

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 4.77	▼ \$ (0.10)	▲ \$ 0.00

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 87.77	▼ \$ (0.38)	▲ \$ 0.9

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 88.89	▼ \$ (2.32)	▼ \$ (0.9)

### Page Menu

[Short-term Weather Model Outlooks](#)

[Lower 48 Component Models](#)

[Regional S/D Models Storage Projection](#)

[Weather Model Storage Projection](#)

[Supply – Demand Trends](#)

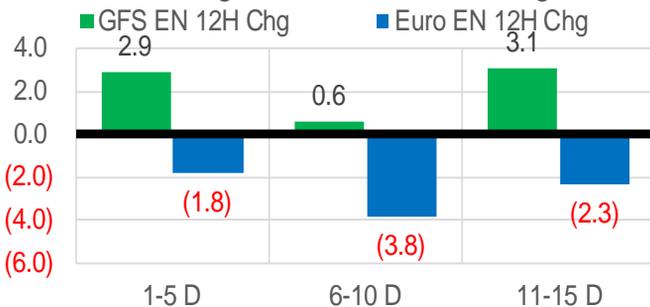
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

[Price Summary](#)

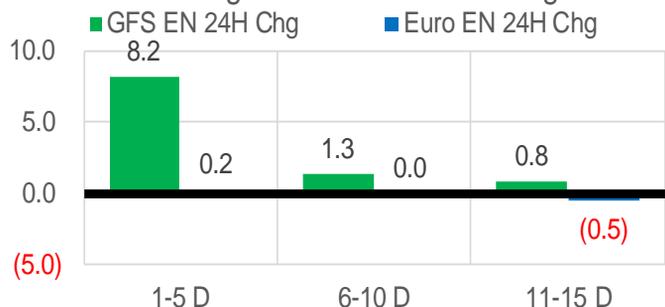
### Vs. 12H Ago

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	93.8	▼ -2.37	▼ -1.68

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	28.6	▼ -0.60	▼ -2.29

	Current	Δ from YD	Δ from 7D Avg
US ResComm	40.5	▼ -6.70	▼ -11.67

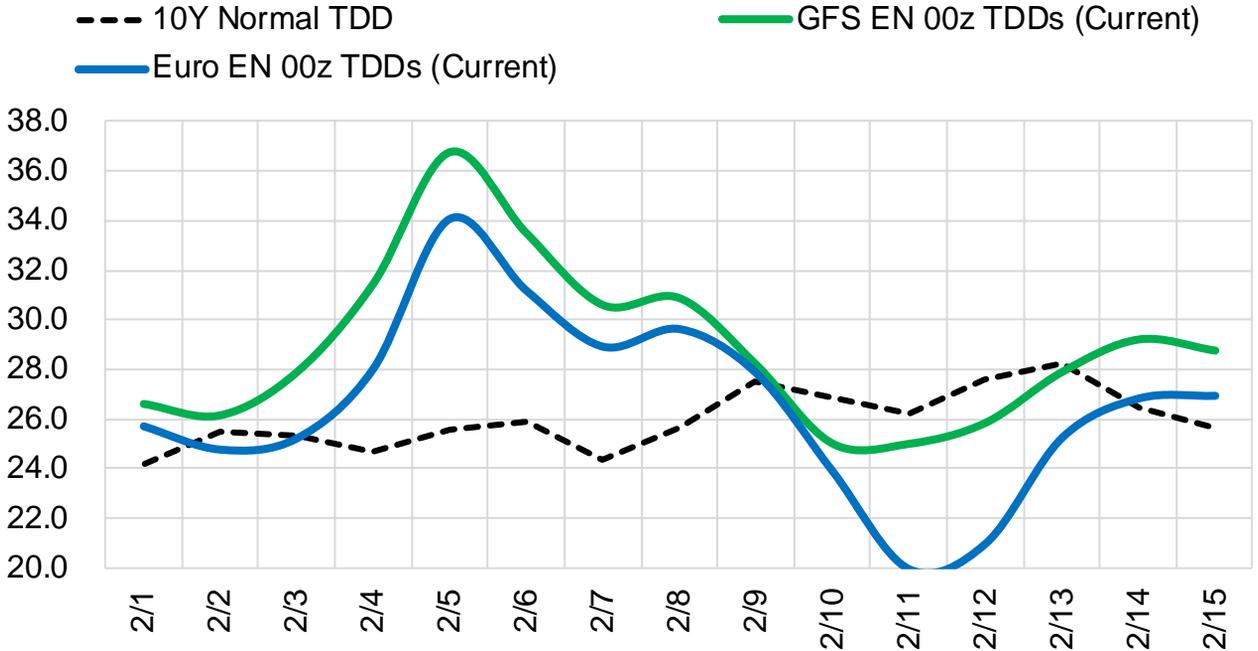
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	7.0	▲ 0.09	▼ -0.06

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	11.5	▲ 0.48	▼ -0.77

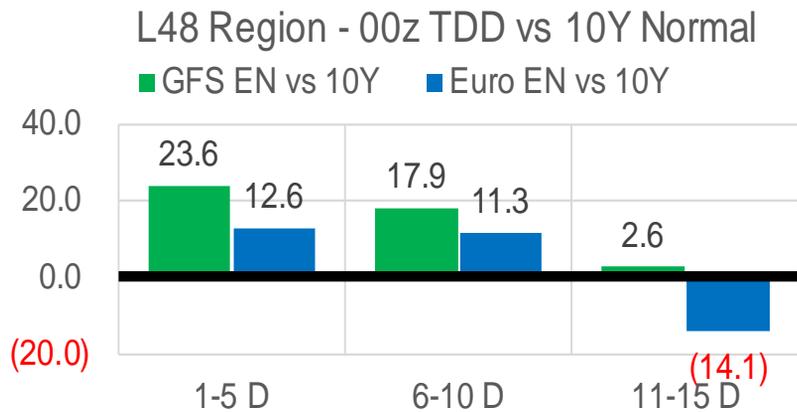
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.3	▼ -0.13	▼ -0.11

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

### L48 Region



## Vs. 10Y Normal



Source: WSI, Bloomberg

## Lower 48 Component Models

### Daily Balances

	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>94.8</b>	<b>94.9</b>	<b>95.7</b>	<b>95.8</b>	<b>96.0</b>	<b>96.2</b>	<b>93.8</b>	▼-2.4	▼-1.7
<b>Canadian Imports</b>	<b>7.3</b>	<b>6.6</b>	<b>7.2</b>	<b>6.9</b>	<b>7.0</b>	<b>6.9</b>	<b>7.0</b>	▲0.1	▼0.0
L48 Power	31.8	30.8	30.9	30.4	30.5	29.2	28.6	▼-0.6	▼-2.0
L48 Residential & Commercial	57.6	51.4	51.5	55.0	50.6	47.2	40.5	▼-6.7	▼-11.7
L48 Industrial	27.5	26.6	27.3	27.8	27.0	26.6	25.8	▼-0.8	▼-1.4
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.2	5.3	5.3	5.1	▼-0.2	▼-0.1
L48 Pipeline Distribution	4.3	4.0	4.0	4.1	3.9	3.7	3.3	▼-0.4	▼-0.7
<b>L48 Regional Gas Consumption</b>	<b>126.4</b>	<b>118.1</b>	<b>119.0</b>	<b>122.6</b>	<b>117.4</b>	<b>111.9</b>	<b>103.2</b>	▼-8.7	▼-16.0
<b>Net LNG Delivered</b>	<b>13.08</b>	<b>12.74</b>	<b>12.43</b>	<b>12.58</b>	<b>11.82</b>	<b>11.18</b>	<b>11.55</b>	▲0.4	▼-0.8
<b>Total Mexican Exports</b>	<b>6.6</b>	<b>6.5</b>	<b>6.3</b>	<b>6.2</b>	<b>6.3</b>	<b>6.5</b>	<b>6.3</b>	▼-0.1	▼-0.1
<b>Implied Daily Storage Activity</b>	<b>-44.0</b>	<b>-35.9</b>	<b>-34.9</b>	<b>-38.6</b>	<b>-32.5</b>	<b>-26.5</b>	<b>-20.3</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	28-Jan	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>96.4</b>	<b>98.3</b>	<b>94.8</b>	<b>94.9</b>	<b>94.6</b>	<b>94.4</b>	▼-0.3	▼-1.3
<b>Canadian Imports</b>	<b>5.0</b>	<b>4.2</b>	<b>5.7</b>	<b>6.5</b>	<b>7.0</b>	<b>7.1</b>	▲0.1	▲1.3
L48 Power	29.9	26.3	29.8	30.4	30.3	32.1	▲1.8	▲2.9
L48 Residential & Commercial	38.3	31.8	42.9	46.3	47.1	52.8	▲5.7	▲10.8
L48 Industrial	25.8	23.6	27.2	26.7	28.0	29.3	▲1.2	▲2.9
L48 Lease and Plant Fuel	5.2	5.3	5.2	5.2	5.2	5.2	▼0.0	▼-0.1
L48 Pipeline Distribution	3.4	2.9	3.5	3.7	3.8	4.1	▲0.4	▲0.6
<b>L48 Regional Gas Consumption</b>	<b>102.7</b>	<b>89.9</b>	<b>108.6</b>	<b>112.3</b>	<b>114.3</b>	<b>123.4</b>	▲9.1	▲17.1
<b>Net LNG Exports</b>	<b>12.7</b>	<b>12.3</b>	<b>11.9</b>	<b>12.3</b>	<b>12.9</b>	<b>12.5</b>	▼-0.4	▲0.2
<b>Total Mexican Exports</b>	<b>6.1</b>	<b>5.8</b>	<b>5.9</b>	<b>6.3</b>	<b>6.4</b>	<b>6.5</b>	▲0.0	▲0.4
<b>Implied Daily Storage Activity</b>	<b>-20.0</b>	<b>-5.5</b>	<b>-25.9</b>	<b>-29.5</b>	<b>-32.0</b>	<b>-40.8</b>	<b>-8.8</b>	
<b>EIA Reported Daily Storage Activity</b>	<b>-19.4</b>	<b>-4.4</b>	<b>-25.6</b>	<b>-29.4</b>	<b>-31.3</b>			
<b>Daily Model Error</b>	<b>-0.6</b>	<b>-1.1</b>	<b>-0.4</b>	<b>-0.1</b>	<b>-0.7</b>			

### Monthly Balances

	2Yr Ago Feb-20	LY Feb-21	Sep-21	Oct-21	Nov-21	Dec-21	MTD Jan-22	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>94.2</b>	<b>84.3</b>	<b>93.4</b>	<b>94.3</b>	<b>95.5</b>	<b>96.7</b>	<b>94.8</b>	▼-2.0	▲10.5
<b>Canadian Imports</b>	<b>5.3</b>	<b>6.4</b>	<b>5.1</b>	<b>5.4</b>	<b>5.3</b>	<b>4.8</b>	<b>6.7</b>	▲2.0	▲0.3
L48 Power	30.2	27.6	33.1	30.5	29.1	28.4	30.7	▲2.3	▲3.1
L48 Residential & Commercial	40.6	48.1	8.8	12.4	27.1	32.6	48.3	▲15.7	▲0.3
L48 Industrial	25.1	21.1	20.1	21.1	24.1	24.9	27.4	▲2.4	▲6.3
L48 Lease and Plant Fuel	5.1	4.6	5.1	5.2	5.2	5.2	5.2	▼-0.1	▲0.6
L48 Pipeline Distribution	3.5	3.6	2.3	2.4	2.9	3.0	3.8	▲0.8	▲0.3
<b>L48 Regional Gas Consumption</b>	<b>104.5</b>	<b>104.9</b>	<b>69.4</b>	<b>71.6</b>	<b>88.6</b>	<b>94.2</b>	<b>115.4</b>	▲21.2	▲10.5
<b>Net LNG Exports</b>	<b>8.5</b>	<b>8.4</b>	<b>10.3</b>	<b>10.6</b>	<b>11.4</b>	<b>12.1</b>	<b>12.4</b>	▲0.3	▲4.0
<b>Total Mexican Exports</b>	<b>5.2</b>	<b>5.7</b>	<b>6.7</b>	<b>6.6</b>	<b>6.1</b>	<b>6.1</b>	<b>6.3</b>	▲0.2	▲0.6
<b>Implied Daily Storage Activity</b>	<b>-18.7</b>	<b>-28.4</b>	<b>12.1</b>	<b>10.9</b>	<b>-5.3</b>	<b>-11.0</b>	<b>-32.7</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)

	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	DoD	vs. 7D
NRC Nuclear Daily Output	89.7	88.5	88.8	89.3	88.9	88.9	88.9	0.0	-0.1
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	15.2	16.4	16.1	15.6	15.9	15.9	15.9	0.0	0.1
NRC % Nuclear Cap Utilization	91.2	90.0	90.3	90.8	90.4	90.4	90.4	0.0	-0.1

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

	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	DoD	vs. 7D
CALI Wind	1298	1612	648	1080	1293	799	1038	239	-83
TEXAS Wind	6789	11708	7315	6744	9646	10115	10315	200	1595
US Wind	49238	41872	41872	49737	40068	48485	37156	-11328	-8055

### Generation Daily Average - MWh (EIA)

	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	DoD	vs. 7D
US Wind	49238	41872	41872	49737	40068	48485	37156	-11328	-8055
US Solar	11061	9342	9527	10633	9530	10247	12155	1908	2098
US Petroleum	5700	5892	5130	5365	5235	5564	6345	781	864
US Other	9614	9470	9845	9365	9516	10082	9660	-423	11
US Coal	122247	128040	134952	132793	133767	135669	134595	-1074	3350
US Nuke	94190	93631	93941	94240	94418	95134	95024	-110	765
US Hydro	34286	32494	33965	34702	33539	32782	31641	-1140	-1987
<b>US Gas</b>	<b>168588</b>	<b>169353</b>	<b>182574</b>	<b>172032</b>	<b>173221</b>	<b>167130</b>	<b>159658</b>	<b>-7472</b>	<b>-12491</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	28-Jan	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	92.1	92.1	91.3	90.6	89.7	89.7	-0.1	0.0
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	12.8	12.8	13.6	14.3	15.1	15.2	0.1	
NRC % Nuclear Cap Utilization	0.1	0.1	0.1	0.1	0.1	0.1	0.0	

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

	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	28-Jan	WoW	WoW Bcf/d Impact
CALI Wind	943	2591	1603	1266	1273	1580	306	-0.1
TEXAS Wind	11007	13891	13603	10192	15630	7185	-8446	1.5
US Wind	48727	53100	57136	50736	55682	44869	-10812	1.9
					4945.7			
					10%			

### Generation Weekly Average - MWh (EIA)

	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	28-Jan	WoW	WoW Bcf/d Impact
US Wind	48727	53100	57136	50736	55682	44869	-10812	1.9
US Solar	7098	6957	8464	9382	8373	9704	1331	-0.2
US Petroleum	3581	3084	3038	4915	5255	5935	680	-0.1
US Other	8532	7584	8301	8319	7992	9405	1413	-0.3
US Coal	87380	80022	94994	115155	117852	130316	12464	-2.2
US Nuke	97422	97083	96342	95714	94644	94647	3	0.0
US Hydro	32560	31279	34583	34191	34393	34077	-316	0.1
<b>US Gas</b>	<b>166457</b>	<b>136071</b>	<b>154295</b>	<b>161867</b>	<b>156254</b>	<b>176819</b>	<b>20565</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	94.6	91.6	75.5	82.7	90.3			
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	10.3	13.2	29.4	22.2	14.6	13.5	14.8	-1.1	1.6
NRC % Nuclear Cap Utilization	96.2	93.2	76.8	84.1	91.8	92.9	91.6	1.1	-1.6

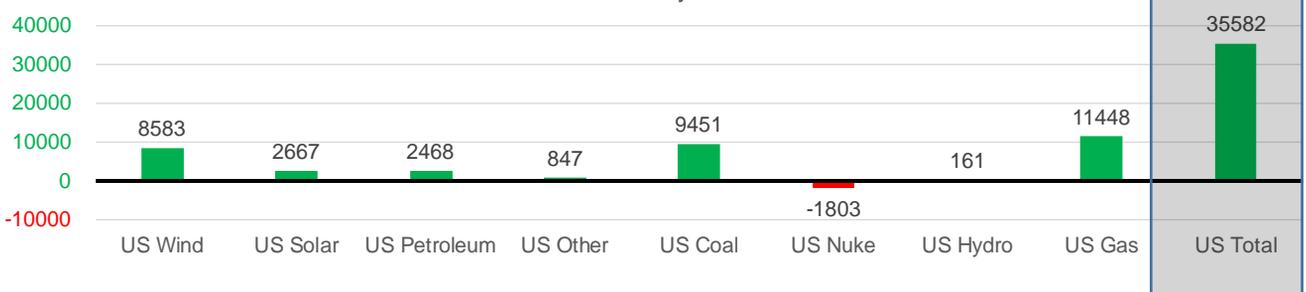
### Wind Generation Monthly Average - MWh (EIA)

	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	1474	1175	1765	1252	1585			
TEXAS Wind	9899	10346	11565	11869	12927	17498	11109	4571	764
US Wind	35473	41425	43141	49974	54821	62109	50008	7288	8583

### 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	35473	41425	43141	49974	54821			
US Solar	5364	6844	11059	9690	7376	8043	9510	▲ 1467.8	▲ 2667
US Petroleum	3678	2741	3239	3045	3134	2303	5209	▲ 2906	▲ 2468
US Other	9261	7941	11110	8435	8214	7703	8788	▲ 1085	▲ 847
US Coal	80897	111435	84432	80848	81683	80332	120886	▲ 40554	▲ 9451
US Nuke	95837	96988	77089	87404	95408	96050	95185	▼ -866	▼ -1803
US Hydro	33158	33884	24078	26593	30805	33666	34045	▲ 379	▲ 161
<b>US Gas</b>	<b>153420</b>	<b>154014</b>	<b>159049</b>	<b>151462</b>	<b>152503</b>	<b>118350</b>	<b>165462</b>	<b>▲ 33426</b>	<b>▲ 11448</b>
<b>US Total</b>	<b>435538</b>	<b>453820</b>	<b>413352</b>	<b>417925</b>	<b>434203</b>	<b>408854</b>	<b>489402</b>	<b>▲ 78953</b>	<b>▲ 35582</b>

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

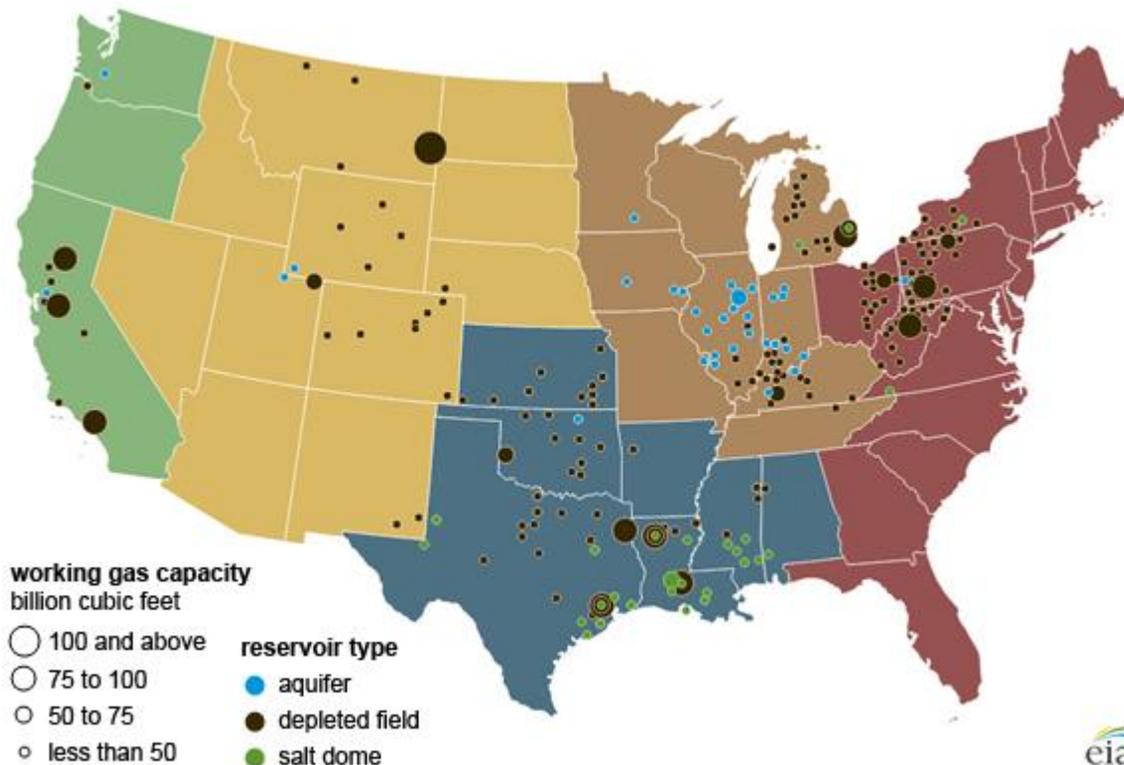
## Regional S/D Models Storage Projection

Week Ending 28-Jan

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-41.0	0.9	-40.1	-281
East	-13.0	1.8	-11.1	-78
Midwest	-11.0	-0.3	-11.3	-79
Mountain	1.5	-3.0	-1.5	-10
South Central	-18.3	2.7	-15.6	-109
Pacific	-0.3	-0.3	-0.6	-5

\*Adjustment Factor is calculated based on historical regional deltas

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

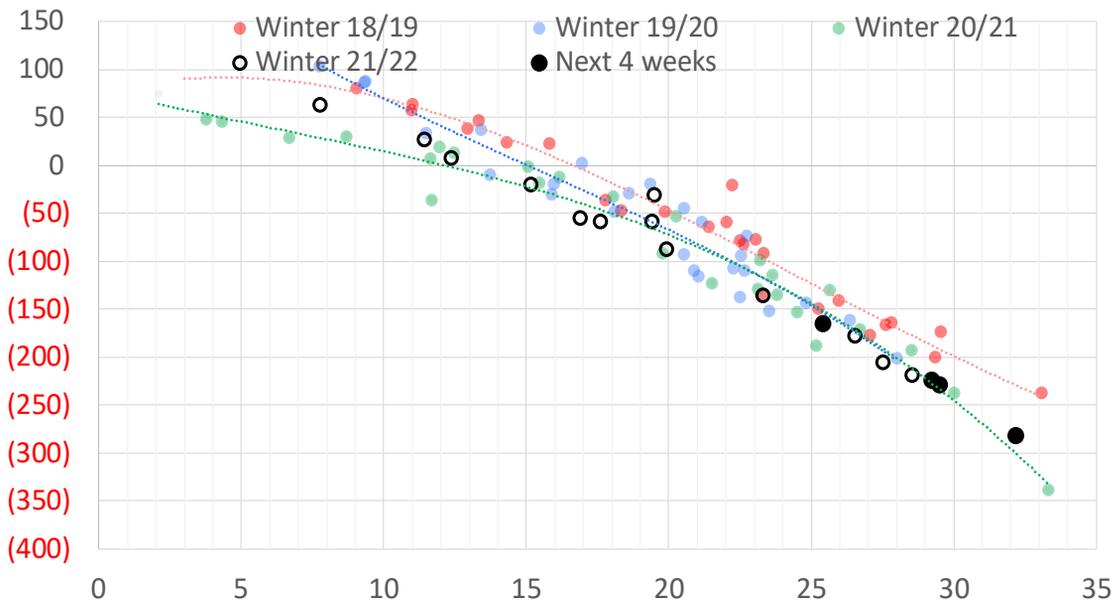


## Weather Model Storage Projection

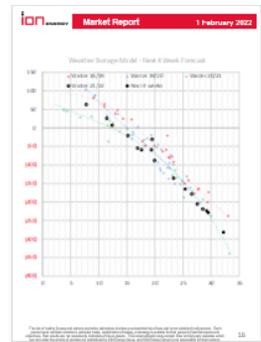
Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
28-Jan	32	-281
04-Feb	29	-223
11-Feb	29	-228
18-Feb	25	-165

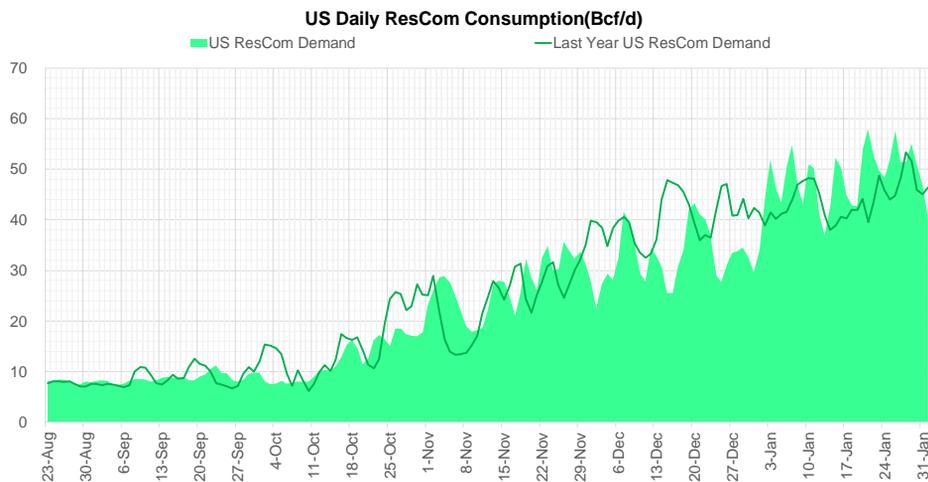
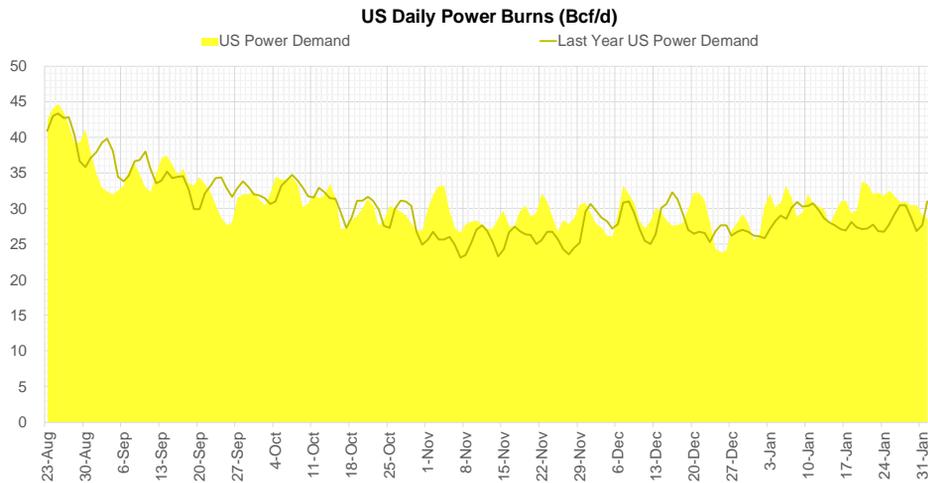
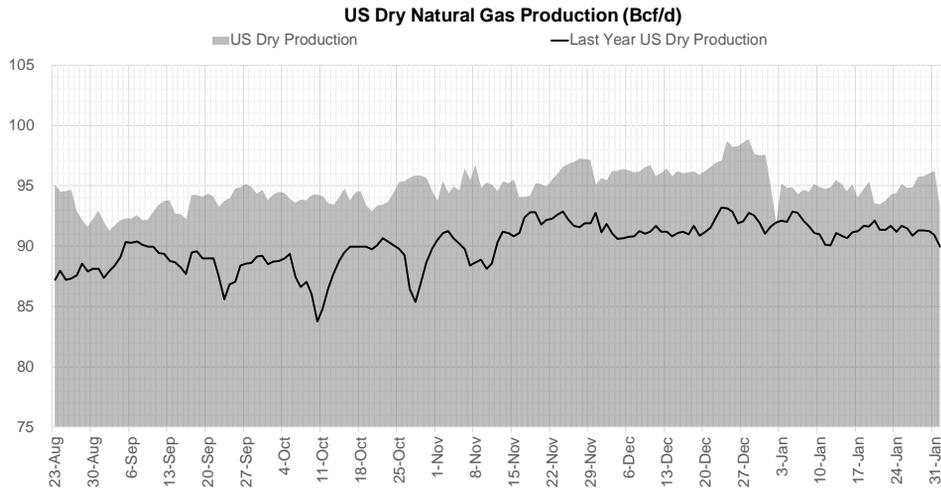
Weather Storage Model - Next 4 Week Forecast



Go to larger image



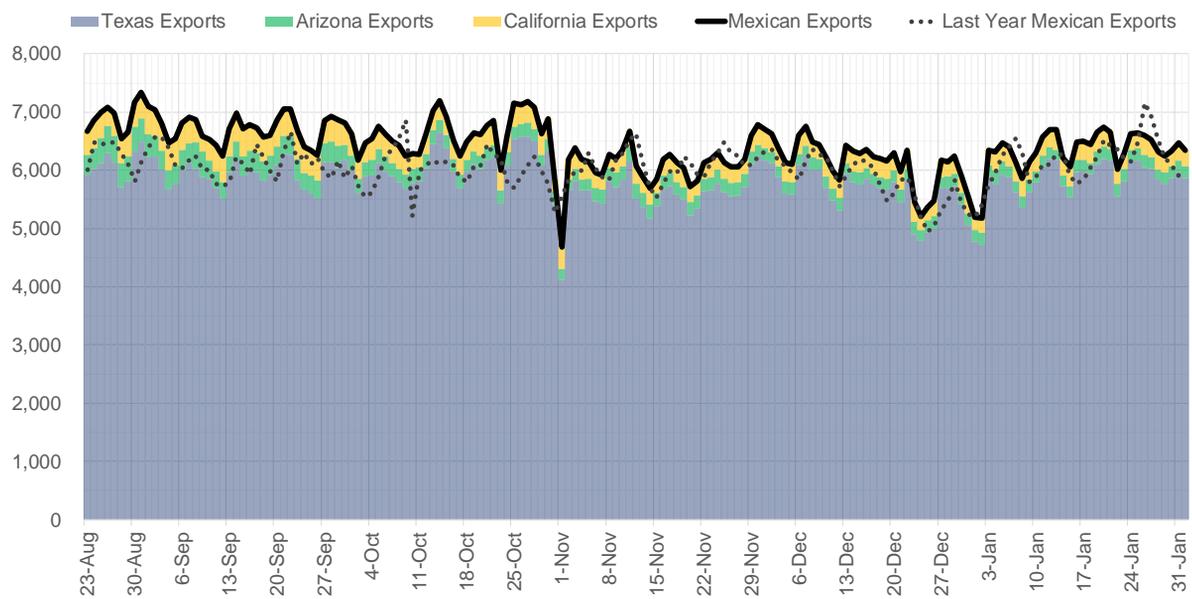
## Supply – Demand Trends



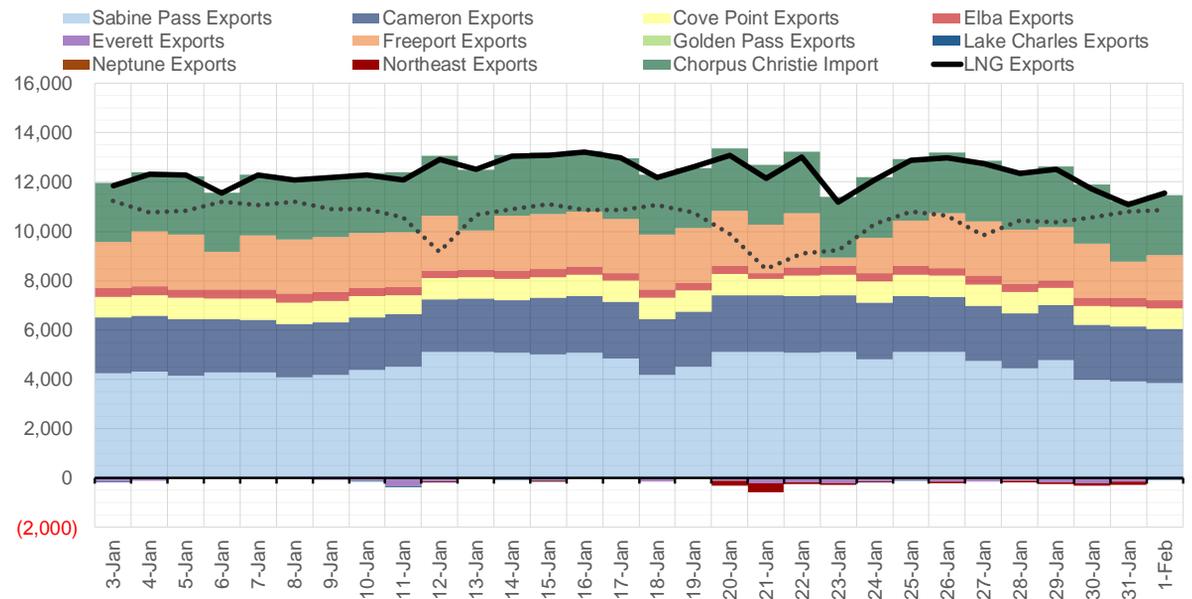
Source: Bloomberg

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

ICE Data not  
updated today

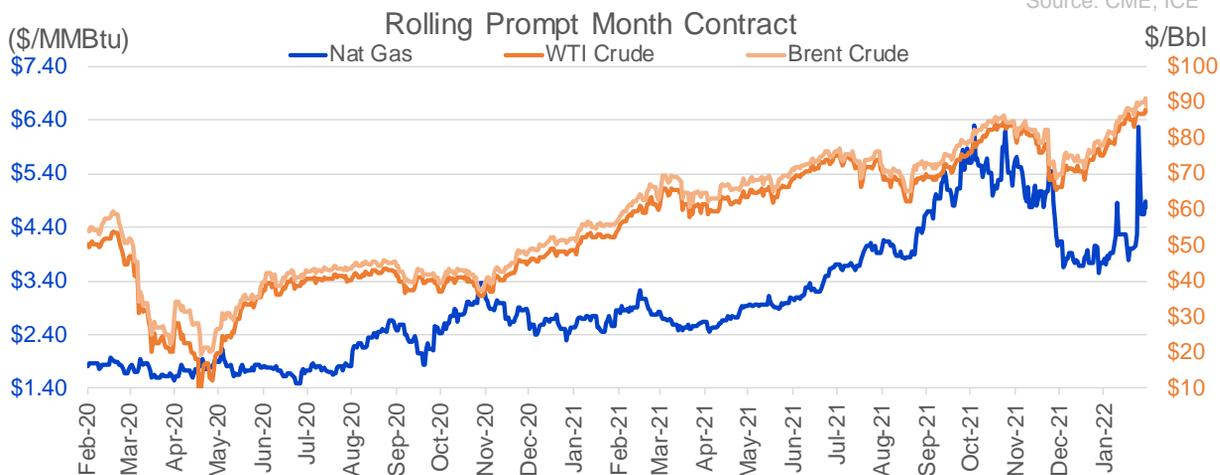
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
3	2022	P	4.50	9041	3	2022	P	3.00	42562
3	2022	P	4.00	7784	3	2022	C	10.00	34427
4	2022	P	4.00	7778	3	2022	C	5.00	34335
6	2022	P	3.00	6101	3	2022	P	3.50	31099
3	2022	P	4.25	5979	3	2022	C	8.00	30019
3	2022	P	3.75	5811	3	2022	P	4.00	28104
3	2022	C	5.00	5331	3	2022	C	6.00	26202
3	2022	C	6.00	5144	3	2022	P	2.50	24084
6	2022	P	4.00	4951	10	2022	C	6.00	23981
5	2022	P	4.00	4057	3	2022	C	4.00	23487
3	2022	P	3.50	3586	3	2022	P	3.75	22550
4	2022	P	3.50	3394	4	2022	P	3.00	20722
5	2023	C	4.50	3280	12	2022	C	5.00	20647
4	2022	P	3.75	2953	3	2022	P	3.25	20302
3	2022	C	7.00	2740	4	2022	C	3.00	19711
6	2022	P	2.75	2600	6	2022	C	5.00	19107
5	2023	C	5.50	2500	5	2022	P	3.00	18945
5	2023	P	2.50	2500	3	2022	C	4.50	17891
3	2022	C	5.75	2456	4	2022	C	5.00	17378
5	2022	C	6.00	2251	4	2022	P	2.50	17370
5	2022	P	3.00	2228	10	2022	C	5.00	17313
6	2022	P	3.25	2200	3	2022	C	7.00	16839
4	2022	C	6.00	2051	5	2022	C	5.00	16767
5	2022	P	2.75	2025	10	2022	P	3.00	15974
4	2022	C	5.00	1842	4	2022	C	6.00	15741
4	2022	P	4.25	1809	6	2022	P	3.00	15353
4	2022	P	3.00	1788	3	2022	P	2.00	14981
6	2022	C	7.00	1788	5	2022	P	3.50	14599
3	2022	C	5.50	1771	3	2022	P	2.75	14562
3	2022	P	4.75	1740	5	2022	P	2.50	14483
4	2022	C	7.00	1730	3	2022	P	4.50	14430
5	2022	C	7.00	1703	4	2022	P	3.50	14420
5	2022	P	4.25	1655	6	2022	C	6.00	13973
3	2022	C	4.50	1501	10	2022	P	2.00	13921
4	2022	C	8.00	1462	4	2022	C	4.00	13918
3	2022	C	5.25	1442	3	2022	P	2.25	13916
3	2022	P	3.00	1404	12	2022	C	4.50	13737
5	2022	P	3.75	1401	5	2022	C	3.00	13733
6	2022	P	4.50	1400	3	2022	P	5.00	13702
6	2022	P	4.25	1351	5	2022	C	6.00	13514
6	2022	C	6.50	1339	9	2022	C	6.00	13483
6	2022	C	6.00	1316	6	2022	C	3.00	13438
3	2022	P	4.10	1162	3	2022	C	5.50	13432
3	2022	P	4.30	1150	3	2022	C	3.50	13351
4	2022	C	5.50	1114	3	2022	C	3.00	13270
4	2022	C	5.25	1102	7	2022	C	3.00	13230
6	2022	P	3.75	1102	8	2022	C	3.00	13226
5	2022	C	5.25	1100	9	2022	C	3.00	13225
6	2022	C	5.25	1100	10	2022	C	3.00	13114
					7	2022	P	3	12849

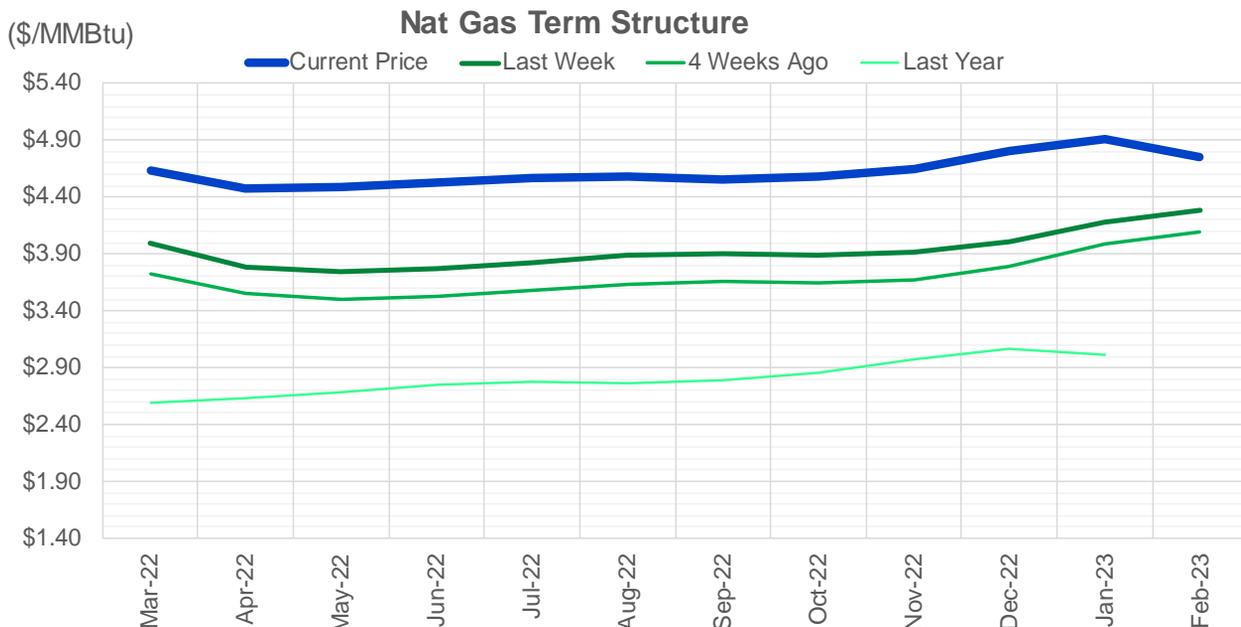
Source: CME, ICE

## 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
MAR 22	268948	274522	-5574	MAR 22	103315	104359	-1045
APR 22	90375	88787	1588	APR 22	77562	77980	-418
MAY 22	130114	125366	4748	MAY 22	73737	72474	1263
JUN 22	65083	63884	1199	JUN 22	66529	64844	1684
JUL 22	67015	66427	588	JUL 22	62461	61712	750
AUG 22	42316	42454	-138	AUG 22	59700	59475	225
SEP 22	52936	53214	-278	SEP 22	60529	60519	10
OCT 22	81618	84225	-2607	OCT 22	65256	65330	-74
NOV 22	36685	36350	335	NOV 22	53980	53811	170
DEC 22	40633	40159	474	DEC 22	62492	62607	-115
JAN 23	56619	57746	-1127	JAN 23	52784	53039	-255
FEB 23	18173	18179	-6	FEB 23	42028	41924	104
MAR 23	33695	33881	-186	MAR 23	46837	46511	326
APR 23	35592	35500	92	APR 23	46563	46474	89
MAY 23	18733	17647	1086	MAY 23	39610	39633	-23
JUN 23	12315	11963	352	JUN 23	37684	37543	142
JUL 23	11381	11290	91	JUL 23	37124	36993	131
AUG 23	7243	7222	21	AUG 23	36200	36142	59
SEP 23	10433	10393	40	SEP 23	36423	36296	127
OCT 23	14618	14243	375	OCT 23	40687	40564	123
NOV 23	9439	9270	169	NOV 23	39441	39605	-164
DEC 23	11298	11158	140	DEC 23	34192	34330	-138
JAN 24	8574	8471	103	JAN 24	24900	24210	690
FEB 24	2164	2090	74	FEB 24	18404	18252	152
MAR 24	11037	11123	-86	MAR 24	24202	24040	163
APR 24	5250	5225	25	APR 24	17588	17498	90
MAY 24	2107	2110	-3	MAY 24	17319	17265	54
JUN 24	978	978	0	JUN 24	17494	17396	98
JUL 24	618	618	0	JUL 24	17883	17822	62
AUG 24	729	729	0	AUG 24	17979	17918	62





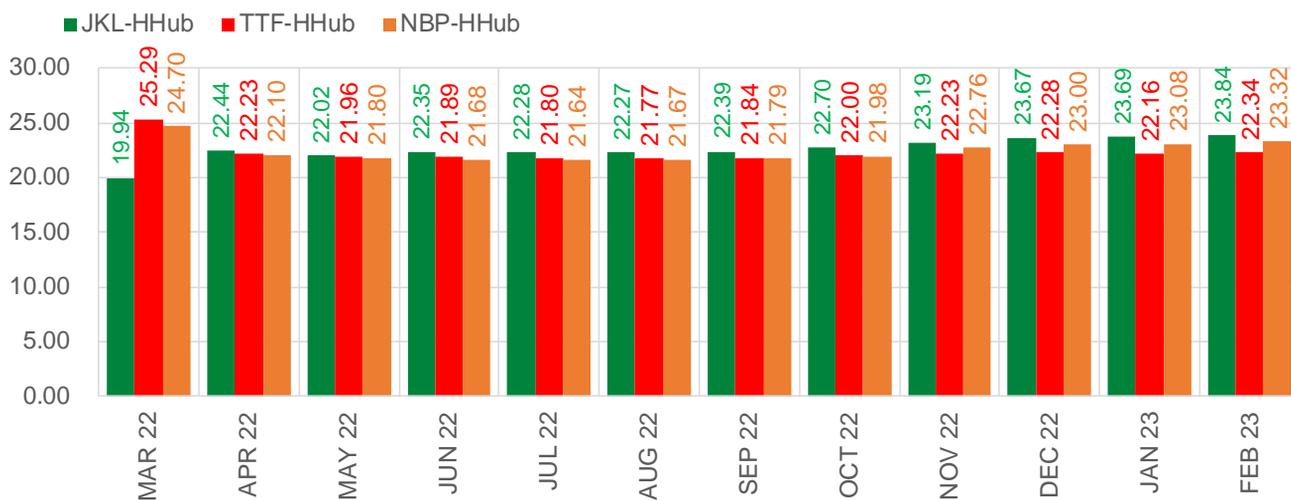
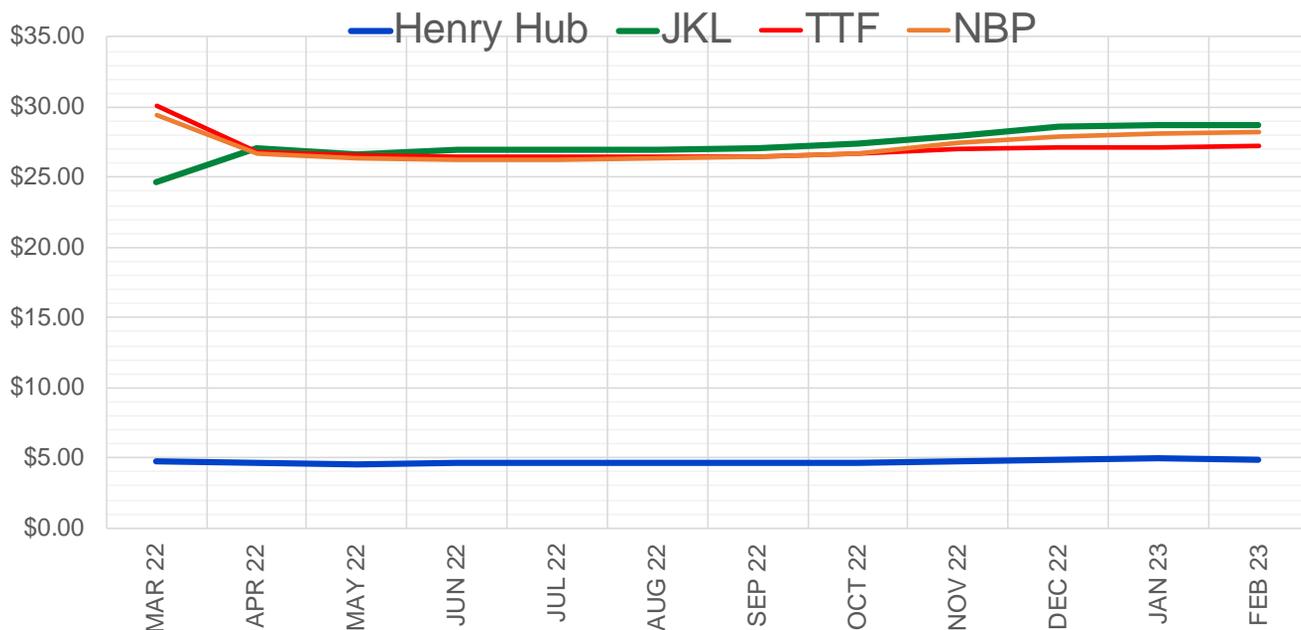
	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23
<b>Current Price</b>	<b>\$4.639</b>	<b>\$4.473</b>	<b>\$4.485</b>	<b>\$4.523</b>	<b>\$4.568</b>	<b>\$4.575</b>	<b>\$4.553</b>	<b>\$4.575</b>	<b>\$4.649</b>	<b>\$4.810</b>	<b>\$4.910</b>	<b>\$4.749</b>
Last Week	\$3.999	\$3.782	\$3.746	\$3.777	\$3.830	\$3.889	\$3.902	\$3.887	\$3.914	\$4.010	\$4.183	\$4.282
vs. Last Week	\$0.640	\$0.691	\$0.739	\$0.746	\$0.738	\$0.686	\$0.651	\$0.688	\$0.735	\$0.800	\$0.727	\$0.467
4 Weeks Ago	\$3.730	\$3.557	\$3.507	\$3.525	\$3.579	\$3.638	\$3.657	\$3.645	\$3.676	\$3.786	\$3.983	\$4.090
vs. 4 Weeks Ago	\$0.909	\$0.916	\$0.978	\$0.998	\$0.989	\$0.937	\$0.896	\$0.930	\$0.973	\$1.024	\$0.927	\$0.659
Last Year	\$2.564	\$2.592	\$2.625	\$2.683	\$2.752	\$2.775	\$2.766	\$2.790	\$2.850	\$2.972	\$3.060	\$3.008
vs. Last Year	\$2.075	\$1.881	\$1.860	\$1.840	\$1.816	\$1.800	\$1.787	\$1.785	\$1.799	\$1.838	\$1.850	\$1.741

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	15.00	16.94	1.94
TETCO M3	\$/MMBtu	6.39	6.86	0.47
FGT Zone 3	\$/MMBtu	19.16	4.12	-15.05
Zone 6 NY	\$/MMBtu	19.16	8.80	-10.36
Chicago Citygate	\$/MMBtu	5.08	4.68	-0.40
Michcon	\$/MMBtu	5.05	3.87	-1.18
Columbia TCO Pool	\$/MMBtu	4.96	3.50	-1.46
Ventura	\$/MMBtu	5.04	5.98	0.94
Rockies/Opal	\$/MMBtu	5.12	4.58	-0.54
El Paso Permian Basin	\$/MMBtu	4.74	4.19	-0.55
Socal Citygate	\$/MMBtu	5.56	5.46	-0.10
Malin	\$/MMBtu	4.67	4.98	0.31
Houston Ship Channel	\$/MMBtu	4.80	4.06	-0.74
Henry Hub Cash	\$/MMBtu	5.56	3.87	-1.69
AECO Cash	C\$/GJ	4.10	3.73	-0.37
Station2 Cash	C\$/GJ	4.22	5.20	0.98
Dawn Cash	C\$/GJ	5.06	4.10	-0.96

Source: CME, Bloomberg

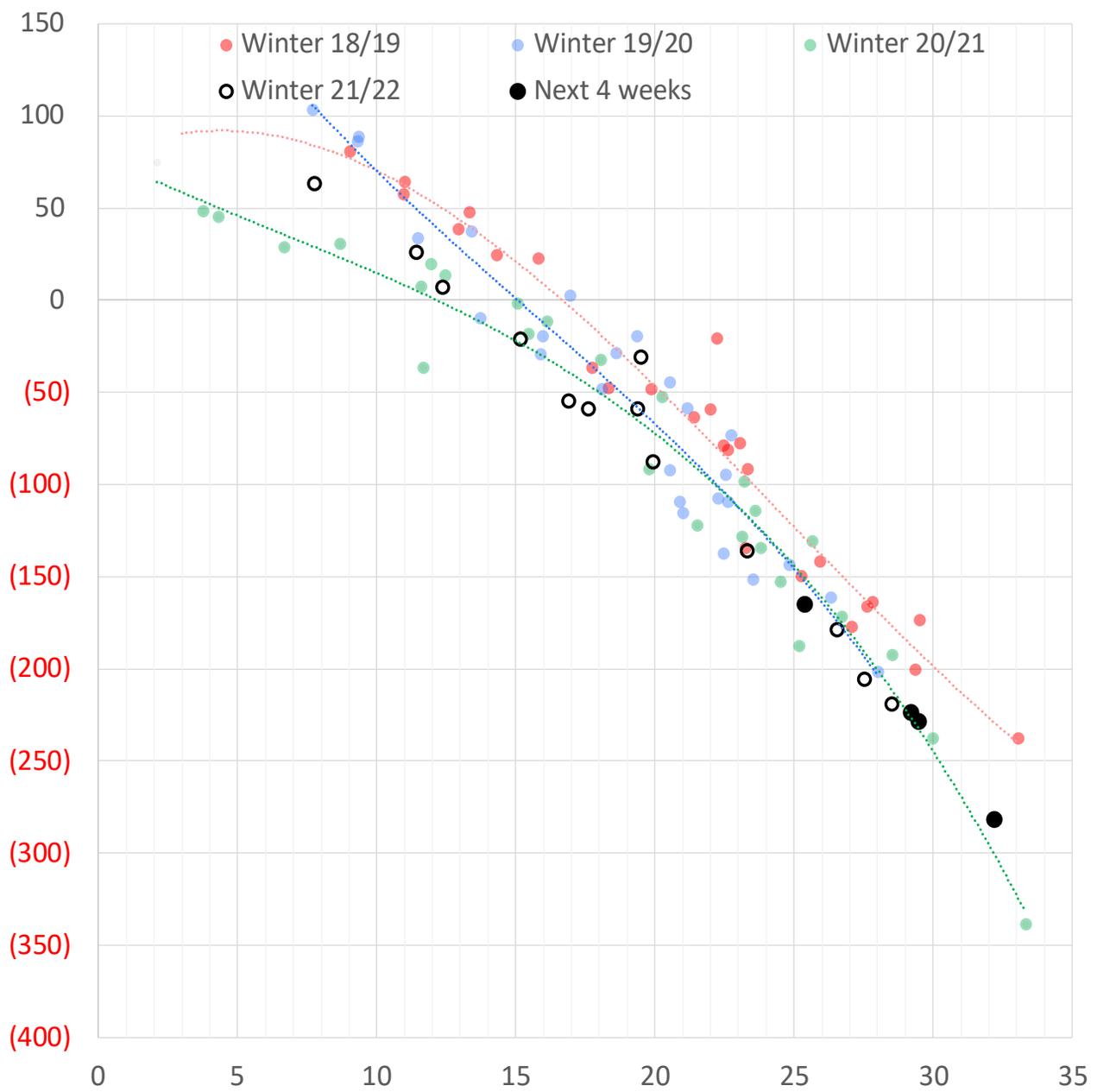
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.202
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.314
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.054
NatGas Apr22/Oct22	\$/MMBtu	0.070	▼ -0.087	▼ -0.090	▲ 0.049
WTI Crude	\$/Bbl	88.15	▲ 4.840	▲ 12.070	▲ 34.600
Brent Crude	\$/Bbl	91.21	▲ 4.940	▲ 12.230	▲ 34.860
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	275.92	▲ 13.180	▲ 40.180	▲ 111.230
Propane, Mt. Bel	cents/Gallon	1.17	▲ 0.019	▲ 0.062	▲ 0.296
Ethane, Mt. Bel	cents/Gallon	0.38	▲ 0.008	▲ 0.038	▲ 0.105
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)



	MAR 22	APR 22	MAY 22	JUN 22	JUL 22	AUG 22	SEP 22	OCT 22	NOV 22	DEC 22	JAN 23	FEB 23
<b>Henry Hub</b>	\$4.773	\$4.594	\$4.588	\$4.613	\$4.659	\$4.668	\$4.650	\$4.669	\$4.752	\$4.908	\$5.013	\$4.855
<b>JKL</b>	\$24.710	\$27.030	\$26.605	\$26.960	\$26.940	\$26.940	\$27.040	\$27.365	\$27.940	\$28.575	\$28.700	\$28.695
<b>JKL-HHub</b>	\$19.937	\$22.436	\$22.017	\$22.347	\$22.281	\$22.272	\$22.390	\$22.696	\$23.188	\$23.667	\$23.687	\$23.840
<b>TTF</b>	\$30.062	\$26.825	\$26.551	\$26.507	\$26.454	\$26.433	\$26.486	\$26.667	\$26.979	\$27.187	\$27.172	\$27.194
<b>TTF-HHub</b>	\$25.289	\$22.231	\$21.963	\$21.894	\$21.795	\$21.765	\$21.836	\$21.998	\$22.227	\$22.279	\$22.159	\$22.339
<b>NBP</b>	\$29.475	\$26.691	\$26.391	\$26.292	\$26.295	\$26.338	\$26.442	\$26.650	\$27.511	\$27.905	\$28.097	\$28.177
<b>NBP-HHub</b>	\$24.702	\$22.097	\$21.803	\$21.679	\$21.636	\$21.670	\$21.792	\$21.981	\$22.759	\$22.997	\$23.084	\$23.322

### Weather Storage Model - Next 4 Week Forecast

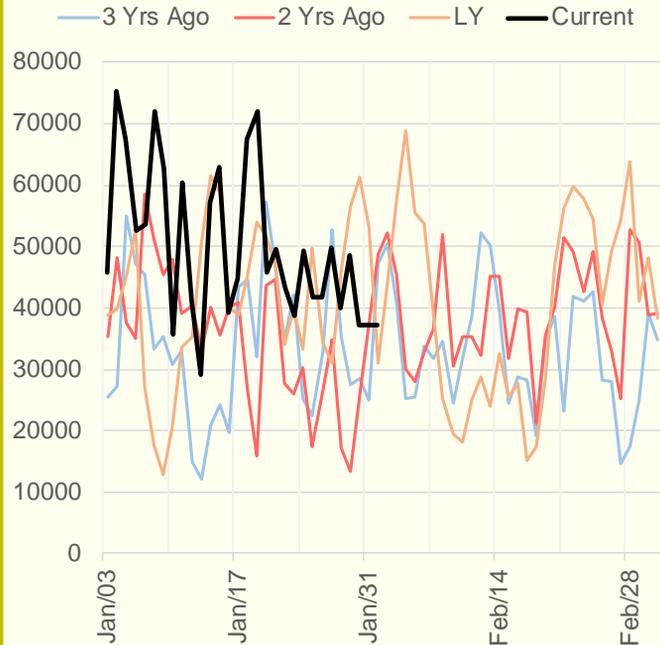


The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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

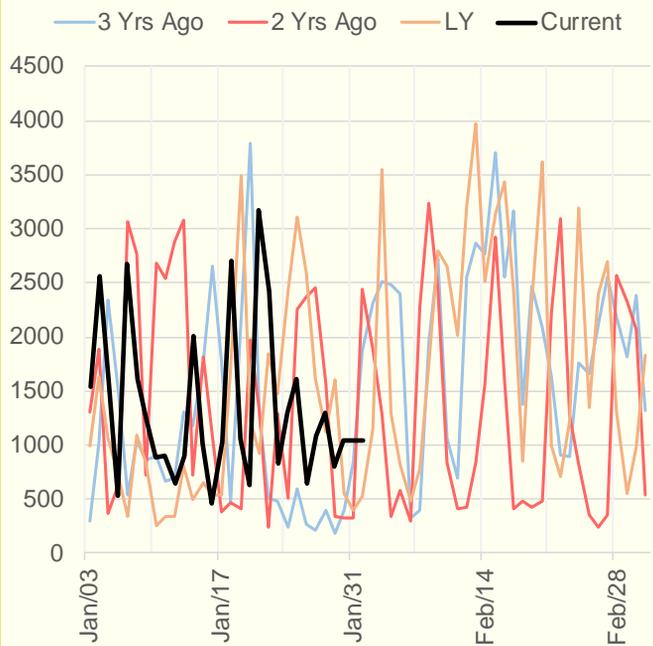
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

