

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 3.97	▼ \$ (0.05)	▼ \$ (0.05)

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 83.40	▲ \$ 0.09	▼ \$ (2.0)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 86.64	▲ \$ 0.37	▼ \$ (1.1)

### Page Menu

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[Supply – Demand Trends](#)

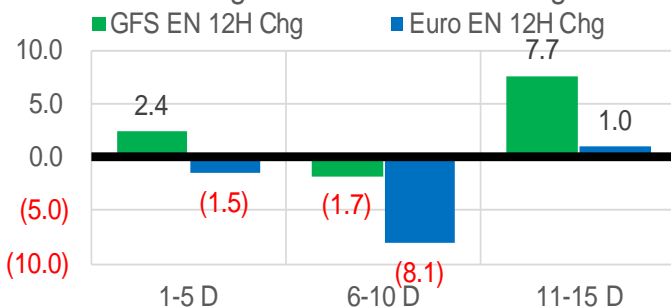
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

[Price Summary](#)

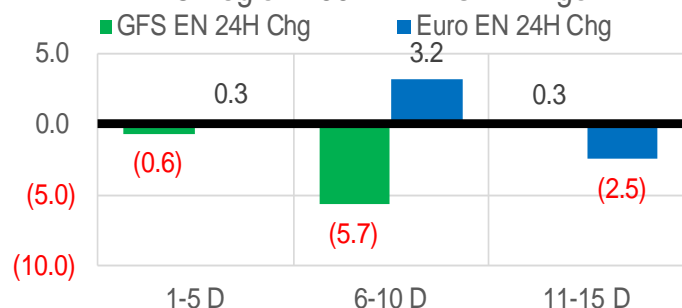
### Vs. 12H Ago

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	94.4	▼ -0.08	▼ -0.10

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	31.0	▼ -0.51	▼ -0.57

	Current	Δ from YD	Δ from 7D Avg
US ResComm	50.1	▲ 1.26	▼ -0.65

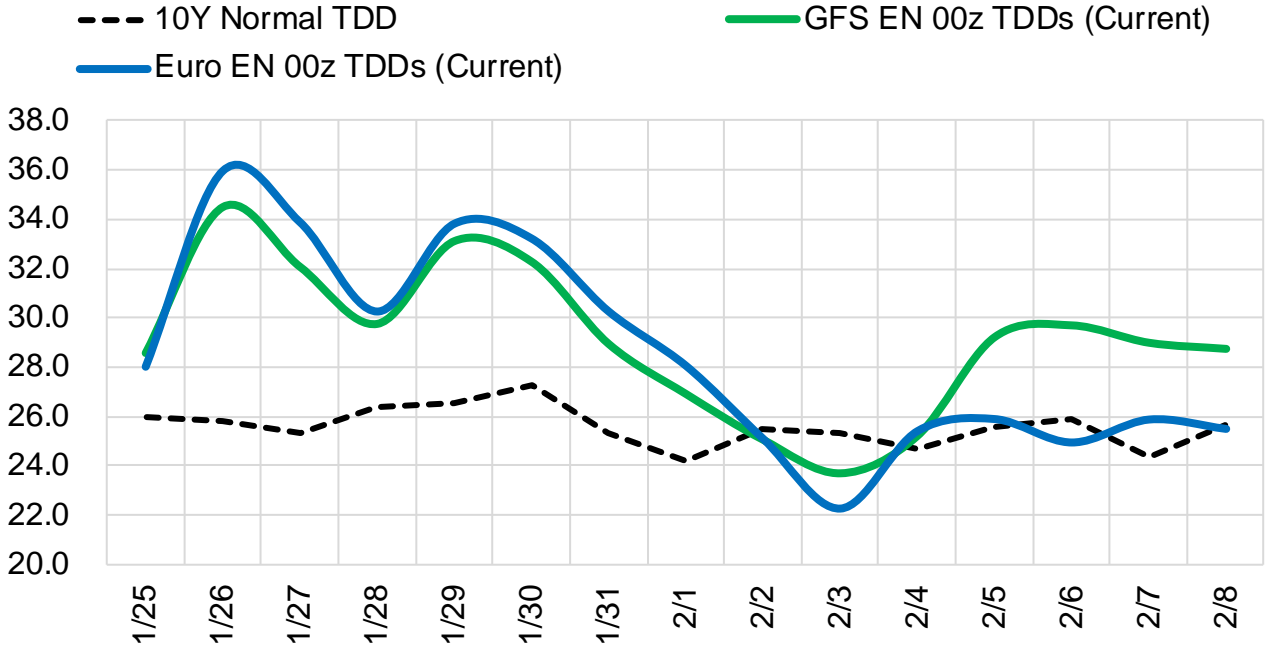
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	7.0	▲ 0.17	▼ -0.17

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	13.2	▲ 1.05	▲ 0.83

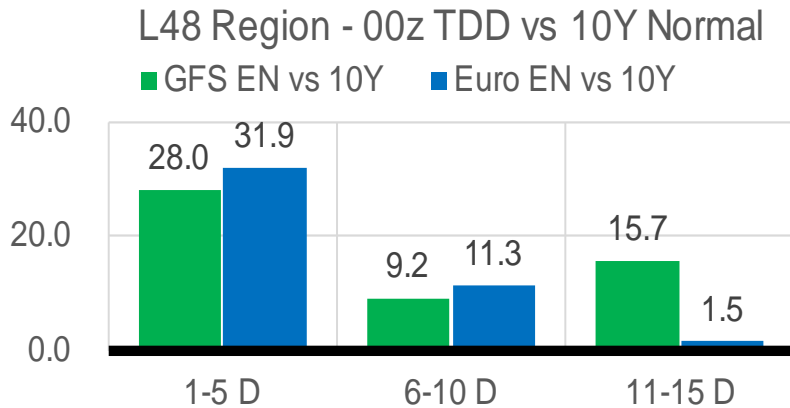
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	5.8	▼ -0.55	▼ -0.61

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

### L48 Region



## Vs. 10Y Normal



Source: WSI , Bloomberg

## Lower 48 Component Models

### Daily Balances

	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>95.7</b>	<b>94.0</b>	<b>93.9</b>	<b>93.9</b>	<b>94.5</b>	<b>94.5</b>	<b>94.4</b>	▼ -0.1	▼ 0.0
<b>Canadian Imports</b>	<b>6.3</b>	<b>8.1</b>	<b>7.9</b>	<b>7.1</b>	<b>7.0</b>	<b>6.8</b>	<b>7.0</b>	▲ 0.2	▼ -0.2
L48 Power	29.8	33.8	33.2	31.7	31.9	31.5	31.0	▼ -0.5	▼ -1.0
L48 Residential & Commercial	43.8	55.4	59.2	53.3	50.5	48.8	50.1	▲ 1.3	▼ -1.8
L48 Industrial	26.0	27.5	27.6	26.8	26.2	25.8	25.6	▼ -0.2	▼ -1.0
L48 Lease and Plant Fuel	5.2	5.1	5.1	5.1	5.2	5.2	5.1	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	3.6	4.3	4.5	4.1	4.0	3.9	3.9	▲ 0.0	▼ -0.1
<b>L48 Regional Gas Consumption</b>	<b>108.4</b>	<b>126.1</b>	<b>129.6</b>	<b>121.1</b>	<b>117.8</b>	<b>115.2</b>	<b>115.8</b>	▲ 0.6	▼ -3.9
<b>Net LNG Delivered</b>	<b>12.61</b>	<b>13.29</b>	<b>12.54</b>	<b>13.04</b>	<b>11.26</b>	<b>12.11</b>	<b>13.15</b>	▲ 1.0	▲ 0.7
<b>Total Mexican Exports</b>	<b>6.6</b>	<b>6.7</b>	<b>6.7</b>	<b>6.1</b>	<b>6.1</b>	<b>6.4</b>	<b>5.8</b>	▼ -0.5	▼ -0.6
<b>Implied Daily Storage Activity</b>	<b>-25.6</b>	<b>-44.0</b>	<b>-47.0</b>	<b>-39.3</b>	<b>-33.7</b>	<b>-32.4</b>	<b>-33.4</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	17-Dec	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>96.4</b>	<b>96.7</b>	<b>98.6</b>	<b>95.3</b>	<b>95.3</b>	<b>95.0</b>	▼ -0.3	▼ -1.5
<b>Canadian Imports</b>	<b>4.6</b>	<b>5.0</b>	<b>4.2</b>	<b>5.7</b>	<b>6.5</b>	<b>7.0</b>	▲ 0.5	▲ 1.7
L48 Power	28.4	29.9	26.4	29.9	30.4	30.3	▼ -0.1	▲ 1.1
L48 Residential & Commercial	31.4	40.3	33.4	44.3	47.5	48.3	▲ 0.8	▲ 6.9
L48 Industrial	23.7	24.0	22.2	26.0	25.8	27.0	▲ 1.2	▲ 2.5
L48 Lease and Plant Fuel	5.2	5.2	5.4	5.2	5.2	5.2	▼ 0.0	▼ -0.1
L48 Pipeline Distribution	3.0	3.5	3.0	3.6	3.8	3.8	▲ 0.0	▲ 0.3
<b>L48 Regional Gas Consumption</b>	<b>91.7</b>	<b>103.0</b>	<b>90.3</b>	<b>109.0</b>	<b>112.7</b>	<b>114.6</b>	▲ 1.9	▲ 10.8
<b>Net LNG Exports</b>	<b>11.9</b>	<b>12.7</b>	<b>12.3</b>	<b>11.9</b>	<b>12.3</b>	<b>12.9</b>	▲ 0.6	▲ 0.6
<b>Total Mexican Exports</b>	<b>6.2</b>	<b>6.1</b>	<b>5.8</b>	<b>5.9</b>	<b>6.3</b>	<b>6.4</b>	▲ 0.1	▲ 0.4
<b>Implied Daily Storage Activity</b>	<b>-8.8</b>	<b>-20.0</b>	<b>-5.6</b>	<b>-25.9</b>	<b>-29.5</b>	<b>-31.9</b>	-2.4	
<b>EIA Reported Daily Storage Activity</b>	<b>-7.9</b>	<b>-19.4</b>	<b>-4.4</b>	<b>-25.6</b>	<b>-29.4</b>			
<b>Daily Model Error</b>	<b>-1.0</b>	<b>-0.6</b>	<b>-1.1</b>	<b>-0.3</b>	<b>-0.1</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>97.0</b>	<b>94.9</b>	▼ -2.1	▲ 3.5
<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>6.6</b>	▲ 1.9	▲ 0.4
L48 Power	29.9	28.3	33.1	30.5	28.8	28.4	30.7	▲ 2.3	▲ 2.4
L48 Residential & Commercial	41.7	44.0	8.8	12.5	29.4	34.5	48.4	▲ 13.9	▲ 4.4
L48 Industrial	24.5	23.8	20.2	21.0	22.4	23.3	26.5	▲ 3.1	▲ 2.6
L48 Lease and Plant Fuel	5.1	5.0	5.1	5.2	5.2	5.3	5.2	▼ -0.1	▲ 0.2
L48 Pipeline Distribution	3.6	3.5	2.3	2.4	3.1	3.1	3.8	▲ 0.7	▲ 0.3
<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>94.5</b>	<b>114.6</b>	▲ 20.0	▲ 10.0
<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>12.4</b>	▲ 0.3	▲ 1.9
<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>6.1</b>	<b>6.3</b>	▲ 0.1	▲ 0.1
<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>-11.0</b>	<b>-31.7</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)

	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	DoD	vs. 7D
NRC Nuclear Daily Output	89.4	89.3	89.4	90.2	91.0	91.0	91.0	0.0	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	15.5	15.5	15.5	14.7	13.9	13.9	13.9	0.0	-0.9
NRC % Nuclear Cap Utilization	90.9	90.8	90.9	91.7	92.5	92.5	92.5	0.0	0.9

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

	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	DoD	vs. 7D
CALI Wind	1029	2710	1056	632	3172	2418	829	-1589	-1007
TEXAS Wind	9975	19238	18934	16289	7943	4930	4864	-66	-8021
US Wind	44873	67617	72157	45852	49458	43233	38676	-4557	-15189

### Generation Daily Average - MWh (EIA)

	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	DoD	vs. 7D
US Wind	44873	67617	72157	45852	49458	43233	38676	-4557	-15189
US Solar	8480	9635	9117	7778	8713	7902	10750	2849	2146
US Petroleum	5541	4831	4024	5250	7131	6629	5699	-930	131
US Other	8673	8528	7791	8928	9426	8895	9222	326	515
US Coal	123248	115613	111826	128808	137062	131073	126042	-5030	1438
US Nuke	94199	94291	94356	95250	96028	95680	94819	-861	-148
US Hydro	34930	33730	35043	34034	35087	35056	32952	-2104	-1695
<b>US Gas</b>	<b>165553</b>	<b>148004</b>	<b>142013</b>	<b>178641</b>	<b>196319</b>	<b>182454</b>	<b>166416</b>	<b>-16038</b>	<b>-2415</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	17-Dec	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	90.0	92.1	92.1	91.3	90.6	89.7	-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	14.9	12.8	12.8	13.6	14.3	15.1	0.9	
NRC % Nuclear Cap Utilization	0.1	0.1	0.1	0.1	0.1	0.1	0.0	

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

	17-Dec	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	WoW	WoW Bcf/d Impact
CALI Wind	1709	943	2591	1603	1266	1273	8	0.0
TEXAS Wind	16176	11007	13891	13603	10192	15630	5438	-1.0
US Wind	68412	48727	53100	57136	50736	55682	4946	-0.9
					-6400.0			
					-11%			

### Generation Weekly Average - MWh (EIA)

	17-Dec	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	WoW	WoW Bcf/d Impact
US Wind	68412	48727	53100	57136	50736	55682	4946	<b>-0.9</b>
US Solar	7570	7098	6957	8464	9382	8373	-1009	<b>0.2</b>
US Petroleum	2700	3581	3084	3038	4915	5255	340	<b>-0.1</b>
US Other	8301	8532	7584	8301	8319	7992	-326	0.1
US Coal	76931	87380	80022	94994	115155	117852	2697	-0.5
US Nuke	95054	97422	97083	96342	95714	94644	-1070	<b>0.2</b>
US Hydro	30257	32560	31279	34583	34191	34393	203	0.0
<b>US Gas</b>	<b>148807</b>	<b>166457</b>	<b>136071</b>	<b>154295</b>	<b>161867</b>	<b>156254</b>	<b>-5613</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	94.4	91.3	75.5	82.7	90.3	90.5			
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	10.5	13.5	29.4	22.2	14.6	14.4	14.1	-0.2	0.6	
NRC % Nuclear Cap Utilization	96.0	92.9	76.8	84.1	91.8	92.0	92.3	0.2	-0.6	

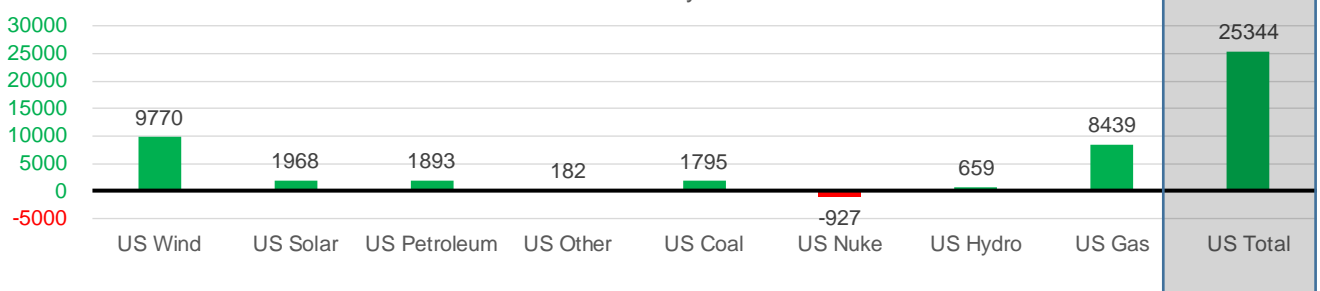
### Wind Generation Monthly Average - MWh (EIA)

	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	1309	1139	1765	1252	1585	1365			
TEXAS Wind	10087	10838	11565	11869	12927	11583	11608	-1344	770	
US Wind	38811	41482	43141	49974	54821	51964	51252	-2857	9770	

### 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	38811	41482	43141	49974	54821	51964			
US Solar	5103	6626	11059	9690	7376	9065	8594	▼ -471.4	▲ 1968	
US Petroleum	3664	2683	3239	3045	3134	4842	4576	▼ -267	▲ 1893	
US Other	8876	8115	11110	8435	8214	8423	8297	▼ -126	▲ 182	
US Coal	79623	107657	84432	80848	81683	114432	109452	▼ -4980	▲ 1795	
US Nuke	96217	96631	77089	87404	95408	95466	95704	▲ 238	▼ -927	
US Hydro	31836	33521	24078	26593	30805	34301	34180	▼ -121	▲ 659	
<b>US Gas</b>	<b>148316</b>	<b>151291</b>	<b>159049</b>	<b>151462</b>	<b>152503</b>	<b>162131</b>	<b>159730</b>	<b>▼ -6439</b>	<b>▲ 8439</b>	
<b>US Total</b>	<b>429138</b>	<b>446577</b>	<b>413352</b>	<b>417925</b>	<b>434203</b>	<b>480721</b>	<b>471920</b>	<b>▼ -12167</b>	<b>▲ 25344</b>	

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

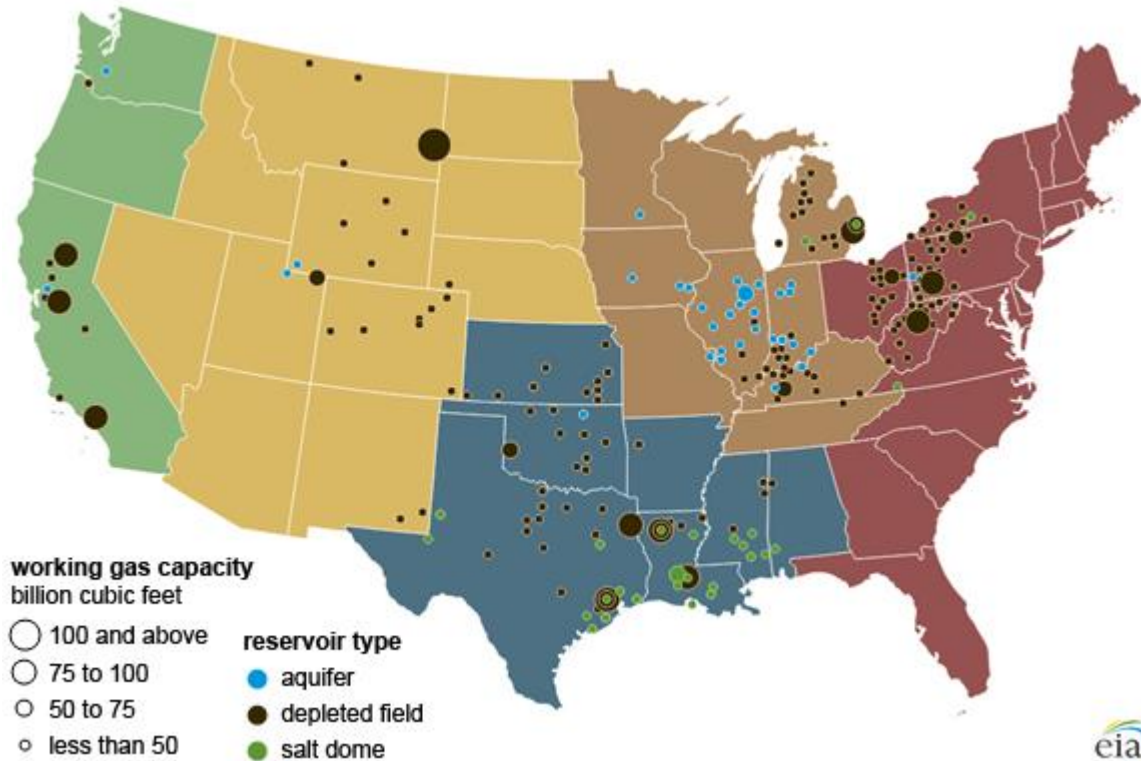
### Regional S/D Models Storage Projection

Week Ending 21-Jan

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-32.1	0.6	-31.4	-220
East	-10.7	2.7	-8.0	-56
Midwest	-9.7	-0.4	-10.1	-70
Mountain	2.0	-3.0	-1.0	-7
South Central	-13.9	1.8	-12.1	-85
Pacific	0.3	-0.5	-0.3	-2

\*Adjustment Factor is calculated based on historical regional deltas

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

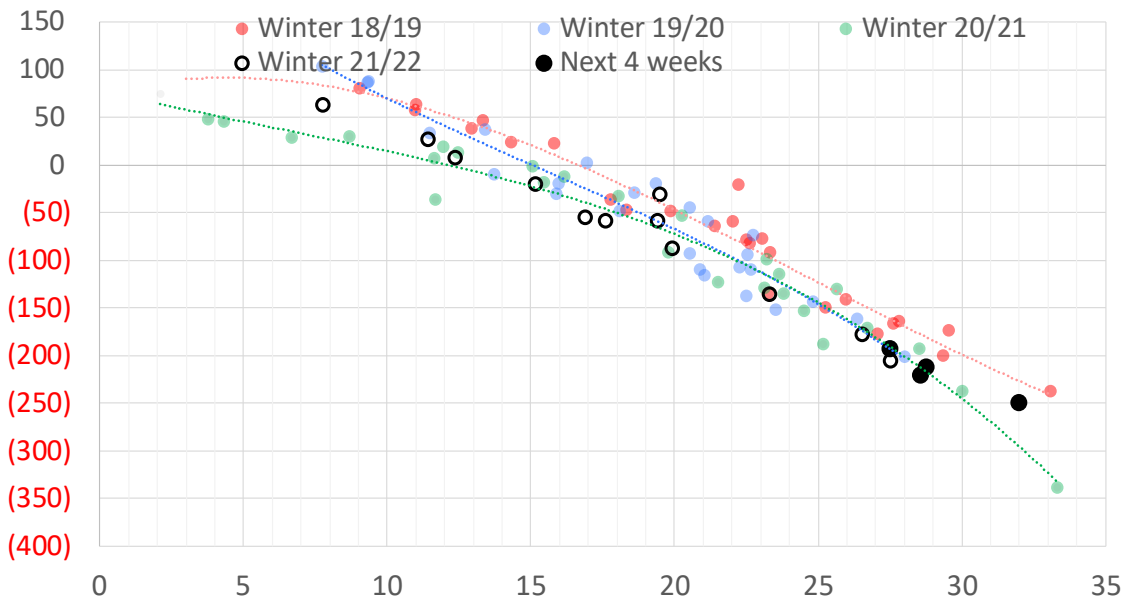


### Weather Model Storage Projection

Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
21-Jan	29	-220
28-Jan	32	-249
04-Feb	29	-211
11-Feb	27	-193

Weather Storage Model - Next 4 Week Forecast

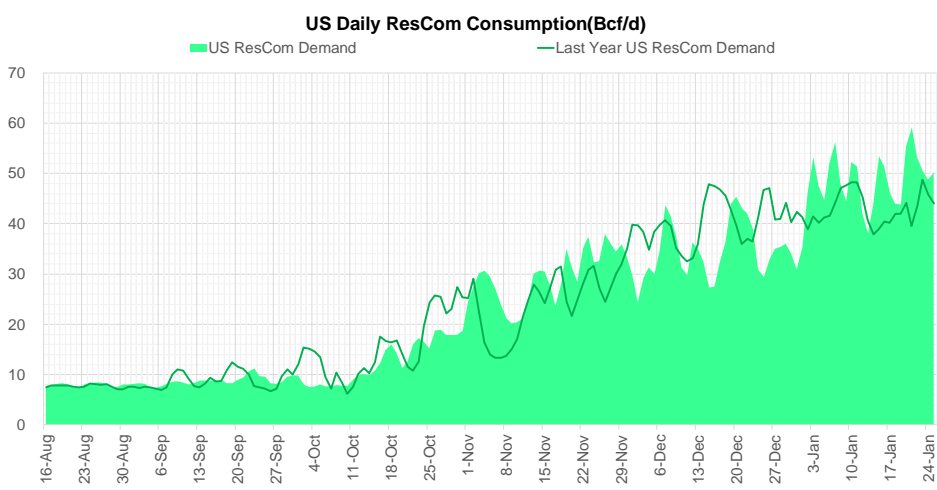
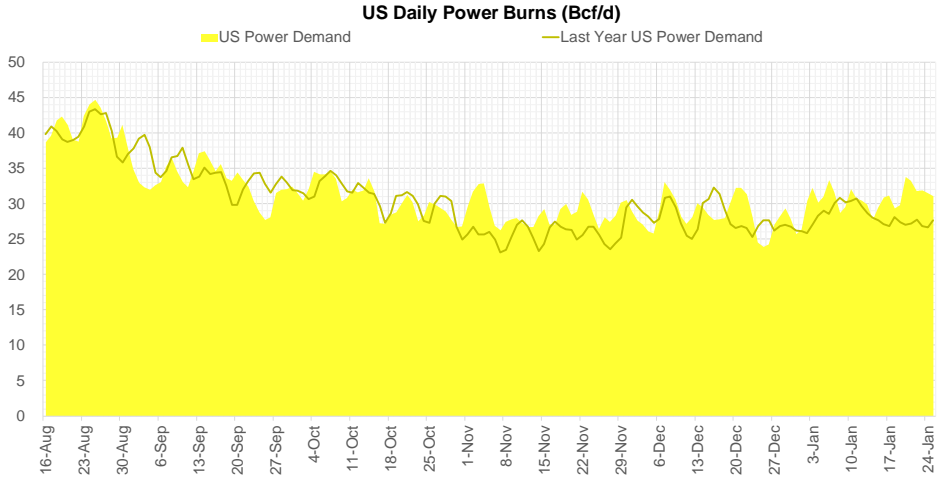
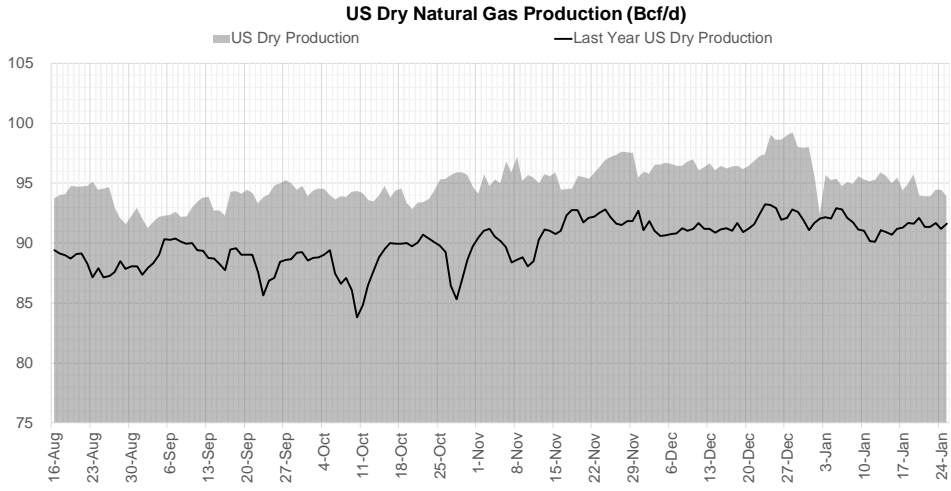


Go to larger image





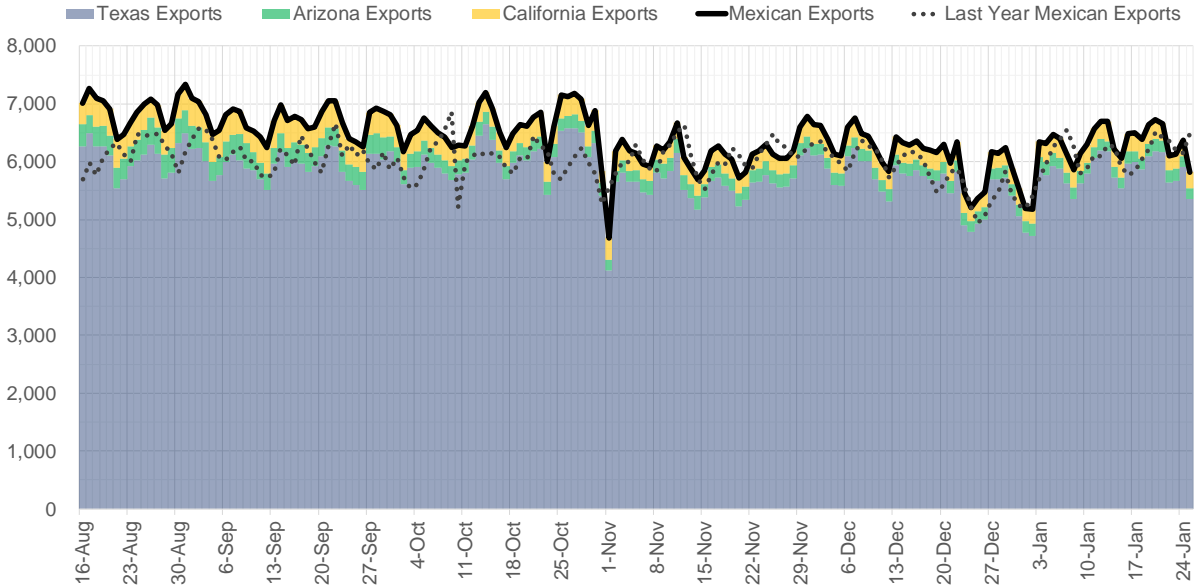
## Supply – Demand Trends



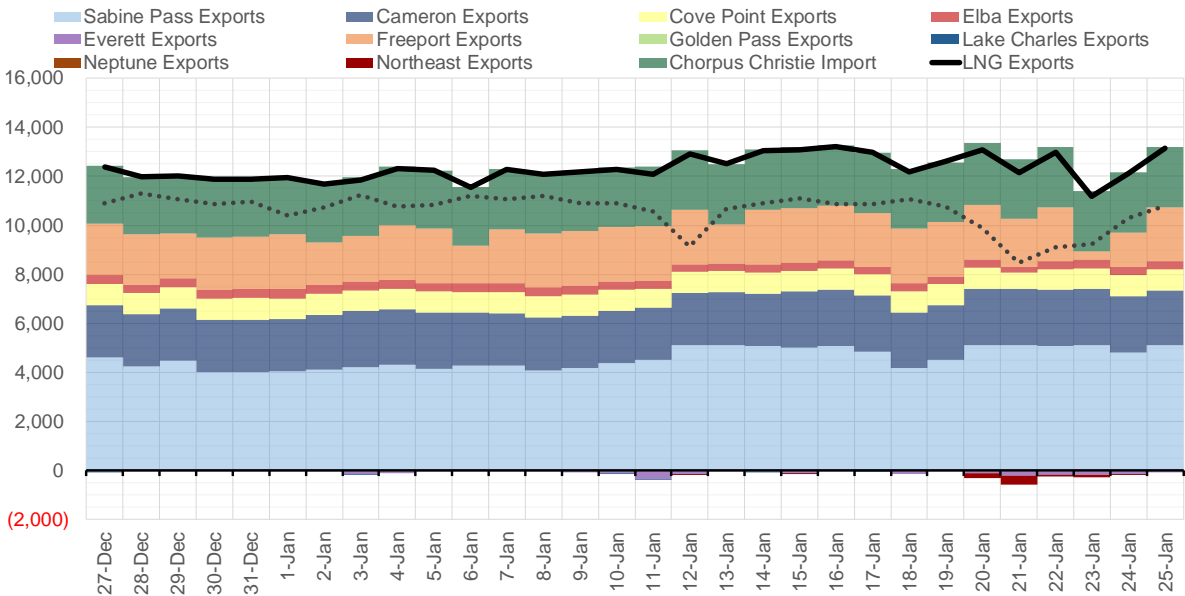
Source: Bloomberg

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

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

ICE Data not  
updated today

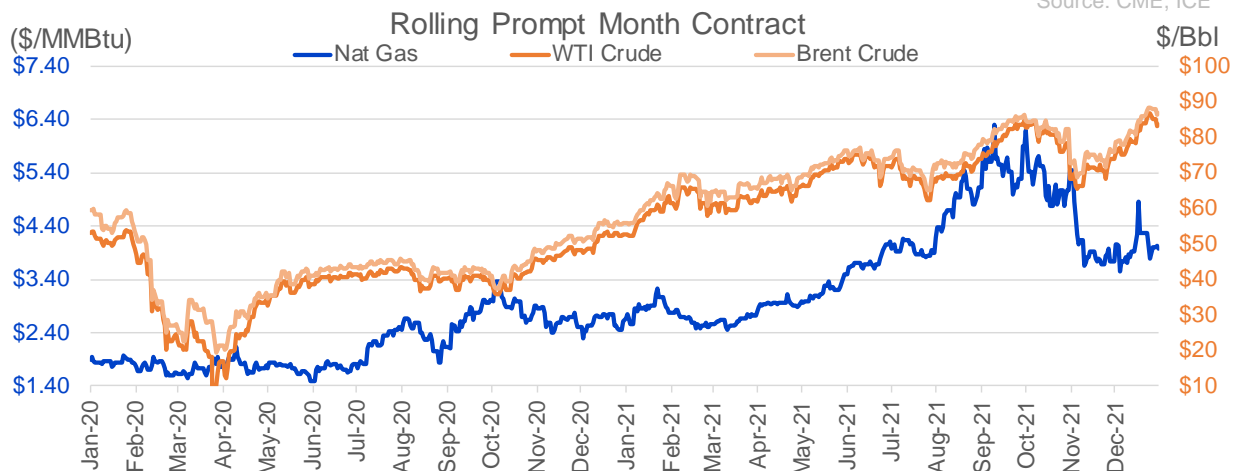
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
2	2022	C	4.50	3258	3	2022	P	3.00	39063
2	2022	C	4.00	2639	3	2022	C	5.00	36252
2	2022	C	4.25	2632	3	2022	C	10.00	35056
3	2022	C	6.00	2461	3	2022	C	8.00	32022
10	2022	C	5.00	2375	2	2022	C	4.00	26979
10	2022	C	6.00	2350	3	2022	C	4.00	24560
10	2022	P	2.50	2000	3	2022	P	2.50	24527
5	2022	P	3.30	1894	2	2022	C	5.00	24494
5	2022	P	3.50	1894	3	2022	P	4.00	23385
3	2022	P	3.00	1832	2	2022	P	3.50	23383
2	2022	P	3.80	1821	3	2022	P	3.50	23069
3	2022	C	5.00	1767	10	2022	C	6.00	20930
2	2022	C	5.00	1750	3	2022	P	3.75	20748
3	2022	P	3.20	1219	3	2022	C	6.00	20135
3	2022	C	4.00	1119	12	2022	C	5.00	19847
6	2022	C	4.00	1110	4	2022	C	3.00	19710
6	2022	C	4.50	1100	2	2022	P	4.00	19007
2	2022	P	4.00	1074	4	2022	P	3.00	18963
3	2022	C	5.50	1050	2	2022	C	6.00	18509
3	2022	P	3.25	983	2	2022	C	4.50	18502
3	2022	P	3.50	965	5	2022	P	3.00	17984
3	2022	P	4.00	936	3	2022	C	4.50	17507
2	2022	P	3.75	929	4	2022	P	2.50	17493
3	2022	P	3.75	888	6	2022	C	5.00	17473
2	2022	P	3.90	885	4	2022	C	5.00	16505
1	2023	P	3.00	850	3	2022	P	3.25	16089
4	2022	C	5.00	818	3	2022	C	7.00	16078
2	2022	C	4.30	797	4	2022	P	3.50	15626
4	2022	P	3.00	766	3	2022	P	2.75	15113
3	2022	P	3.60	755	3	2022	P	2.00	14981
4	2022	C	4.00	735	2	2022	P	3.75	14733
6	2022	C	6.00	650	2	2022	C	8.00	14670
3	2022	C	4.75	564	2	2022	C	7.00	14656
2	2022	C	4.10	531	2	2022	C	10.00	14444
5	2022	C	6.00	525	2	2022	P	3.00	14250
2	2022	C	4.20	514	2	2022	C	4.25	14106
3	2022	P	3.10	507	10	2022	P	2.00	13921
2	2022	P	2.75	504	3	2022	P	2.25	13916
4	2022	C	5.50	500	5	2022	C	3.00	13733
6	2022	C	8.00	500	4	2022	C	6.00	13593
1	2023	C	4.50	500	3	2022	P	5.00	13592
2	2023	P	3.00	500	6	2022	C	3.00	13438
2	2022	C	4.40	482	3	2022	C	3.50	13350
3	2022	C	7.00	455	10	2022	C	5.00	13330
4	2022	C	6.00	454	12	2022	C	4.50	13287
5	2022	C	4.00	453	5	2022	P	2.50	13283
7	2022	C	6.00	453	3	2022	C	3.00	13276
5	2022	C	4.50	451	4	2022	C	4.00	13265
3	2022	C	4.50	450	7	2022	C	3.00	13230
					8	2022	C	3	13226

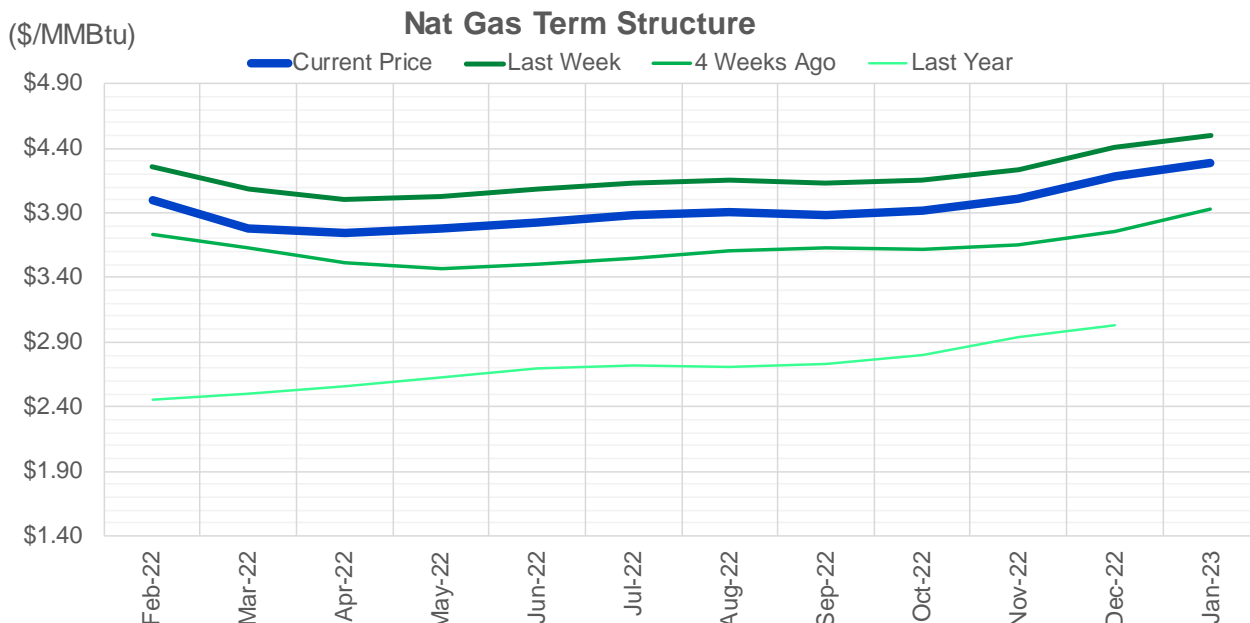
Source: CME, ICE

## Nat Gas Futures Open Interest CME and ICE Combined

ICE Data not updated today

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	22101	28047	-5946	FEB 22	69549	68294	1256
MAR 22	288837	280975	7862	MAR 22	95091	96022	-930
APR 22	84364	82781	1583	APR 22	73245	72692	553
MAY 22	120444	118189	2255	MAY 22	69493	69345	148
JUN 22	63932	62708	1224	JUN 22	61850	61644	206
JUL 22	64225	64290	-65	JUL 22	61119	61055	63
AUG 22	40553	40655	-102	AUG 22	57364	57315	50
SEP 22	51172	50751	421	SEP 22	58886	58772	115
OCT 22	82758	82284	474	OCT 22	62323	62727	-403
NOV 22	36464	36237	227	NOV 22	52782	52625	158
DEC 22	38800	38475	325	DEC 22	63105	63030	75
JAN 23	55548	55671	-123	JAN 23	49652	49524	128
FEB 23	17892	17745	147	FEB 23	40242	40071	170
MAR 23	32267	31109	1158	MAR 23	45132	44931	202
APR 23	33046	32132	914	APR 23	45784	45811	-27
MAY 23	17690	17286	404	MAY 23	38733	38756	-23
JUN 23	11265	11110	155	JUN 23	36619	36540	79
JUL 23	10152	9984	168	JUL 23	36116	36024	92
AUG 23	7162	7074	88	AUG 23	35325	35301	24
SEP 23	9819	9797	22	SEP 23	35442	35353	89
OCT 23	14165	13383	782	OCT 23	39013	38945	69
NOV 23	8847	8863	-16	NOV 23	37867	37841	26
DEC 23	11387	11364	23	DEC 23	33529	33509	19
JAN 24	8622	8601	21	JAN 24	24296	24244	52
FEB 24	1593	1593	0	FEB 24	17833	17819	15
MAR 24	11462	11359	103	MAR 24	23595	23579	16
APR 24	5434	5634	-200	APR 24	16971	16891	80
MAY 24	2077	2077	0	MAY 24	17046	16994	52
JUN 24	924	922	2	JUN 24	17034	17049	-15
JUL 24	565	565	0	JUL 24	17717	17665	52





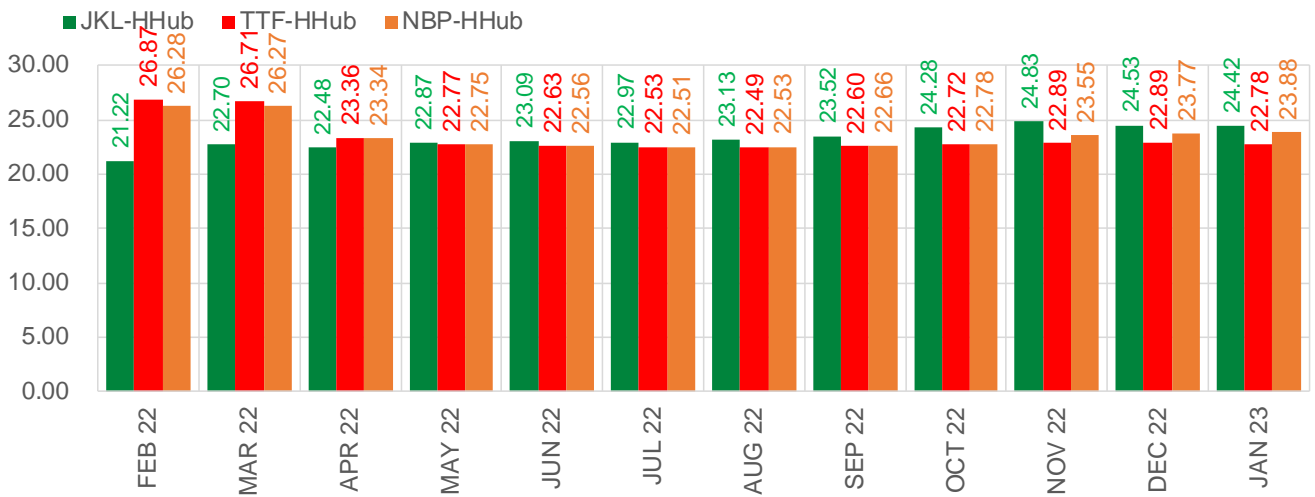
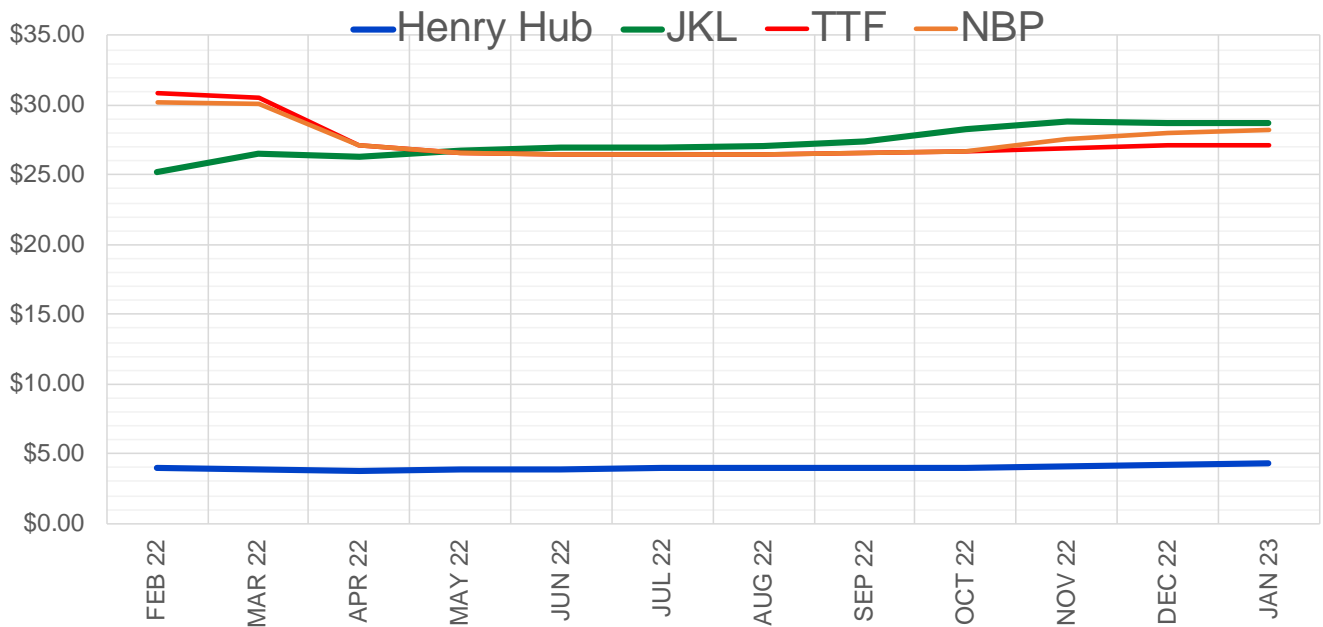
	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
<b>Current Price</b>	<b>\$3.999</b>	<b>\$3.782</b>	<b>\$3.746</b>	<b>\$3.777</b>	<b>\$3.830</b>	<b>\$3.889</b>	<b>\$3.902</b>	<b>\$3.887</b>	<b>\$3.914</b>	<b>\$4.010</b>	<b>\$4.183</b>	<b>\$4.282</b>
Last Week	\$4.262	\$4.081	\$4.007	\$4.030	\$4.080	\$4.137	\$4.150	\$4.131	\$4.153	\$4.239	\$4.406	\$4.502
vs. Last Week	-\$0.263	-\$0.299	-\$0.261	-\$0.253	-\$0.250	-\$0.248	-\$0.248	-\$0.244	-\$0.239	-\$0.229	-\$0.223	-\$0.220
4 Weeks Ago	\$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. 4 Weeks Ago	\$0.268	\$0.152	\$0.232	\$0.308	\$0.330	\$0.337	\$0.293	\$0.260	\$0.297	\$0.359	\$0.429	\$0.347
Last Year	\$2.446	\$2.456	\$2.503	\$2.557	\$2.623	\$2.694	\$2.721	\$2.712	\$2.735	\$2.801	\$2.935	\$3.030
vs. Last Year	\$1.553	\$1.326	\$1.243	\$1.220	\$1.207	\$1.195	\$1.181	\$1.175	\$1.179	\$1.209	\$1.248	\$1.252

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	15.00	19.90	4.90
TETCO M3	\$/MMBtu	6.82	9.16	2.34
FGT Zone 3	\$/MMBtu	6.55	4.38	-2.17
Zone 6 NY	\$/MMBtu	6.55	9.88	3.33
Chicago Citygate	\$/MMBtu	4.25	5.66	1.41
Michcon	\$/MMBtu	4.04	4.17	0.13
Columbia TCO Pool	\$/MMBtu	3.93	3.79	-0.15
Ventura	\$/MMBtu	5.45	7.35	1.90
Rockies/Opal	\$/MMBtu	4.23	5.61	1.38
El Paso Permian Basin	\$/MMBtu	3.72	4.95	1.23
Socal Citygate	\$/MMBtu	4.63	6.10	1.47
Malin	\$/MMBtu	4.35	5.79	1.44
Houston Ship Channel	\$/MMBtu	3.86	4.60	0.74
Henry Hub Cash	\$/MMBtu	4.17	4.26	0.09
AECO Cash	C\$/GJ	3.22	3.73	0.51
Station2 Cash	C\$/GJ	3.28	6.11	2.83
Dawn Cash	C\$/GJ	4.08	4.35	0.27

Source: CME, Bloomberg

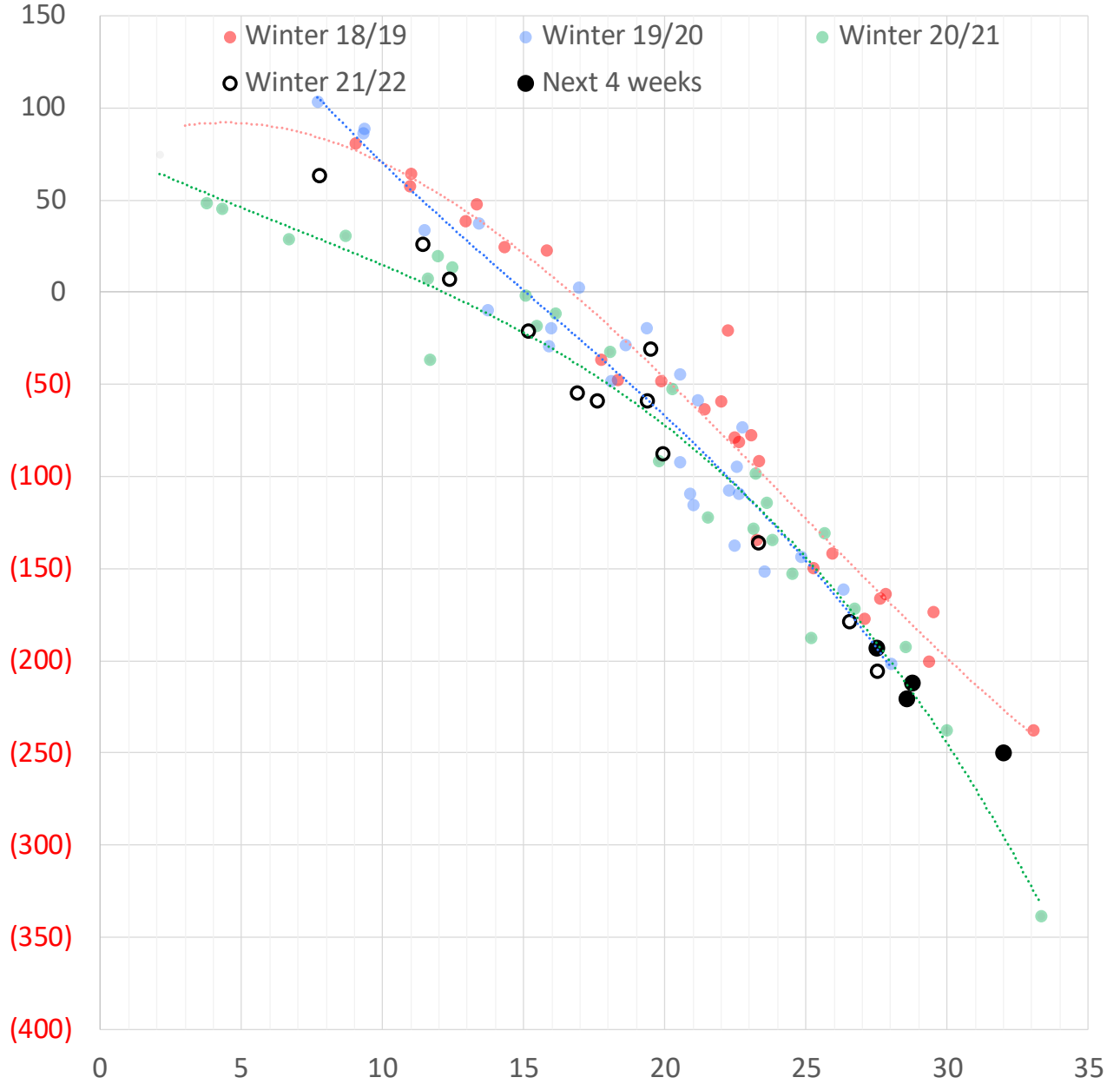
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.192
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.305
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▼ -0.036	▼ -2.089
NatGas Apr22/Oct22	\$/MMBtu	0.157	▲ 0.011	▲ 0.016	▲ 0.126
WTI Crude	\$/Bbl	83.31	▼ -0.510	▲ 7.740	▲ 30.540
Brent Crude	\$/Bbl	86.27	▼ -0.210	▲ 7.670	▲ 30.390
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	262.74	▼ -0.690	▲ 27.390	▲ 103.350
Propane, Mt. Bel	cents/Gallon	1.15	▲ 0.001	▲ 0.114	▲ 0.276
Ethane, Mt. Bel	cents/Gallon	0.37	▲ 0.000	▲ 0.032	▲ 0.134
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>	\$3.974	\$3.827	\$3.800	\$3.839	\$3.886	\$3.946	\$3.959	\$3.941	\$3.965	\$4.061	\$4.233	\$4.330
<b>JKL</b>	\$25.190	\$26.530	\$26.275	\$26.710	\$26.980	\$26.920	\$27.090	\$27.460	\$28.240	\$28.890	\$28.760	\$28.745
<b>JKL-HHub</b>	\$21.216	\$22.703	\$22.475	\$22.871	\$23.094	\$22.974	\$23.131	\$23.519	\$24.275	\$24.829	\$24.527	\$24.415
<b>TTF</b>	\$30.841	\$30.541	\$27.158	\$26.607	\$26.511	\$26.477	\$26.445	\$26.543	\$26.684	\$26.951	\$27.126	\$27.112
<b>TTF-HHub</b>	\$26.867	\$26.714	\$23.358	\$22.768	\$22.625	\$22.531	\$22.486	\$22.602	\$22.719	\$22.890	\$22.893	\$22.782
<b>NBP</b>	\$30.254	\$30.098	\$27.140	\$26.584	\$26.448	\$26.457	\$26.487	\$26.602	\$26.742	\$27.614	\$28.002	\$28.206
<b>NBP-HHub</b>	\$26.280	\$26.271	\$23.340	\$22.745	\$22.562	\$22.511	\$22.528	\$22.661	\$22.777	\$23.553	\$23.769	\$23.876

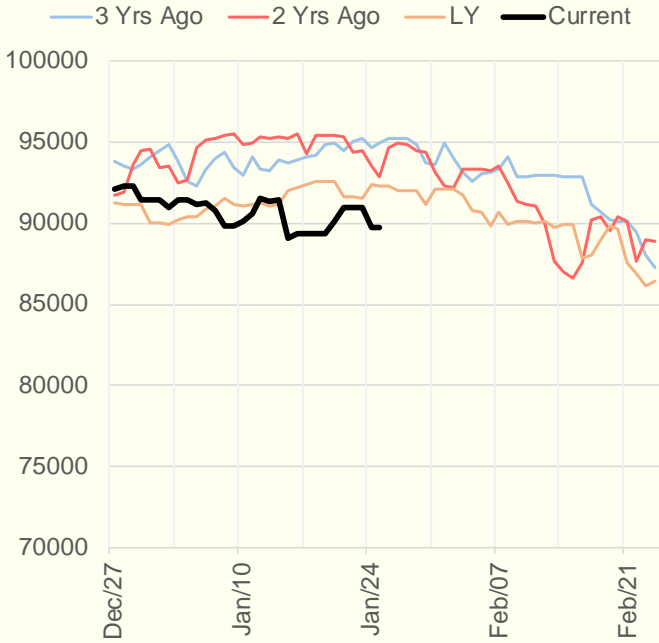
### Weather Storage Model - Next 4 Week Forecast



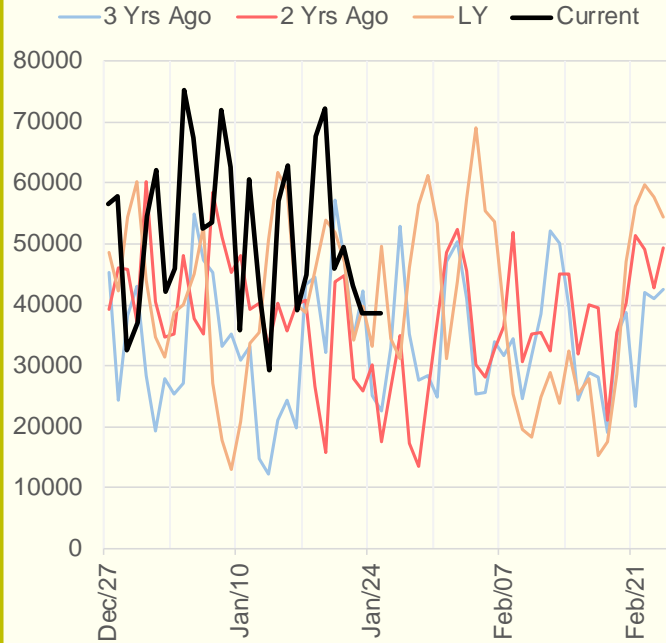
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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



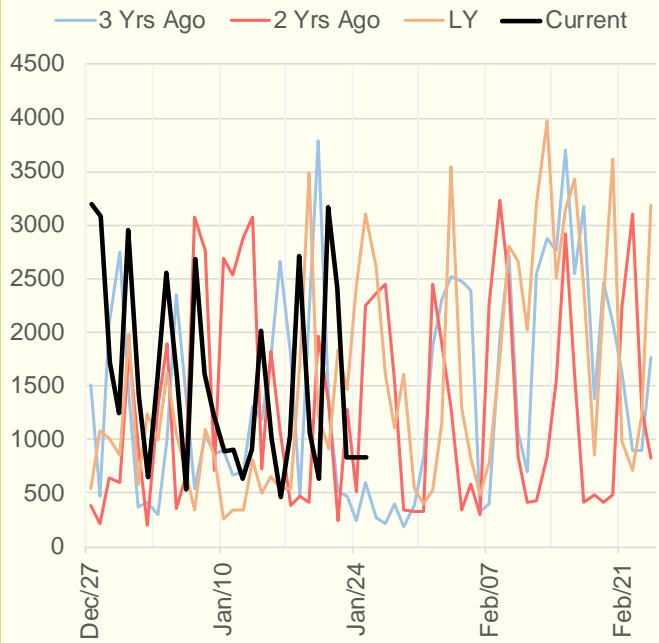
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

