

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 5.04	▼ \$ (0.46)	▼ \$ (0.00)

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 87.30	▼ \$ (0.96)	▼ \$ (0.1)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 88.67	▼ \$ (0.80)	▼ \$ (1.2)

### Page Menu

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[Supply – Demand Trends](#)

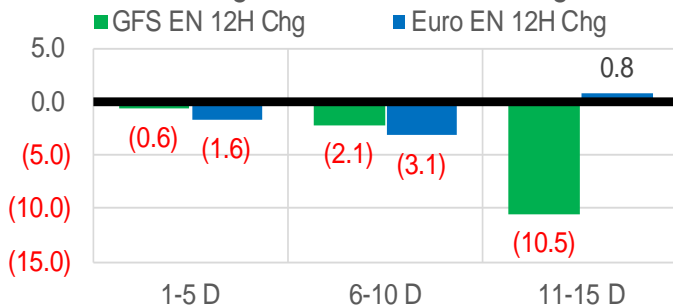
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

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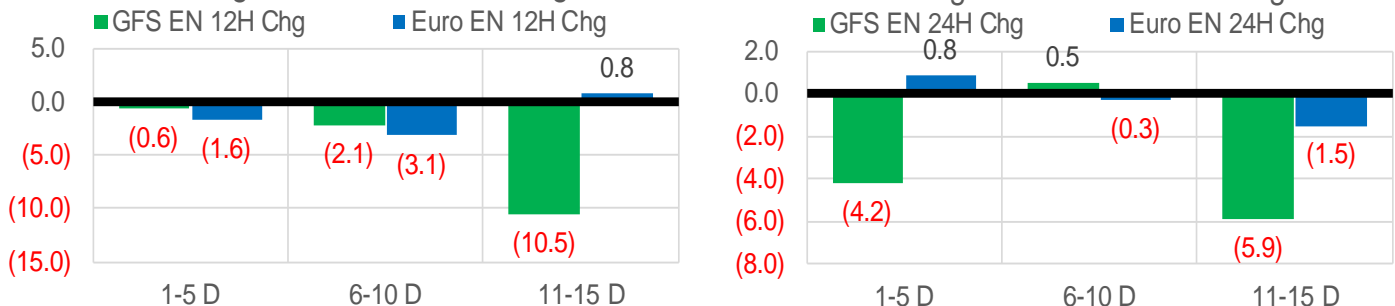
### Vs. 12H Ago

L48 Region - 00z TDD vs 12H Ago



### Vs. 24H Ago

L48 Region - 00z TDD vs 24H Ago



	Current	Δ from YD	Δ from 7D Avg
US Dry Production	89.0	▼ -4.22	▼ -6.53

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	30.6	▲ 1.19	▲ 0.68

	Current	Δ from YD	Δ from 7D Avg
US ResComm	46.8	▲ 2.47	▼ -1.71

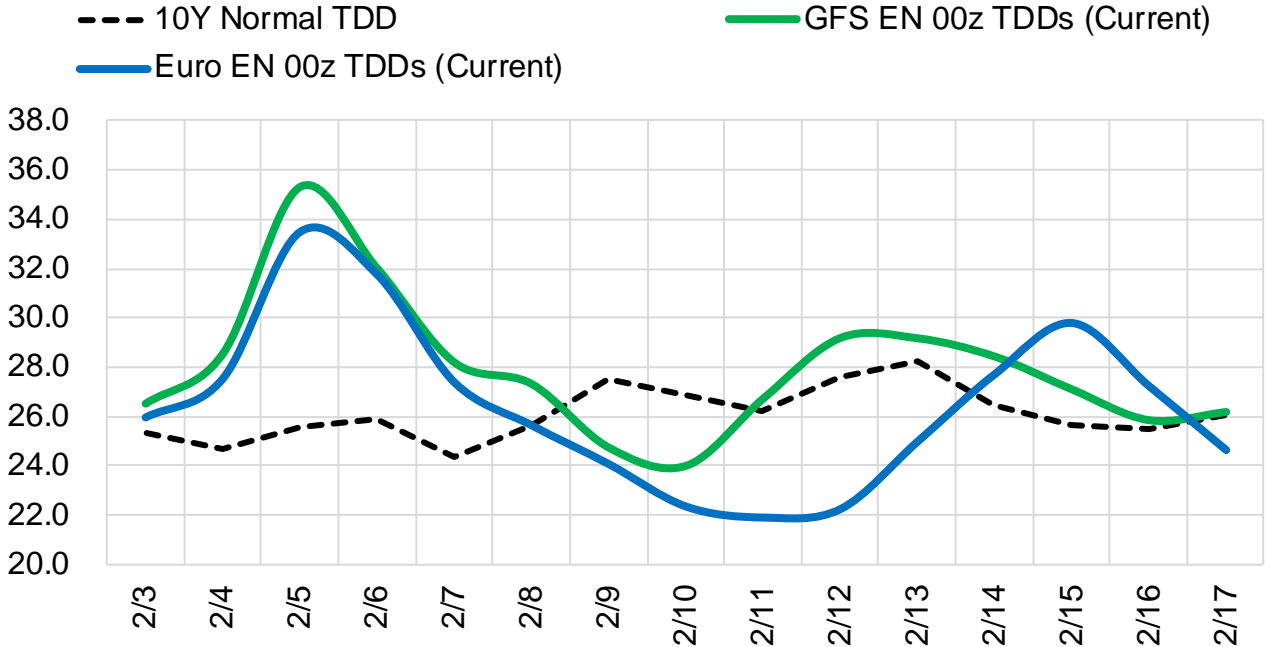
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	7.5	▲ 0.27	▲ 0.56

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.6	▲ 0.41	▲ 0.52

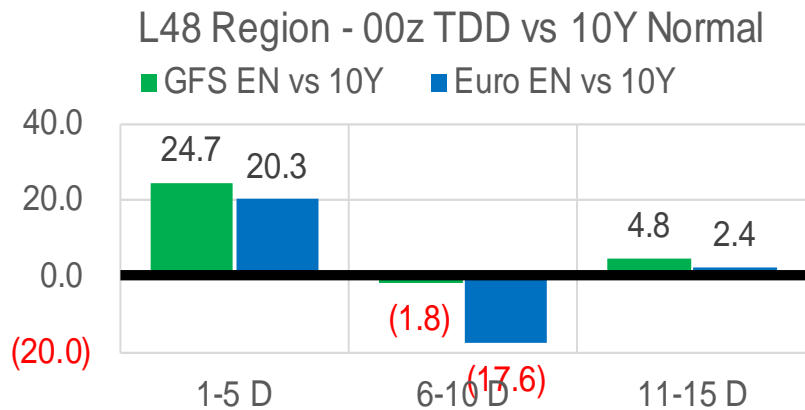
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.3	▼ -0.19	▼ -0.08

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

### L48 Region



## Vs. 10Y Normal



Source: WSI , Bloomberg

## Lower 48 Component Models

### Daily Balances

	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	2-Feb	3-Feb	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>96.1</b>	<b>96.1</b>	<b>96.4</b>	<b>96.6</b>	<b>95.1</b>	<b>93.2</b>	<b>89.0</b>	▼ -4.2	▼ -6.6
<b>Canadian Imports</b>	<b>7.2</b>	<b>6.9</b>	<b>7.0</b>	<b>6.9</b>	<b>6.9</b>	<b>7.2</b>	<b>7.5</b>	▲ 0.3	▲ 0.5
L48 Power	31.2	30.4	30.5	28.9	27.9	29.4	30.6	▲ 1.2	▲ 0.8
L48 Residential & Commercial	51.5	54.8	50.6	46.9	40.4	44.4	46.8	▲ 2.5	▼ -1.2
L48 Industrial	29.0	29.7	29.3	28.9	28.0	27.8	27.7	▼ 0.0	▼ -1.0
L48 Lease and Plant Fuel	5.3	5.3	5.3	5.3	5.2	5.1	4.8	▼ -0.3	▼ -0.4
L48 Pipeline Distribution	4.0	4.1	3.9	3.7	3.2	3.5	3.7	▲ 0.2	▼ -0.1
<b>L48 Regional Gas Consumption</b>	<b>120.9</b>	<b>124.3</b>	<b>119.5</b>	<b>113.6</b>	<b>104.8</b>	<b>110.1</b>	<b>113.6</b>	▲ 3.6	▼ -1.9
<b>Net LNG Delivered</b>	<b>12.43</b>	<b>12.61</b>	<b>11.85</b>	<b>11.20</b>	<b>11.90</b>	<b>12.19</b>	<b>12.57</b>	▲ 0.4	▲ 0.5
<b>Total Mexican Exports</b>	<b>6.3</b>	<b>6.3</b>	<b>6.3</b>	<b>6.5</b>	<b>6.2</b>	<b>6.5</b>	<b>6.3</b>	▼ -0.2	▼ -0.1
<b>Implied Daily Storage Activity</b>	<b>-36.5</b>	<b>-40.1</b>	<b>-34.4</b>	<b>-27.7</b>	<b>-21.0</b>	<b>-28.3</b>	<b>-36.0</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>96.6</b>	<b>98.4</b>	<b>95.0</b>	<b>95.0</b>	<b>94.7</b>	<b>94.5</b>	▼ -0.2	▼ -1.2
<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	52.7	▲ 5.7	▲ 10.7
L48 Industrial	26.0	23.7	27.3	26.8	28.1	29.6	▲ 1.5	▲ 3.1
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>102.8</b>	<b>90.1</b>	<b>108.7</b>	<b>112.4</b>	<b>114.4</b>	<b>123.8</b>	▲ 9.4	▲ 17.4
<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	▲ 0.3
<b>Implied Daily Storage Activity</b>	<b>-20.0</b>	<b>-5.5</b>	<b>-25.9</b>	<b>-29.5</b>	<b>-32.1</b>	<b>-41.1</b>	<b>-9.0</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>-0.3</b>	<b>-0.1</b>	<b>-0.8</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>94.1</b>	▼ -0.8	▲ 9.8
<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>7.0</b>	▲ 0.3	▲ 0.7
L48 Power	30.2	27.6	30.5	29.1	28.4	30.7	28.7	▼ -2.1	▲ 1.0
L48 Residential & Commercial	40.6	48.1	12.4	27.1	32.6	48.3	42.4	▼ -5.9	▼ -5.7
L48 Industrial	25.1	21.1	21.1	24.3	25.1	27.8	27.9	▲ 0.1	▲ 6.8
L48 Lease and Plant Fuel	5.1	4.6	5.2	5.2	5.3	5.2	5.1	▼ 0.0	▲ 0.5
L48 Pipeline Distribution	3.5	3.6	2.4	2.9	3.0	3.8	3.4	▼ -0.5	▼ -0.2
<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>107.4</b>	▼ -8.4	▲ 2.5
<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>12.0</b>	▼ -0.3	▲ 3.6
<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>6.4</b>	▲ 0.0	▲ 0.6
<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>-24.6</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)

	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	DoD	vs. 7D
NRC Nuclear Daily Output	88.8	89.3	88.9	89.8	89.6	89.6	89.8	0.1	0.4
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	16.1	15.6	15.9	15.1	15.3	15.2	15.1	-0.1	-0.4
NRC % Nuclear Cap Utilization	90.3	90.8	90.4	91.3	91.1	91.1	91.3	0.1	0.5

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

	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	DoD	vs. 7D
CALI Wind	648	1080	1293	799	1038	2063	2981	918	1827
TEXAS Wind	7315	6744	9646	10115	10315	9531	11667	2136	2723
US Wind	44444	49746	40086	48534	37156	53483	69323	15840	23748

### Generation Daily Average - MWh (EIA)

	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	DoD	vs. 7D
US Wind	44444	49746	40086	48534	37156	53483	69323	15840	23748
US Solar	9527	10638	9535	10247	12155	9716	10241	526	-61
US Petroleum	5130	5527	5235	5691	6345	6204	3935	-2269	-1754
US Other	9853	9393	9528	10109	9660	9683	9237	-446	-467
US Coal	134973	132811	133773	135689	134615	126892	111813	-15080	-21313
US Nuke	93941	94343	94418	95274	95024	94848	95004	156	363
US Hydro	33975	34752	33545	32808	31646	30925	30697	-228	-2244
<b>US Gas</b>	<b>182598</b>	<b>172309</b>	<b>173172</b>	<b>167367</b>	<b>159658</b>	<b>155403</b>	<b>142682</b>	<b>-12720</b>	<b>-25735</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	48695	53054	57130	50736	55682	45238	-10444	1.9
					4946.0			
					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	48695	53054	57130	50736	55682	45238	-10444	1.9
US Solar	7098	6957	8464	9380	8594	9928	1334	-0.2
US Petroleum	3581	3084	3038	4915	5255	5958	703	-0.1
US Other	8532	7584	8300	8250	8102	9575	1472	-0.3
US Coal	87293	79937	95025	115155	117882	130569	12687	-2.3
US Nuke	97422	97083	96362	95714	94644	94662	18	0.0
US Hydro	32572	31290	34598	34189	34477	34108	-369	0.1
<b>US Gas</b>	<b>166544</b>	<b>136156</b>	<b>154300</b>	<b>161871</b>	<b>156828</b>	<b>177538</b>	<b>20710</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	94.6	91.7	82.8	90.3	90.2	89.8			
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	10.3	13.1	22.0	14.6	14.7	15.1	14.9	0.4	1.8	
NRC % Nuclear Cap Utilization	96.2	93.3	84.2	91.8	91.7	91.3	91.5	-0.4	-1.8	

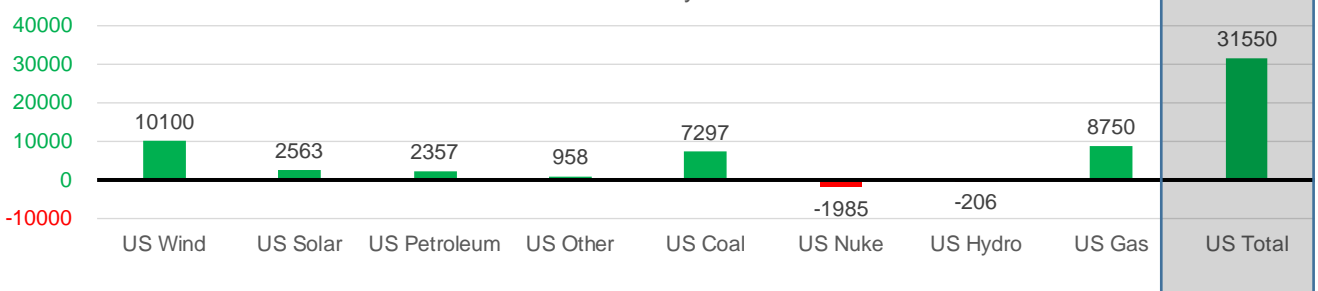
### Wind Generation Monthly Average - MWh (EIA)

	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	1474	1245	1224	1585	1364	2981			
TEXAS Wind	10246	10628	11678	12927	11355	11667	10985	312	357	
US Wind	35951	42192	49836	54805	51172	69323	52292	18151	10100	

### 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	35951	42192	49836	54805	51172	69323			
US Solar	5428	6975	9687	7376	9369	10241	9538	▼-703.4	▲2563	
US Petroleum	3659	2812	3022	3134	5012	3935	5169	▲1235	▲2357	
US Other	9233	7896	8443	8216	8738	9237	8854	▼-383	▲958	
US Coal	80795	113407	80906	81616	118055	111813	120704	▲8891	▲7297	
US Nuke	95809	97069	87551	95421	95252	95004	95084	▲79	▼-1985	
US Hydro	33630	33861	26647	30820	34092	30697	33655	▲2957	▼-206	
<b>US Gas</b>	<b>154154</b>	<b>154170</b>	<b>151973</b>	<b>152577</b>	<b>163807</b>	<b>142682</b>	<b>162919</b>	▼-4954	▲8750	
<b>US Total</b>	<b>435734</b>	<b>456884</b>	<b>418456</b>	<b>434173</b>	<b>485687</b>	<b>473266</b>	<b>488433</b>	▲7122	▲31550	

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	-41.2	0.9	-40.4	-282
East	-12.9	1.8	-11.2	-78
Midwest	-11.1	-0.3	-11.3	-79
Mountain	1.5	-3.0	-1.5	-10
South Central	-18.4	2.7	-15.7	-110
Pacific	-0.3	-0.3	-0.7	-5

\*Adjustment Factor is calculated based on historical regional deltas

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

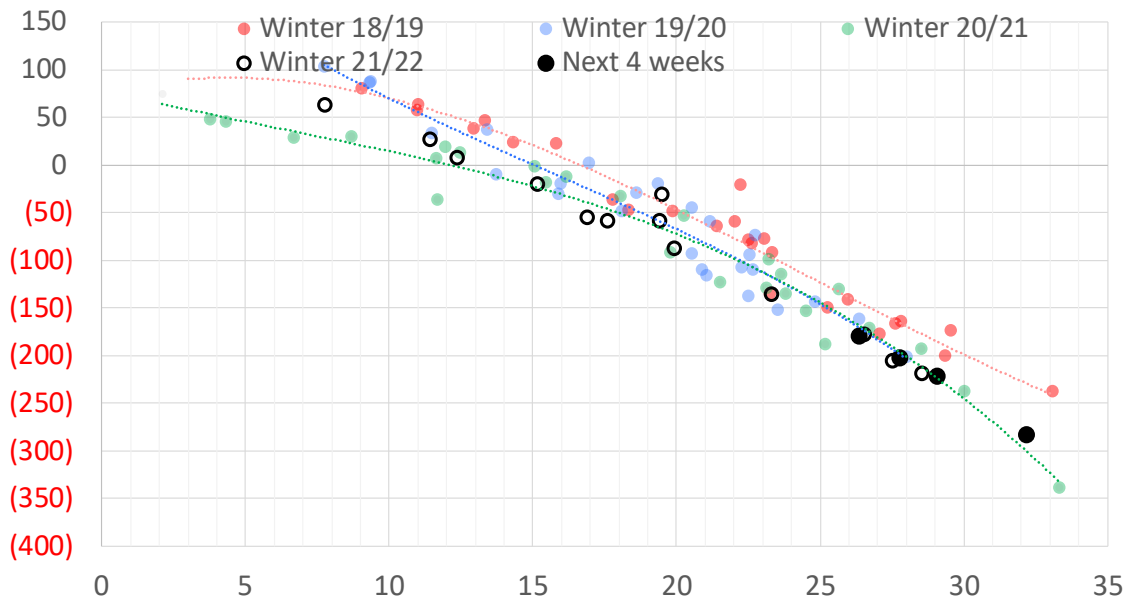


### Weather Model Storage Projection

Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
28-Jan	32	-282
04-Feb	29	-221
11-Feb	28	-203
18-Feb	26	-179

Weather Storage Model - Next 4 Week Forecast

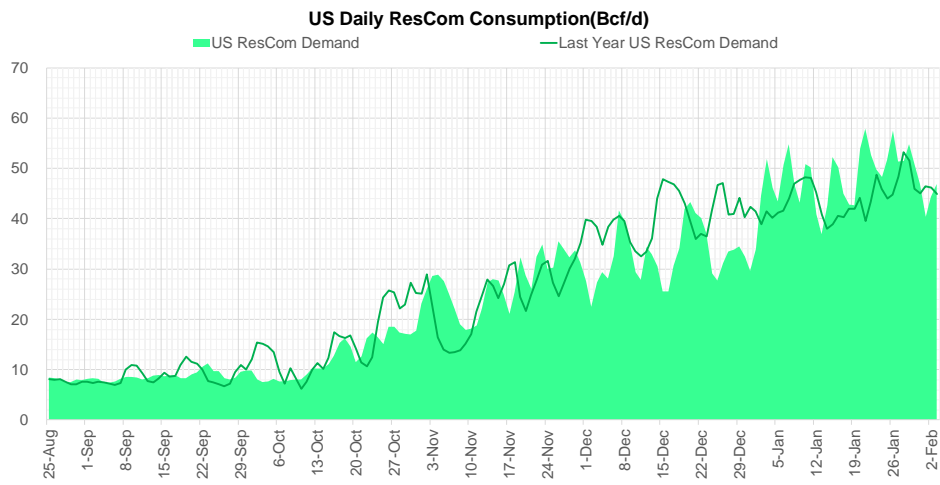
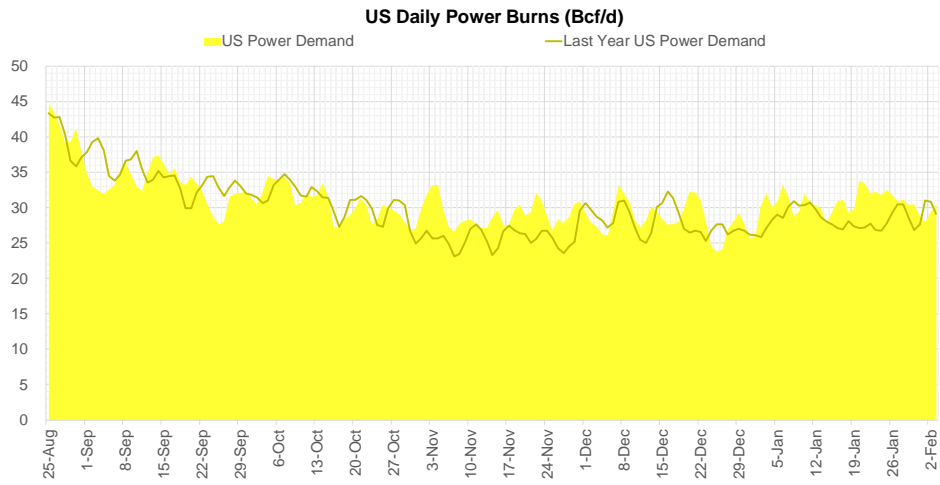
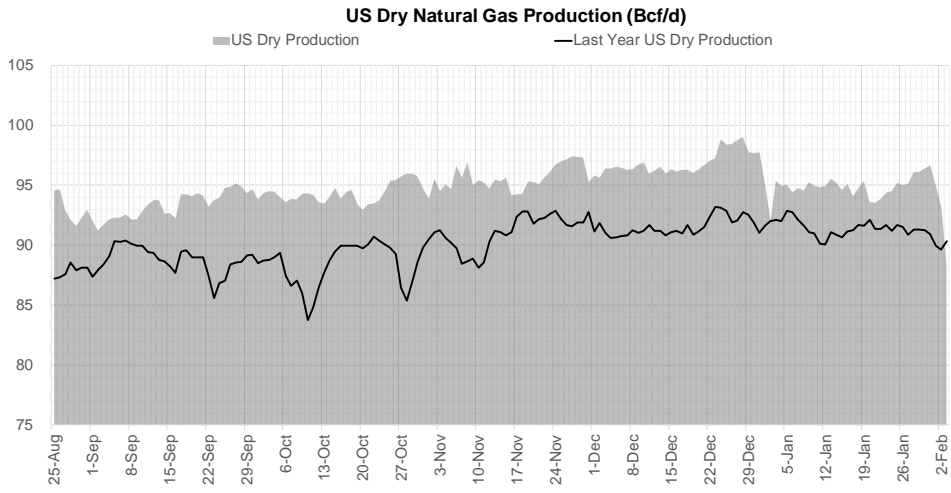


Go to larger image





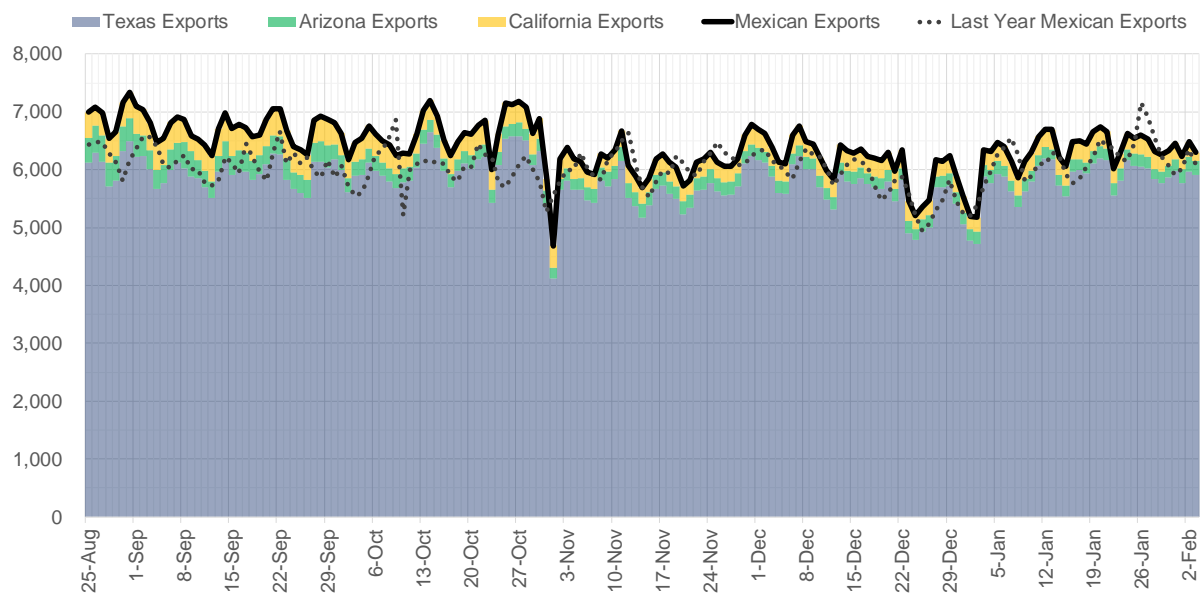
## Supply – Demand Trends



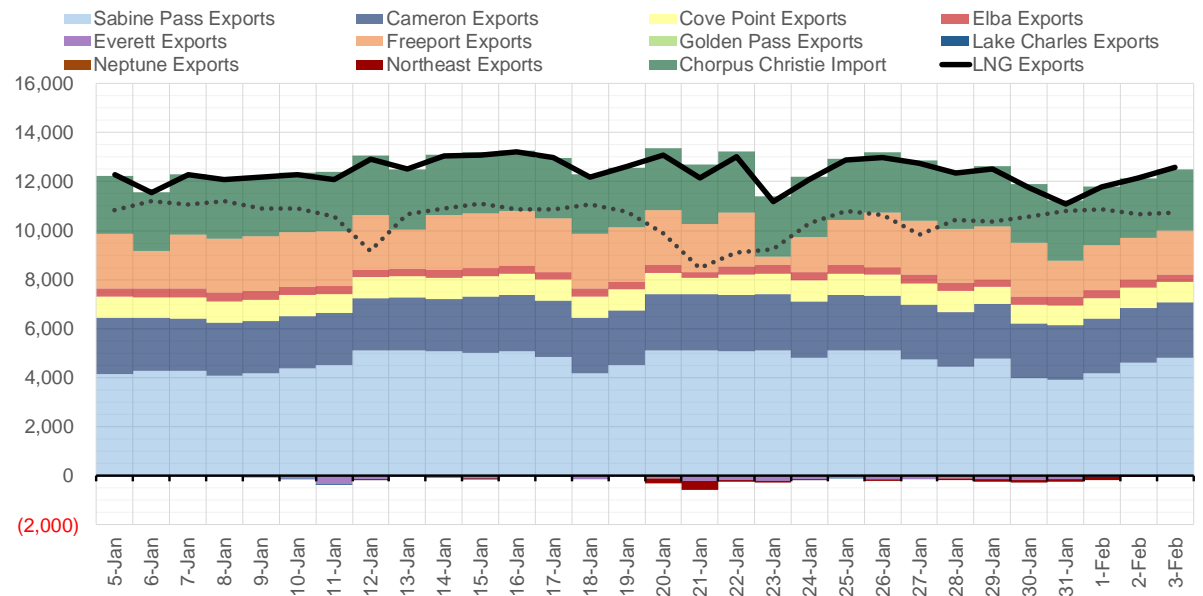
Source: Bloomberg

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### 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

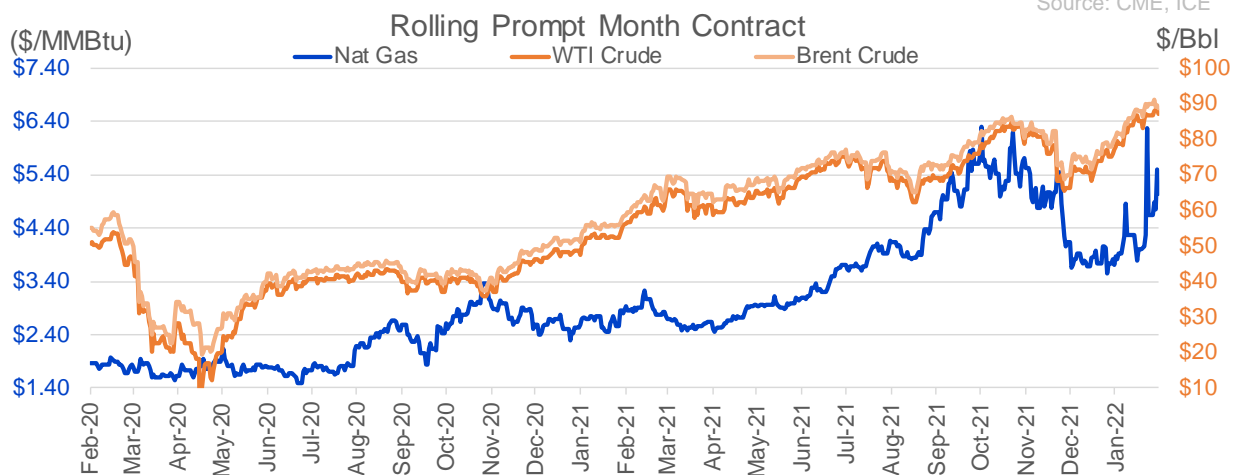
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
3	2022	C	6.00	14809	3	2022	P	3.00	43469
3	2022	C	7.00	14515	3	2022	C	10.00	34653
3	2022	P	4.50	10547	3	2022	C	5.00	34583
3	2022	C	5.75	9382	3	2022	P	4.00	31470
3	2022	P	4.00	7993	3	2022	P	3.50	31357
4	2022	C	5.50	7443	3	2022	C	8.00	30298
4	2022	C	7.00	6663	3	2022	C	6.00	29443
3	2022	C	5.50	6610	3	2022	P	2.50	24084
3	2022	P	4.25	6482	10	2022	C	6.00	23731
4	2022	C	6.00	6114	3	2022	C	4.00	23254
5	2022	P	4.00	5977	3	2022	P	3.75	22616
3	2022	P	3.50	5704	12	2022	C	5.00	20833
4	2022	C	5.00	5598	3	2022	P	3.25	20779
3	2022	P	4.75	5214	3	2022	C	7.00	20470
7	2022	C	8.00	5190	3	2022	P	4.50	20275
6	2022	C	6.00	4913	4	2022	C	3.00	19711
3	2022	C	6.50	4463	6	2022	C	5.00	19268
3	2022	P	5.00	4355	4	2022	P	3.00	18914
4	2022	P	4.00	4309	3	2022	C	4.50	18643
4	2022	P	4.50	4293	5	2022	P	3.00	17945
6	2022	P	4.00	4157	6	2022	C	6.00	17768
5	2022	P	3.50	3876	6	2022	P	3.00	17711
12	2022	C	6.25	3825	4	2022	C	5.00	17497
12	2022	C	6.50	3730	10	2022	C	5.00	17438
4	2022	P	4.25	3556	4	2022	P	2.50	17370
3	2022	C	5.00	3484	5	2022	C	5.00	16705
3	2022	C	6.75	3337	4	2022	C	6.00	16166
12	2022	C	5.00	3109	10	2022	P	3.00	16149
5	2022	C	6.00	3085	5	2022	P	2.50	15435
4	2022	P	3.50	3059	3	2022	P	2.00	14981
12	2022	C	4.50	3000	3	2022	P	2.75	14562
6	2022	C	8.00	2951	4	2022	P	4.00	14286
4	2022	C	8.00	2922	3	2022	P	5.00	14207
3	2022	C	10.00	2920	5	2022	C	6.00	14123
5	2022	C	7.00	2830	4	2022	P	3.50	13923
10	2022	C	7.00	2799	10	2022	P	2.00	13921
12	2022	P	4.50	2795	4	2022	C	4.00	13918
12	2022	P	5.00	2700	3	2022	P	2.25	13916
4	2022	C	6.75	2503	12	2022	C	4.50	13737
3	2022	C	8.00	2400	5	2022	C	3.00	13733
6	2022	P	3.50	2362	9	2022	C	6.00	13658
4	2022	P	3.00	2251	6	2022	C	3.00	13438
1	2023	P	5.00	2100	6	2022	C	3.50	13281
6	2022	C	5.00	2066	3	2022	C	3.00	13270
4	2022	P	3.25	2039	5	2022	P	3.50	13262
3	2022	C	4.50	1984	7	2022	C	3.00	13230
10	2022	C	5.00	1890	8	2022	C	3.00	13226
4	2022	C	4.75	1720	9	2022	C	3.00	13225
5	2022	C	5.50	1698	12	2022	C	6.25	13159
					10	2022	C	3	13114

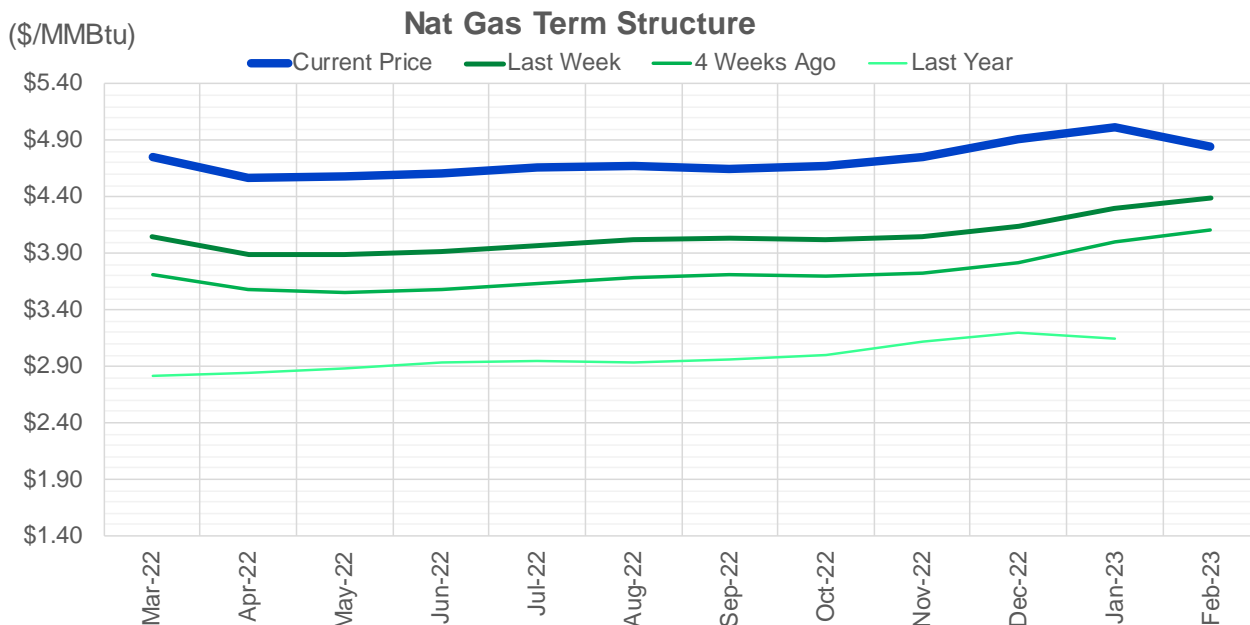
Source: CME, ICE

## 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	258042	263353	-5311	MAR 22	94712	102142	-7430
APR 22	91828	93089	-1261	APR 22	76128	76756	-628
MAY 22	140931	128513	12418	MAY 22	77059	74569	2491
JUN 22	65992	65843	149	JUN 22	68489	67144	1345
JUL 22	66612	68333	-1721	JUL 22	63448	62642	806
AUG 22	41478	41680	-202	AUG 22	60937	59978	959
SEP 22	53746	52802	944	SEP 22	60956	60512	445
OCT 22	81784	80026	1758	OCT 22	67595	66354	1241
NOV 22	37331	36611	720	NOV 22	54548	54178	370
DEC 22	40099	40155	-56	DEC 22	63248	62615	633
JAN 23	57663	56403	1260	JAN 23	53736	53391	345
FEB 23	19777	18143	1634	FEB 23	42662	42371	292
MAR 23	36367	35360	1007	MAR 23	47730	47358	372
APR 23	37678	36028	1650	APR 23	47251	46638	613
MAY 23	20862	19743	1119	MAY 23	39803	39640	164
JUN 23	12590	12347	243	JUN 23	38329	37872	458
JUL 23	11502	11485	17	JUL 23	37795	37302	493
AUG 23	7552	7300	252	AUG 23	36844	36379	466
SEP 23	10757	10477	280	SEP 23	37095	36611	485
OCT 23	16390	15428	962	OCT 23	41050	40613	437
NOV 23	10160	9643	517	NOV 23	39839	39919	-80
DEC 23	12992	12785	207	DEC 23	34117	34162	-45
JAN 24	9846	9466	380	JAN 24	25691	25157	534
FEB 24	2409	2446	-37	FEB 24	18818	18491	327
MAR 24	11991	10905	1086	MAR 24	24619	24272	347
APR 24	6241	5417	824	APR 24	18130	17676	455
MAY 24	2308	2113	195	MAY 24	17920	17451	469
JUN 24	1002	978	24	JUN 24	17817	17570	247
JUL 24	619	618	1	JUL 24	18460	17961	500
AUG 24	732	730	2	AUG 24	18344	18057	287





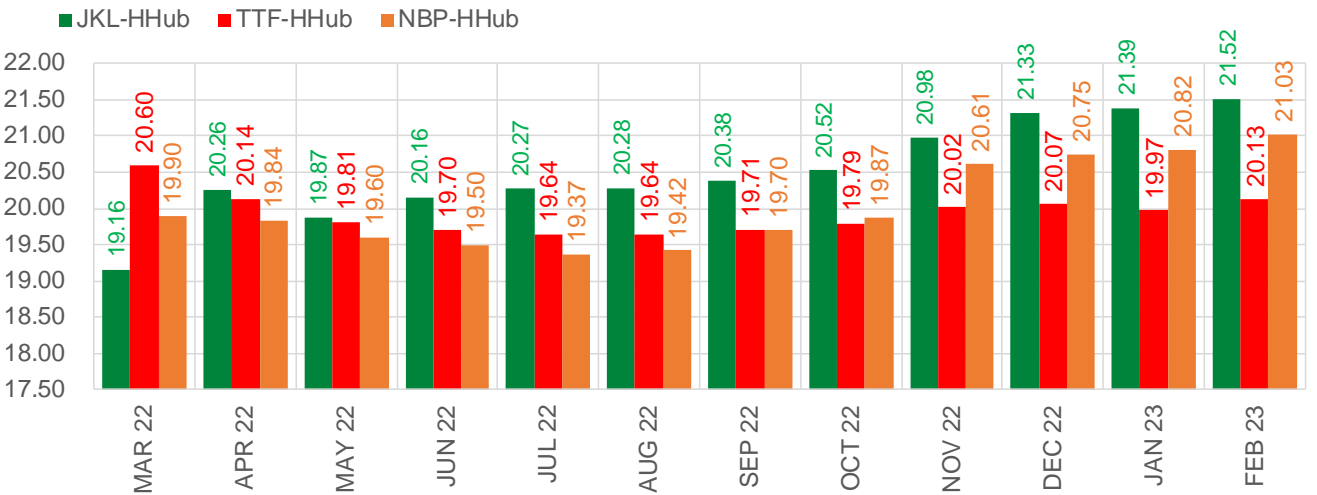
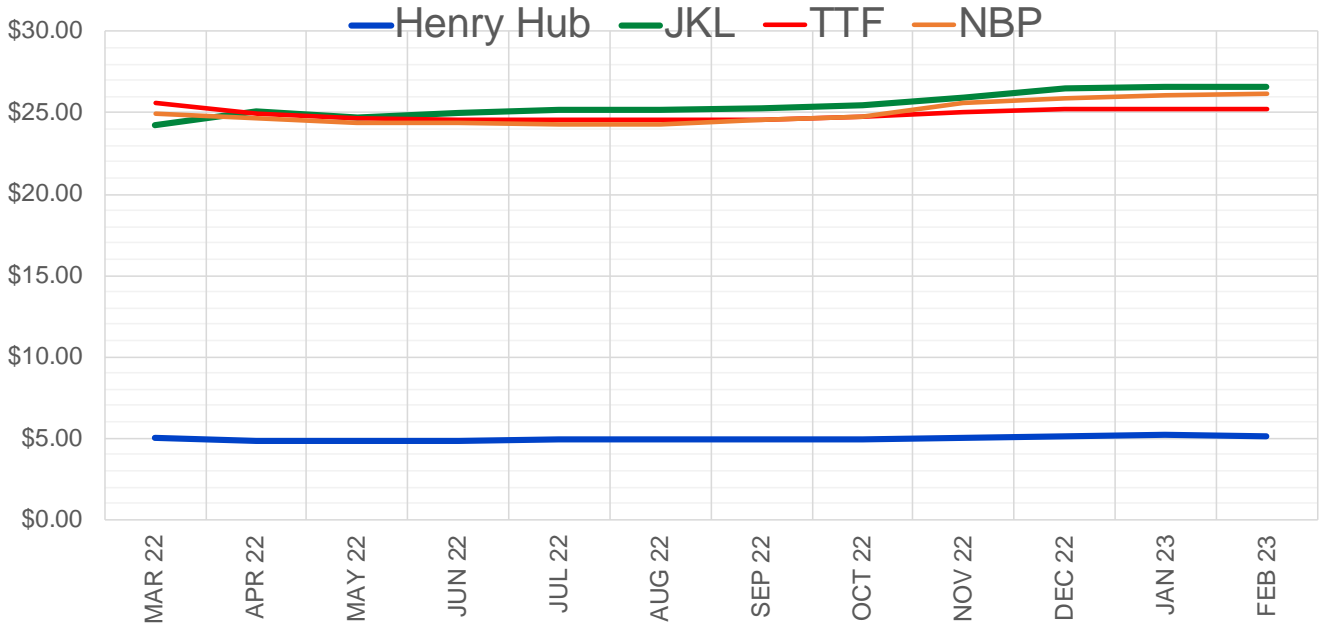
	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23
<b>Current Price</b>	<b>\$4.751</b>	<b>\$4.573</b>	<b>\$4.578</b>	<b>\$4.614</b>	<b>\$4.661</b>	<b>\$4.669</b>	<b>\$4.649</b>	<b>\$4.672</b>	<b>\$4.753</b>	<b>\$4.914</b>	<b>\$5.012</b>	<b>\$4.843</b>
Last Week	\$4.053	\$3.894	\$3.883	\$3.920	\$3.970	\$4.027	\$4.039	\$4.021	\$4.044	\$4.135	\$4.303	\$4.396
vs. Last Week	\$0.698	\$0.679	\$0.695	\$0.694	\$0.691	\$0.642	\$0.610	\$0.651	\$0.709	\$0.779	\$0.709	\$0.447
4 Weeks Ago	\$3.717	\$3.582	\$3.549	\$3.575	\$3.629	\$3.689	\$3.706	\$3.692	\$3.721	\$3.819	\$3.998	\$4.104
vs. 4 Weeks Ago	\$1.034	\$0.991	\$1.029	\$1.039	\$1.032	\$0.980	\$0.943	\$0.980	\$1.032	\$1.095	\$1.014	\$0.739
Last Year	\$2.845	\$2.818	\$2.842	\$2.884	\$2.936	\$2.949	\$2.936	\$2.954	\$3.006	\$3.119	\$3.201	\$3.142
vs. Last Year	\$1.906	\$1.755	\$1.736	\$1.730	\$1.725	\$1.720	\$1.713	\$1.718	\$1.747	\$1.795	\$1.811	\$1.701

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	18.25	17.63	-0.62
TETCO M3	\$/MMBtu	6.56	7.25	0.69
FGT Zone 3	\$/MMBtu	6.76	4.43	-2.33
Zone 6 NY	\$/MMBtu	6.76	8.73	1.97
Chicago Citygate	\$/MMBtu	6.37	5.00	-1.37
Michcon	\$/MMBtu	5.75	4.20	-1.55
Columbia TCO Pool	\$/MMBtu	5.90	3.80	-2.10
Ventura	\$/MMBtu	7.10	6.09	-1.01
Rockies/Opal	\$/MMBtu	7.05	4.97	-2.09
El Paso Permian Basin	\$/MMBtu	7.65	4.46	-3.19
Socal Citygate	\$/MMBtu	8.63	5.63	-3.00
Malin	\$/MMBtu	6.08	5.20	-0.88
Houston Ship Channel	\$/MMBtu	6.54	4.43	-2.12
Henry Hub Cash	\$/MMBtu	6.54	4.17	-2.37
AECO Cash	C\$/GJ	4.57	3.92	-0.65
Station2 Cash	C\$/GJ	4.56	5.28	0.72
Dawn Cash	C\$/GJ	5.74	4.37	-1.37

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	▲ 2.201
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.304
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.073
NatGas Apr22/Oct22	\$/MMBtu	0.069	▼ -0.078	▼ -0.083	▲ 0.056
WTI Crude	\$/Bbl	88.26	▲ 0.910	▲ 10.410	▲ 32.570
Brent Crude	\$/Bbl	89.47	▼ -0.490	▲ 8.670	▲ 31.010
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	276.89	▲ 2.490	▲ 32.280	▲ 107.840
Propane, Mt. Bel	cents/Gallon	1.32	▲ 0.162	▲ 0.220	▲ 0.488
Ethane, Mt. Bel	cents/Gallon	0.46	▲ 0.090	▲ 0.107	▲ 0.195
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			

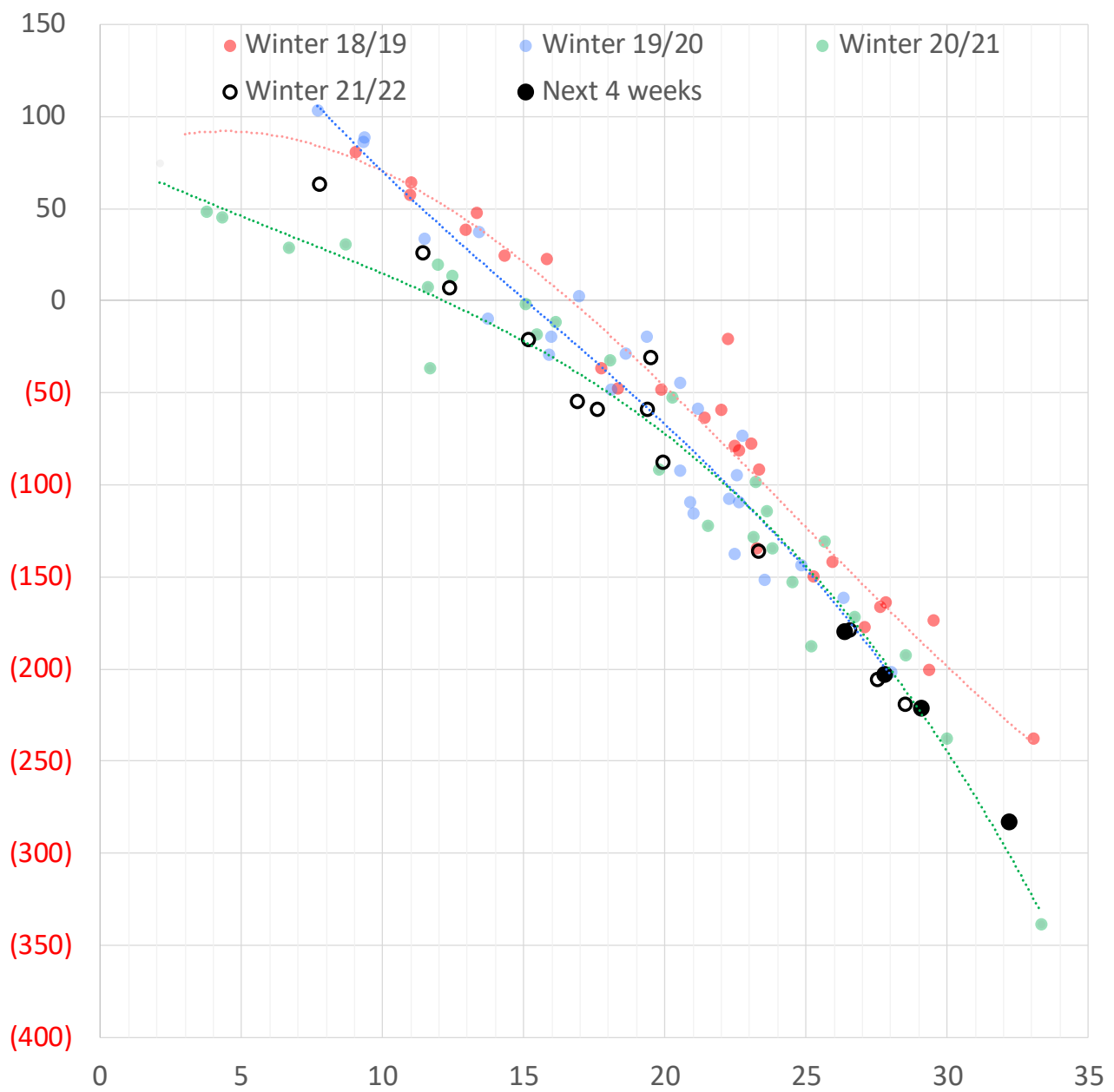
### Nat Gas Term Structure (\$MMBTU)



	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>	\$5.039	\$4.821	\$4.822	\$4.853	\$4.911	\$4.905	\$4.895	\$4.933	\$4.994	\$5.154	\$5.253	\$5.122
<b>JKL</b>	\$24.200	\$25.080	\$24.695	\$25.010	\$25.180	\$25.185	\$25.275	\$25.455	\$25.970	\$26.480	\$26.640	\$26.640
<b>JKL-HHub</b>	\$19.161	\$20.259	\$19.873	\$20.157	\$20.269	\$20.280	\$20.380	\$20.522	\$20.976	\$21.326	\$21.387	\$21.518
<b>TTF</b>	\$25.637	\$24.959	\$24.630	\$24.556	\$24.553	\$24.547	\$24.608	\$24.725	\$25.015	\$25.220	\$25.222	\$25.256
<b>TTF-HHub</b>	\$20.598	\$20.138	\$19.808	\$19.703	\$19.642	\$19.642	\$19.713	\$19.792	\$20.021	\$20.066	\$19.969	\$20.134
<b>NBP</b>	\$24.938	\$24.656	\$24.422	\$24.350	\$24.279	\$24.322	\$24.594	\$24.798	\$25.603	\$25.901	\$26.071	\$26.151
<b>NBP-HHub</b>	\$19.899	\$19.835	\$19.600	\$19.497	\$19.368	\$19.417	\$19.699	\$19.865	\$20.609	\$20.747	\$20.818	\$21.029

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.

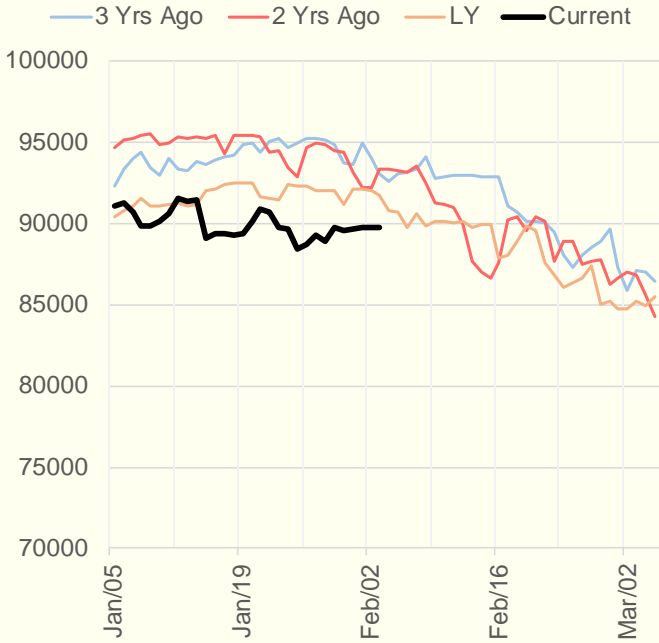
### Weather Storage Model - Next 4 Week Forecast



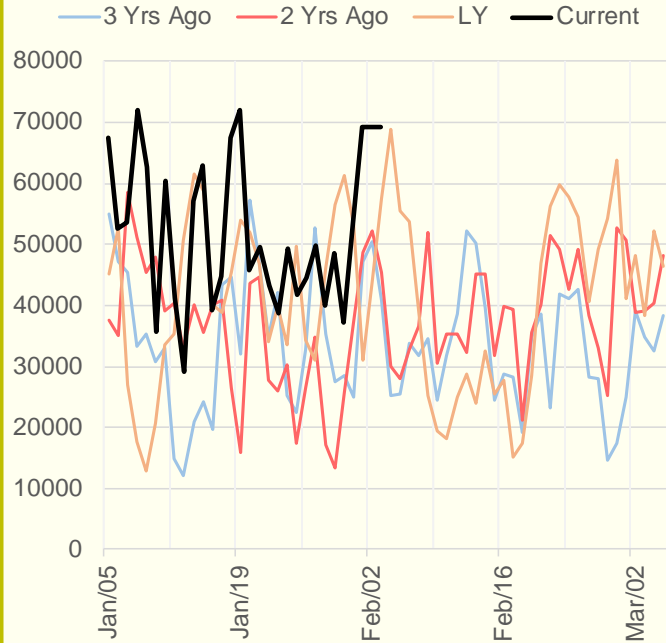
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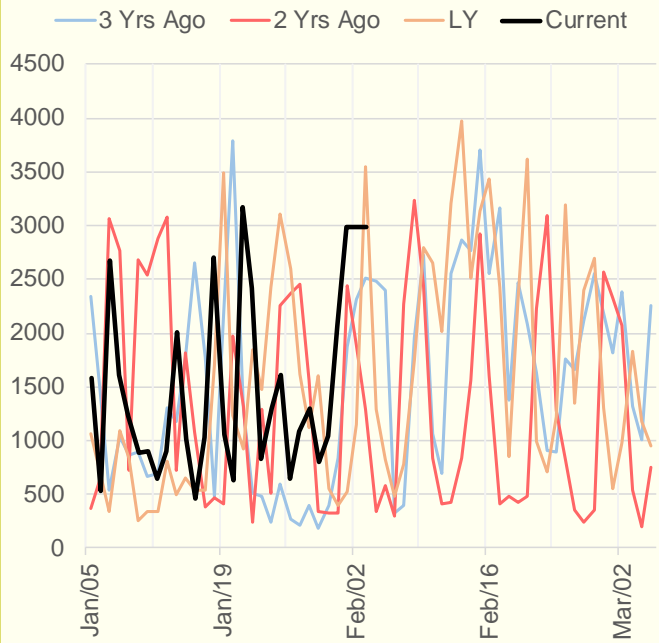
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

