

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 3.93 ▲	\$ 0.11 ▲	\$ 0.12

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 76.35 ▲	\$ 0.27 ▲	\$ 0.5

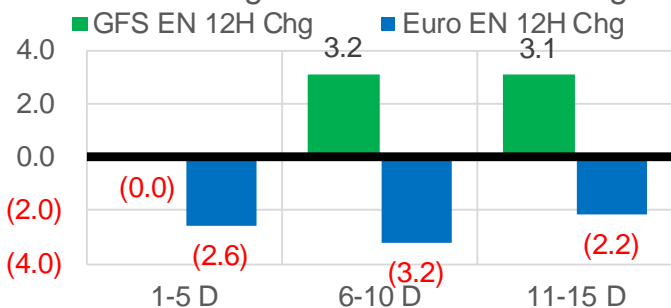
	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 79.30 ▲	\$ 0.32 ▲	\$ 0.8

### Page Menu

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- [Lower 48 Component Models](#)
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- [Weather Model Storage Projection](#)
- [Supply – Demand Trends](#)
- [Nat Gas Options Volume and Open Interest](#)
- [Nat Gas Futures Open Interest](#)
- [Price Summary](#)

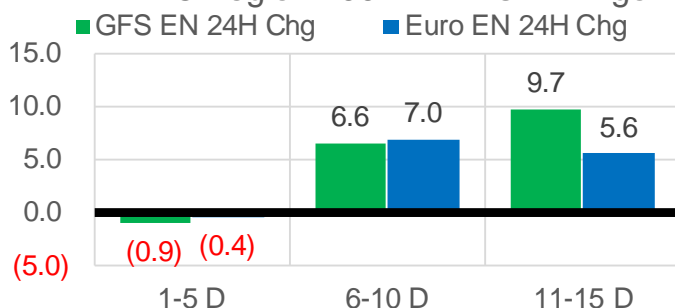
### Vs. 12H Ago

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	91.4 ▼	-1.64 ▼	-4.23

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	29.9 ▼	-1.96 ▼	1.38 ▲

	Current	Δ from YD	Δ from 7D Avg
US ResComm	46.3 ▼	-5.89 ▼	7.69 ▲

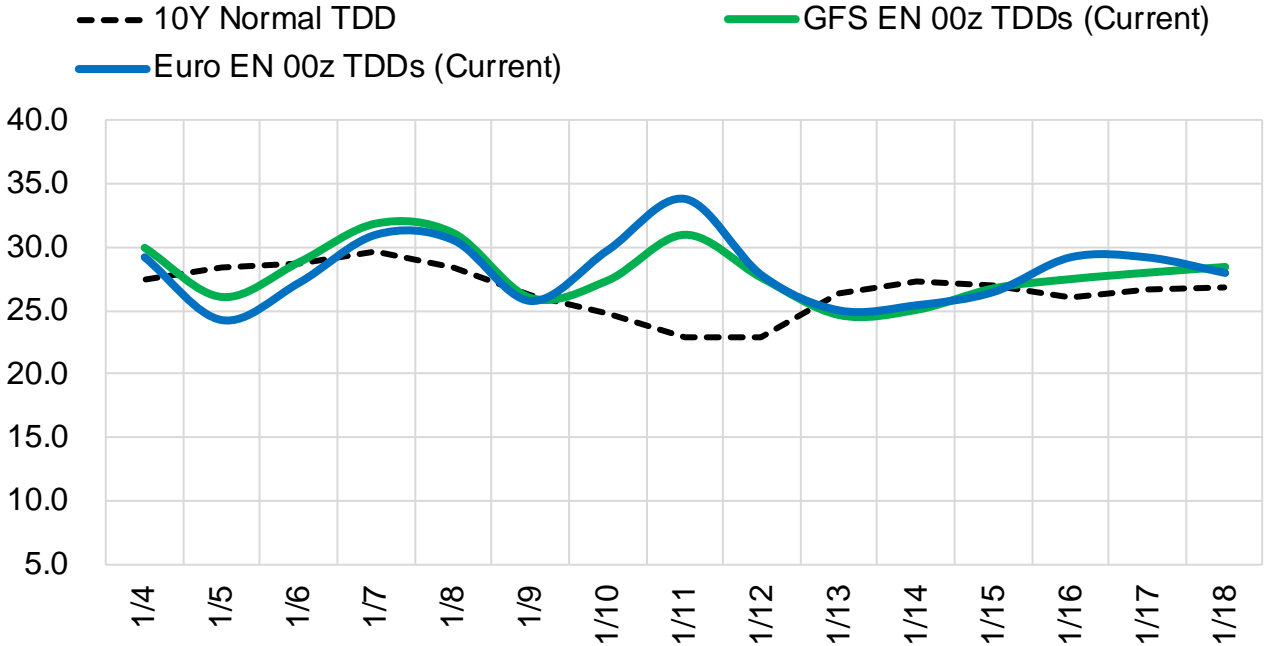
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	5.7 ▼	-0.78 ▼	0.86 ▲

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.3 ▲	0.45 ▲	0.38

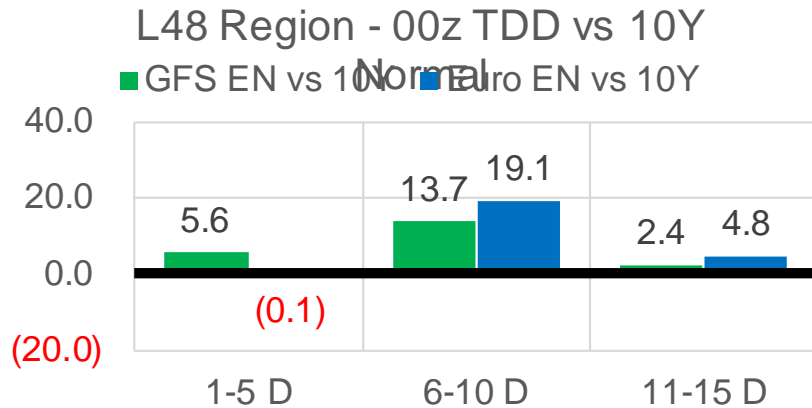
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.1 ▲	0.07 ▲	0.30

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

#### L48 Region



### Vs. 10Y Normal



Source: WSI , Bloomberg

## Lower 48 Component Models

### Daily Balances

	29-Dec	30-Dec	31-Dec	1-Jan	2-Jan	3-Jan	4-Jan	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>98.0</b>	<b>97.9</b>	<b>97.9</b>	<b>93.2</b>	<b>90.1</b>	<b>93.1</b>	<b>91.4</b>	▼ -1.6	▼ -3.6
<b>Canadian Imports</b>	<b>4.0</b>	<b>4.0</b>	<b>4.2</b>	<b>5.4</b>	<b>6.0</b>	<b>6.5</b>	<b>5.7</b>	▼ -0.8	▲ 0.7
L48 Power	29.4	28.0	25.7	26.2	30.2	31.8	29.9	▼ -2.0	▲ 1.3
L48 Residential & Commercial	36.1	34.1	31.0	35.3	45.8	52.2	46.3	▼ -5.9	▲ 7.2
L48 Industrial	23.7	23.3	22.6	23.0	24.1	24.5	23.9	▼ -0.7	▲ 0.3
L48 Lease and Plant Fuel	5.3	5.3	5.3	5.1	4.9	5.1	5.0	▼ -0.1	▼ -0.2
L48 Pipeline Distribution	3.3	3.1	2.8	3.0	3.7	4.1	3.7	▼ -0.4	▲ 0.4
<b>L48 Regional Gas Consumption</b>	<b>97.8</b>	<b>93.7</b>	<b>87.4</b>	<b>92.6</b>	<b>108.8</b>	<b>117.7</b>	<b>108.7</b>	▼ -9.0	▲ 9.0
<b>Net LNG Delivered</b>	<b>12.02</b>	<b>11.88</b>	<b>11.89</b>	<b>11.91</b>	<b>11.64</b>	<b>11.80</b>	<b>12.25</b>	▲ 0.5	▲ 0.4
<b>Total Mexican Exports</b>	<b>6.1</b>	<b>6.1</b>	<b>5.8</b>	<b>5.1</b>	<b>5.2</b>	<b>6.0</b>	<b>6.1</b>	▲ 0.1	▲ 0.4
<b>Implied Daily Storage Activity</b>	<b>-14.0</b>	<b>-9.7</b>	<b>-3.0</b>	<b>-11.0</b>	<b>-29.4</b>	<b>-36.0</b>	<b>-29.9</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	26-Nov	3-Dec	10-Dec	17-Dec	24-Dec	31-Dec	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>96.2</b>	<b>96.8</b>	<b>96.6</b>	<b>96.5</b>	<b>96.8</b>	<b>98.6</b>	▲ 1.9	▲ 2.0
<b>Canadian Imports</b>	<b>5.5</b>	<b>5.6</b>	<b>5.3</b>	<b>4.6</b>	<b>5.0</b>	<b>4.2</b>	▼ -0.8	▼ -0.9
L48 Power	29.2	28.7	29.1	28.4	30.0	26.4	▼ -3.5	▼ -2.6
L48 Residential & Commercial	33.2	33.1	35.4	31.4	40.3	33.4	▼ -6.9	▼ -1.6
L48 Industrial	22.5	22.5	23.7	23.7	24.1	23.6	▼ -0.5	▲ 0.1
L48 Lease and Plant Fuel	5.2	5.3	5.2	5.2	5.2	5.4	▲ 0.1	▲ 0.1
L48 Pipeline Distribution	3.3	3.2	3.2	3.0	3.5	3.0	▼ -0.5	▼ -0.3
<b>L48 Regional Gas Consumption</b>	<b>93.4</b>	<b>92.9</b>	<b>96.7</b>	<b>91.7</b>	<b>103.1</b>	<b>91.8</b>	▼ -11.3	▼ -4.3
<b>Net LNG Exports</b>	<b>11.7</b>	<b>11.8</b>	<b>12.0</b>	<b>11.9</b>	<b>12.7</b>	<b>12.3</b>	▼ -0.4	▲ 0.2
<b>Total Mexican Exports</b>	<b>6.0</b>	<b>6.4</b>	<b>6.4</b>	<b>6.2</b>	<b>6.1</b>	<b>5.8</b>	▼ -0.3	▼ -0.5
<b>Implied Daily Storage Activity</b>	<b>-9.5</b>	<b>-8.7</b>	<b>-13.2</b>	<b>-8.8</b>	<b>-20.0</b>	<b>-7.0</b>	13.0	
<b>EIA Reported Daily Storage Activity</b>	<b>-8.4</b>	<b>-8.4</b>	<b>-12.6</b>	<b>-7.9</b>	<b>-19.4</b>			
<b>Daily Model Error</b>	<b>-1.1</b>	<b>-0.3</b>	<b>-0.6</b>	<b>-0.9</b>	<b>-0.6</b>			

### Monthly Balances

	2Yr Ago Jan-20	LY Jan-21	Sep-21	Oct-21	Nov-21	Dec-21	MTD Jan-22	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>94.6</b>	<b>91.4</b>	<b>93.4</b>	<b>94.3</b>	<b>95.9</b>	<b>97.1</b>	<b>92.1</b>	▼ -4.9	▲ 0.7
<b>Canadian Imports</b>	<b>4.8</b>	<b>6.3</b>	<b>5.1</b>	<b>5.4</b>	<b>5.3</b>	<b>4.8</b>	<b>6.0</b>	▲ 1.2	▼ -0.3
L48 Power	29.9	28.3	33.1	30.5	28.8	28.4	29.4	▲ 1.1	▲ 1.1
L48 Residential & Commercial	41.7	44.0	8.8	12.5	29.4	34.5	44.4	▲ 10.0	▲ 0.5
L48 Industrial	24.5	23.8	20.2	21.0	22.4	23.6	23.9	▲ 0.2	▲ 0.1
L48 Lease and Plant Fuel	5.1	5.0	5.1	5.2	5.2	5.3	5.0	▼ -0.2	▲ 0.0
L48 Pipeline Distribution	3.6	3.5	2.3	2.4	3.1	3.1	3.6	▲ 0.4	▲ 0.1
<b>L48 Regional Gas Consumption</b>	<b>104.8</b>	<b>104.6</b>	<b>69.4</b>	<b>71.5</b>	<b>88.9</b>	<b>94.9</b>	<b>106.4</b>	▲ 11.5	▲ 1.8
<b>Net LNG Exports</b>	<b>8.4</b>	<b>10.5</b>	<b>10.3</b>	<b>10.6</b>	<b>11.4</b>	<b>12.1</b>	<b>11.8</b>	▼ -0.3	▲ 1.3
<b>Total Mexican Exports</b>	<b>5.1</b>	<b>6.2</b>	<b>6.7</b>	<b>6.6</b>	<b>6.1</b>	<b>6.2</b>	<b>5.4</b>	▼ -0.7	▼ -0.7
<b>Implied Daily Storage Activity</b>	<b>-18.9</b>	<b>-23.5</b>	<b>12.1</b>	<b>11.0</b>	<b>-5.2</b>	<b>-11.3</b>	<b>-25.5</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)

	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan	2-Jan	DoD	vs. 7D
NRC Nuclear Daily Output	92.1	92.3	92.3	91.5	91.4	91.4	91.0	-0.4	-0.8
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	12.8	12.6	12.6	13.4	13.5	13.5	13.9	0.4	0.8
NRC % Nuclear Cap Utilization	93.7	93.8	93.8	93.0	93.0	92.9	92.5	-0.4	-0.9

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

	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan	2-Jan	DoD	vs. 7D
CALI Wind	3190	3079	1709	1250	2958	1402	651	-750	-1613
TEXAS Wind	11464	14063	10065	9205	13872	17498	12326	-5172	-368
US Wind	56340	57801	32412	36927	54363	62058	42057	-20002	-7927

### Generation Daily Average - MWh (EIA)

	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan	2-Jan	DoD	vs. 7D
US Wind	56340	57801	32412	36927	54363	62058	42057	-20002	-7927
US Solar	5924	6515	6863	5283	5516	7722	8389	667	2085
US Petroleum	2870	3480	4058	3544	2260	2303	3007	704	-79
US Other	7532	7263	7292	7474	7417	7452	7392	-60	-13
US Coal	78895	81112	90961	89599	81444	80196	92815	12619	9114
US Nuke	97391	97279	96903	96483	96414	96050	96052	2	-701
US Hydro	32420	32999	34021	34632	33572	33602	33238	-364	-303
<b>US Gas</b>	<b>142374</b>	<b>145025</b>	<b>160857</b>	<b>150604</b>	<b>130338</b>	<b>117509</b>	<b>149044</b>	<b>31535</b>	<b>7926</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	26-Nov	3-Dec	10-Dec	17-Dec	24-Dec	31-Dec	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	86.1	87.8	88.0	90.0	92.1	92.1	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	18.8	17.1	16.9	14.9	12.8	12.8	0.0	
NRC % Nuclear Cap Utilization	0.1	0.1	0.1	0.1	0.1	0.1	0.0	

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

	26-Nov	3-Dec	10-Dec	17-Dec	24-Dec	31-Dec	WoW	WoW Bcf/d Impact
CALI Wind	1496	363	1263	1709	943	2591	1648	-0.3
TEXAS Wind	14691	8733	12216	16176	11007	13891	2884	-0.5
US Wind	56260	47210	51470	68300	48623	52980	4357	-0.8
					-19676.7			
					-29%			

### Generation Weekly Average - MWh (EIA)

	26-Nov	3-Dec	10-Dec	17-Dec	24-Dec	31-Dec	WoW	WoW Bcf/d Impact
US Wind	56260	47210	51470	68300	48623	52980	4357	<b>-0.8</b>
US Solar	9086	9918	7406	7559	7089	6831	-258	<b>0.0</b>
US Petroleum	3342	3166	3441	2701	3581	3084	-497	<b>0.1</b>
US Other	8442	8483	8401	8302	8531	7430	-1102	0.2
US Coal	82301	82287	82743	77026	87476	79866	-7609	1.4
US Nuke	91252	92816	92983	95055	97425	97083	-343	<b>0.1</b>
US Hydro	27837	26777	29626	30257	32560	31259	-1302	0.2
<b>US Gas</b>	<b>148208</b>	<b>155286</b>	<b>159457</b>	<b>148905</b>	<b>166309</b>	<b>134666</b>	<b>-31643</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	Oct-21	Nov-21	Dec-21	Jan-22			
NRC Nuclear Daily Output	93.3	89.6	75.5	82.7	90.3	91.3	90.9	1.0	1.3
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	11.5	15.3	29.4	22.2	14.6	13.5	13.9	-1.0	-1.3
NRC % Nuclear Cap Utilization	94.9	91.1	76.8	84.1	91.8	92.9	92.5	1.1	1.3

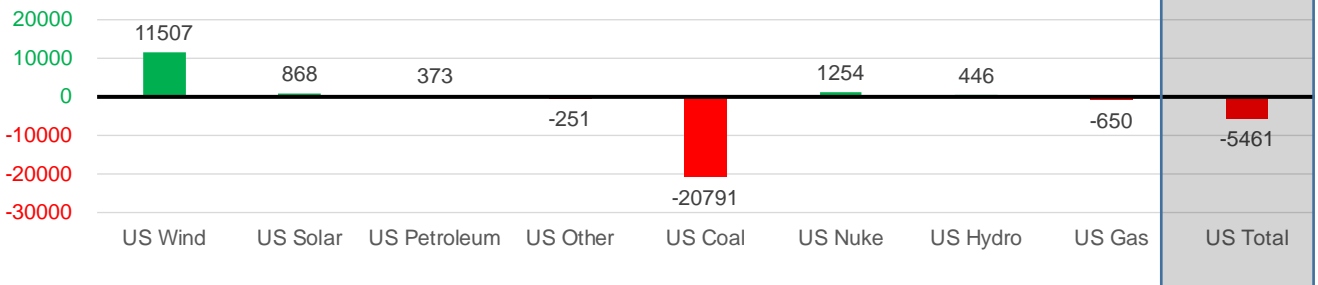
### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago		LY		MTD		Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Oct-21	Nov-21	Dec-21	Jan-22			
CALI Wind	1062	1197	1765	1252	1585	839	1664	-746	467
TEXAS Wind	9399	11177	11565	11869	12927	13619	13440	692	2263
US Wind	38967	43124	43142	49974	54742	47057	54631	-7685	11507

### 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	Oct-21	Nov-21	Dec-21	Jan-22			
US Wind	38967	43124	43142	49974	54742	47057	54631	▲ 7573.6	▲ 11507
US Solar	4393	6274	11059	9690	7333	8222	7143	▼ -1079.6	▲ 868
US Petroleum	3428	2795	3239	3045	3135	2831	3168	▲ 337	▲ 373
US Other	7703	8292	11109	8435	8171	7407	8041	▲ 634	▼ -251
US Coal	89183	104177	84433	80848	81690	89660	83386	▼ -6274	▼ -20791
US Nuke	97923	94769	77089	87404	95409	96052	96023	▼ -29	▲ 1254
US Hydro	28987	31163	24078	26593	30799	33329	31609	▼ -1720	▲ 446
<b>US Gas</b>	<b>153280</b>	<b>151786</b>	<b>159049</b>	<b>151462</b>	<b>152132</b>	<b>141160</b>	<b>151136</b>	<b>▼ -557</b>	<b>▼ -650</b>
<b>US Total</b>	<b>426640</b>	<b>440942</b>	<b>413354</b>	<b>417925</b>	<b>433715</b>	<b>425899</b>	<b>435481</b>	<b>▼ -8688</b>	<b>▼ -5461</b>

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

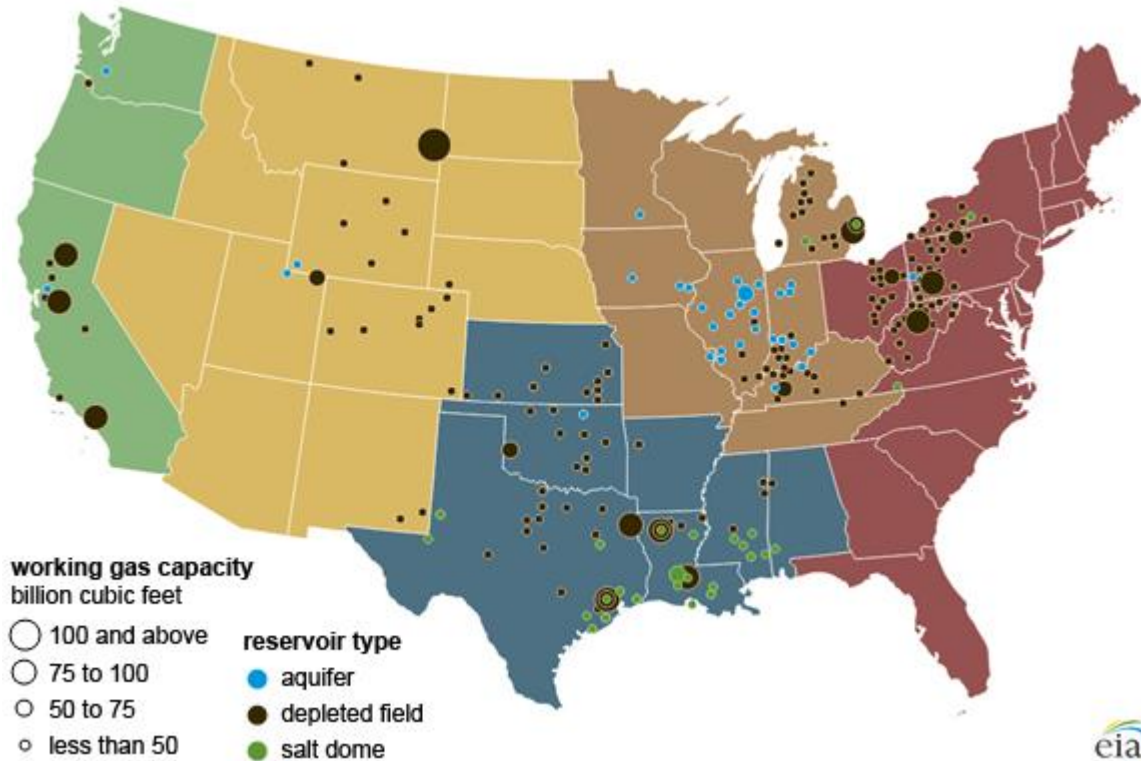
### Regional S/D Models Storage Projection

Week Ending 31-Dec

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-7.3	0.9	-6.4	-45
East	-4.5	2.5	-2.0	-14
Midwest	-5.2	0.3	-4.8	-34
Mountain	1.9	-3.4	-1.4	-10
South Central	2.1	2.3	4.4	31
Pacific	-1.6	-0.9	-2.5	-17

\*Adjustment Factor is calculated based on historical regional deltas

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

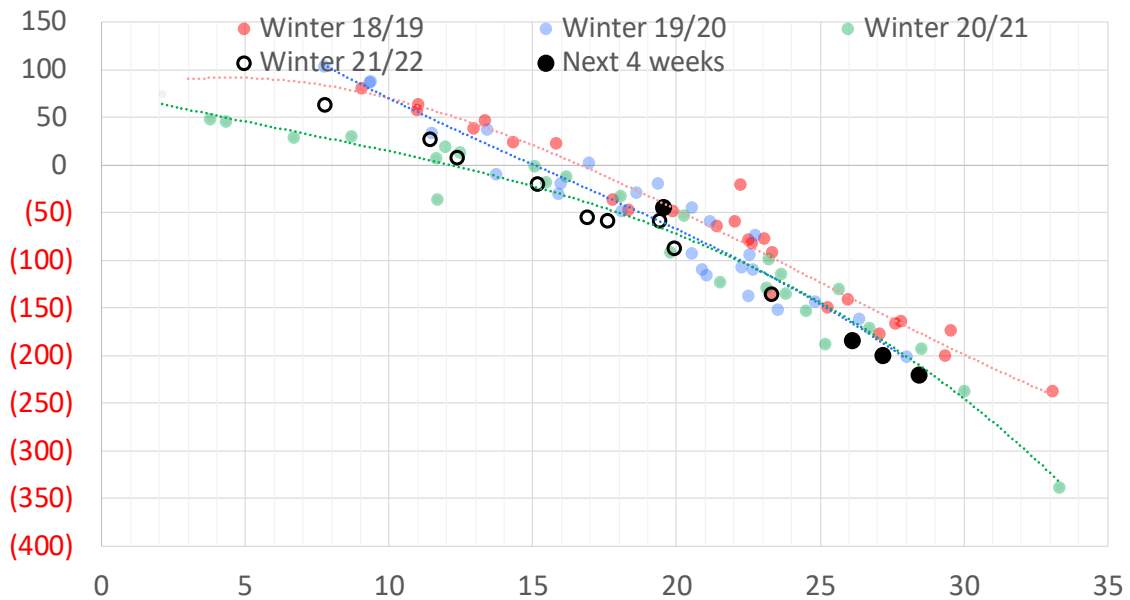


### Weather Model Storage Projection

Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
31-Dec	20	-45
07-Jan	26	-184
14-Jan	28	-220
21-Jan	27	-199

Weather Storage Model - Next 4 Week Forecast

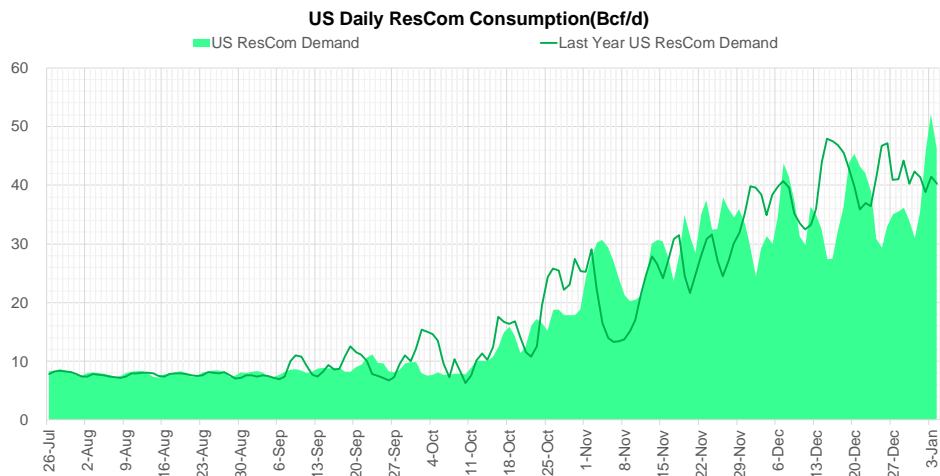
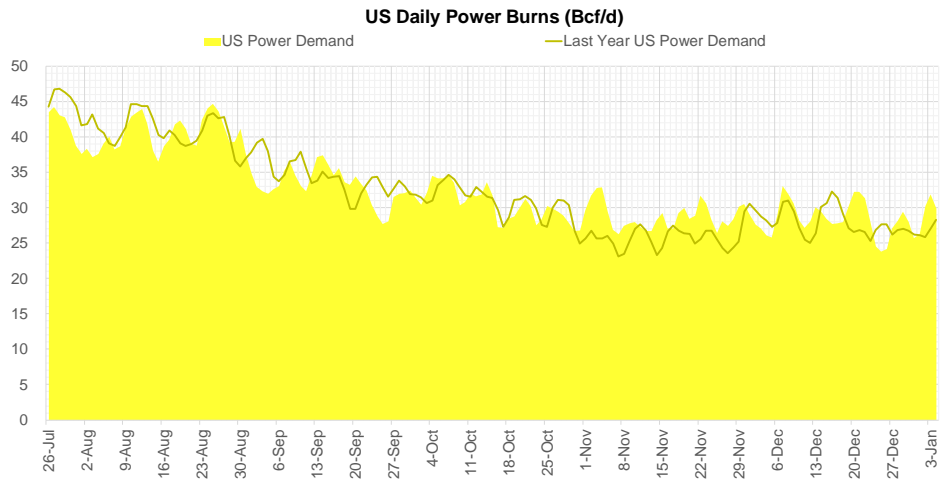
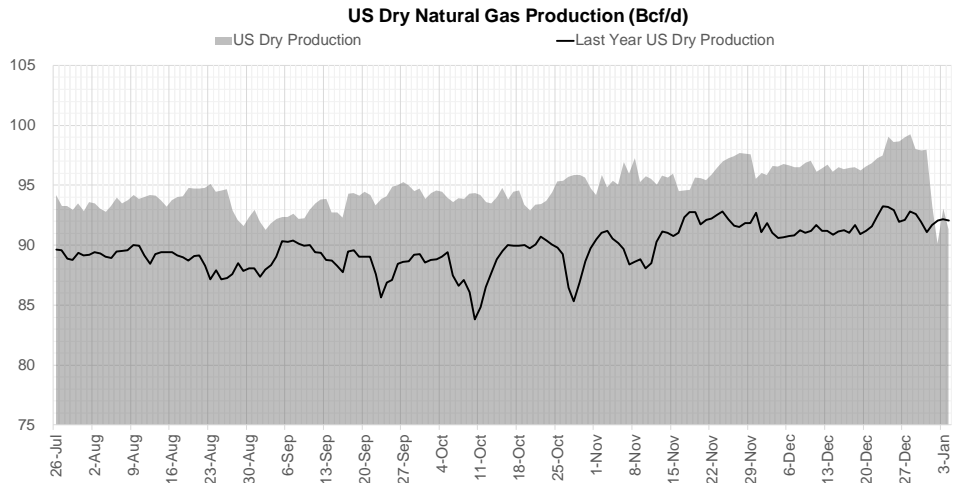


Go to larger image





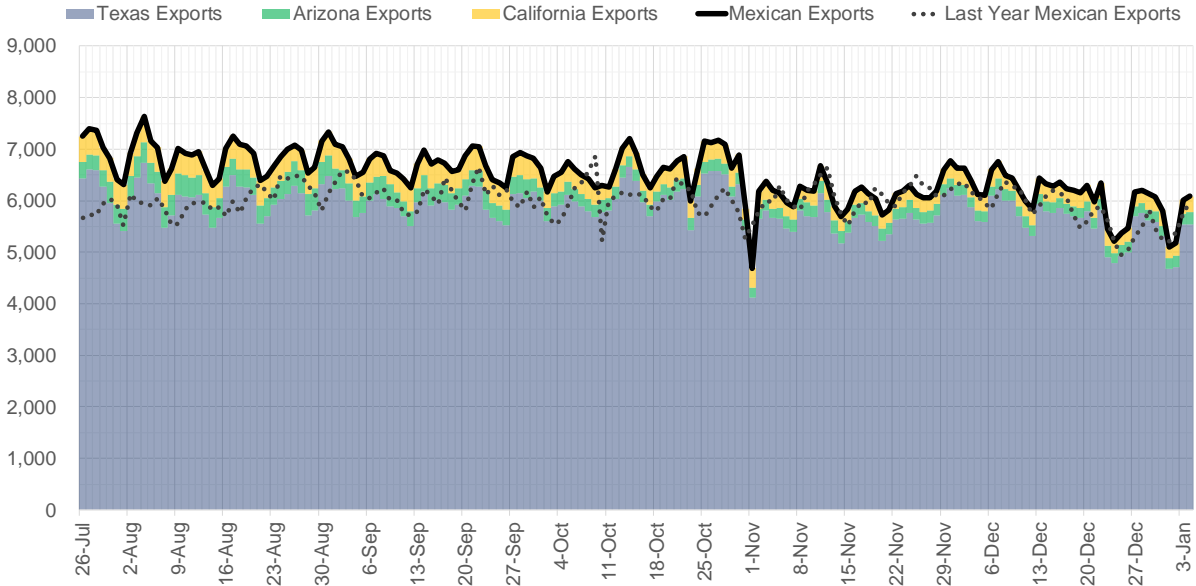
## Supply – Demand Trends



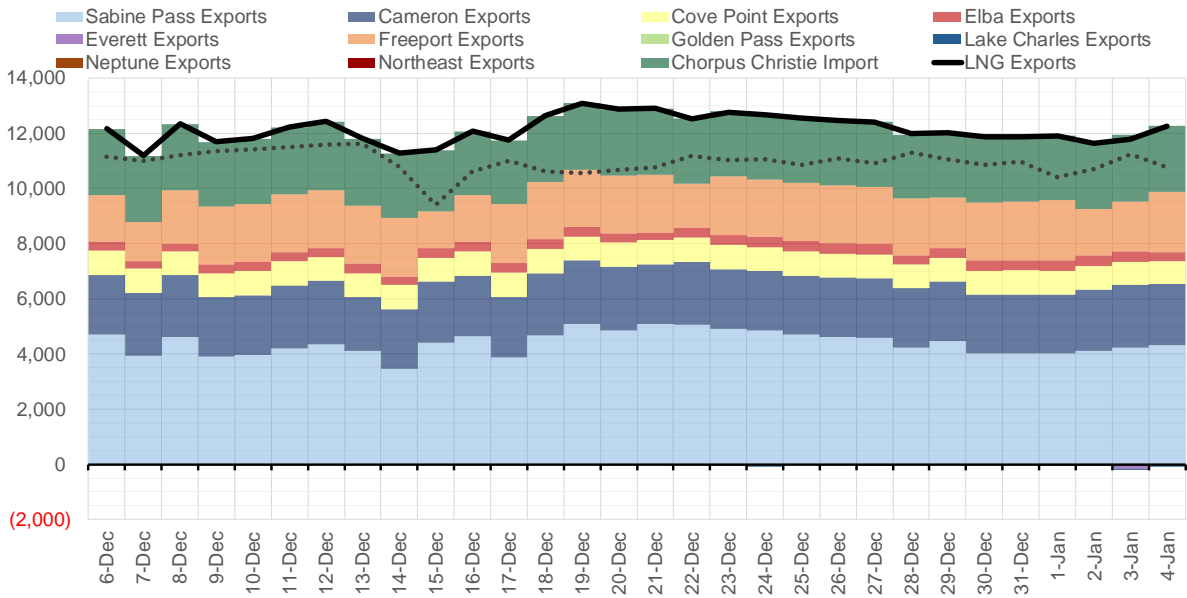
Source: Bloomberg

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.

### 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.

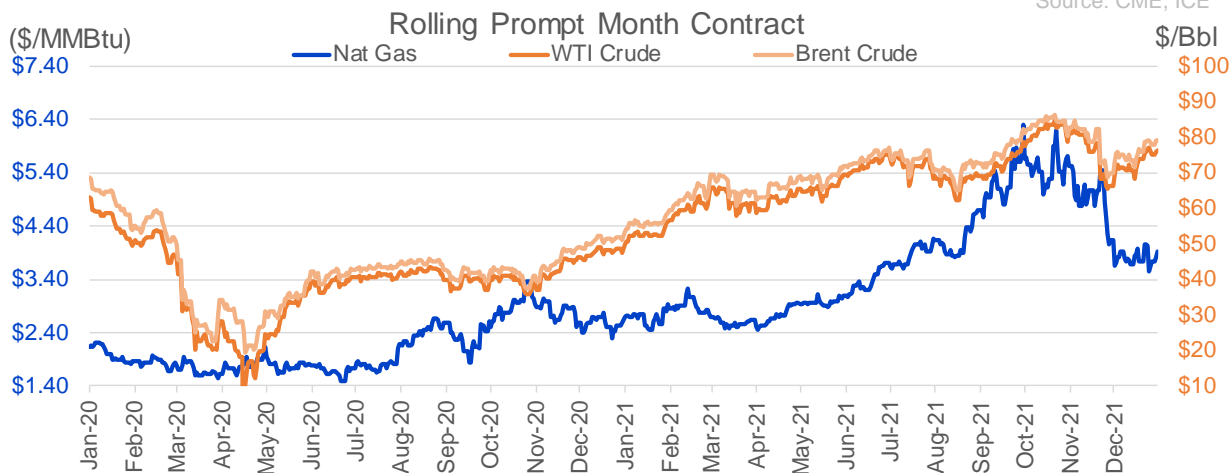
### Nat Gas Options Volume and Open Interest CME and ICE Combined

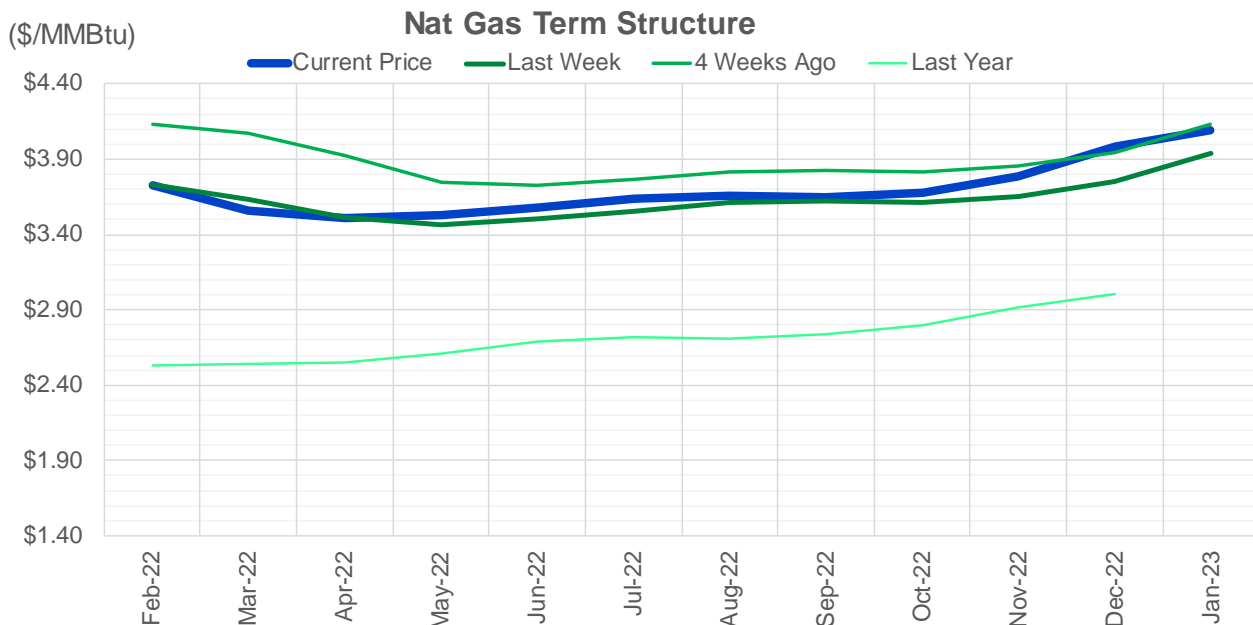
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
2	2022	C	4.25	3538	3	2022	C	10.00	36178
3	2022	C	4.00	2926	3	2022	C	5.00	32206
2	2022	C	4.00	2434	3	2022	C	8.00	25794
3	2022	P	3.00	2049	2	2022	C	5.00	24833
2	2022	C	4.50	1820	3	2022	C	4.00	23728
3	2022	C	5.00	1594	3	2022	C	6.00	20882
3	2022	C	4.50	1422	2	2022	C	4.00	20863
2	2022	C	3.75	1409	12	2022	C	5.00	20797
3	2022	P	2.75	1335	3	2022	P	2.50	20025
4	2022	P	3.00	1325	4	2022	C	5.00	19817
1	2023	C	7.00	1250	4	2022	C	3.00	19710
3	2022	P	3.25	1166	2	2022	C	6.00	19238
4	2022	C	4.50	1076	2	2022	P	3.50	18058
2	2022	P	2.75	1014	3	2022	P	3.00	17906
1	2023	P	3.50	1000	3	2022	P	4.00	16331
2	2022	P	3.50	971	5	2022	C	5.00	16327
3	2022	C	4.25	942	3	2022	P	3.50	16154
3	2022	C	6.00	886	3	2022	C	7.00	16054
3	2022	P	3.50	858	2	2022	P	4.00	16014
4	2022	C	5.00	783	2	2022	C	4.50	15771
3	2022	C	3.50	724	4	2022	P	2.50	15446
3	2022	P	2.70	694	6	2022	C	5.00	15392
3	2022	P	2.50	685	10	2022	C	5.00	15138
2	2022	C	4.75	603	3	2022	P	2.00	14937
2	2022	P	3.00	601	10	2022	C	6.00	14700
4	2022	P	2.90	586	2	2022	C	5.50	14670
4	2022	P	3.50	586	2	2022	P	3.00	14328
2	2022	C	5.00	563	2	2022	C	10.00	14311
2	2022	C	4.30	556	3	2022	P	2.25	13852
2	2022	C	5.25	554	10	2022	P	2.00	13844
2	2022	P	2.50	533	5	2022	C	3.00	13733
3	2022	C	3.85	521	3	2022	P	5.00	13557
4	2022	P	2.50	504	5	2022	P	3.00	13452
3	2022	P	2.25	502	6	2022	C	3.00	13438
3	2022	C	4.55	500	12	2022	C	4.50	13282
2	2022	P	3.20	473	3	2022	C	3.00	13246
2	2022	C	3.90	451	7	2022	C	3.00	13230
4	2022	P	2.75	425	8	2022	C	3.00	13226
4	2022	C	4.00	411	9	2022	C	3.00	13225
3	2022	C	6.50	360	4	2022	C	4.00	13198
2	2022	C	4.40	338	8	2022	C	5.00	13193
2	2022	C	10.00	309	10	2022	C	3.00	13114
2	2022	P	3.70	305	12	2022	C	5.25	13113
4	2022	P	3.25	300	3	2022	C	3.50	12854
5	2022	P	2.75	300	2	2022	P	2.50	12747
6	2022	P	2.75	300	2	2022	C	8.00	12497
7	2022	P	2.75	300	4	2022	P	3.00	12371
8	2022	P	2.75	300	3	2022	C	5.50	12239
9	2022	P	2.75	300	2	2022	C	4.25	12128
					5	2022	P	2.5	12078

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
FEB 22	117121	120397	-3276	FEB 22	77558	75828	1730
MAR 22	255350	254510	840	MAR 22	86665	88060	-1395
APR 22	81849	81171	678	APR 22	75684	77895	-2211
MAY 22	114113	112633	1480	MAY 22	68019	67730	289
JUN 22	52600	52818	-218	JUN 22	53655	53744	-89
JUL 22	45831	45509	322	JUL 22	59148	59109	40
AUG 22	32755	32121	634	AUG 22	55262	54985	276
SEP 22	48075	47990	85	SEP 22	56321	56194	127
OCT 22	74382	74746	-364	OCT 22	63542	63373	170
NOV 22	35154	34802	352	NOV 22	50964	50752	212
DEC 22	36241	36452	-211	DEC 22	60033	59948	85
JAN 23	42458	42205	253	JAN 23	47885	47529	356
FEB 23	11644	11158	486	FEB 23	36621	36487	134
MAR 23	28240	28440	-200	MAR 23	41187	41072	116
APR 23	20580	20390	190	APR 23	40398	40199	200
MAY 23	13085	13185	-100	MAY 23	36202	36159	43
JUN 23	10032	9996	36	JUN 23	32988	32934	54
JUL 23	7679	7767	-88	JUL 23	32151	32095	55
AUG 23	4837	4906	-69	AUG 23	33018	32963	55
SEP 23	7664	7679	-15	SEP 23	31505	31388	117
OCT 23	12518	12622	-104	OCT 23	36020	35915	106
NOV 23	6959	6962	-3	NOV 23	35324	35244	80
DEC 23	9516	9521	-5	DEC 23	33192	33118	74
JAN 24	6693	6683	10	JAN 24	23837	23820	17
FEB 24	1730	1724	6	FEB 24	16741	16741	0
MAR 24	9700	9704	-4	MAR 24	22632	22632	0
APR 24	5259	5259	0	APR 24	15985	15961	24
MAY 24	2055	2062	-7	MAY 24	16359	16334	25
JUN 24	931	931	0	JUN 24	16554	16554	0
JUL 24	563	563	0	JUL 24	17149	17149	0





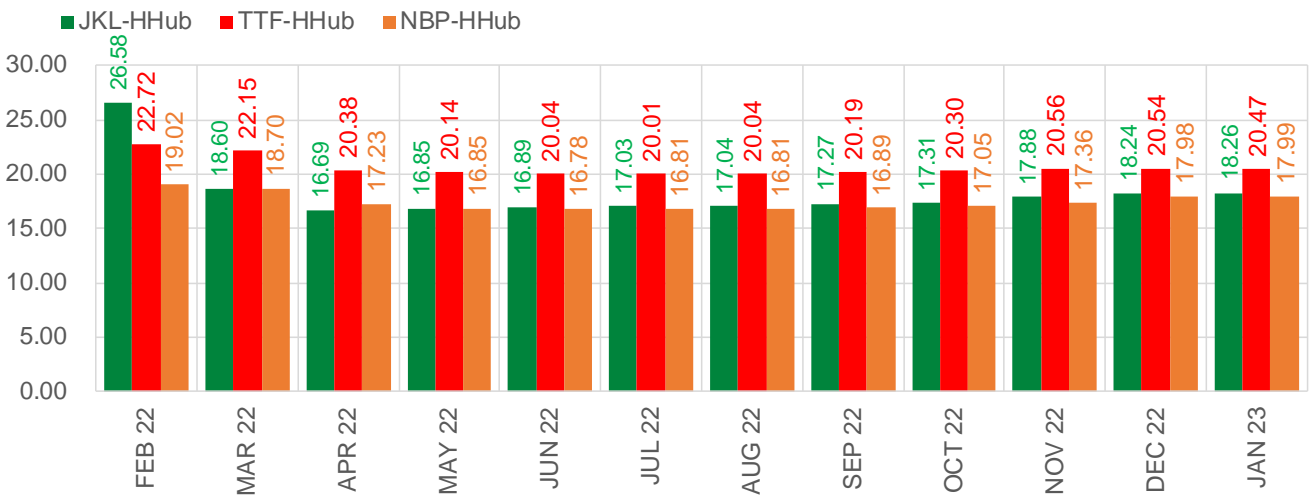
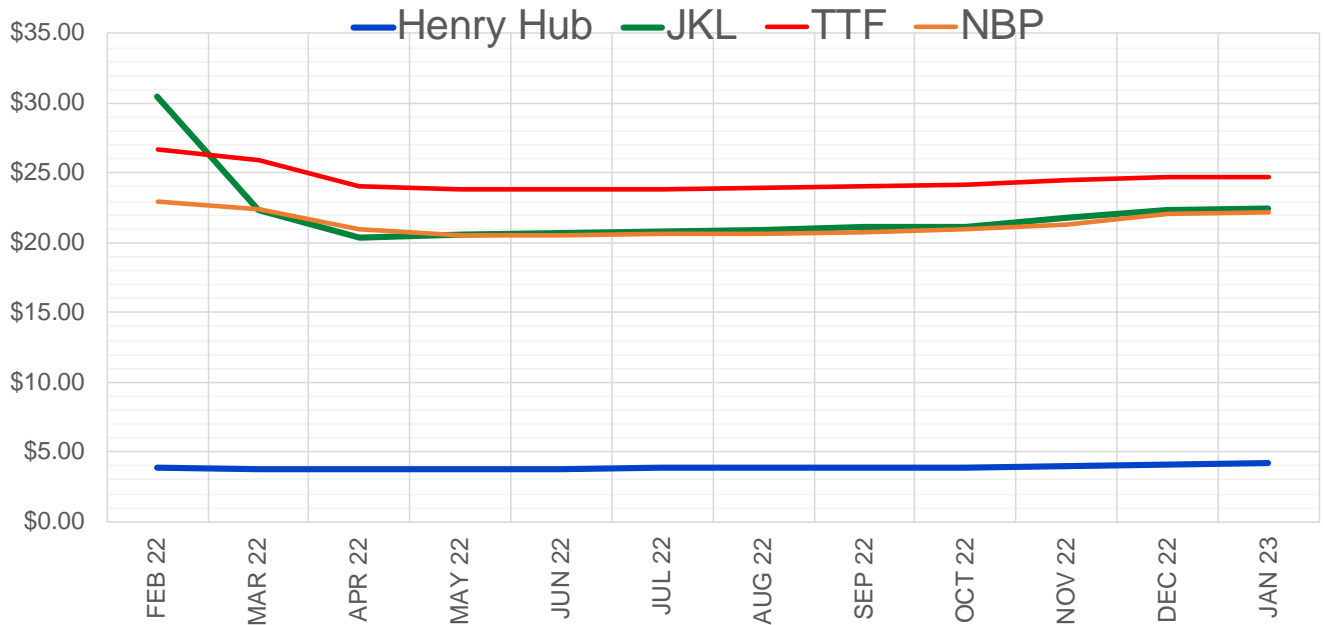
	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
<b>Current Price</b>	<b>\$3.730</b>	<b>\$3.557</b>	<b>\$3.507</b>	<b>\$3.525</b>	<b>\$3.579</b>	<b>\$3.638</b>	<b>\$3.657</b>	<b>\$3.645</b>	<b>\$3.676</b>	<b>\$3.786</b>	<b>\$3.983</b>	<b>\$4.090</b>
Last Week	\$3.731	\$3.630	\$3.514	\$3.469	\$3.500	\$3.552	\$3.609	\$3.627	\$3.617	\$3.651	\$3.754	\$3.935
vs. Last Week	-\$0.001	-\$0.073	-\$0.007	\$0.056	\$0.079	\$0.086	\$0.048	\$0.018	\$0.059	\$0.135	\$0.229	\$0.155
4 Weeks Ago	\$4.132	\$4.073	\$3.921	\$3.751	\$3.727	\$3.766	\$3.817	\$3.829	\$3.815	\$3.851	\$3.948	\$4.136
vs. 4 Weeks Ago	-\$0.402	-\$0.516	-\$0.414	-\$0.226	-\$0.148	-\$0.128	-\$0.160	-\$0.184	-\$0.139	-\$0.065	\$0.035	-\$0.046
Last Year	\$2.539	\$2.526	\$2.538	\$2.555	\$2.611	\$2.685	\$2.715	\$2.712	\$2.741	\$2.796	\$2.913	\$3.006
vs. Last Year	\$1.191	\$1.031	\$0.969	\$0.970	\$0.968	\$0.953	\$0.942	\$0.933	\$0.935	\$0.990	\$1.070	\$1.084

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	4.00	21.58	17.58
TETCO M3	\$/MMBtu	8.20	6.47	-1.74
FGT Zone 3	\$/MMBtu	8.50	4.16	-4.34
Zone 6 NY	\$/MMBtu	8.50	8.40	-0.10
Chicago Citygate	\$/MMBtu	3.45	4.80	1.35
Michcon	\$/MMBtu	3.37	4.01	0.64
Columbia TCO Pool	\$/MMBtu	3.02	3.40	0.38
Ventura	\$/MMBtu	3.78	6.37	2.59
Rockies/Opal	\$/MMBtu	7.12	5.06	-2.06
El Paso Permian Basin	\$/MMBtu	3.39	4.48	1.09
Socal Citygate	\$/MMBtu	6.59	8.23	1.64
Malin	\$/MMBtu	7.24	7.61	0.37
Houston Ship Channel	\$/MMBtu	3.51	4.47	0.97
Henry Hub Cash	\$/MMBtu	3.59	3.99	0.40
AECO Cash	C\$/GJ	3.37	3.65	0.28
Station2 Cash	C\$/GJ	3.52	10.63	7.11
Dawn Cash	C\$/GJ	3.47	4.17	0.70

Source: CME, Bloomberg

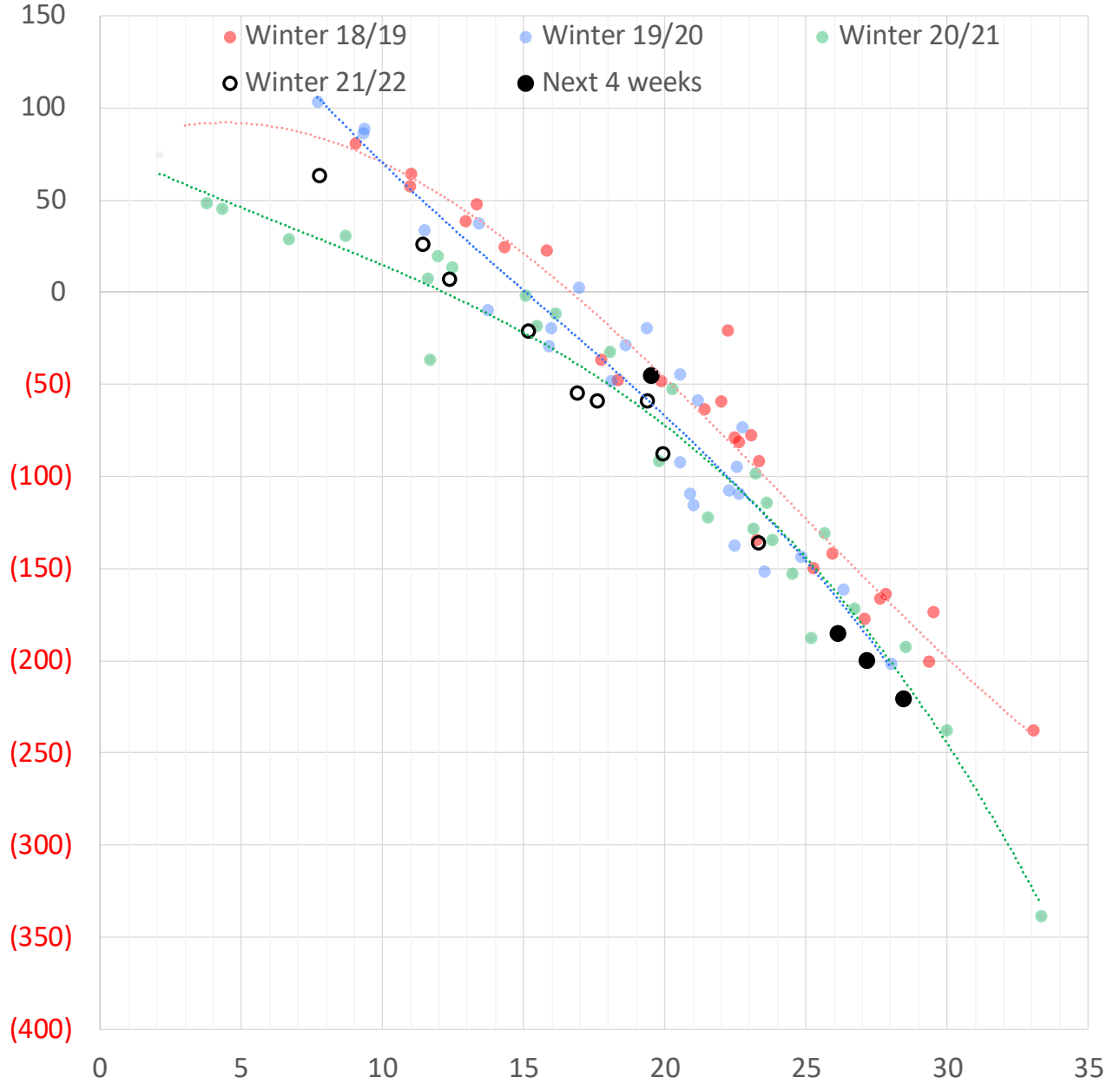
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.175
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.304
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▼ -0.036	▲ 0.367	▼ -2.089
NatGas Apr22/Oct22	\$/MMBtu	0.160	▲ 0.019	▲ 0.015	▲ 0.145
WTI Crude	\$/Bbl	76.08	▲ 0.510	▲ 6.590	▲ 28.460
Brent Crude	\$/Bbl	78.98	▲ 0.380	▲ 5.900	▲ 27.890
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	235.74	▲ 0.390	▲ 18.620	▲ 89.540
Propane, Mt. Bel	cents/Gallon	1.10	▲ 0.072	▲ 0.099	▲ 0.313
Ethane, Mt. Bel	cents/Gallon	0.34	▲ 0.002	▲ 0.007	▲ 0.125
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)



	FEB 22	MAR 22	APR 22	MAY 22	JUN 22	JUL 22	AUG 22	SEP 22	OCT 22	NOV 22	DEC 22	JAN 23
<b>Henry Hub</b>	\$3.927	\$3.756	\$3.714	\$3.731	\$3.791	\$3.830	\$3.859	\$3.843	\$3.872	\$3.966	\$4.143	\$4.233
<b>JKL</b>	\$30.505	\$22.355	\$20.400	\$20.580	\$20.685	\$20.860	\$20.895	\$21.110	\$21.180	\$21.850	\$22.380	\$22.490
JKL-HHub	\$26.578	\$18.599	\$16.686	\$16.849	\$16.894	\$17.030	\$17.036	\$17.267	\$17.308	\$17.884	\$18.237	\$18.257
<b>TTF</b>	\$26.648	\$25.902	\$24.091	\$23.875	\$23.826	\$23.840	\$23.901	\$24.030	\$24.174	\$24.522	\$24.687	\$24.706
TTF-HHub	\$22.721	\$22.146	\$20.377	\$20.144	\$20.035	\$20.010	\$20.042	\$20.187	\$20.302	\$20.556	\$20.544	\$20.473
<b>NBP</b>	\$22.948	\$22.457	\$20.943	\$20.579	\$20.573	\$20.635	\$20.673	\$20.734	\$20.924	\$21.323	\$22.123	\$22.221
NBP-HHub	\$19.021	\$18.701	\$17.229	\$16.848	\$16.782	\$16.805	\$16.814	\$16.891	\$17.052	\$17.357	\$17.980	\$17.988

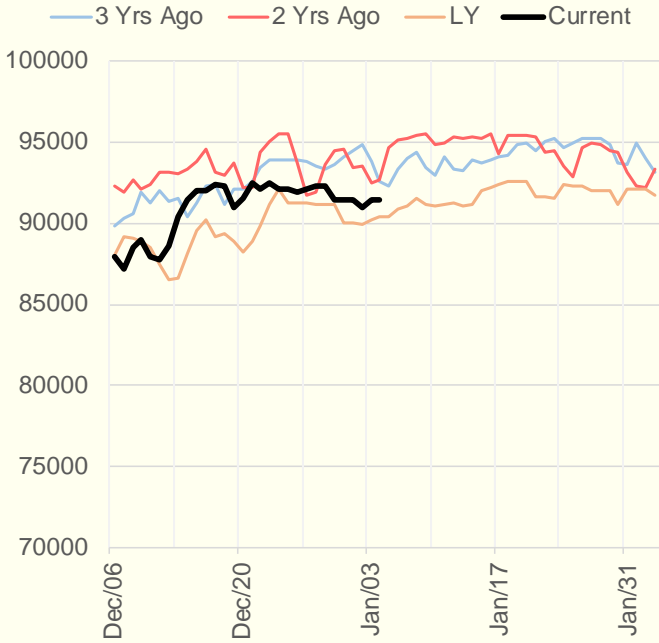
### Weather Storage Model - Next 4 Week Forecast



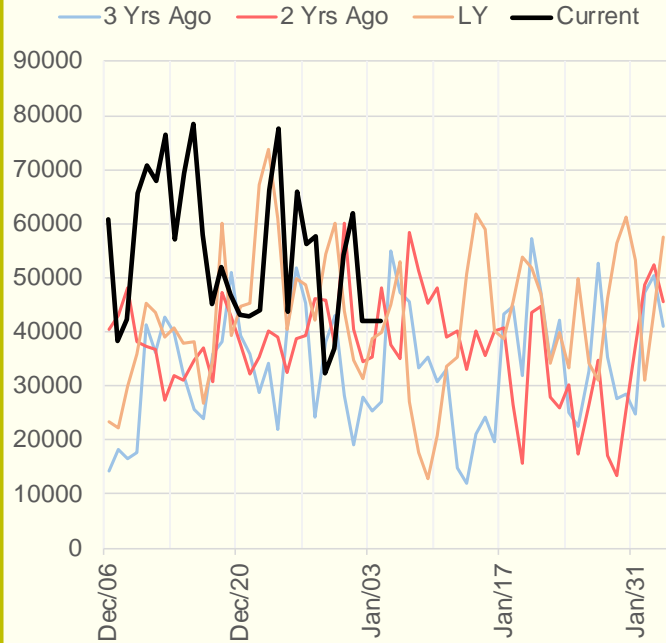
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are 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.



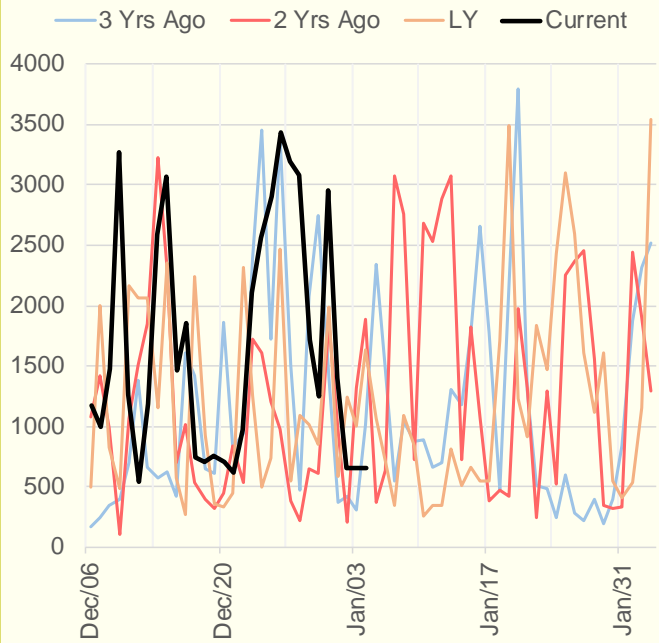
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

