

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 4.34 ▲	\$ 0.14 ▲	\$ 0.31

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 92.48 ▼	\$ (2.98) ▲	\$ 0.5

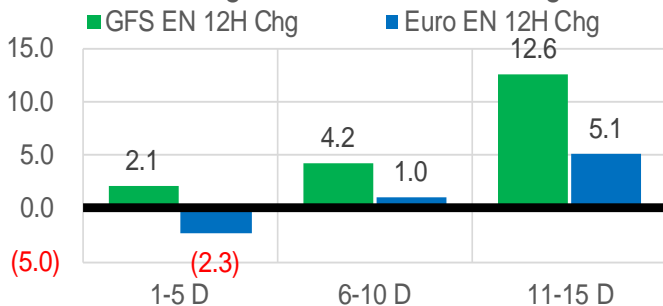
	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 93.76 ▼	\$ (2.72) ▲	\$ 0.4

### 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](#)

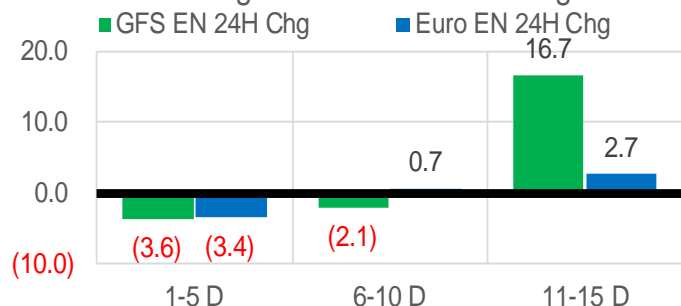
### Vs. 12H Ago

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	96.2 ▼	-0.30 ▲	0.46

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	26.2 ▼	-1.88 ▼	-1.90

	Current	Δ from YD	Δ from 7D Avg
US ResComm	42.9 ▼	-5.82 ▲	2.73

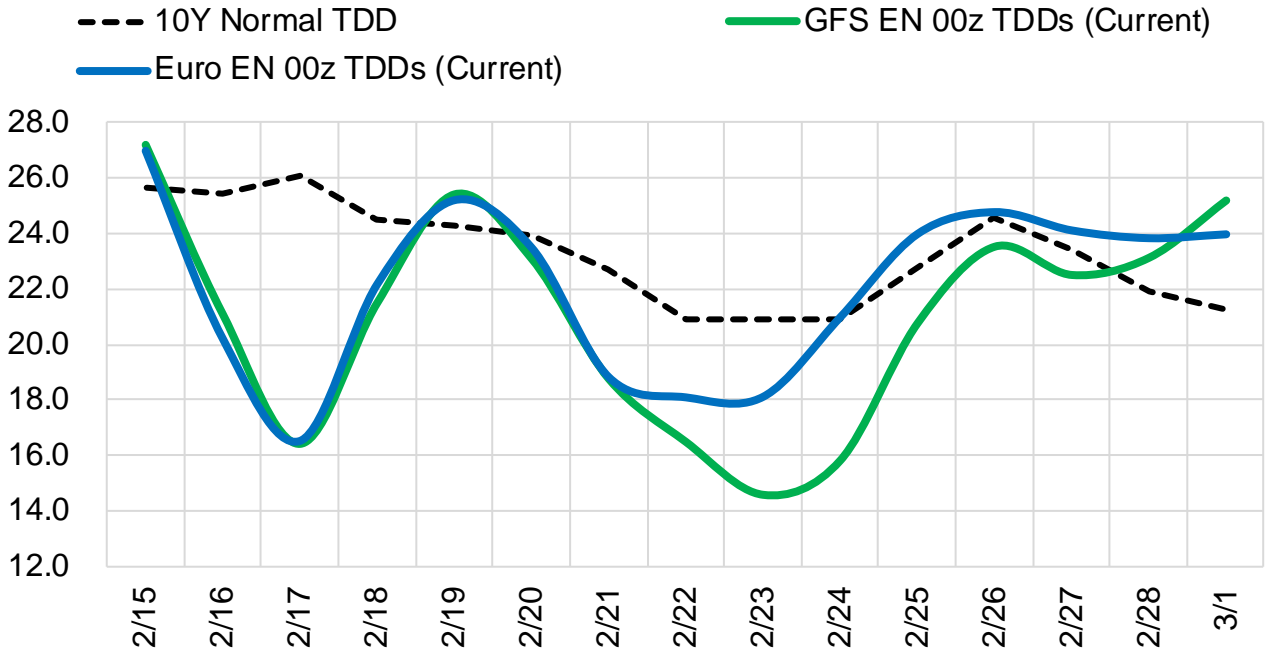
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	6.3 ▼	-0.45 ▲	0.26

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.9 ▲	0.84 ▲	0.39

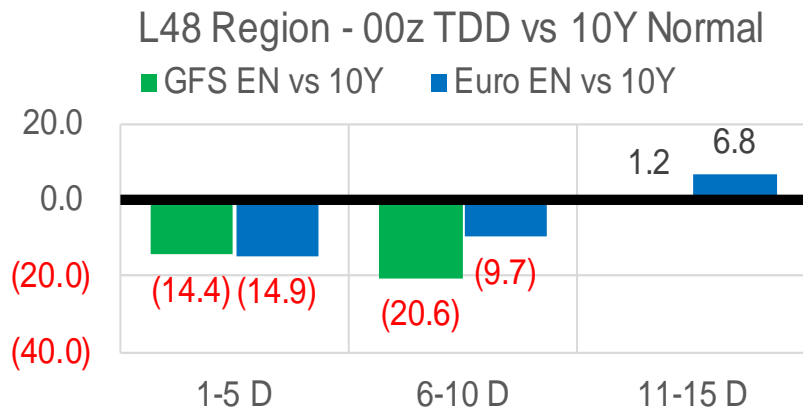
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.3 ▲	0.15 ▲	0.26

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

### L48 Region



## Vs. 10Y Normal



Source: WSI , Bloomberg

## Lower 48 Component Models

### Daily Balances

	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>95.7</b>	<b>96.0</b>	<b>96.3</b>	<b>95.3</b>	<b>95.9</b>	<b>96.5</b>	<b>96.2</b>	▼-0.3	▲ 0.3
<b>Canadian Imports</b>	<b>5.9</b>	<b>5.6</b>	<b>5.8</b>	<b>5.6</b>	<b>6.4</b>	<b>6.7</b>	<b>6.3</b>	▼-0.4	▲ 0.3
L48 Power	28.3	27.0	25.8	28.3	29.7	28.1	26.2	▼-1.9	▼-1.6
L48 Residential & Commercial	36.2	35.1	32.1	39.9	47.8	48.7	42.9	▼-5.8	▲ 2.9
L48 Industrial	24.3	24.7	24.9	26.5	27.4	27.0	25.9	▼-1.1	▲ 0.1
L48 Lease and Plant Fuel	5.2	5.2	5.3	5.2	5.2	5.3	5.2	▼-0.1	▼ 0.0
L48 Pipeline Distribution	3.0	2.9	2.7	3.2	3.7	3.6	3.3	▼-0.4	▲ 0.1
<b>L48 Regional Gas Consumption</b>	<b>97.0</b>	<b>95.0</b>	<b>90.8</b>	<b>103.1</b>	<b>113.7</b>	<b>112.7</b>	<b>103.5</b>	▼-9.2	▲ 1.4
<b>Net LNG Delivered</b>	<b>12.21</b>	<b>12.11</b>	<b>13.15</b>	<b>13.31</b>	<b>13.15</b>	<b>12.34</b>	<b>13.09</b>	▲ 0.8	▲ 0.4
<b>Total Mexican Exports</b>	<b>6.5</b>	<b>6.3</b>	<b>6.2</b>	<b>5.1</b>	<b>5.6</b>	<b>6.1</b>	<b>6.3</b>	▲ 0.1	▲ 0.3
<b>Implied Daily Storage Activity</b>	<b>-14.2</b>	<b>-11.8</b>	<b>-8.1</b>	<b>-20.6</b>	<b>-30.1</b>	<b>-27.9</b>	<b>-20.3</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	7-Jan	14-Jan	21-Jan	28-Jan	4-Feb	11-Feb	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>95.0</b>	<b>95.0</b>	<b>94.7</b>	<b>94.5</b>	<b>94.5</b>	<b>92.1</b>	▼-2.3	▼-2.6
<b>Canadian Imports</b>	<b>5.7</b>	<b>6.5</b>	<b>7.0</b>	<b>7.1</b>	<b>7.1</b>	<b>7.1</b>	▼ 0.0	▲ 0.1
L48 Power	29.8	30.4	30.3	32.1	29.8	29.4	▼-0.4	▼-1.2
L48 Residential & Commercial	42.9	46.3	47.1	52.8	48.2	45.1	▼-3.2	▼-3.5
L48 Industrial	27.3	26.8	28.0	27.6	28.2	25.7	▼-2.5	▼-1.9
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.2	5.2	5.0	▼-0.1	▼-0.1
L48 Pipeline Distribution	3.5	3.7	3.8	4.1	3.7	3.5	▼-0.2	▼-0.3
<b>L48 Regional Gas Consumption</b>	<b>108.7</b>	<b>112.4</b>	<b>114.3</b>	<b>121.7</b>	<b>115.2</b>	<b>108.7</b>	▼-6.5	▼-7.2
<b>Net LNG Exports</b>	<b>11.9</b>	<b>12.3</b>	<b>12.9</b>	<b>12.5</b>	<b>12.1</b>	<b>12.4</b>	▲ 0.3	▼-0.1
<b>Total Mexican Exports</b>	<b>5.9</b>	<b>6.3</b>	<b>6.4</b>	<b>6.5</b>	<b>6.4</b>	<b>6.1</b>	▼-0.3	▼-0.3
<b>Implied Daily Storage Activity</b>	<b>-25.9</b>	<b>-29.5</b>	<b>-32.0</b>	<b>-39.0</b>	<b>-32.1</b>	<b>-28.1</b>	4.0	
<b>EIA Reported Daily Storage Activity</b>	<b>-25.6</b>	<b>-29.4</b>	<b>-31.3</b>	<b>-38.3</b>	<b>-31.7</b>			
<b>Daily Model Error</b>	<b>-0.4</b>	<b>-0.1</b>	<b>-0.7</b>	<b>-0.7</b>	<b>-0.4</b>			

### Monthly Balances

	2Yr Ago Feb-20	LY Feb-21	Oct-21	Nov-21	Dec-21	Jan-22	MTD Feb-22	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>94.2</b>	<b>84.3</b>	<b>94.3</b>	<b>95.6</b>	<b>96.9</b>	<b>94.9</b>	<b>93.2</b>	▼-1.7	▲ 8.9
<b>Canadian Imports</b>	<b>5.3</b>	<b>6.4</b>	<b>5.4</b>	<b>5.3</b>	<b>4.8</b>	<b>6.7</b>	<b>6.8</b>	▲ 0.1	▲ 0.5
L48 Power	30.2	27.6	30.5	29.1	28.4	30.8	28.9	▼-1.8	▲ 1.3
L48 Residential & Commercial	40.6	48.1	12.4	27.1	32.6	48.3	44.1	▼-4.2	▼-4.0
L48 Industrial	25.1	21.1	21.1	24.3	25.1	27.7	26.4	▼-1.3	▲ 5.3
L48 Lease and Plant Fuel	5.1	4.6	5.2	5.2	5.3	5.2	5.1	▼-0.1	▲ 0.5
L48 Pipeline Distribution	3.5	3.6	2.4	2.9	3.0	3.8	3.5	▼-0.4	▼-0.1
<b>L48 Regional Gas Consumption</b>	<b>104.5</b>	<b>104.9</b>	<b>71.6</b>	<b>88.7</b>	<b>94.4</b>	<b>115.8</b>	<b>107.9</b>	▼-7.8	▲ 3.0
<b>Net LNG Exports</b>	<b>8.5</b>	<b>8.4</b>	<b>10.6</b>	<b>11.4</b>	<b>12.1</b>	<b>12.4</b>	<b>12.6</b>	▲ 0.2	▲ 4.1
<b>Total Mexican Exports</b>	<b>5.2</b>	<b>5.7</b>	<b>6.6</b>	<b>6.1</b>	<b>6.1</b>	<b>6.3</b>	<b>6.1</b>	▼-0.3	▲ 0.4
<b>Implied Daily Storage Activity</b>	<b>-18.7</b>	<b>-28.4</b>	<b>10.9</b>	<b>-5.3</b>	<b>-11.0</b>	<b>-32.9</b>	<b>-26.5</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)

	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	DoD	vs. 7D
NRC Nuclear Daily Output	86.4	87.5	87.5	88.3	88.3	87.3	88.5	1.2	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	18.5	17.4	17.4	16.6	16.5	17.6	16.4	-1.2	-0.9
NRC % Nuclear Cap Utilization	87.8	89.0	89.0	89.8	89.8	88.7	89.9	1.2	0.9

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

	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	DoD	vs. 7D
CALI Wind	817	1031	1261	1388	944	850	670	-180	-379
TEXAS Wind	7307	13046	5090	5144	17325	14640	8876	-5764	-1550
US Wind	39786	64605	54050	51981	77936	47784	37941	-9843	-18083

### Generation Daily Average - MWh (EIA)

	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	DoD	vs. 7D
US Wind	39786	64605	54050	51981	77936	47784	37941	-9843	-18083
US Solar	11088	10928	15652	13688	12904	12509	12238	-271	-557
US Petroleum	4074	2771	2598	3129	2496	3904	4463	559	1301
US Other	9701	8813	8753	8514	8516	8220	8950	730	198
US Coal	126101	108382	104059	100612	87447	98758	108719	9961	4492
US Nuke	91440	92438	92960	93477	89932	92619	93651	1032	1506
US Hydro	33282	31406	30321	30768	31584	30524	31713	1188	398
<b>US Gas</b>	<b>170921</b>	<b>158657</b>	<b>156334</b>	<b>151573</b>	<b>126720</b>	<b>133171</b>	<b>152806</b>	<b>19635</b>	<b>3243</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	7-Jan	14-Jan	21-Jan	28-Jan	4-Feb	11-Feb	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	91.3	90.6	89.7	89.7	89.5	87.6	-1.9	0.3
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	13.6	14.3	15.1	15.2	15.4	17.3	1.9	
NRC % Nuclear Cap Utilization	0.1	0.1	0.1	0.1	0.1	0.1	0.0	

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

	7-Jan	14-Jan	21-Jan	28-Jan	4-Feb	11-Feb	WoW	WoW Bcf/d Impact
CALI Wind	1603	1266	1273	1580	1627	1156	-471	0.1
TEXAS Wind	13603	10192	15630	7185	12223	9259	-2964	0.5
US Wind	57109	50716	55686	45244	53914	53945	31	0.0
					8670.0			
					19%			

### Generation Weekly Average - MWh (EIA)

	7-Jan	14-Jan	21-Jan	28-Jan	4-Feb	11-Feb	WoW	WoW Bcf/d Impact
						est.		
US Wind	57109	50716	55686	45244	53914	53945	31	0.0
US Solar	8468	9389	8609	10087	10457	12347	1890	-0.3
US Petroleum	3038	4915	5260	5993	4672	3554	-1119	0.2
US Other	8303	8254	8109	9663	9656	9214	-442	0.1
US Coal	94949	115096	117880	130576	124851	113851	-11000	2.0
US Nuke	96362	95713	94657	94693	94661	92641	-2020	0.4
US Hydro	34608	34200	34490	34128	31800	32160	359	-0.1
<b>US Gas</b>	<b>154375</b>	<b>161930</b>	<b>156870</b>	<b>177830</b>	<b>159397</b>	<b>161904</b>	<b>2506</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	Nov-21	Dec-21	Jan-22	Feb-22			
NRC Nuclear Daily Output	92.9	91.3	82.8	90.3	90.2	88.1	88.9	-2.0	-2.4
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	12.0	13.6	22.0	14.6	14.7	16.7	16.0	2.0	2.4
NRC % Nuclear Cap Utilization	94.5	92.9	84.2	91.8	91.7	89.6	90.4	-2.1	-2.5

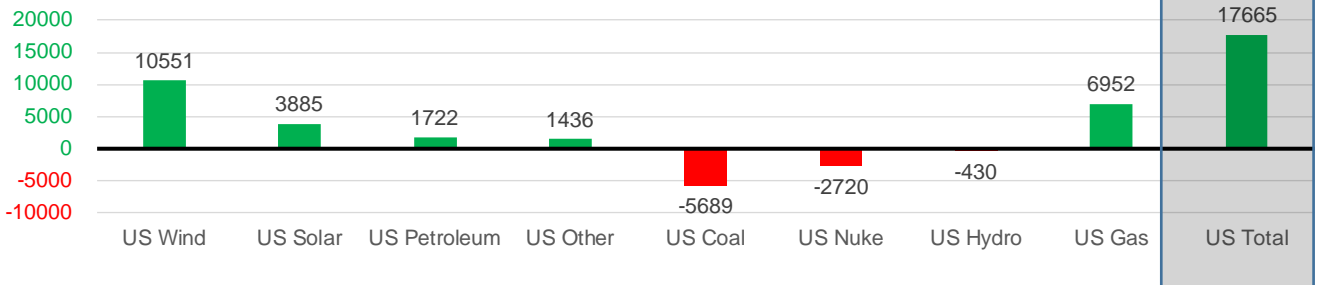
### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD				Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Nov-21	Dec-21	Jan-22	Feb-22			
CALI Wind	1267	1842	1224	1585	1364	1206	1326	-158	-517
TEXAS Wind	9262	9828	11678	12927	11355	11290	10790	-65	962
US Wind	33648	40842	49838	54810	51165	54353	51393	3188	10551

### 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	Nov-21	Dec-21	Jan-22	Feb-22			
US Wind	33648	40842	49838	54810	51165	54353	51393	▼-2960.0	▲10551
US Solar	6017	7082	9688	7376	9476	11874	10966	▼-907.4	▲3885
US Petroleum	3577	2911	3022	3135	5021	3593	4633	▲1040	▲1722
US Other	8091	7832	8445	8222	8792	9049	9268	▲219	▲1436
US Coal	81883	124923	80906	81617	118026	110153	119234	▲9081	▼-5689
US Nuke	94004	96575	87558	95449	95259	93011	93855	▲845	▼-2720
US Hydro	35647	33159	26649	30826	34107	31730	32728	▲998	▼-430
<b>US Gas</b>	<b>164975</b>	<b>154738</b>	<b>151991</b>	<b>152627</b>	<b>164025</b>	<b>153889</b>	<b>161690</b>	<b>▲8316</b>	<b>▲6952</b>
<b>US Total</b>	<b>436090</b>	<b>466375</b>	<b>418455</b>	<b>434177</b>	<b>485994</b>	<b>468048</b>	<b>484040</b>	<b>▲19592</b>	<b>▲17665</b>

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Regional S/D Models Storage Projection

Week Ending 11-Feb

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-28.1	0.7	-27.4	-192
East	-8.4	2.3	-6.1	-43
Midwest	-8.2	-0.3	-8.5	-60
Mountain	2.3	-3.3	-1.0	-7
South Central	-13.8	2.6	-11.2	-78
Pacific	0.0	-0.6	-0.6	-4

\*Adjustment Factor is calculated based on historical regional deltas

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

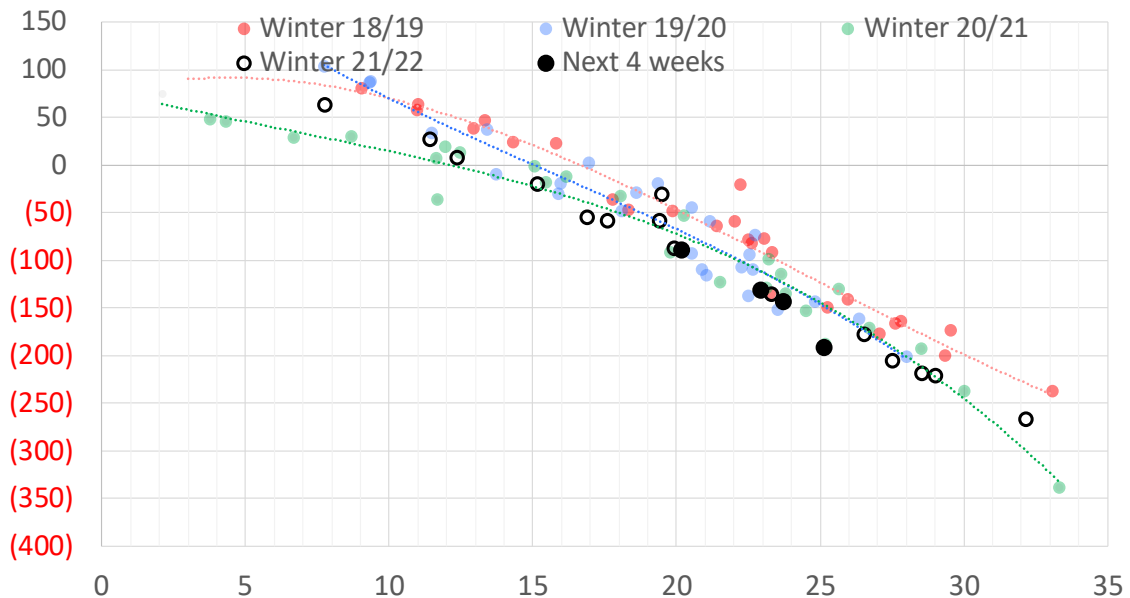


## Weather Model Storage Projection

Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
11-Feb	25	-192
18-Feb	23	-131
25-Feb	20	-88
04-Mar	24	-142

Weather Storage Model - Next 4 Week Forecast

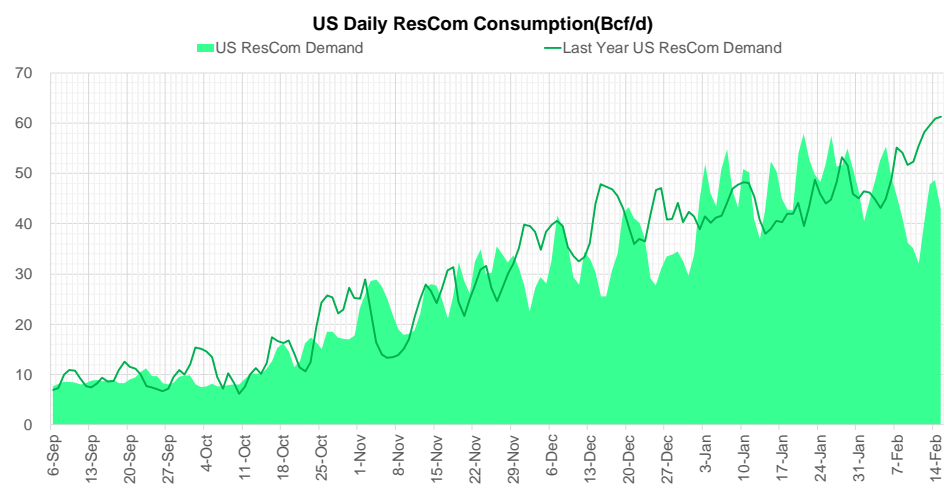
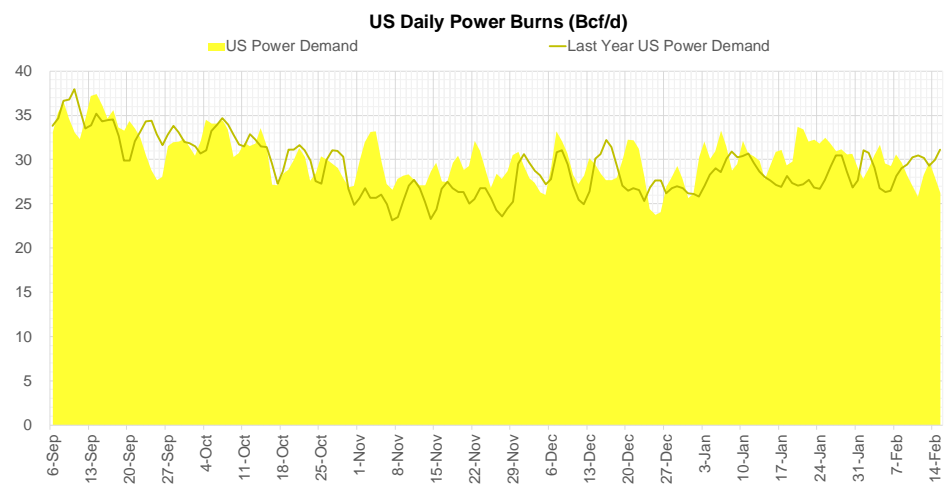
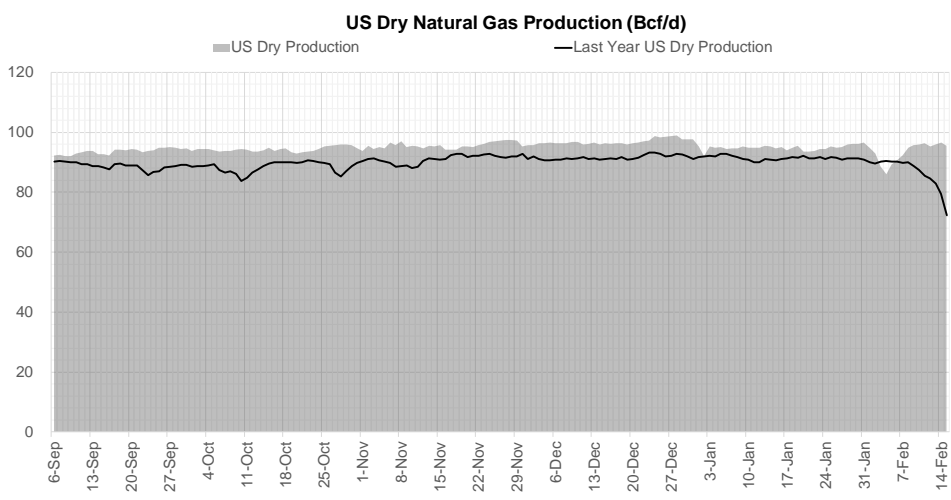


Go to larger image



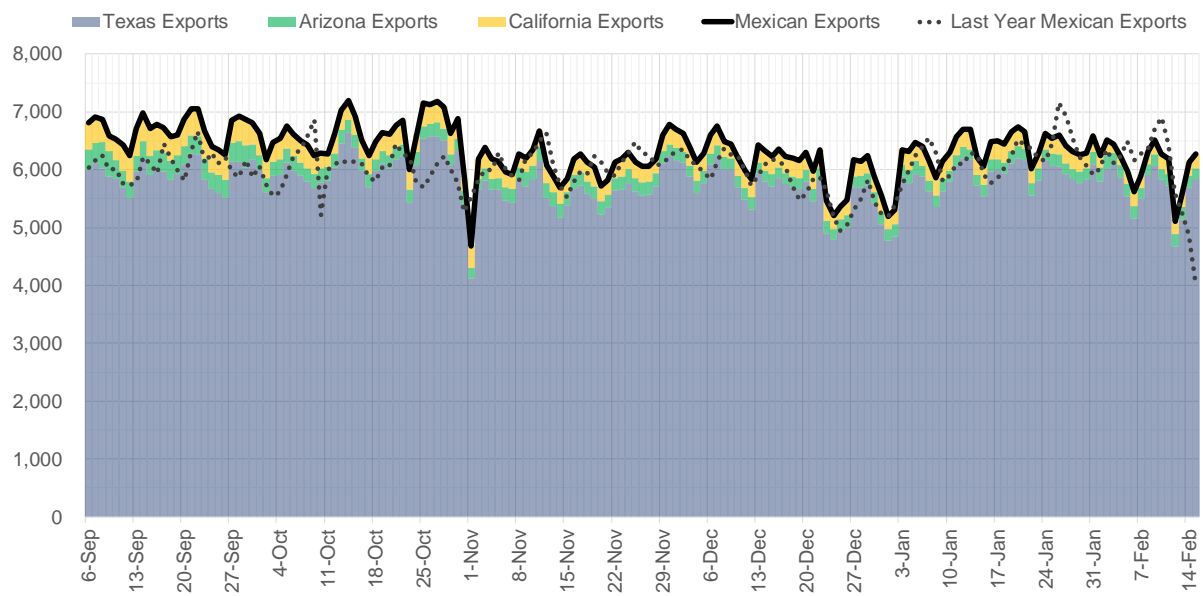


## Supply – Demand Trends

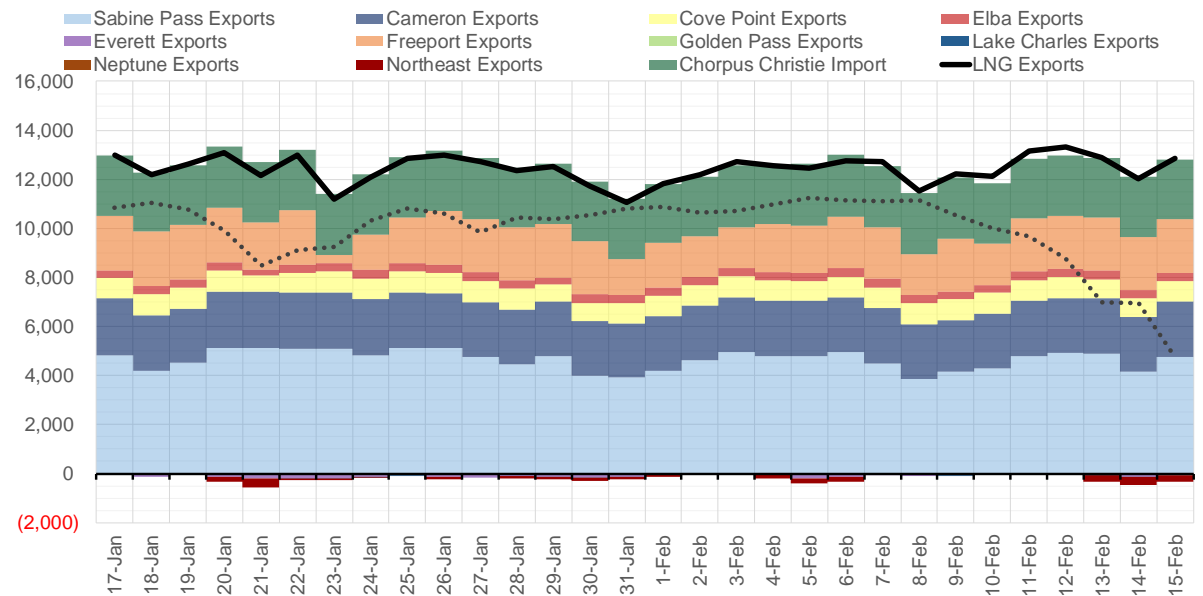


Source: Bloomberg

### 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

ICE Data not  
updated today

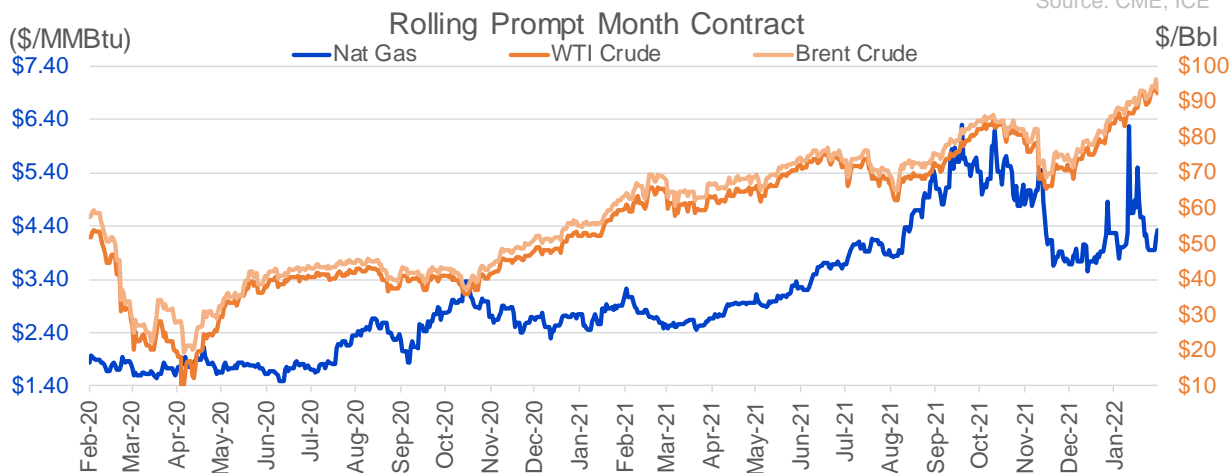
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
4	2022	C	5.00	9811	3	2022	P	3.00	45629
3	2022	P	4.00	7184	3	2022	C	10.00	41931
10	2022	C	7.00	6063	3	2022	P	4.00	37020
3	2022	C	5.00	5990	3	2022	P	3.50	33190
3	2022	P	3.90	5948	3	2022	C	5.00	31730
3	2022	P	3.75	5607	3	2022	C	6.00	27912
3	2022	C	4.50	4455	3	2022	C	8.00	25909
4	2022	C	5.50	4454	10	2022	C	6.00	25692
6	2022	C	5.00	4404	4	2022	C	5.00	24511
4	2022	P	3.50	4267	4	2022	P	3.00	24306
10	2022	C	5.00	3724	3	2022	P	2.50	24084
6	2022	C	7.00	3702	3	2022	C	4.50	23975
7	2022	C	7.00	3627	3	2022	C	4.00	23307
8	2022	C	7.00	3447	3	2022	P	3.75	22980
5	2022	C	7.00	3429	3	2022	P	4.50	22547
4	2022	C	7.00	3374	10	2022	C	5.00	22008
9	2022	C	7.00	3368	5	2022	P	3.00	21451
3	2022	P	3.50	3168	4	2022	P	3.50	21436
7	2022	C	6.00	2862	3	2022	C	7.00	20796
8	2022	C	6.00	2786	3	2022	P	3.25	20667
4	2022	P	2.75	2775	6	2022	C	5.00	20425
1	2023	C	6.00	2750	5	2022	P	2.50	20027
4	2022	C	6.00	2674	6	2022	C	6.00	19685
4	2022	C	4.75	2642	5	2022	C	5.00	19399
1	2023	C	5.00	2500	4	2022	C	4.50	18906
1	2023	P	2.75	2500	3	2022	P	3.90	17996
4	2022	C	4.50	2443	4	2022	C	3.00	17511
5	2022	C	5.00	2346	5	2022	P	2.75	17499
5	2022	P	3.50	2335	4	2022	P	2.50	17143
9	2022	C	6.00	2049	6	2022	P	3.00	16815
10	2022	C	4.50	2000	4	2022	C	6.00	16346
4	2022	P	4.00	1945	12	2022	C	5.00	16269
10	2022	C	6.00	1819	10	2022	P	3.00	15855
4	2022	P	3.00	1727	3	2022	C	5.50	15618
7	2022	C	5.00	1705	3	2022	C	4.25	15458
3	2022	C	4.25	1686	4	2022	P	4.00	15437
5	2022	C	6.00	1676	3	2022	P	5.00	15413
11	2022	C	5.00	1600	7	2022	P	3.25	15321
3	2022	C	6.00	1598	3	2022	P	2.00	14981
4	2022	P	3.75	1524	5	2022	C	6.00	14939
8	2022	C	5.00	1480	5	2022	P	3.50	14861
6	2022	C	6.00	1475	4	2022	C	4.00	14604
2	2023	C	8.00	1425	9	2022	C	6.00	14474
3	2023	C	8.00	1425	10	2022	P	2.00	13921
7	2022	C	8.00	1421	3	2022	P	2.25	13916
7	2022	P	3.25	1400	6	2022	C	4.50	13897
3	2022	C	4.75	1371	5	2022	C	3.00	13733
4	2022	P	3.05	1311	4	2022	C	4.75	13643
3	2022	P	3.80	1296	3	2022	P	2.75	13591
					4	2022	C	5.5	13549

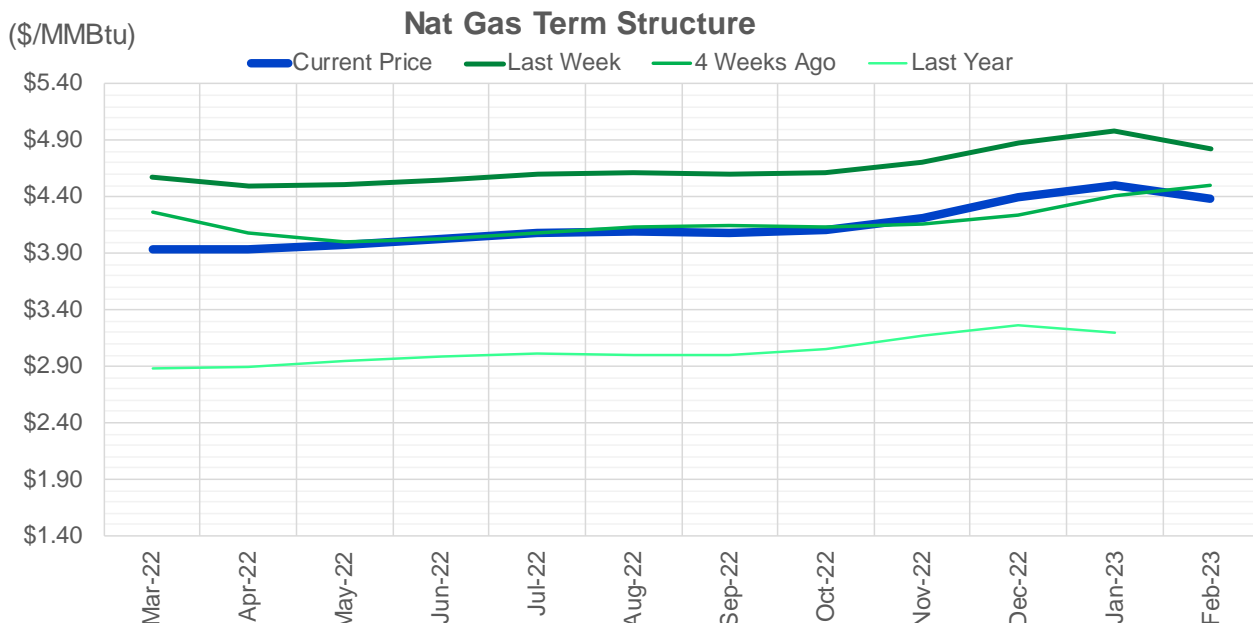
Source: CME, ICE

## 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	64071	76060	-11989	MAR 22	79904	83325	-3421
APR 22	124266	118710	5556	APR 22	83745	84163	-418
MAY 22	179574	178725	849	MAY 22	79713	78935	778
JUN 22	71358	69814	1544	JUN 22	71080	71363	-283
JUL 22	79365	78635	730	JUL 22	66307	66279	28
AUG 22	42586	42090	496	AUG 22	60511	60303	208
SEP 22	65110	63954	1156	SEP 22	60935	60441	494
OCT 22	73229	71027	2202	OCT 22	68327	68301	26
NOV 22	41912	41175	737	NOV 22	54686	54714	-28
DEC 22	40529	40192	337	DEC 22	64069	63626	443
JAN 23	54992	53228	1764	JAN 23	55181	54728	453
FEB 23	21079	20750	329	FEB 23	44041	44147	-106
MAR 23	40200	38287	1913	MAR 23	45962	45973	-11
APR 23	32013	33127	-1114	APR 23	47135	47400	-264
MAY 23	20603	20667	-64	MAY 23	40976	40812	164
JUN 23	12568	12624	-56	JUN 23	37807	37672	135
JUL 23	10063	10136	-73	JUL 23	37759	37612	147
AUG 23	7132	7189	-57	AUG 23	37503	37345	158
SEP 23	10090	10553	-463	SEP 23	36771	36628	142
OCT 23	19353	18956	397	OCT 23	40980	40825	155
NOV 23	9753	9769	-16	NOV 23	40204	40162	42
DEC 23	12900	12896	4	DEC 23	34487	34412	75
JAN 24	12518	12570	-52	JAN 24	27581	27508	73
FEB 24	3188	3182	6	FEB 24	19259	19123	136
MAR 24	12427	12422	5	MAR 24	25099	24944	155
APR 24	6469	6462	7	APR 24	18664	18436	228
MAY 24	2304	2333	-29	MAY 24	18255	18128	127
JUN 24	1102	1093	9	JUN 24	18156	18033	123
JUL 24	651	642	9	JUL 24	18795	18668	127
AUG 24	784	774	10	AUG 24	18560	18397	163





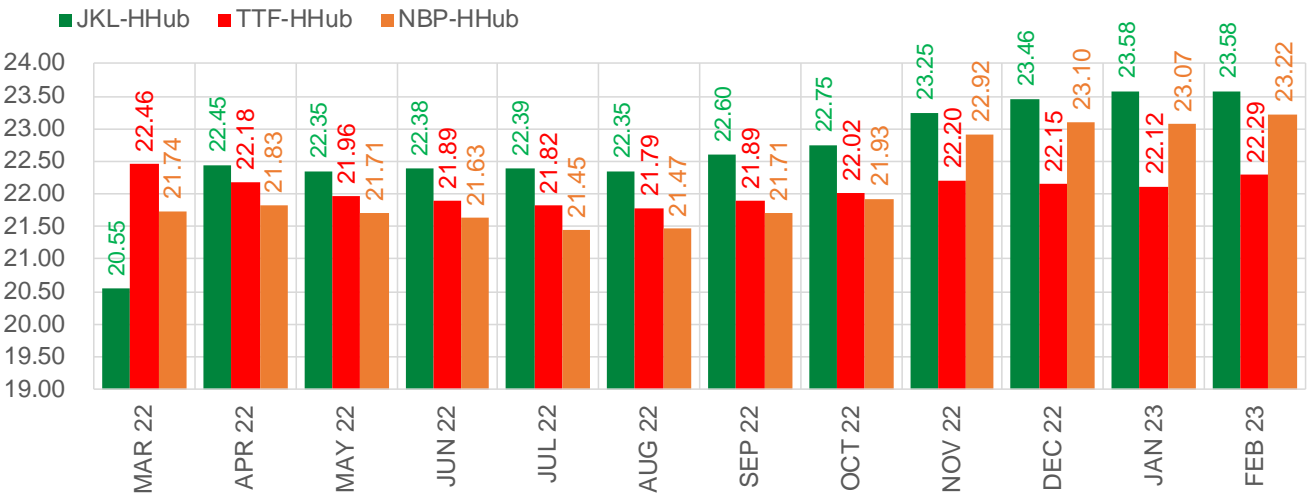
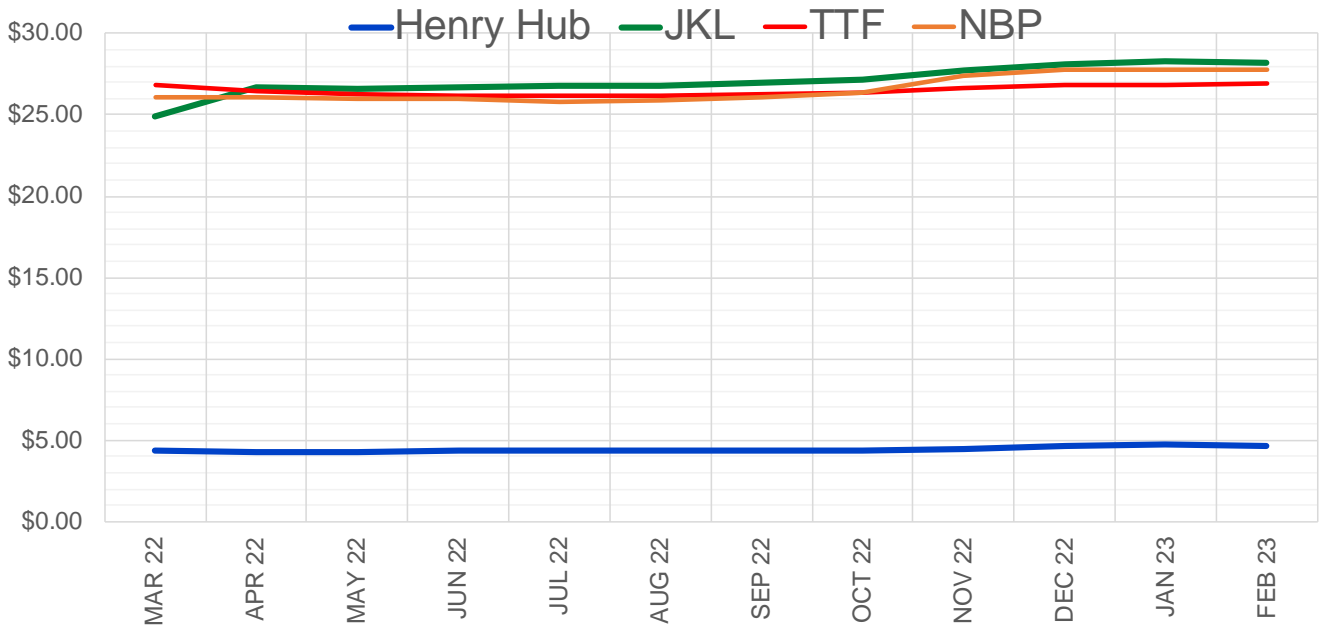
	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23
<b>Current Price</b>	<b>\$3.941</b>	<b>\$3.935</b>	<b>\$3.970</b>	<b>\$4.024</b>	<b>\$4.081</b>	<b>\$4.094</b>	<b>\$4.079</b>	<b>\$4.105</b>	<b>\$4.210</b>	<b>\$4.391</b>	<b>\$4.498</b>	<b>\$4.377</b>
Last Week	\$4.572	\$4.492	\$4.511	\$4.554	\$4.606	\$4.617	\$4.598	\$4.620	\$4.705	\$4.873	\$4.980	\$4.831
vs. Last Week	-\$0.631	-\$0.557	-\$0.541	-\$0.530	-\$0.525	-\$0.523	-\$0.519	-\$0.515	-\$0.495	-\$0.482	-\$0.482	-\$0.454
4 Weeks Ago	\$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. 4 Weeks Ago	-\$0.321	-\$0.146	-\$0.037	-\$0.006	\$0.001	-\$0.043	-\$0.071	-\$0.026	\$0.057	\$0.152	\$0.092	-\$0.125
Last Year	\$2.912	\$2.876	\$2.900	\$2.945	\$2.993	\$3.007	\$2.994	\$3.006	\$3.059	\$3.173	\$3.261	\$3.199
vs. Last Year	\$1.029	\$1.059	\$1.070	\$1.079	\$1.088	\$1.087	\$1.085	\$1.099	\$1.151	\$1.218	\$1.237	\$1.178

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	3.90	10.66	6.76
TETCO M3	\$/MMBtu	6.07	4.48	-1.59
FGT Zone 3	\$/MMBtu	14.15	4.41	-9.74
Zone 6 NY	\$/MMBtu	14.15	4.77	-9.38
Chicago Citygate	\$/MMBtu	3.88	4.21	0.33
Michcon	\$/MMBtu	3.91	4.17	0.26
Columbia TCO Pool	\$/MMBtu	3.75	3.87	0.12
Ventura	\$/MMBtu	3.81	4.36	0.55
Rockies/Opal	\$/MMBtu	3.77	3.95	0.18
El Paso Permian Basin	\$/MMBtu	3.24	3.67	0.43
Socal Citygate	\$/MMBtu	3.91	3.97	0.05
Malin	\$/MMBtu	3.59	3.93	0.34
Houston Ship Channel	\$/MMBtu	3.77	4.15	0.37
Henry Hub Cash	\$/MMBtu	4.05	4.09	0.04
AECO Cash	C\$/GJ	3.22	3.28	0.06
Station2 Cash	C\$/GJ	3.25	3.77	0.52
Dawn Cash	C\$/GJ	3.95	4.48	0.52

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	▲ 2.211
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.308
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.072
NatGas Apr22/Oct22	\$/MMBtu	0.144	▲ 0.006	▼ -0.002	▲ 0.140
WTI Crude	\$/Bbl	95.46	▲ 4.140	▲ 11.640	▲ 35.990
Brent Crude	\$/Bbl	96.48	▲ 3.790	▲ 10.000	▲ 33.180
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	296.18	▲ 10.640	▲ 32.750	▲ 119.040
Propane, Mt. Bel	cents/Gallon	1.26	▲ 0.016	▲ 0.118	▲ 0.384
Ethane, Mt. Bel	cents/Gallon	0.39	▼ -0.005	▲ 0.018	▲ 0.109
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			

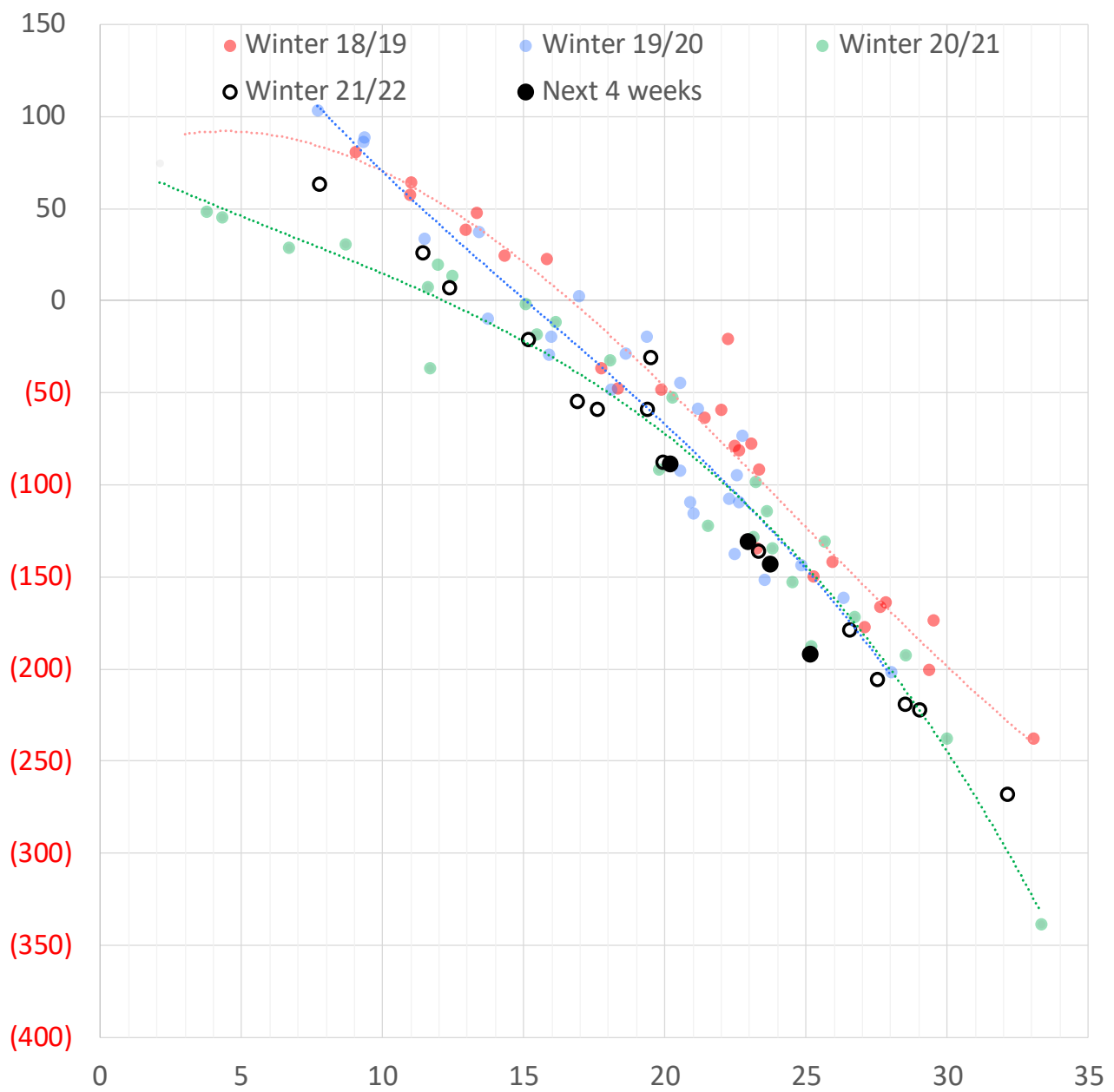
## Nat Gas Term Structure (\$MMBTU)



	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>	\$4.339	\$4.254	\$4.280	\$4.328	\$4.375	\$4.399	\$4.361	\$4.394	\$4.479	\$4.650	\$4.751	\$4.606
<b>JKL</b>	\$24.885	\$26.700	\$26.630	\$26.710	\$26.765	\$26.750	\$26.960	\$27.145	\$27.730	\$28.110	\$28.335	\$28.190
<b>JKL-HHub</b>	\$20.546	\$22.446	\$22.350	\$22.382	\$22.390	\$22.351	\$22.599	\$22.751	\$23.251	\$23.460	\$23.584	\$23.584
<b>TTF</b>	\$26.797	\$26.434	\$26.239	\$26.218	\$26.192	\$26.186	\$26.249	\$26.413	\$26.683	\$26.803	\$26.866	\$26.897
<b>TTF-HHub</b>	\$22.458	\$22.180	\$21.959	\$21.890	\$21.817	\$21.787	\$21.888	\$22.019	\$22.204	\$22.153	\$22.115	\$22.291
<b>NBP</b>	\$26.079	\$26.081	\$25.986	\$25.959	\$25.826	\$25.865	\$26.067	\$26.324	\$27.401	\$27.749	\$27.824	\$27.823
<b>NBP-HHub</b>	\$21.740	\$21.827	\$21.706	\$21.631	\$21.451	\$21.466	\$21.706	\$21.930	\$22.922	\$23.099	\$23.073	\$23.217

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.

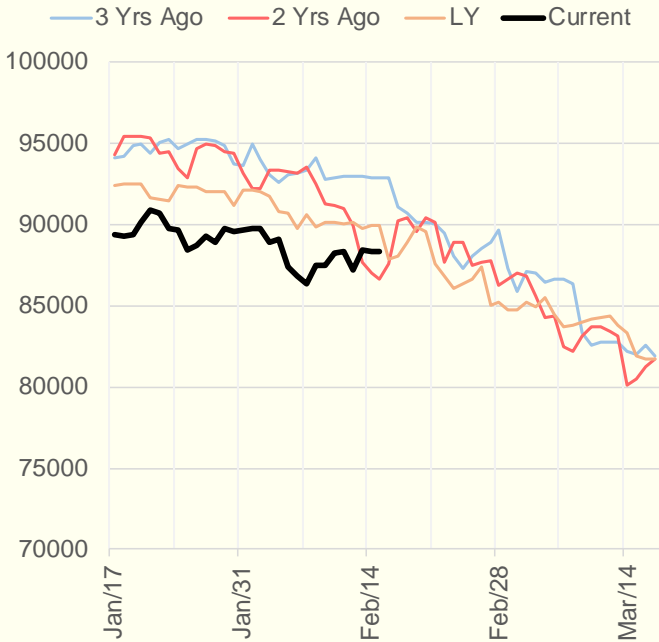
## Weather Storage Model - Next 4 Week Forecast



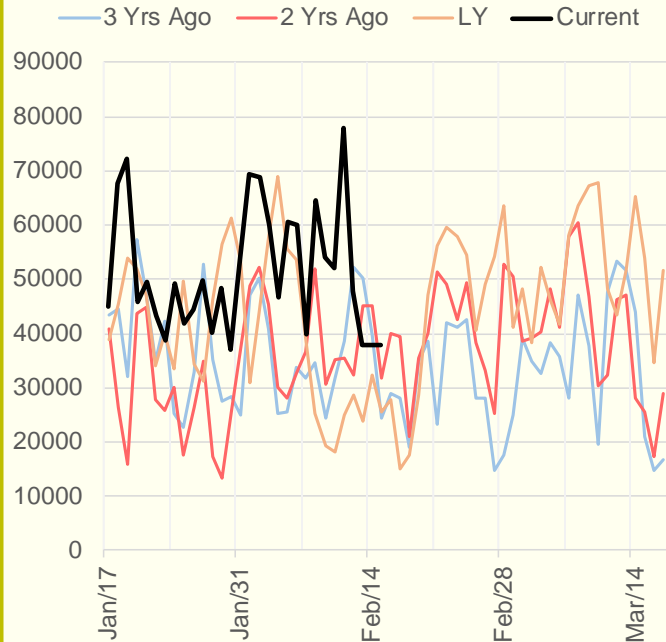
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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



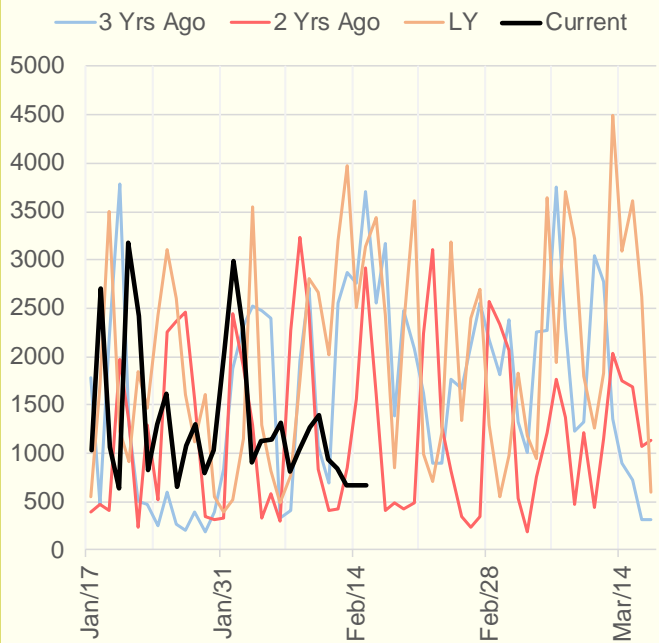
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

