39	AUG 21	52059	51637	421.75	
SEP 21	25628	25221	407	SEP 21	48561	48188	372.5	
OCT 21	64643	62891	1752	OCT 21	72439	72529	-90.25	
NOV 21	27019	26658	361	NOV 21	42073	41819	254.25	
DEC 21	22763	22391	372	DEC 21	42196	42392	-196	
JAN 22	21827	21677	150	JAN 22	36085	35955	129.5	
FEB 22	11758	11768	-10	FEB 22	31533	31421	112	
MAR 22	17487	17748	-261	MAR 22	33589	33483	106.5	
APR 22	20726	20954	-228	APR 22	33926	33779	147	
MAY 22	5995	5995	0	MAY 22	24550	24506	43.5	
JUN 22	3143	3146	-3	JUN 22	23829	23756	73	
JUL 22	2727	2737	-10	JUL 22	24303	24287	15.5	
AUG 22	1957	1955	2	AUG 22	24153	24086	67.75	
SEP 22	2132	2132	0	SEP 22	23279	23206	73	
OCT 22	3161	3157	4	OCT 22	24449	24439	10.25	
NOV 22	2035	2211	-176	NOV 22	21924	21798	125.5	
DEC 22	2148	2071	77	DEC 22	23002	22888	114.25	
JAN 23	2868	2868	0	JAN 23	12557	12461	96.5	
FEB 23	858	858	0	FEB 23	11436	11341	94.75	
MAR 23	898	898	0	MAR 23	11916	11863	53.25	

Source: CME, ICE





	Units	Cash Settled	Prompt Settle	Cash to Prompt	
AGT Citygate	\$/MMBtu	1.65	1.32	-0.33	
TETCO M3	\$/MMBtu	1.37	1.12	-0.25	
FGT Zone 3	\$/MMBtu	1.37	2.47	1.10	
Zone 6 NY	\$/MMBtu	1.37	1.09	-0.29	
Chicago Citygate	\$/MMBtu	2.09	2.23	0.14	
Michcon	\$/MMBtu	2.10	2.02	-0.08	
Columbia TCO Pool	\$/MMBtu	1.32	1.54	0.22	
Ventura	\$/MMBtu	2.03	2.17	0.14	
Rockies/Opal	\$/MMBtu	2.25	2.14	-0.11	
El Paso Permian Basin	\$/MMBtu	1.85	1.53	-0.32	
Socal Citygate	\$/MMBtu	2.86	2.88	0.02	
Malin	\$/MMBtu	2.24	2.38	0.14	
Houston Ship Channel	\$/MMBtu	2.20	2.38	0.18	
Henry Hub Cash	\$/MMBtu	2.23	2.20	-0.03	
AECO Cash	C\$/GJ	2.02	1.83	-0.19	
Station2 Cash	C\$/GJ	2.08	2.33	0.25	
Dawn Cash	C\$/GJ	2.08	2.09	0.01	

Source: CME, Bloomberg

		vs. 4 Weeks						
	Units	Current Price	vs.	Last Week		Ago	vs	. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.56	\checkmark	-0.089	\checkmark	-0.103	$\mathbf{\nabla}$	-0.158
NatGas Mar/Apr	\$/MMBtu	-0.369	\checkmark	-0.080	\checkmark	-0.656	$\mathbf{\nabla}$	-0.621
NatGas Oct/Nov	\$/MMBtu	0.43		0.179		0.086		0.374
NatGas Oct/Jan	\$/MMBtu	0.94		0.286		0.166		0.607
WTICrude	\$/Bbl	43.03	$\mathbf{\nabla}$	-0.360		0.840	$\mathbf{\nabla}$	-13.230
Brent Crude	\$/Bbl	45.90		0.260		0.730	$\mathbf{\nabla}$	-14.800
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03		0.000		0.000		0.000
Heating Oil	cents/Gallon	124.35	$\mathbf{\nabla}$	-0.120	$\mathbf{\nabla}$	-1.960	$\mathbf{\nabla}$	-63.670
Propane, Mt. Bel	cents/Gallon	0.52		0.012		0.013		0.088
Ethane, Mt. Bel	cents/Gallon	0.22	$\mathbf{\nabla}$	-0.020	$\mathbf{\nabla}$	-0.007		0.007
Coal, PRB	\$/MTon	12.30		0.000		0.000		0.150
Coal, ILB	\$/MTon	31.05		0.000		0.000	$\overline{}$	-4.500