

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 3.81	▼ \$ (0.17)	▲ \$ 0.02

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 72.98	▲ \$ 0.22	▲ \$ 2.0

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 75.52	▲ \$ 0.23	▲ \$ 1.8

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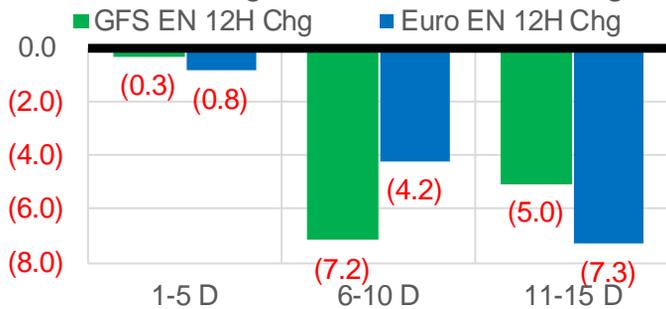
[Nat Gas Options Volume and Open Interest](#)

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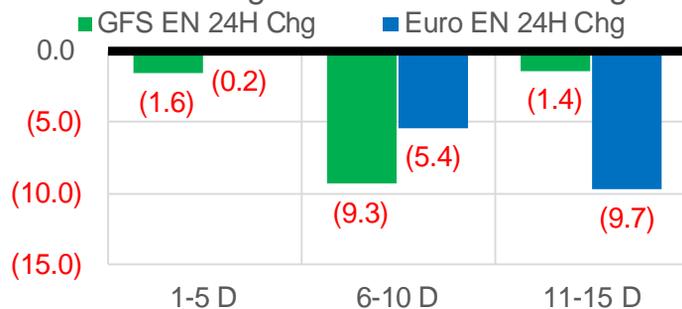
### Vs. 12H Ago

L48 Region - 00z TDD vs 12H Ago



### Vs. 24H Ago

L48 Region - 00z TDD vs 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	96.6	▲ 0.01	▲ 0.23

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	28.5	▼ -2.29	▼ -1.22

	Current	Δ from YD	Δ from 7D Avg
US ResComm	38.6	▼ -2.81	▼ -0.01

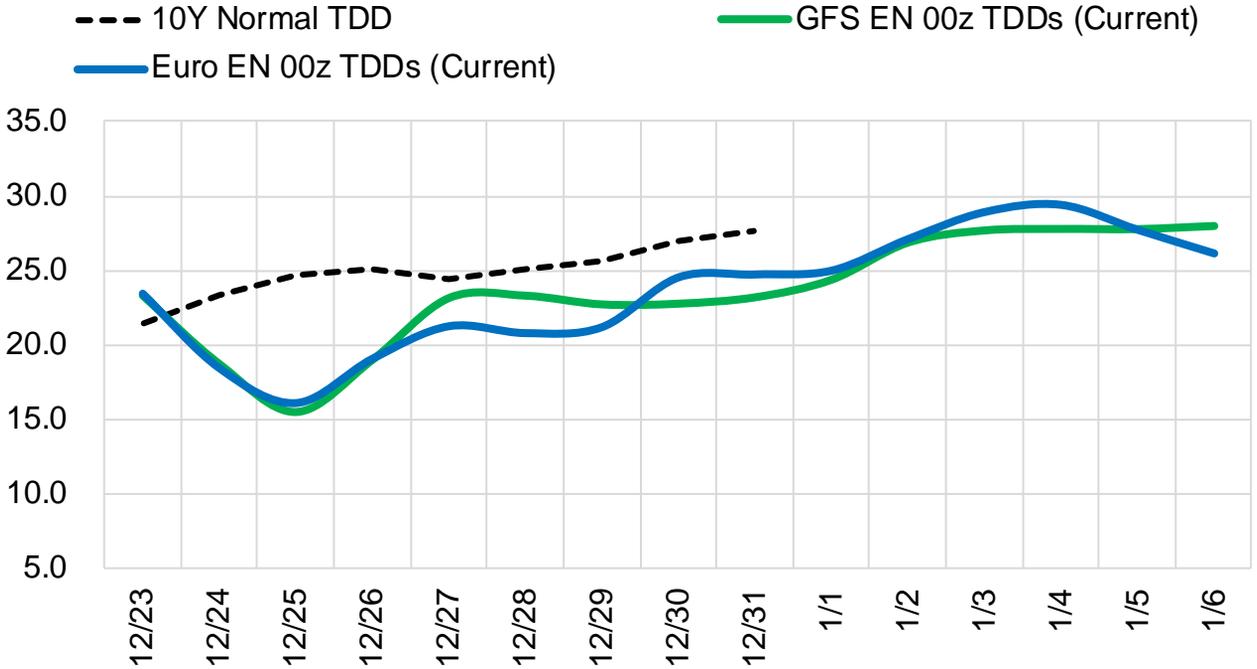
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	4.7	▼ -0.41	▼ -0.15

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.7	▲ 0.13	▲ 0.11

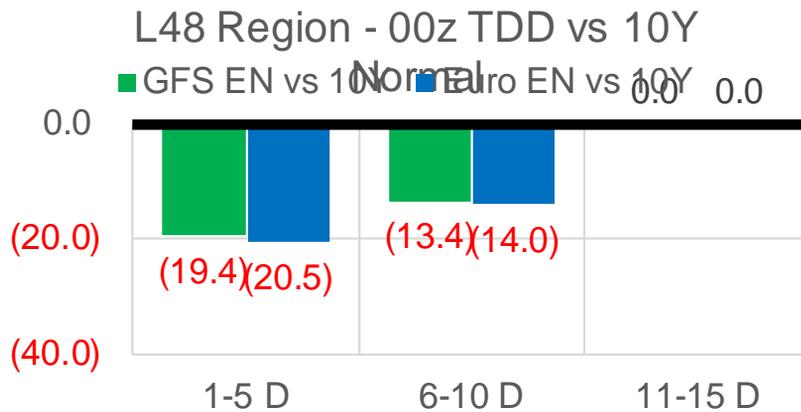
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.3	▼ -0.16	▲ 0.10

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

### L48 Region



## Vs. 10Y Normal



Source: WSI, Bloomberg

## Lower 48 Component Models

### Daily Balances

	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>96.5</b>	<b>96.5</b>	<b>96.3</b>	<b>96.4</b>	<b>96.2</b>	<b>96.6</b>	<b>96.6</b>	<b>▲ 0.0</b>	<b>▲ 0.2</b>
<b>Canadian Imports</b>	<b>4.1</b>	<b>5.1</b>	<b>5.4</b>	<b>5.3</b>	<b>5.0</b>	<b>5.1</b>	<b>4.7</b>	<b>▼ -0.4</b>	<b>▼ -0.3</b>
L48 Power	27.7	28.0	29.8	31.8	31.9	30.7	28.5	▼ -2.3	▼ -1.5
L48 Residential & Commercial	32.7	36.4	44.2	45.2	42.6	41.4	38.6	▼ -2.8	▼ -1.8
L48 Industrial	23.7	23.7	24.1	23.9	23.8	23.9	23.5	▼ -0.4	▼ -0.4
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.2	5.2	5.2	5.2	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	3.0	3.2	3.7	3.8	3.7	3.6	3.3	▼ -0.3	▼ -0.2
<b>L48 Regional Gas Consumption</b>	<b>92.4</b>	<b>96.5</b>	<b>107.0</b>	<b>110.0</b>	<b>107.3</b>	<b>104.9</b>	<b>99.1</b>	<b>▼ -5.8</b>	<b>▼ -3.9</b>
<b>Net LNG Delivered</b>	<b>11.76</b>	<b>12.64</b>	<b>13.09</b>	<b>12.87</b>	<b>12.91</b>	<b>12.54</b>	<b>12.67</b>	<b>▲ 0.1</b>	<b>▲ 0.0</b>
<b>Total Mexican Exports</b>	<b>6.2</b>	<b>6.2</b>	<b>6.0</b>	<b>6.2</b>	<b>6.0</b>	<b>6.5</b>	<b>6.3</b>	<b>▼ -0.2</b>	<b>▲ 0.1</b>
<b>Implied Daily Storage Activity</b>	<b>-9.7</b>	<b>-13.8</b>	<b>-24.4</b>	<b>-27.3</b>	<b>-24.9</b>	<b>-22.1</b>	<b>-16.7</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>95.9</b>	<b>95.1</b>	<b>96.2</b>	<b>96.9</b>	<b>96.7</b>	<b>96.5</b>	<b>▼ -0.2</b>	<b>▲ 0.3</b>
<b>Canadian Imports</b>	<b>5.1</b>	<b>4.9</b>	<b>5.5</b>	<b>5.6</b>	<b>5.3</b>	<b>4.6</b>	<b>▼ -0.7</b>	<b>▼ -0.8</b>
L48 Power	27.5	27.8	29.2	28.8	29.1	28.4	▼ -0.7	▼ -0.3
L48 Residential & Commercial	23.6	28.0	33.3	33.2	35.5	31.5	▼ -4.0	▼ -1.0
L48 Industrial	21.4	23.1	22.4	22.5	23.8	23.9	▲ 0.1	▲ 0.9
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.3	5.2	5.2	▼ 0.0	▲ 0.0
L48 Pipeline Distribution	2.7	3.0	3.3	3.3	3.2	3.0	▼ -0.2	▼ -0.2
<b>L48 Regional Gas Consumption</b>	<b>80.3</b>	<b>87.0</b>	<b>93.5</b>	<b>93.1</b>	<b>96.8</b>	<b>92.1</b>	<b>▼ -4.8</b>	<b>▼ -0.5</b>
<b>Net LNG Exports</b>	<b>11.2</b>	<b>11.1</b>	<b>11.7</b>	<b>11.8</b>	<b>12.0</b>	<b>11.9</b>	<b>▼ -0.2</b>	<b>▲ 0.2</b>
<b>Total Mexican Exports</b>	<b>6.2</b>	<b>6.0</b>	<b>6.0</b>	<b>6.4</b>	<b>6.4</b>	<b>6.2</b>	<b>▼ -0.2</b>	<b>▼ 0.0</b>
<b>Implied Daily Storage Activity</b>	<b>3.2</b>	<b>-4.2</b>	<b>-9.6</b>	<b>-8.8</b>	<b>-13.3</b>	<b>-9.1</b>	<b>4.2</b>	
<b>EIA Reported Daily Storage Activity</b>	<b>3.7</b>	<b>-3.0</b>	<b>-8.4</b>	<b>-8.4</b>	<b>-12.6</b>			
<b>Daily Model Error</b>	<b>-0.5</b>	<b>-1.2</b>	<b>-1.1</b>	<b>-0.4</b>	<b>-0.7</b>			

### Monthly Balances

	2Yr Ago Dec-19	LY Dec-20	Aug-21	Sep-21	Oct-21	Nov-21	MTD Dec-21	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>95.9</b>	<b>91.6</b>	<b>94.0</b>	<b>93.5</b>	<b>94.0</b>	<b>95.9</b>	<b>96.5</b>	<b>▲ 0.6</b>	<b>▲ 5.0</b>
<b>Canadian Imports</b>	<b>4.5</b>	<b>5.8</b>	<b>5.1</b>	<b>5.1</b>	<b>5.4</b>	<b>5.3</b>	<b>5.0</b>	<b>▼ -0.3</b>	<b>▼ -0.8</b>
L48 Power	29.3	28.0	40.1	33.0	30.2	28.7	29.1	▲ 0.3	▲ 1.1
L48 Residential & Commercial	39.1	40.3	7.9	8.7	13.2	29.6	34.8	▲ 5.3	▼ -5.5
L48 Industrial	24.6	23.4	21.5	20.3	20.3	22.3	23.7	▲ 1.4	▲ 0.3
L48 Lease and Plant Fuel	5.2	5.0	5.1	5.1	5.1	5.2	5.2	▲ 0.0	▲ 0.3
L48 Pipeline Distribution	3.4	3.4	2.6	2.3	2.3	3.1	3.2	▲ 0.1	▼ -0.2
<b>L48 Regional Gas Consumption</b>	<b>101.6</b>	<b>100.0</b>	<b>77.2</b>	<b>69.4</b>	<b>71.3</b>	<b>88.9</b>	<b>96.0</b>	<b>▲ 7.0</b>	<b>▼ -4.0</b>
<b>Net LNG Exports</b>	<b>7.8</b>	<b>11.0</b>	<b>10.5</b>	<b>10.3</b>	<b>10.6</b>	<b>11.4</b>	<b>12.1</b>	<b>▲ 0.7</b>	<b>▲ 1.1</b>
<b>Total Mexican Exports</b>	<b>4.9</b>	<b>5.8</b>	<b>6.9</b>	<b>6.7</b>	<b>6.6</b>	<b>6.1</b>	<b>6.3</b>	<b>▲ 0.2</b>	<b>▲ 0.5</b>
<b>Implied Daily Storage Activity</b>	<b>-13.8</b>	<b>-19.5</b>	<b>4.6</b>	<b>12.1</b>	<b>10.9</b>	<b>-5.3</b>	<b>-12.9</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

Source: Bloomberg, analytix.ai

## Daily Average Generation Data

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

	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	DoD	vs. 7D
NRC Nuclear Daily Output	92.0	92.0	92.4	92.3	91.0	91.6	92.5	0.9	0.6
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	12.9	12.9	12.5	12.5	13.9	13.3	12.4	-0.9	-0.6
NRC % Nuclear Cap Utilization	93.5	93.5	93.9	93.9	92.5	93.1	94.0	0.9	0.6

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

	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	DoD	vs. 7D
CALI Wind	1464	1855	737	706	755	703	610	-94	-427
TEXAS Wind	21984	10166	13399	17351	8377	5371	6709	1339	-6065
US Wind	78485	58030	45197	52087	46964	43099	42831	-268	-11146

### Generation Daily Average - MWh (EIA)

	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	DoD	vs. 7D
US Wind	78485	58030	45197	52087	46964	43099	42831	-268	-11146
US Solar	7000	7455	9867	6640	6660	7729	4701	-3028	-2858
US Petroleum	2390	2866	3282	3459	3460	4188	4042	-146	767
US Other	8239	8418	7751	8045	7687	8566	8678	111	560
US Coal	72448	77505	82220	80841	84303	90338	93123	2785	11847
US Nuke	97022	96882	97494	97176	96120	97313	97898	585	897
US Hydro	30417	30913	32428	31427	31027	35855	34871	-984	2860
<b>US Gas</b>	<b>145034</b>	<b>151893</b>	<b>157195</b>	<b>141625</b>	<b>156736</b>	<b>189764</b>	<b>189614</b>	<b>-151</b>	<b>32572</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	79.8	83.9	86.1	87.8	88.0	90.0	2.1	-0.4
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	25.1	21.0	18.8	17.1	16.9	14.9	-2.1	
NRC % Nuclear Cap Utilization	0.1	0.1	0.1	0.1	0.1	0.1	0.0	

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

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	WoW Bcf/d Impact
CALI Wind	1805	862	1496	363	1263	1709	445	-0.1
TEXAS Wind	12032	13655	14691	8733	12216	16176	3960	-0.7
US Wind	51002	58367	56260	47210	51470	68300	16830	-3.0
					4259.8			
					9%			

### Generation Weekly Average - MWh (EIA)

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	WoW Bcf/d Impact
US Wind	51002	58367	56260	47210	51470	68300	16830	-3.0
US Solar	10015	10068	9086	9918	7402	7489	87	0.0
US Petroleum	2532	2555	3342	3166	3441	2701	-740	0.1
US Other	8205	7849	8442	8483	8435	8495	60	0.0
US Coal	77955	77863	82301	82287	82743	77026	-5716	1.0
US Nuke	84337	88331	91252	92816	92983	95055	2072	-0.4
US Hydro	25422	26216	27837	26777	29626	30247	621	-0.1
<b>US Gas</b>	<b>145215</b>	<b>145263</b>	<b>148208</b>	<b>155286</b>	<b>159459</b>	<b>148649</b>	<b>-10809</b>	<b>1.9</b>

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			Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Sep-21	Oct-21	Nov-21	Dec-21				
	NRC Nuclear Daily Output	92.4	88.3	87.1	75.5	82.7	89.7			
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	12.5	16.6	17.8	29.4	22.2	15.2	15.5	-7.0	-1.1	
NRC % Nuclear Cap Utilization	94.0	89.8	88.6	76.8	84.1	91.2	90.8	7.1	1.1	

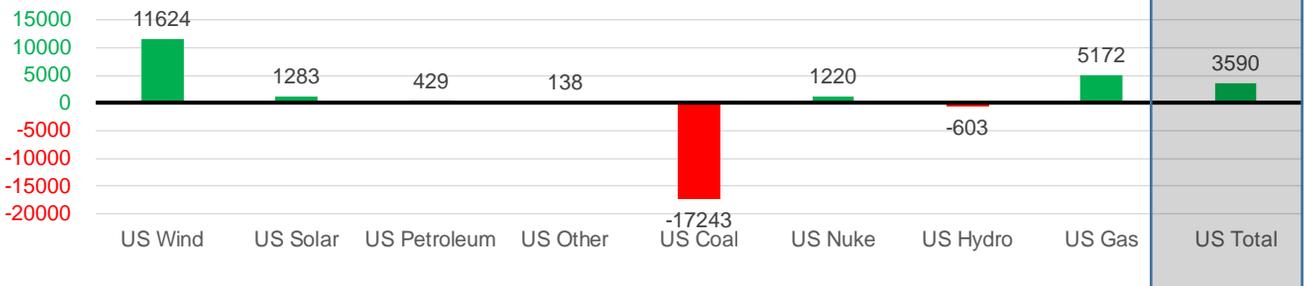
### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago		LY		MTD			Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Sep-21	Oct-21	Nov-21	Dec-21				
	CALI Wind	1062	1083	1964	1765	1252	1138			
TEXAS Wind	9136	10359	9213	11565	11869	12052	11943	183	1584	
US Wind	38428	42284	39362	43142	49974	54228	53909	4254	11624	

### Generation Monthly Average - MWh (EIA)

	2Yr Ago		LY		MTD			Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Sep-21	Oct-21	Nov-21	Dec-21				
	US Wind	38428	42284	39362	43142	49974	54228			
US Solar	4254	6638	13345	11059	9690	7340	7921	▲ 581.1	▲ 1283	
US Petroleum	2775	2827	2517	3239	3045	3251	3256	▲ 5	▲ 429	
US Other	8403	8297	9021	11109	8435	8427	8435	▲ 7	▲ 138	
US Coal	96804	99576	109915	84433	80848	82463	82332	▼ -131	▼ -17243	
US Nuke	98926	93251	90072	77089	87404	94848	94471	▼ -377	▲ 1220	
US Hydro	29034	30543	25622	24078	26593	30858	29940	▼ -918	▼ -603	
<b>US Gas</b>	<b>156268</b>	<b>152563</b>	<b>173566</b>	<b>159046</b>	<b>151462</b>	<b>160492</b>	<b>157735</b>	▼ -1151	▲ 5172	
<b>US Total</b>	<b>435033</b>	<b>434465</b>	<b>463578</b>	<b>413354</b>	<b>417925</b>	<b>441886</b>	<b>438055</b>	▼ -1982	▲ 3590	

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

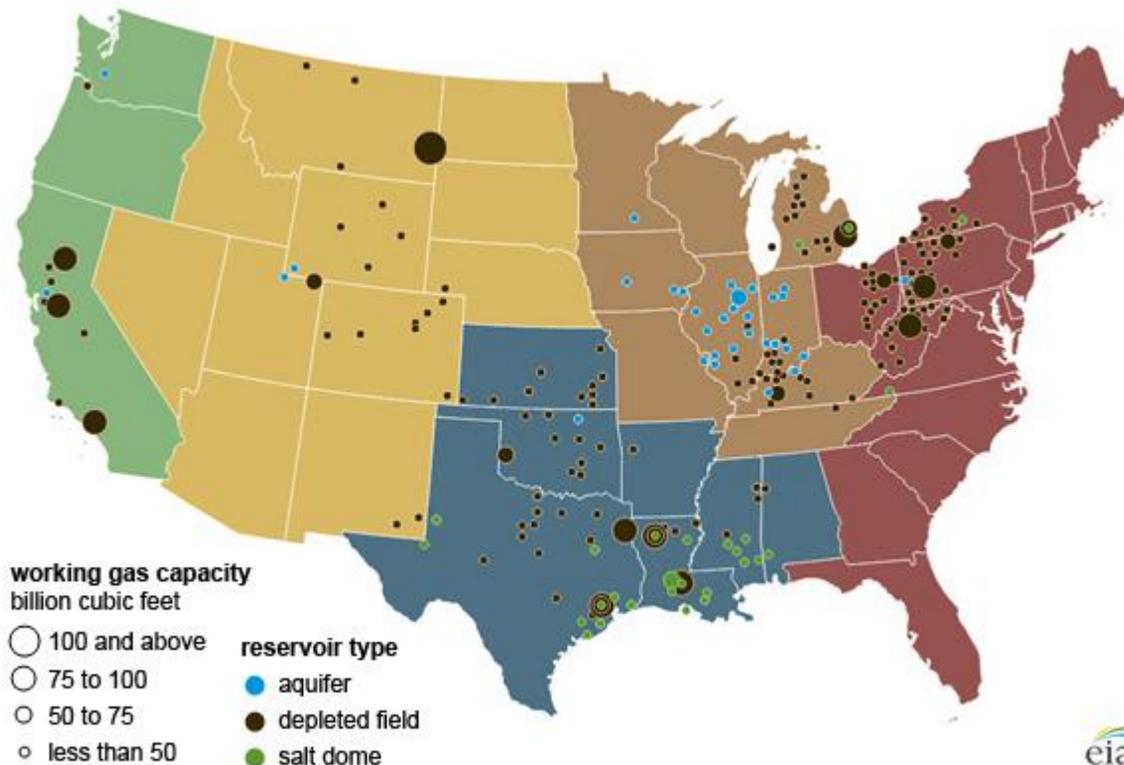
### Regional S/D Models Storage Projection

Week Ending 17-Dec

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-9.3	1.1	-8.2	-58
East	-3.2	2.4	-0.9	-6
Midwest	-3.1	0.1	-3.0	-21
Mountain	1.9	-3.4	-1.5	-10
South Central	-3.9	2.5	-1.4	-10
Pacific	-1.0	-0.5	-1.5	-10

\*Adjustment Factor is calculated based on historical regional deltas

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

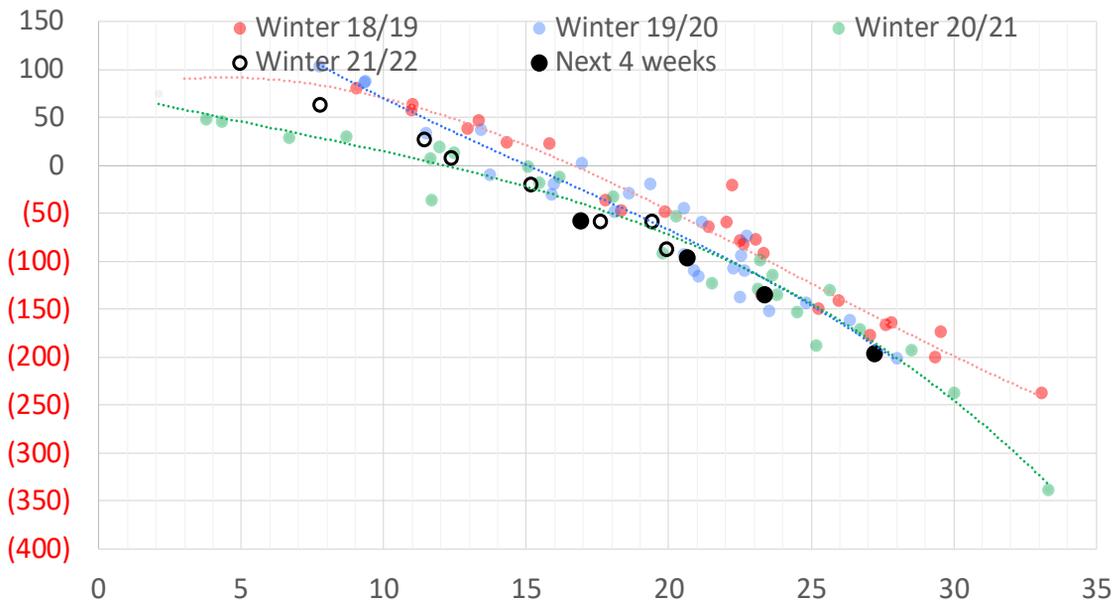


### Weather Model Storage Projection

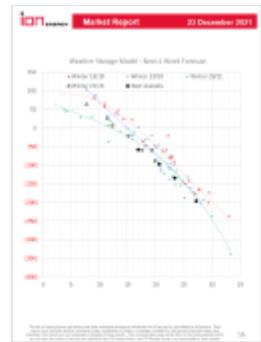
Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
17-Dec	17	-58
24-Dec	23	-134
31-Dec	21	-96
07-Jan	27	-196

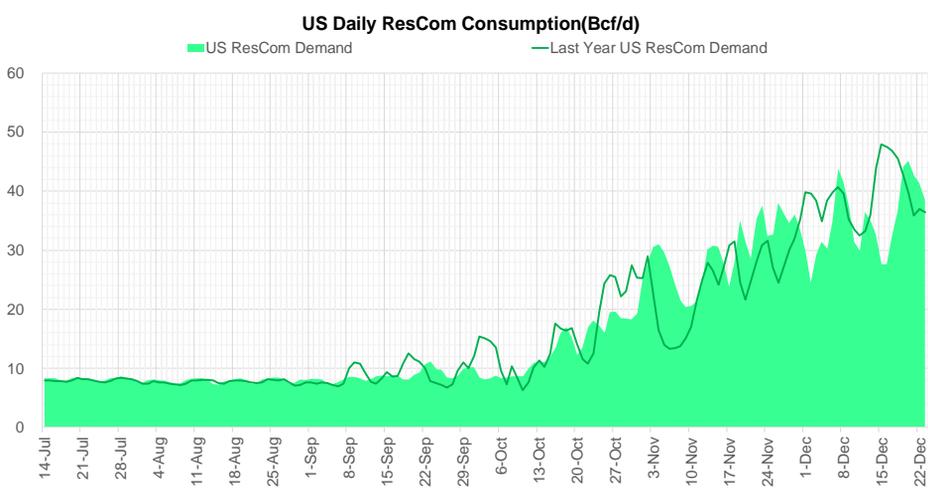
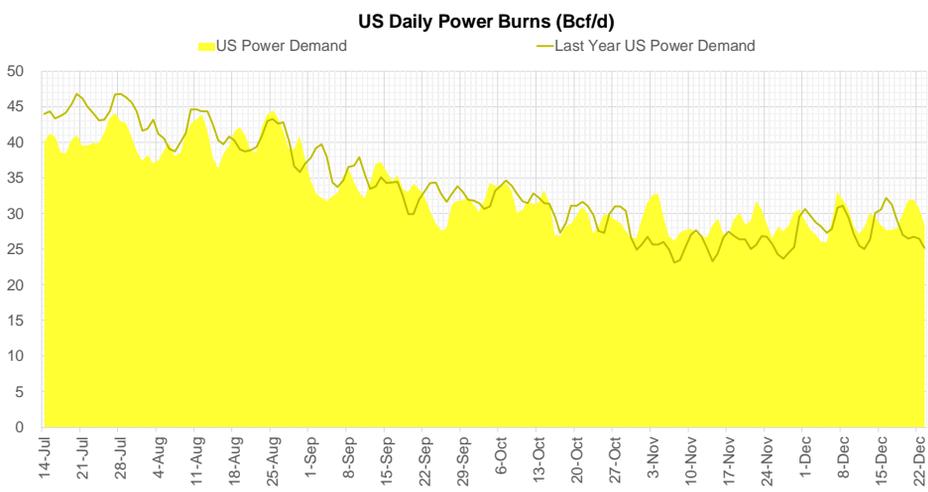
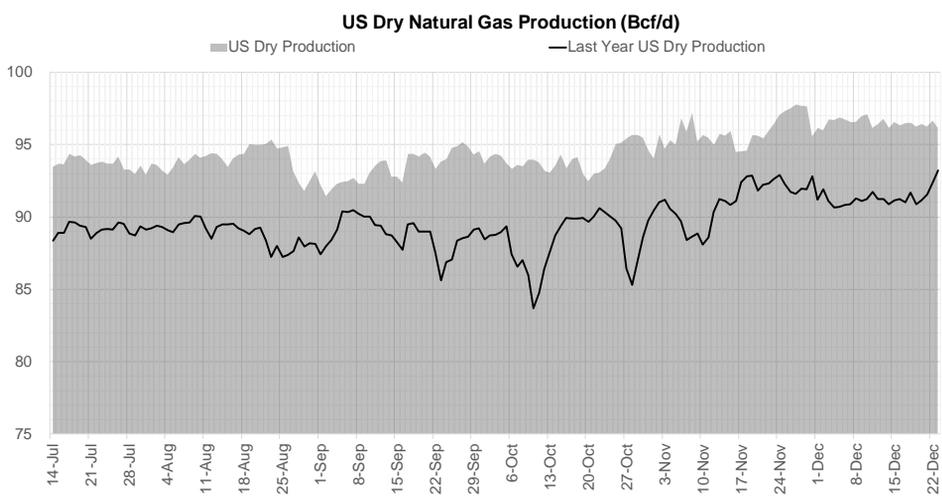
Weather Storage Model - Next 4 Week Forecast



Go to larger image

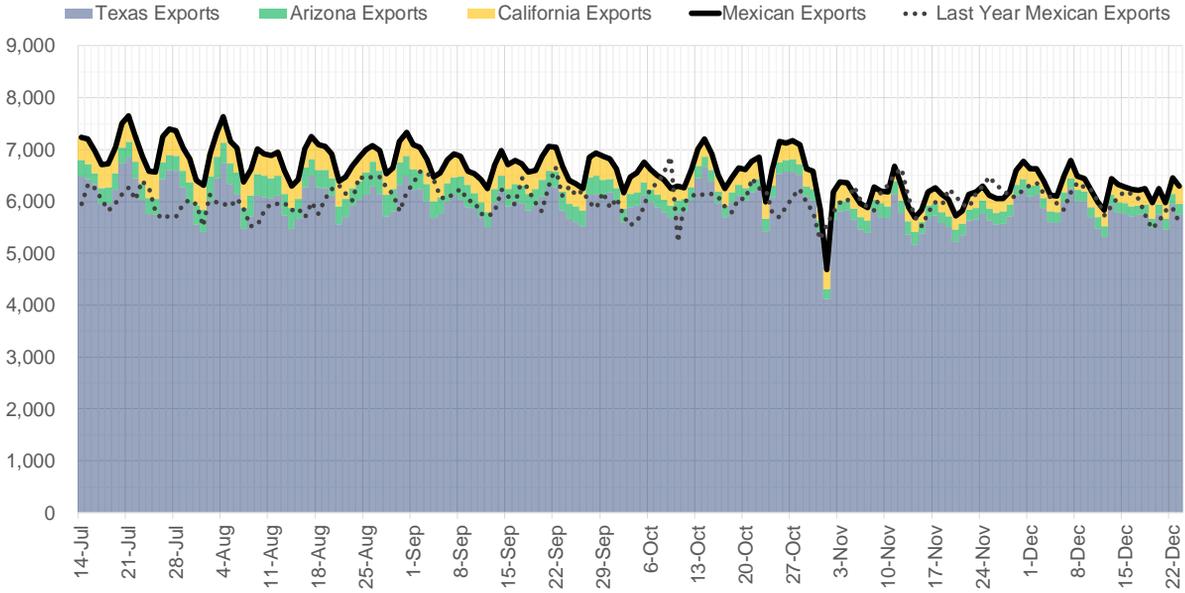


## Supply – Demand Trends

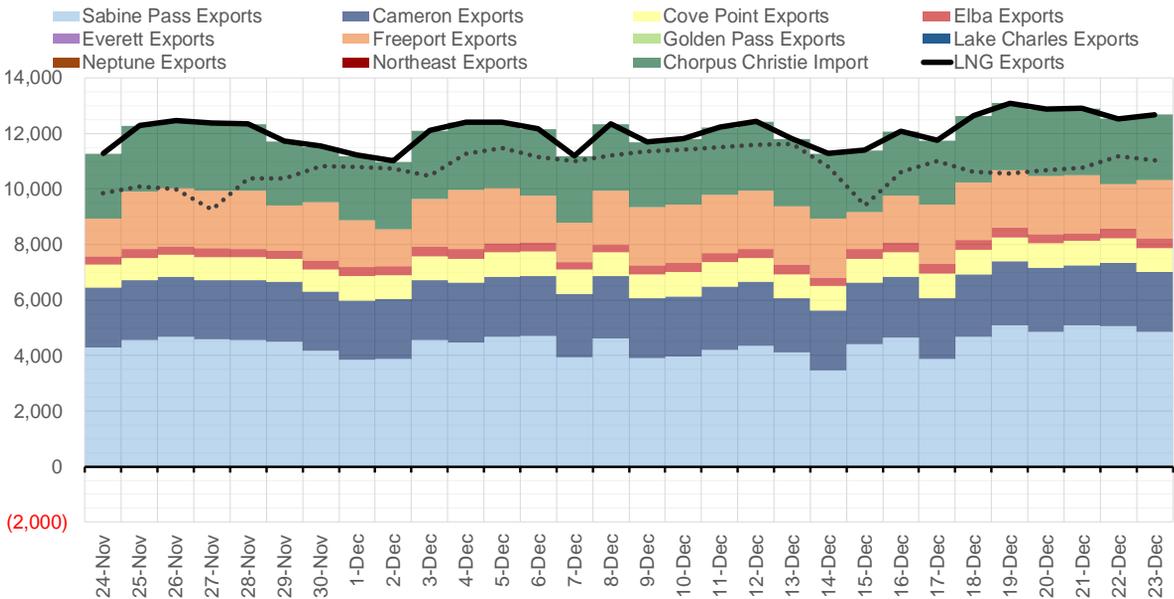


Source: Bloomberg

### Mexican Exports (MMcf/d)



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



Source: Bloomberg

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.

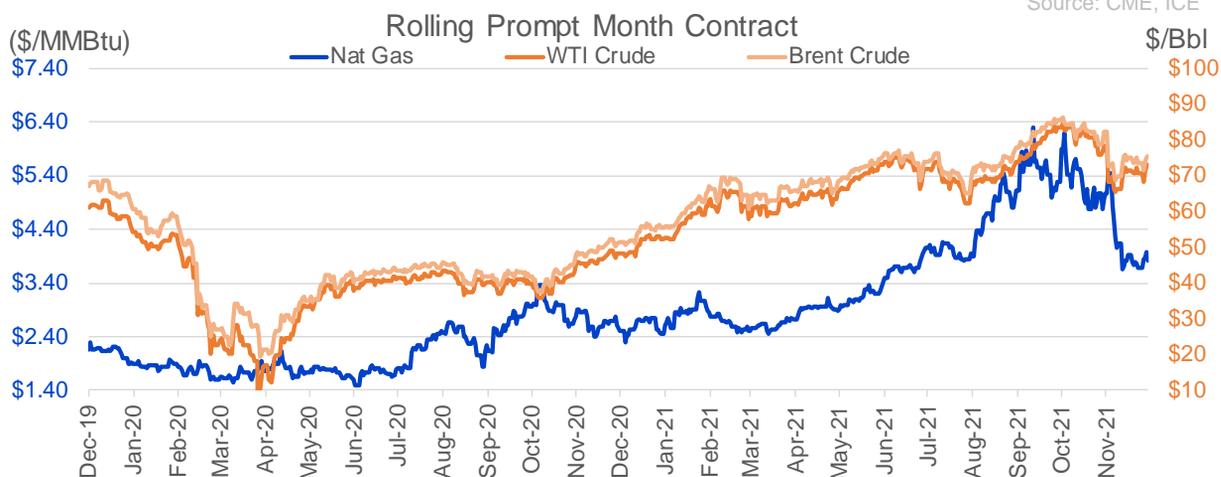
## Nat Gas Options Volume and Open Interest CME and ICE Combined

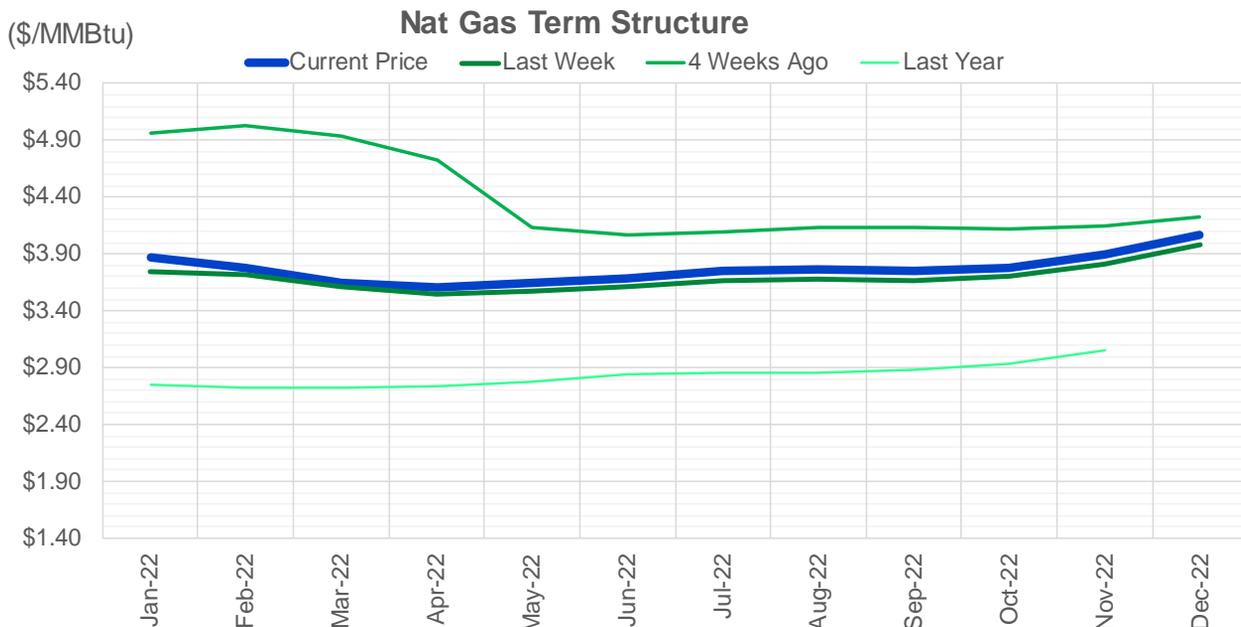
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
1	2022	C	4.50	4613	3	2022	C	10.00	36263
1	2022	C	4.25	4513	1	2022	C	4.00	31128
3	2022	C	5.00	3810	3	2022	C	5.00	28633
1	2022	C	4.40	2526	1	2022	P	3.00	27465
2	2022	C	4.50	2221	1	2022	P	4.00	26907
1	2022	P	3.50	2212	3	2022	C	8.00	25966
1	2022	C	4.00	2039	1	2022	C	5.00	24484
1	2022	P	3.75	2032	2	2022	C	5.00	23788
3	2022	C	4.00	2001	1	2022	P	2.75	23374
1	2022	C	5.00	1987	1	2022	C	4.50	23227
1	2022	C	4.75	1842	1	2022	C	6.00	23208
3	2022	C	6.00	1799	3	2022	C	4.00	21578
12	2022	C	4.00	1500	3	2022	C	6.00	20725
12	2022	C	6.50	1500	12	2022	C	5.00	20297
3	2022	C	4.50	1428	1	2022	P	3.50	20136
2	2022	C	4.00	1274	3	2022	P	2.50	20088
3	2022	P	3.50	1245	4	2022	C	5.00	19833
4	2023	P	2.75	1100	4	2022	C	3.00	19710
3	2023	P	2.75	1000	1	2022	C	10.00	18356
1	2022	P	4.00	939	2	2022	C	4.00	18078
2	2022	P	3.50	937	2	2022	C	6.00	17993
2	2022	C	5.00	892	1	2022	P	3.25	17869
1	2022	C	3.90	834	3	2022	P	4.00	17649
4	2022	C	6.00	818	1	2022	C	7.00	17572
2	2022	C	4.75	807	3	2022	P	3.50	17446
2	2022	C	6.00	801	2	2022	P	3.50	17376
2	2022	C	8.00	611	3	2022	P	3.00	17226
2	2022	C	4.25	607	3	2022	C	7.00	16849
4	2022	P	3.25	600	5	2022	C	5.00	16300
11	2022	C	8.00	600	2	2022	P	4.00	15937
11	2022	P	3.75	600	6	2022	C	5.00	15392
1	2022	C	4.05	596	2	2022	C	4.50	15278
2	2022	C	7.00	563	4	2022	P	2.50	15242
1	2022	P	3.60	503	10	2022	C	5.00	15238
2	2022	C	10.00	501	1	2022	C	4.25	14501
1	2022	P	3.90	501	2	2022	P	3.00	14495
1	2022	P	3.85	488	10	2022	C	6.00	14475
1	2022	C	4.30	458	2	2022	C	5.50	14051
2	2022	C	12.00	457	2	2022	C	10.00	13753
4	2022	C	4.50	455	5	2022	C	3.00	13733
6	2022	P	2.85	450	1	2022	P	3.80	13615
1	2022	P	4.10	445	3	2022	P	5.00	13508
1	2022	P	3.80	425	1	2022	C	8.00	13463
4	2022	C	4.25	400	6	2022	C	3.00	13438
3	2022	P	3.20	389	10	2022	P	2.00	13294
3	2022	C	7.00	365	12	2022	C	4.50	13274
3	2022	C	8.00	353	7	2022	C	3.00	13230
1	2022	C	5.50	339	8	2022	C	3.00	13226
2	2022	C	5.50	312	9	2022	C	3.00	13225
					3	2022	C	3	13178

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
JAN 22	34832	48556	-13724	JAN 22	75983	75811	172
FEB 22	133448	128607	4841	FEB 22	76259	76276	-17
MAR 22	249317	247544	1773	MAR 22	90769	87896	2873
APR 22	83683	83294	389	APR 22	73976	72489	1488
MAY 22	110725	112242	-1517	MAY 22	69127	69047	80
JUN 22	52431	52974	-543	JUN 22	54366	54311	55
JUL 22	42340	42620	-280	JUL 22	58708	58776	-68
AUG 22	31839	32085	-246	AUG 22	55438	55151	287
SEP 22	46234	46295	-61	SEP 22	56084	55901	183
OCT 22	71235	72650	-1415	OCT 22	62712	62747	-36
NOV 22	34534	34887	-353	NOV 22	50521	50423	98
DEC 22	35425	34737	688	DEC 22	59420	59163	257
JAN 23	39072	38947	125	JAN 23	46504	46391	113
FEB 23	12086	12227	-141	FEB 23	36397	36294	103
MAR 23	27412	26804	608	MAR 23	40678	40623	55
APR 23	19616	19715	-99	APR 23	40018	39983	35
MAY 23	12701	12876	-175	MAY 23	35944	35906	38
JUN 23	10155	10118	37	JUN 23	32783	32314	469
JUL 23	7507	7442	65	JUL 23	31912	31821	91
AUG 23	4795	4736	59	AUG 23	32886	32808	78
SEP 23	7296	7283	13	SEP 23	31342	31242	100
OCT 23	11942	11851	91	OCT 23	35794	35802	-8
NOV 23	6186	6068	118	NOV 23	35271	35288	-16
DEC 23	8865	8863	2	DEC 23	33182	32607	576
JAN 24	6974	6967	7	JAN 24	23733	23769	-36
FEB 24	1646	1644	2	FEB 24	16531	16538	-6
MAR 24	9207	9197	10	MAR 24	22408	22416	-8
APR 24	4434	4434	0	APR 24	15776	15779	-2
MAY 24	2059	2059	0	MAY 24	16245	16207	38
JUN 24	929	929	0	JUN 24	16451	16466	-15





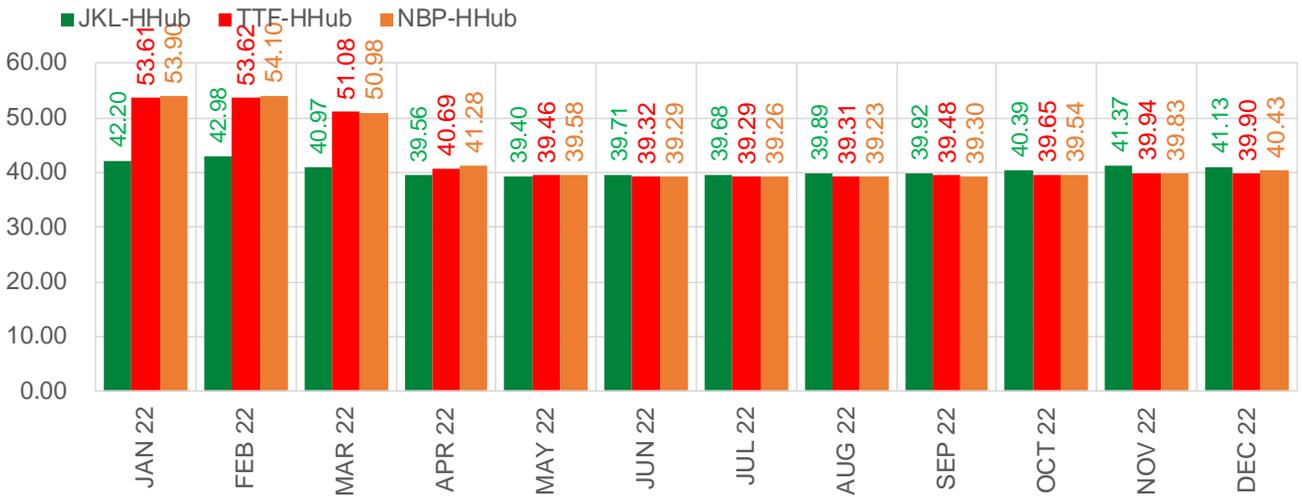
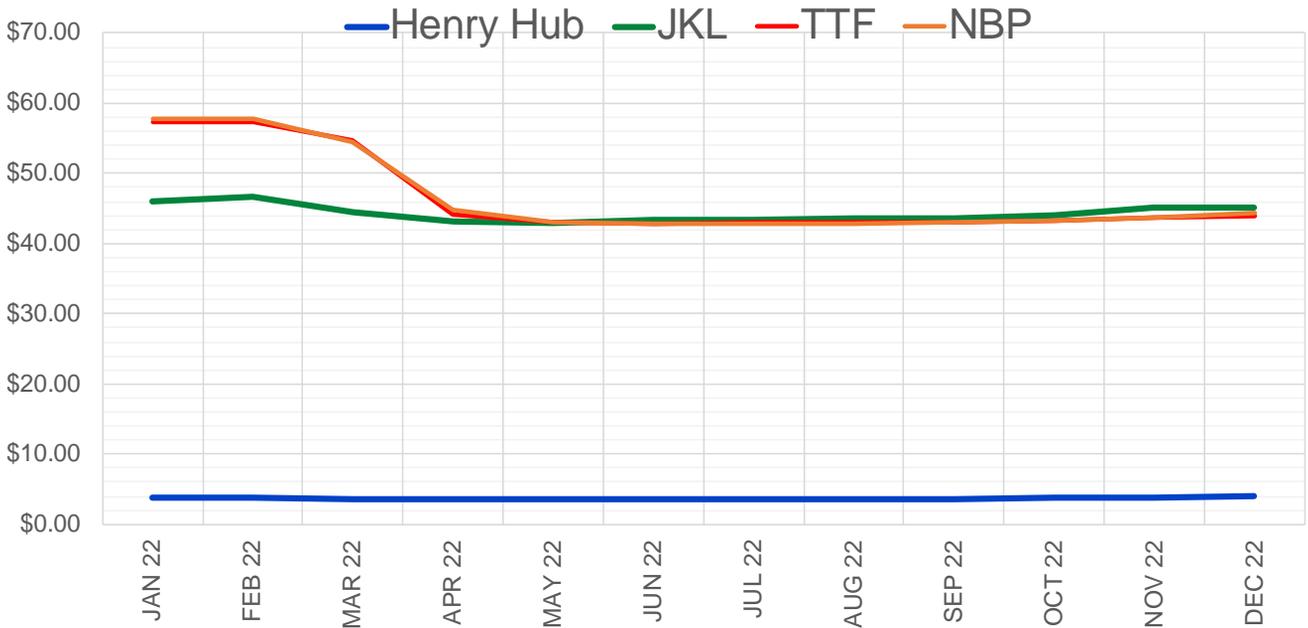
	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
<b>Current Price</b>	<b>\$3.869</b>	<b>\$3.774</b>	<b>\$3.644</b>	<b>\$3.608</b>	<b>\$3.640</b>	<b>\$3.690</b>	<b>\$3.746</b>	<b>\$3.765</b>	<b>\$3.754</b>	<b>\$3.783</b>	<b>\$3.890</b>	<b>\$4.070</b>
Last Week	\$3.747	\$3.713	\$3.619	\$3.552	\$3.567	\$3.613	\$3.665	\$3.683	\$3.672	\$3.704	\$3.805	\$3.978
vs. Last Week	\$0.122	\$0.061	\$0.025	\$0.056	\$0.073	\$0.077	\$0.081	\$0.082	\$0.082	\$0.079	\$0.085	\$0.092
4 Weeks Ago	\$4.967	\$5.035	\$4.941	\$4.723	\$4.130	\$4.065	\$4.094	\$4.135	\$4.137	\$4.117	\$4.146	\$4.228
vs. 4 Weeks Ago	-\$1.098	-\$1.261	-\$1.297	-\$1.115	-\$0.490	-\$0.375	-\$0.348	-\$0.370	-\$0.383	-\$0.334	-\$0.256	-\$0.158
Last Year	\$2.780	\$2.749	\$2.726	\$2.725	\$2.732	\$2.781	\$2.841	\$2.860	\$2.849	\$2.875	\$2.929	\$3.047
vs. Last Year	\$1.089	\$1.025	\$0.918	\$0.883	\$0.908	\$0.909	\$0.905	\$0.905	\$0.905	\$0.908	\$0.961	\$1.023

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	62.50	21.00	-41.50
TETCO M3	\$/MMBtu	3.57	3.87	0.30
FGT Zone 3	\$/MMBtu	4.95	3.93	-1.02
Zone 6 NY	\$/MMBtu	4.95	8.45	3.49
Chicago Citygate	\$/MMBtu	3.77	4.22	0.45
Michcon	\$/MMBtu	3.77	3.62	-0.15
Columbia TCO Pool	\$/MMBtu	3.15	3.39	0.24
Ventura	\$/MMBtu	3.51	4.83	1.32
Rockies/Opal	\$/MMBtu	7.85	4.18	-3.67
El Paso Permian Basin	\$/MMBtu	3.48	3.93	0.45
Socal Citygate	\$/MMBtu	7.57	5.83	-1.74
Malin	\$/MMBtu	8.03	5.09	-2.94
Houston Ship Channel	\$/MMBtu	3.82	4.07	0.25
Henry Hub Cash	\$/MMBtu	4.01	3.73	-0.28
AECO Cash	C\$/GJ	3.56	3.10	-0.47
Station2 Cash	C\$/GJ	3.63	5.66	2.03
Dawn Cash	C\$/GJ	3.96	3.76	-0.21

Source: CME, Bloomberg

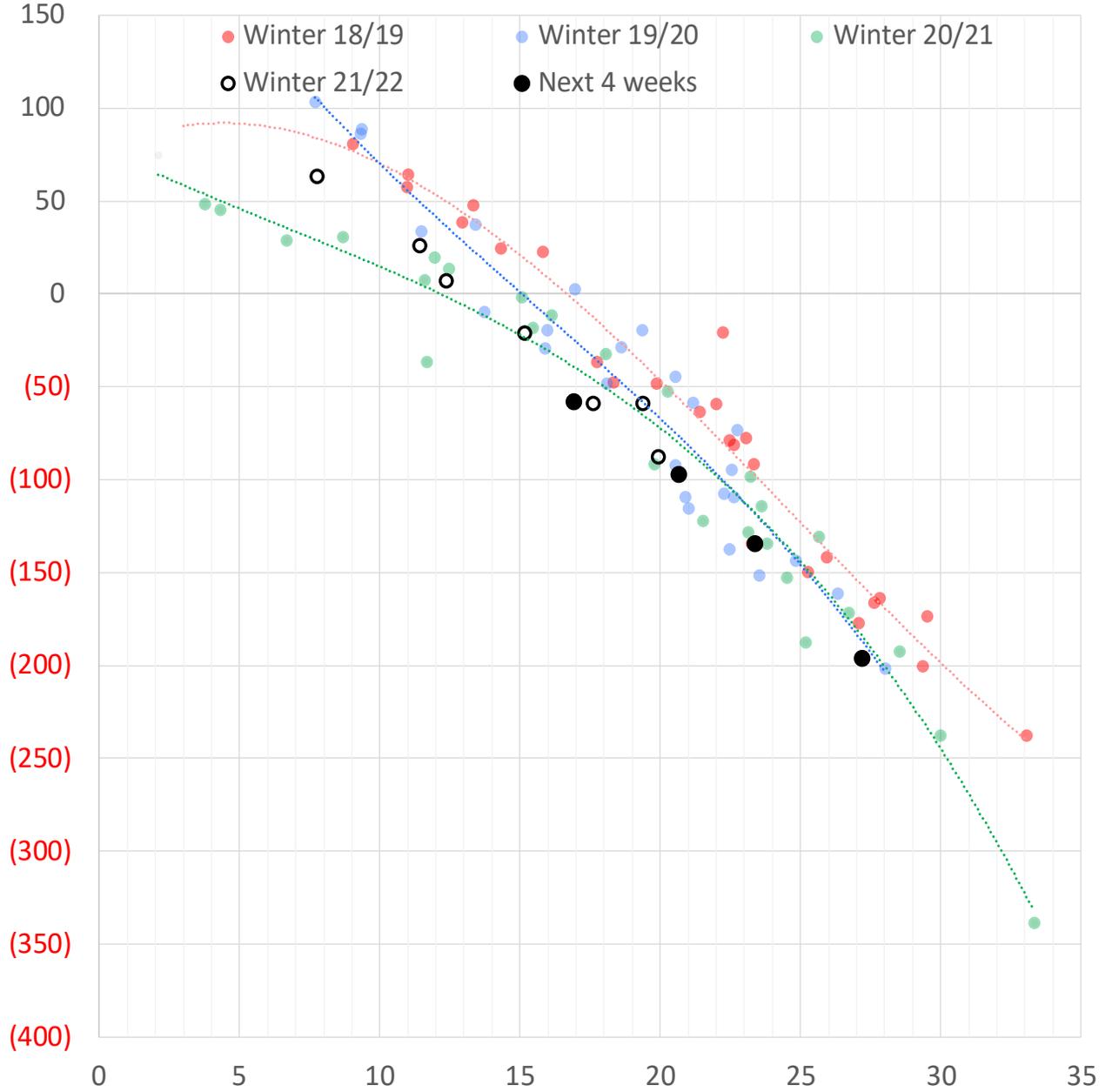
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.178
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.298
NatGas Oct21/Jan22	\$/MMBtu	-1.865	▲ 0.174	▼ -1.138	▼ -2.151
NatGas Apr22/Oct22	\$/MMBtu	0.148	▲ 0.005	▲ 0.119	▲ 0.112
WTI Crude	\$/Bbl	72.76	▲ 1.890	▼ -5.630	▲ 24.640
Brent Crude	\$/Bbl	75.29	▲ 1.410	▼ -6.960	▲ 24.090
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	230.78	▲ 8.740	▼ -7.520	▲ 81.030
Propane, Mt. Bel	cents/Gallon	1.03	▼ -0.008	▼ -0.247	▲ 0.387
Ethane, Mt. Bel	cents/Gallon	0.34	▲ 0.005	▼ -0.066	▲ 0.137
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)

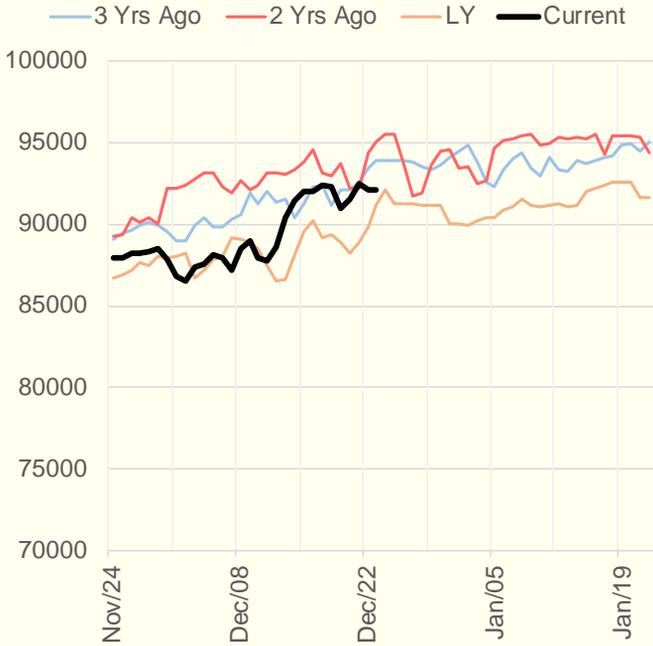


	JAN 22	FEB 22	MAR 22	APR 22	MAY 22	JUN 22	JUL 22	AUG 22	SEP 22	OCT 22	NOV 22	DEC 22
<b>Henry Hub</b>	\$3.811	\$3.714	\$3.601	\$3.540	\$3.560	\$3.599	\$3.659	\$3.673	\$3.658	\$3.692	\$3.794	\$3.968
<b>JKL</b>	\$46.015	\$46.695	\$44.575	\$43.100	\$42.955	\$43.310	\$43.335	\$43.560	\$43.580	\$44.080	\$45.160	\$45.100
<b>JKL-HHub</b>	\$42.204	\$42.981	\$40.974	\$39.560	\$39.395	\$39.711	\$39.676	\$39.887	\$39.922	\$40.388	\$41.366	\$41.132
<b>TTF</b>	\$57.419	\$57.329	\$54.676	\$44.233	\$43.018	\$42.922	\$42.952	\$42.981	\$43.139	\$43.344	\$43.730	\$43.863
<b>TTF-HHub</b>	\$53.608	\$53.615	\$51.075	\$40.693	\$39.458	\$39.323	\$39.293	\$39.308	\$39.481	\$39.652	\$39.936	\$39.895
<b>NBP</b>	\$57.712	\$57.815	\$54.576	\$44.819	\$43.139	\$42.892	\$42.923	\$42.901	\$42.960	\$43.230	\$43.620	\$44.393
<b>NBP-HHub</b>	\$53.901	\$54.101	\$50.975	\$41.279	\$39.579	\$39.293	\$39.264	\$39.228	\$39.302	\$39.538	\$39.826	\$40.425

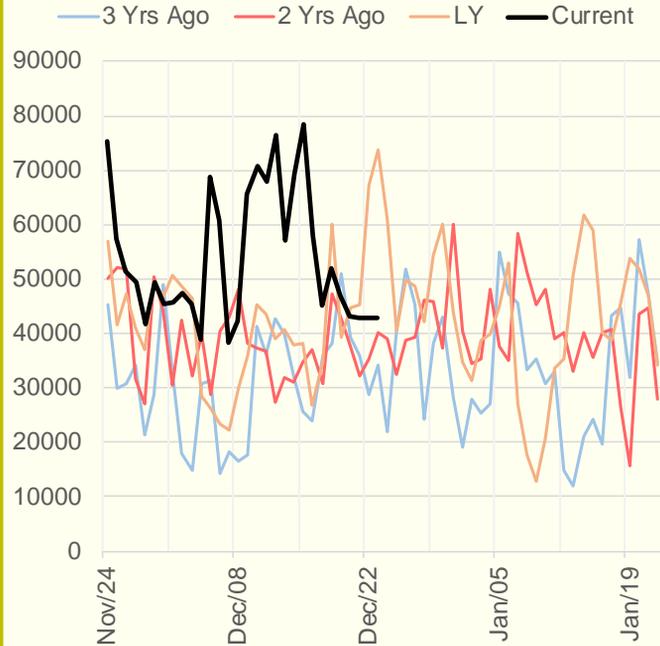
### Weather Storage Model - Next 4 Week Forecast



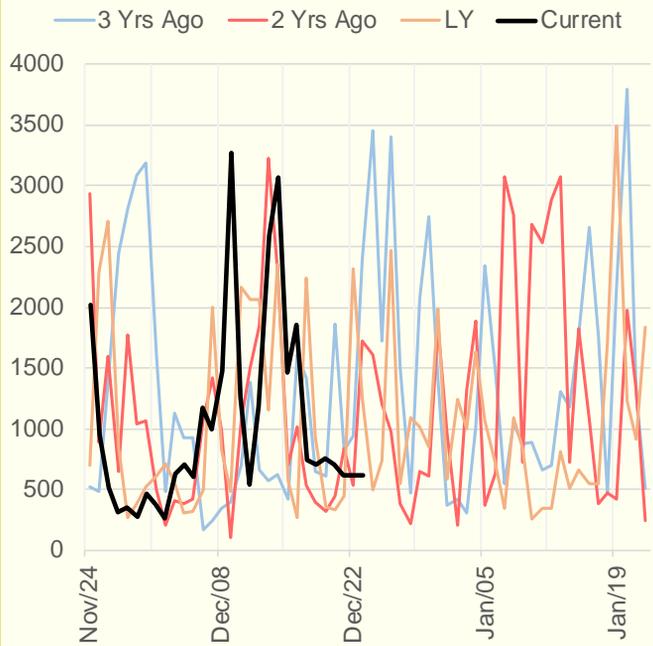
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

