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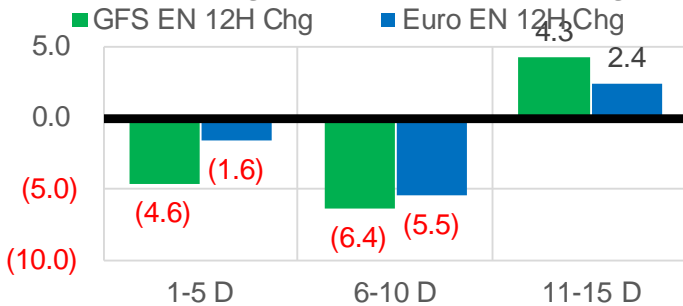
	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 3.94 ▲	\$ 0.07 ▲	\$ 0.17

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 71.13 ▲	\$ 0.01 ▲	\$ 0.4

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 73.80 ▼	\$ (0.18) ▲	\$ 0.2

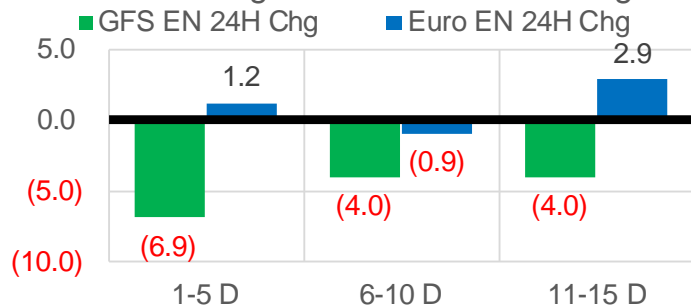
### Vs. 12H Ago

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	96.7 ▲	0.46	0.31

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	30.7 ▼	-0.86	1.48

	Current	Δ from YD	Δ from 7D Avg
US ResComm	41.1 ▼	-1.41	4.65

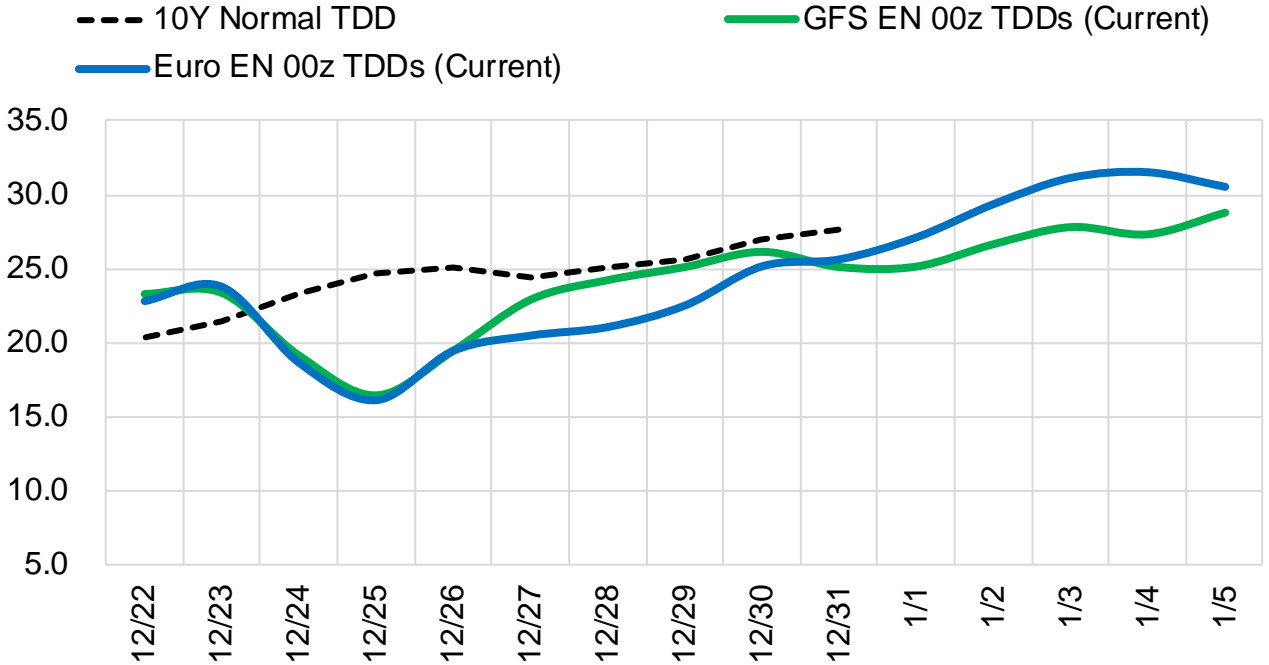
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	4.9 ▲	0.01	0.18

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	13.0 ▲	0.12	0.63

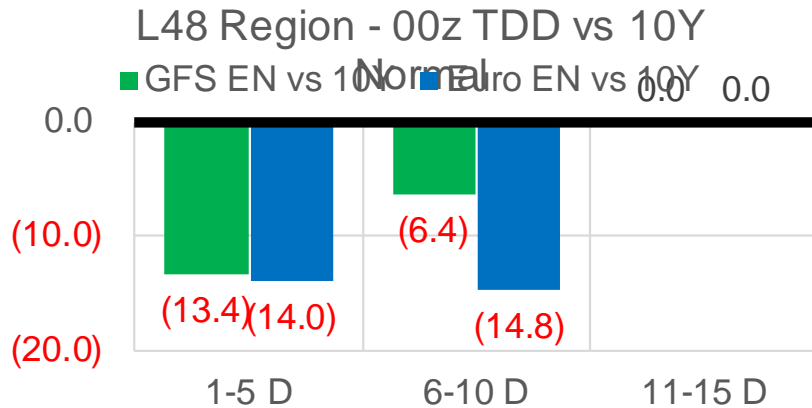
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	6.4 ▲	0.46	0.27

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

### L48 Region



## Vs. 10Y Normal



Source: WSI , Bloomberg

## Lower 48 Component Models

### Daily Balances

	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>96.3</b>	<b>96.5</b>	<b>96.5</b>	<b>96.1</b>	<b>96.4</b>	<b>96.2</b>	<b>96.7</b>	▲ 0.5	▲ 0.3
<b>Canadian Imports</b>	<b>3.8</b>	<b>4.1</b>	<b>5.1</b>	<b>5.4</b>	<b>5.3</b>	<b>4.9</b>	<b>4.9</b>	▲ 0.0	▲ 0.1
L48 Power	27.6	27.7	27.8	29.7	31.8	31.6	30.7	▼ -0.9	▲ 1.3
L48 Residential & Commercial	27.6	32.7	36.3	43.7	44.7	42.5	41.1	▼ -1.4	▲ 3.2
L48 Industrial	23.2	23.4	23.4	23.5	23.5	23.3	23.6	▲ 0.2	▲ 0.2
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.2	5.2	5.2	5.2	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	2.8	3.0	3.2	3.7	3.8	3.7	3.6	▼ -0.1	▲ 0.2
<b>L48 Regional Gas Consumption</b>	<b>86.4</b>	<b>92.1</b>	<b>96.0</b>	<b>105.9</b>	<b>109.0</b>	<b>106.3</b>	<b>104.2</b>	▼ -2.2	▲ 4.9
<b>Net LNG Delivered</b>	<b>12.09</b>	<b>11.76</b>	<b>12.64</b>	<b>13.09</b>	<b>12.87</b>	<b>12.91</b>	<b>13.03</b>	▲ 0.1	▲ 0.5
<b>Total Mexican Exports</b>	<b>6.2</b>	<b>6.2</b>	<b>6.2</b>	<b>6.0</b>	<b>6.2</b>	<b>6.0</b>	<b>6.4</b>	▲ 0.5	▲ 0.3
<b>Implied Daily Storage Activity</b>	<b>-4.6</b>	<b>-9.5</b>	<b>-13.3</b>	<b>-23.4</b>	<b>-26.4</b>	<b>-24.1</b>	<b>-22.0</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

### EIA Storage Week Balances

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>95.9</b>	<b>95.1</b>	<b>96.2</b>	<b>96.9</b>	<b>96.7</b>	<b>96.5</b>	▼ -0.2	▲ 0.3
<b>Canadian Imports</b>	<b>5.1</b>	<b>4.9</b>	<b>5.5</b>	<b>5.6</b>	<b>5.3</b>	<b>4.6</b>	▼ -0.7	▼ -0.8
L48 Power	27.5	27.8	29.2	28.8	29.1	28.4	▼ -0.7	▼ -0.3
L48 Residential & Commercial	23.6	28.0	33.3	33.2	35.5	31.5	▼ -4.0	▼ -1.0
L48 Industrial	21.4	23.1	22.4	22.5	23.8	23.9	▲ 0.2	▲ 1.0
L48 Lease and Plant Fuel	5.2	5.2	5.2	5.3	5.2	5.2	▼ 0.0	▲ 0.0
L48 Pipeline Distribution	2.7	3.0	3.3	3.3	3.2	3.0	▼ -0.2	▼ -0.2
<b>L48 Regional Gas Consumption</b>	<b>80.3</b>	<b>87.0</b>	<b>93.5</b>	<b>93.1</b>	<b>96.8</b>	<b>92.1</b>	▼ -4.8	▼ -0.5
<b>Net LNG Exports</b>	<b>11.2</b>	<b>11.1</b>	<b>11.7</b>	<b>11.8</b>	<b>12.0</b>	<b>11.9</b>	▼ -0.2	▲ 0.2
<b>Total Mexican Exports</b>	<b>6.2</b>	<b>6.0</b>	<b>6.0</b>	<b>6.4</b>	<b>6.4</b>	<b>6.2</b>	▼ -0.2	▼ 0.0
<b>Implied Daily Storage Activity</b>	<b>3.2</b>	<b>-4.2</b>	<b>-9.6</b>	<b>-8.8</b>	<b>-13.3</b>	<b>-9.1</b>	<b>4.2</b>	
<b>EIA Reported Daily Storage Activity</b>	<b>3.7</b>	<b>-3.0</b>	<b>-8.4</b>	<b>-8.4</b>	<b>-12.6</b>			
<b>Daily Model Error</b>	<b>-0.5</b>	<b>-1.2</b>	<b>-1.1</b>	<b>-0.4</b>	<b>-0.7</b>			

### Monthly Balances

	2Yr Ago Dec-19	LY Dec-20	Aug-21	Sep-21	Oct-21	Nov-21	MTD Dec-21	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>95.9</b>	<b>91.6</b>	<b>94.0</b>	<b>93.5</b>	<b>94.0</b>	<b>95.9</b>	<b>96.5</b>	▲ 0.6	▲ 4.9
<b>Canadian Imports</b>	<b>4.5</b>	<b>5.8</b>	<b>5.1</b>	<b>5.1</b>	<b>5.4</b>	<b>5.3</b>	<b>4.9</b>	▼ -0.4	▼ -0.8
L48 Power	29.3	28.0	40.1	33.0	30.2	28.7	28.9	▲ 0.2	▲ 1.0
L48 Residential & Commercial	39.1	40.3	7.9	8.7	13.2	29.6	34.4	▲ 4.9	▼ -5.9
L48 Industrial	24.6	23.4	21.5	20.3	20.3	22.3	23.6	▲ 1.3	▲ 0.2
L48 Lease and Plant Fuel	5.2	5.0	5.1	5.1	5.1	5.2	5.2	▲ 0.0	▲ 0.3
L48 Pipeline Distribution	3.4	3.4	2.6	2.3	2.3	3.1	3.2	▲ 0.1	▼ -0.2
<b>L48 Regional Gas Consumption</b>	<b>101.6</b>	<b>100.0</b>	<b>77.2</b>	<b>69.4</b>	<b>71.3</b>	<b>88.9</b>	<b>95.4</b>	▲ 6.4	▼ -4.7
<b>Net LNG Exports</b>	<b>7.8</b>	<b>11.0</b>	<b>10.5</b>	<b>10.3</b>	<b>10.6</b>	<b>11.4</b>	<b>12.0</b>	▲ 0.7	▲ 1.1
<b>Total Mexican Exports</b>	<b>4.9</b>	<b>5.8</b>	<b>6.9</b>	<b>6.7</b>	<b>6.6</b>	<b>6.1</b>	<b>6.3</b>	▲ 0.2	▲ 0.5
<b>Implied Daily Storage Activity</b>	<b>-13.8</b>	<b>-19.5</b>	<b>4.6</b>	<b>12.1</b>	<b>10.9</b>	<b>-5.3</b>	<b>-12.3</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)

	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	DoD	vs. 7D
NRC Nuclear Daily Output	91.5	92.0	92.0	92.4	92.3	91.0	91.6	0.6	-0.3
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	13.4	12.9	12.9	12.5	12.5	13.9	13.3	-0.6	0.3
NRC % Nuclear Cap Utilization	93.0	93.5	93.5	93.9	93.9	92.5	93.1	0.6	-0.3

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

	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	DoD	vs. 7D
CALI Wind	3065	1464	1855	737	706	755	703	-52	-727
TEXAS Wind	17778	21984	10166	13399	17351	8377	5371	-3006	-9472
US Wind	69334	78485	58030	45197	52087	46964	43099	-3865	-15251

### Generation Daily Average - MWh (EIA)

	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	DoD	vs. 7D
US Wind	69334	78485	58030	45197	52087	46964	43099	-3865	-15251
US Solar	6027	7000	7454	9866	6639	6660	7725	1065	450
US Petroleum	2743	2390	2866	3282	3459	3460	4188	728	1155
US Other	8350	8228	8418	7751	8045	7687	8563	877	484
US Coal	82873	72448	77505	82220	80841	84303	90374	6071	10342
US Nuke	96938	97022	96882	97494	97176	96120	97313	1193	375
US Hydro	30615	30416	30913	32428	31427	31027	35855	4828	4717
<b>US Gas</b>	<b>152065</b>	<b>145006</b>	<b>151893</b>	<b>157195</b>	<b>141625</b>	<b>156736</b>	<b>189840</b>	<b>33104</b>	<b>39087</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	79.8	83.9	86.1	87.8	88.0	90.0	2.1	-0.4
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	25.1	21.0	18.8	17.1	16.9	14.9	-2.1	
NRC % Nuclear Cap Utilization	0.1	0.1	0.1	0.1	0.1	0.1	0.0	

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

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	WoW Bcf/d Impact
CALI Wind	1805	862	1496	363	1263	1709	445	-0.1
TEXAS Wind	12032	13655	14691	8733	12216	16176	3960	-0.7
US Wind	51002	58367	56260	47210	51470	68300	16830	-3.0
					4259.8			
					9%			

### Generation Weekly Average - MWh (EIA)

	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec	WoW	WoW Bcf/d Impact
US Wind	51002	58367	56260	47210	51470	68300	16830	-3.0
US Solar	10015	10068	9086	9918	7402	7422	20	0.0
US Petroleum	2532	2555	3342	3166	3441	2701	-740	0.1
US Other	8205	7849	8442	8483	8435	8459	24	0.0
US Coal	77955	77863	82301	82287	82743	77026	-5716	1.0
US Nuke	84337	88331	91252	92816	92983	95055	2072	-0.4
US Hydro	25422	26216	27837	26777	29626	30244	618	-0.1
<b>US Gas</b>	<b>145215</b>	<b>145263</b>	<b>148208</b>	<b>155286</b>	<b>159459</b>	<b>148543</b>	<b>-10916</b>	<b>2.0</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	Sep-21	Oct-21	Nov-21	Dec-21					
	NRC Nuclear Daily Output	92.2	88.1	87.1	75.5	82.7	89.6	89.2			
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	12.7	16.8	17.8	29.4	22.2	15.3	15.7	-6.9	-1.1		
NRC % Nuclear Cap Utilization	93.7	89.6	88.6	76.8	84.1	91.1	90.7	7.0	1.1		

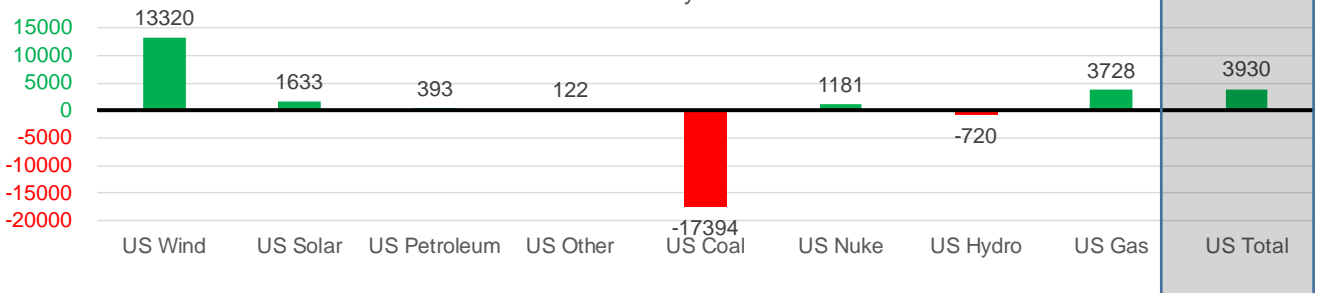
### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD						Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Sep-21	Oct-21	Nov-21	Dec-21					
	CALI Wind	1021	1147	1964	1765	1252	1170	1108			
TEXAS Wind	8928	10159	9213	11565	11869	12173	12212	305	2053		
US Wind	38336	41405	39362	43142	49974	54770	54725	4796	13320		

### 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	Sep-21	Oct-21	Nov-21	Dec-21					
	US Wind	38336	41405	39362	43142	49974	54770	54725			
US Solar	4314	6631	13345	11059	9690	7714	8264	▲ 550.2	▲ 1633		
US Petroleum	2680	2855	2517	3239	3045	3228	3247	▲ 19	▲ 393		
US Other	8468	8298	9021	11109	8435	8394	8420	▲ 26	▲ 122		
US Coal	97326	99283	109915	84433	80848	81730	81889	▲ 159	▼ -17394		
US Nuke	98819	93086	90072	77089	87404	94656	94267	▼ -389	▲ 1181		
US Hydro	28903	30537	25622	24078	26593	30764	29817	▼ -947	▼ -720		
<b>US Gas</b>	<b>156173</b>	<b>152873</b>	<b>173566</b>	<b>159045</b>	<b>151462</b>	<b>159158</b>	<b>156601</b>	▼ -627	▲ 3728		
<b>US Total</b>	<b>435142</b>	<b>433449</b>	<b>463578</b>	<b>413350</b>	<b>417925</b>	<b>440497</b>	<b>437379</b>	▼ -1208	▲ 3930		

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

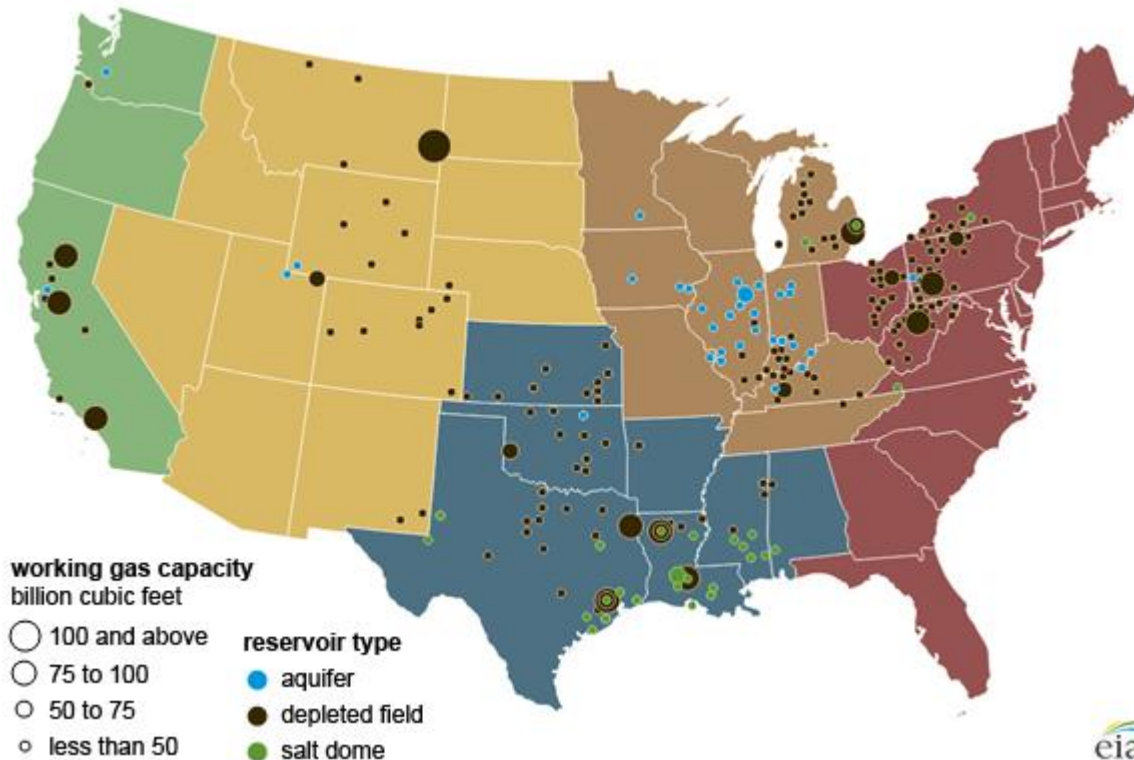
### Regional S/D Models Storage Projection

Week Ending 17-Dec

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-9.3	1.1	-8.2	-58
East	-3.2	2.3	-0.9	-6
Midwest	-3.1	0.1	-3.0	-21
Mountain	1.9	-3.4	-1.5	-10
South Central	-3.9	2.5	-1.4	-10
Pacific	-1.0	-0.5	-1.5	-10

\*Adjustment Factor is calculated based on historical regional deltas

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

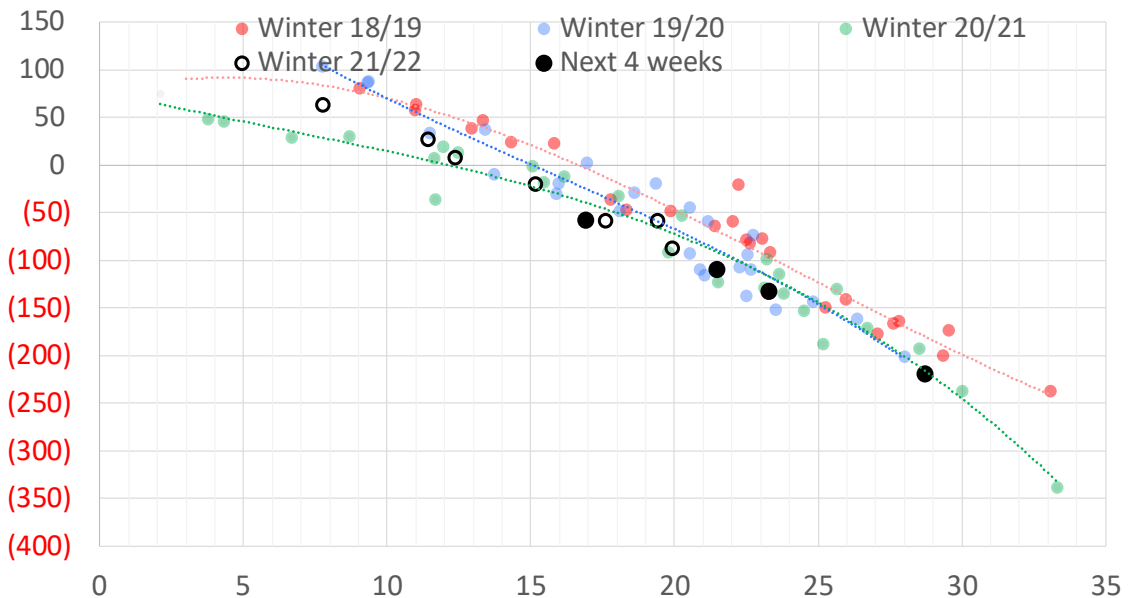


### Weather Model Storage Projection

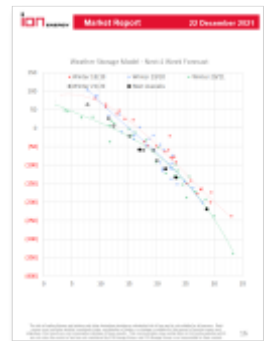
Next report  
and beyond

Week Ending	GWDDs	Week Storage Projection
17-Dec	17	-58
24-Dec	23	-133
31-Dec	21	-109
07-Jan	29	-219

Weather Storage Model - Next 4 Week Forecast

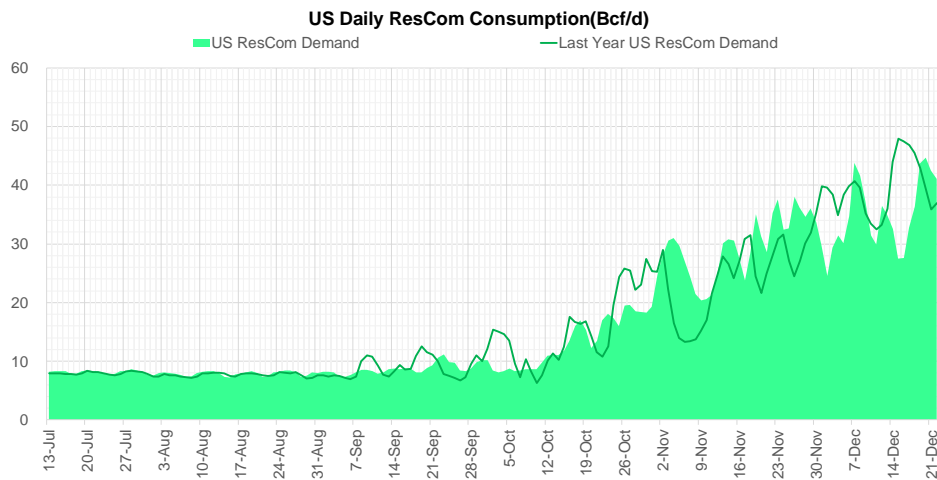
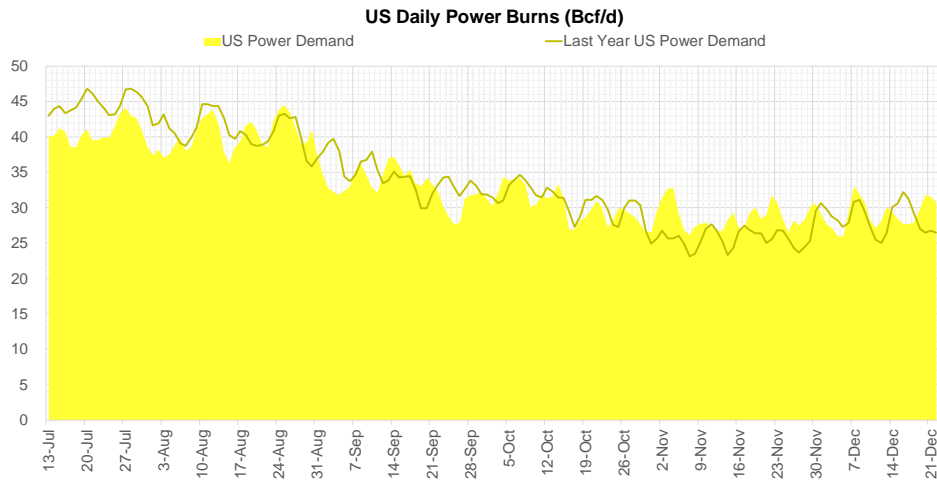
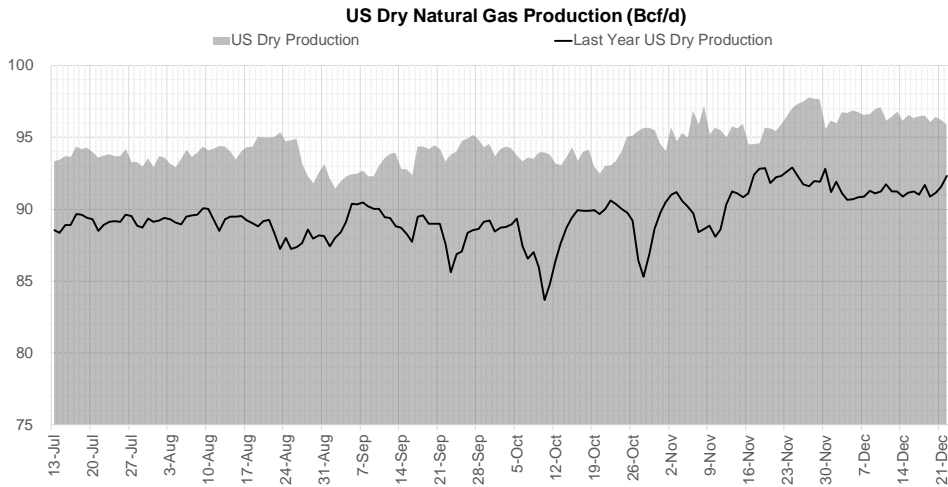


Go to larger image





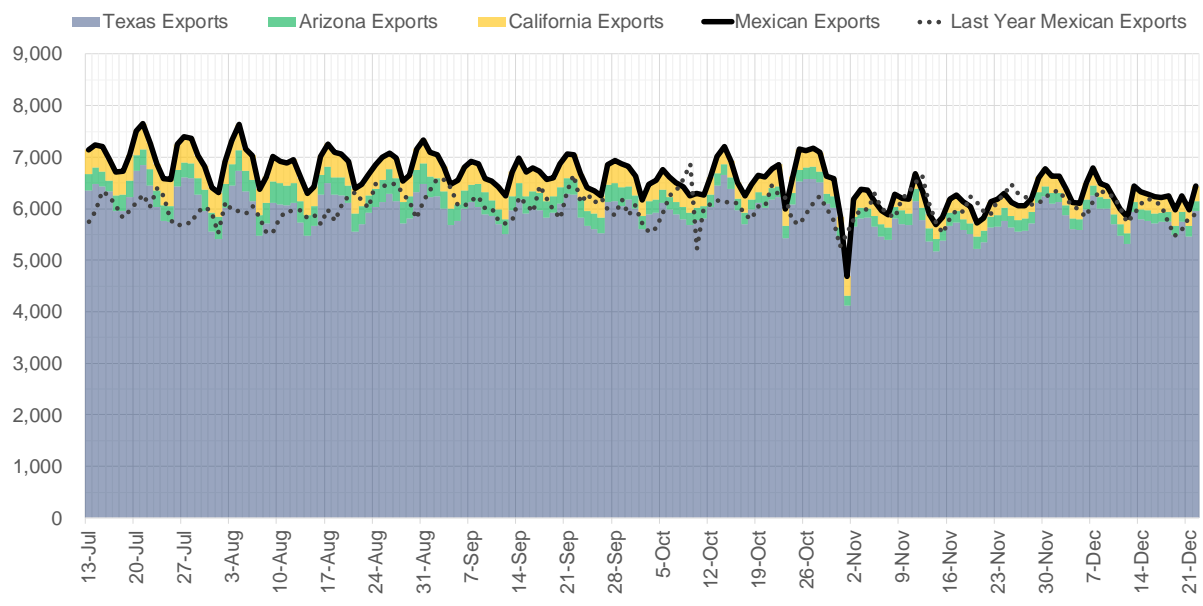
## Supply – Demand Trends



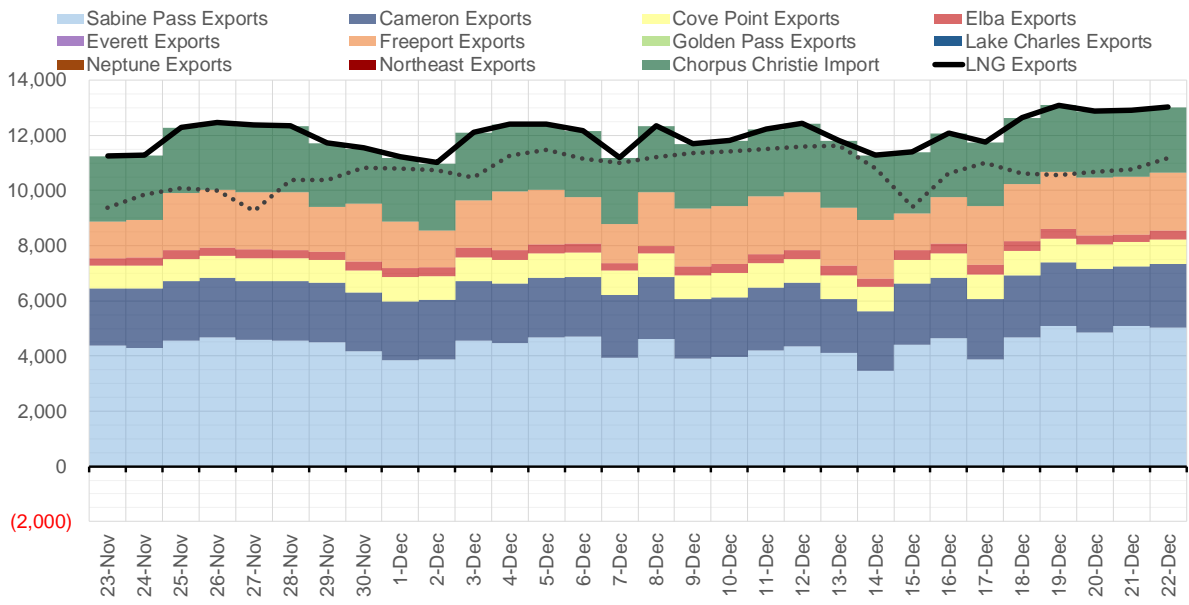
Source: Bloomberg

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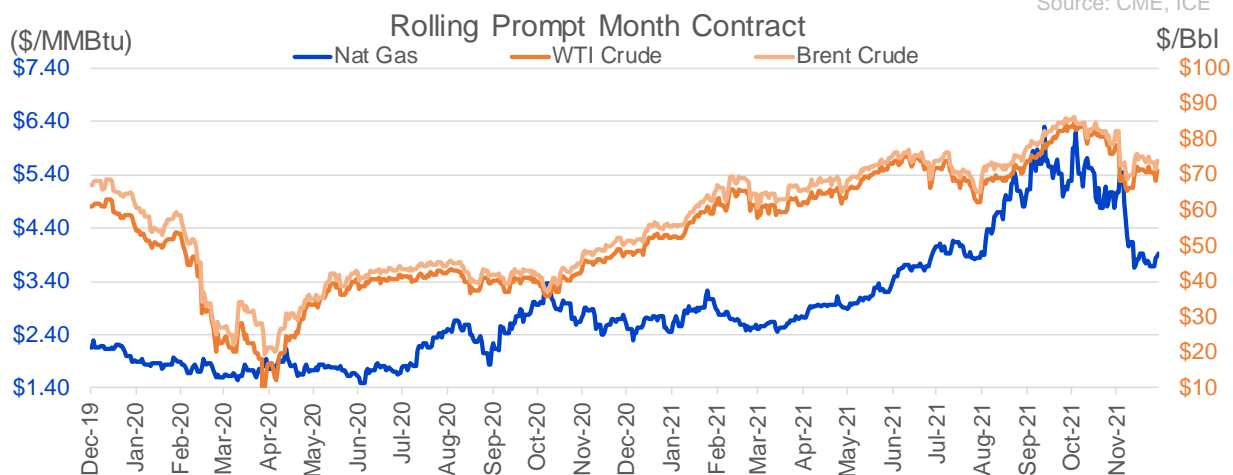
## Nat Gas Options Volume and Open Interest CME and ICE Combined

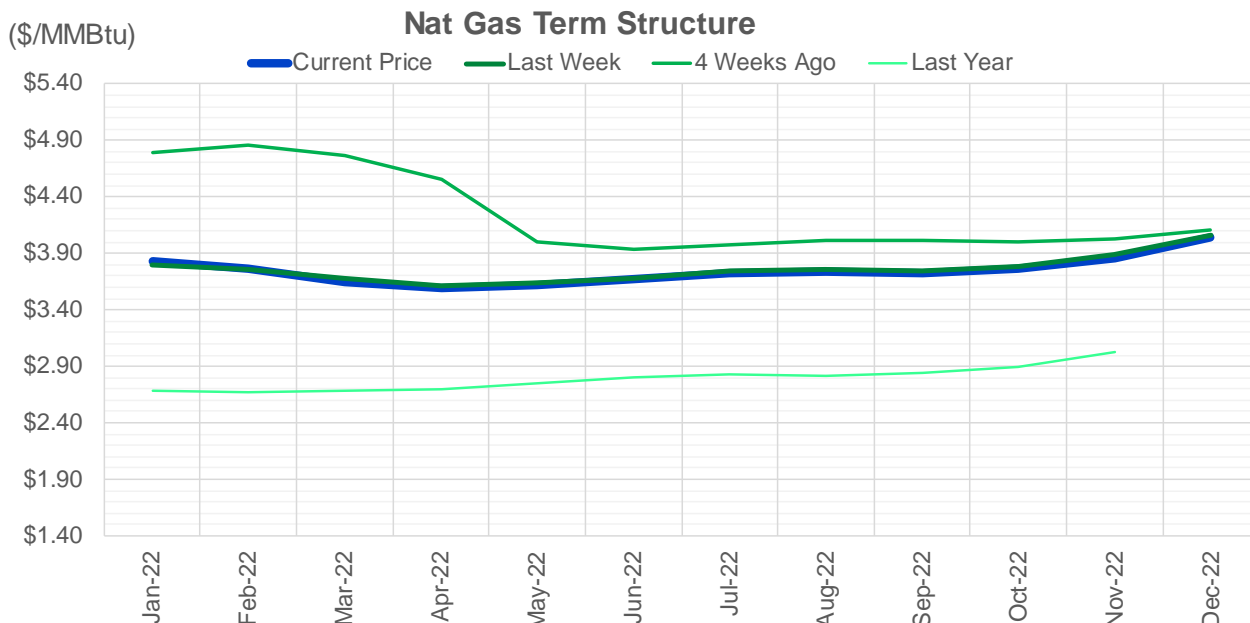
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
1	2022	C	4.50	8107	3	2022	C	10.00	36263
1	2022	C	4.25	5058	1	2022	C	4.00	31397
1	2022	P	3.75	3887	1	2022	P	3.00	27465
1	2022	C	4.75	3508	1	2022	P	4.00	26967
3	2022	C	5.00	3038	3	2022	C	5.00	26344
1	2022	C	4.00	2724	3	2022	C	8.00	25916
1	2022	P	3.50	2697	1	2022	C	5.00	25074
2	2022	C	4.50	2330	2	2022	C	5.00	23619
1	2022	C	3.85	1945	1	2022	P	2.75	23364
1	2022	C	4.40	1782	1	2022	C	6.00	23209
4	2022	C	4.00	1751	3	2022	C	4.00	20878
1	2022	C	4.60	1575	3	2022	C	6.00	20795
1	2022	P	3.25	1475	1	2022	P	3.50	20670
1	2022	C	5.00	1441	1	2022	C	4.50	20319
10	2022	P	2.60	1400	12	2022	C	5.00	20297
10	2022	P	3.25	1400	3	2022	P	2.50	20173
5	2022	C	5.00	1300	4	2022	C	5.00	19793
4	2022	P	3.00	1250	4	2022	C	3.00	19710
1	2022	P	3.60	1003	1	2022	C	10.00	18356
3	2022	P	2.00	1000	1	2022	P	3.25	18060
1	2022	C	3.90	929	2	2022	C	4.00	18022
2	2022	C	5.00	895	3	2022	P	4.00	17649
3	2022	C	4.50	868	2	2022	C	6.00	17636
1	2022	C	4.45	835	2	2022	P	3.50	17628
3	2022	P	2.75	806	1	2022	C	7.00	17572
1	2022	P	3.85	780	3	2022	P	3.50	17464
2	2022	C	6.00	747	3	2022	P	3.00	17431
1	2022	C	4.10	726	3	2022	C	7.00	16849
10	2022	P	3.00	650	5	2022	C	5.00	16300
2	2022	C	6.50	581	2	2022	P	4.00	15912
1	2022	P	4.00	579	6	2022	C	5.00	15392
3	2022	P	3.00	571	10	2022	C	5.00	15316
1	2022	P	3.70	511	4	2022	P	2.50	15242
3	2022	P	1.75	500	2	2022	P	3.00	14494
3	2022	P	2.25	500	10	2022	C	6.00	14475
6	2022	C	4.00	500	2	2022	C	5.50	14184
3	2023	C	20.00	500	2	2022	C	4.50	14040
4	2022	P	3.50	475	2	2022	C	10.00	13756
3	2022	C	6.50	446	5	2022	C	3.00	13733
2	2022	C	7.00	444	1	2022	P	3.80	13617
1	2022	P	3.90	442	3	2022	P	5.00	13507
2	2022	C	4.00	437	1	2022	C	8.00	13463
2	2022	C	8.00	435	6	2022	C	3.00	13438
1	2022	P	3.40	418	10	2022	P	2.00	13294
10	2022	C	4.50	400	12	2022	C	4.50	13274
1	2022	C	4.05	389	7	2022	C	3.00	13230
1	2022	P	3.80	381	8	2022	C	3.00	13226
2	2022	C	5.50	375	9	2022	C	3.00	13225
4	2022	C	6.00	373	3	2022	C	3.00	13178
					8	2022	C	5	13168

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
JAN 22	48556	57996	-9440	JAN 22	75811	79887	-4075
FEB 22	128665	126915	1750	FEB 22	76276	76475	-199
MAR 22	247549	248105	-556	MAR 22	87896	89984	-2088
APR 22	83294	84306	-1012	APR 22	72489	71806	682
MAY 22	112242	113076	-834	MAY 22	69047	69211	-164
JUN 22	52974	52332	642	JUN 22	54311	54233	79
JUL 22	42622	42058	564	JUL 22	58776	58721	55
AUG 22	32085	32636	-551	AUG 22	55151	55102	50
SEP 22	46295	45841	454	SEP 22	55901	55885	16
OCT 22	72650	74058	-1408	OCT 22	62747	62995	-248
NOV 22	34887	35043	-156	NOV 22	50423	50365	58
DEC 22	34682	33851	831	DEC 22	59163	58914	249
JAN 23	38947	39439	-492	JAN 23	46391	46525	-135
FEB 23	12227	12400	-173	FEB 23	36294	36111	183
MAR 23	26804	26698	106	MAR 23	40623	40648	-25
APR 23	19715	19869	-154	APR 23	39983	39967	16
MAY 23	12876	12939	-63	MAY 23	35906	35888	18
JUN 23	10118	10043	75	JUN 23	32314	32298	16
JUL 23	7442	7498	-56	JUL 23	31821	31792	30
AUG 23	4736	4728	8	AUG 23	32808	32787	21
SEP 23	7283	7281	2	SEP 23	31242	31226	16
OCT 23	11851	11830	21	OCT 23	35802	35746	56
NOV 23	6068	6109	-41	NOV 23	35288	35273	15
DEC 23	8863	8885	-22	DEC 23	32607	32586	21
JAN 24	6967	6916	51	JAN 24	23769	23662	107
FEB 24	1644	1592	52	FEB 24	16538	16436	102
MAR 24	9197	9185	12	MAR 24	22416	22307	109
APR 24	4434	4434	0	APR 24	15779	15643	136
MAY 24	2059	2059	0	MAY 24	16207	16090	118
JUN 24	929	929	0	JUN 24	16466	16466	0





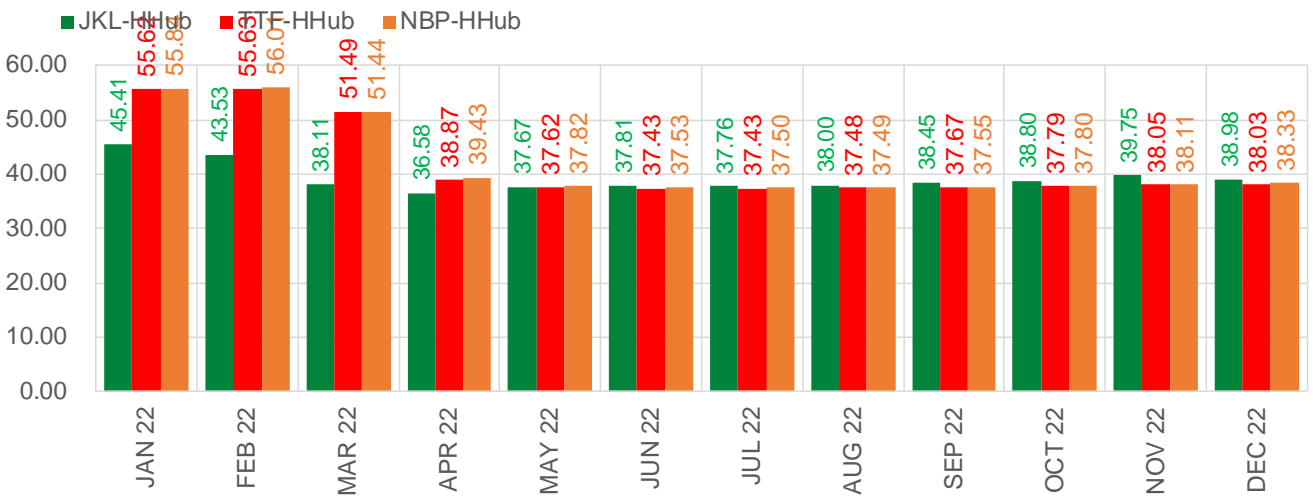
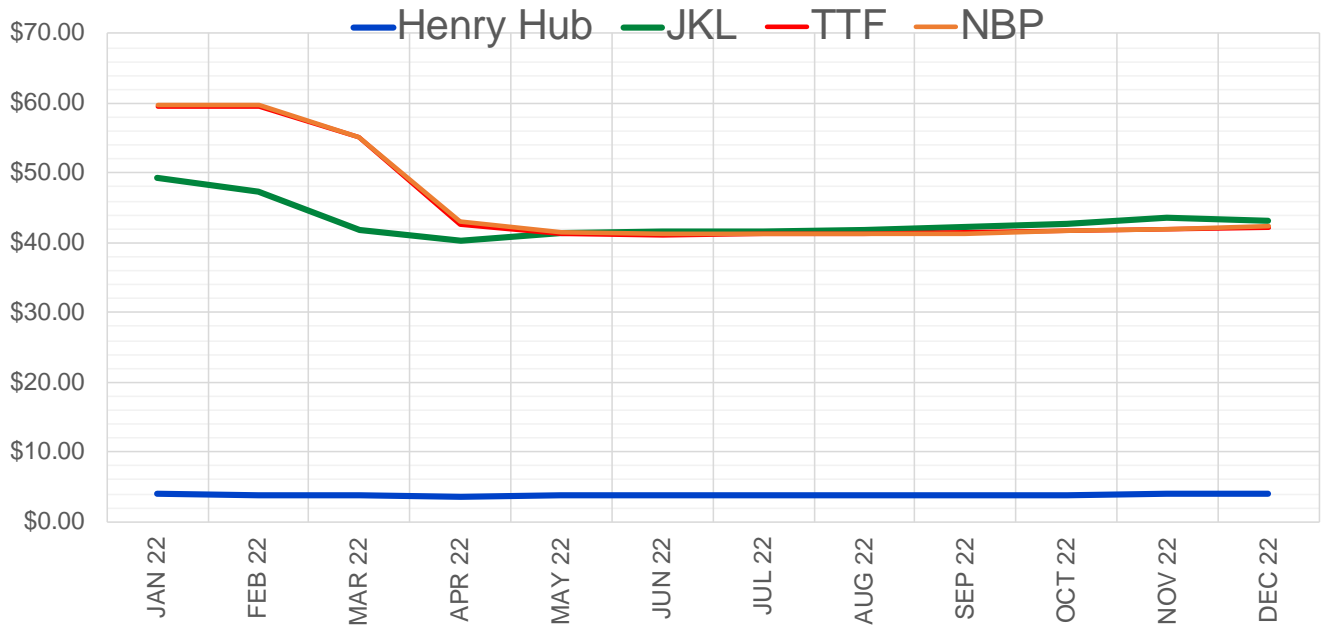
	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
<b>Current Price</b>	<b>\$3.834</b>	<b>\$3.758</b>	<b>\$3.642</b>	<b>\$3.598</b>	<b>\$3.619</b>	<b>\$3.669</b>	<b>\$3.724</b>	<b>\$3.740</b>	<b>\$3.727</b>	<b>\$3.758</b>	<b>\$3.860</b>	<b>\$4.035</b>
Last Week	\$3.794	\$3.761	\$3.673	\$3.617	\$3.639	\$3.685	\$3.739	\$3.759	\$3.751	\$3.782	\$3.883	\$4.059
vs. Last Week	\$0.040	-\$0.003	-\$0.031	-\$0.019	-\$0.020	-\$0.016	-\$0.015	-\$0.019	-\$0.024	-\$0.024	-\$0.023	-\$0.024
4 Weeks Ago	\$4.789	\$4.861	\$4.769	\$4.555	\$3.998	\$3.940	\$3.970	\$4.013	\$4.017	\$3.996	\$4.022	\$4.102
vs. 4 Weeks Ago	-\$0.955	-\$1.103	-\$1.127	-\$0.957	-\$0.379	-\$0.271	-\$0.246	-\$0.273	-\$0.290	-\$0.238	-\$0.162	-\$0.067
Last Year	\$2.705	\$2.689	\$2.670	\$2.685	\$2.697	\$2.747	\$2.808	\$2.826	\$2.814	\$2.843	\$2.897	\$3.021
vs. Last Year	\$1.129	\$1.069	\$0.972	\$0.913	\$0.922	\$0.922	\$0.916	\$0.914	\$0.913	\$0.915	\$0.963	\$1.014

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	62.50	19.93	-42.57
TETCO M3	\$/MMBtu	4.59	3.77	-0.82
FGT Zone 3	\$/MMBtu	4.90	3.89	-1.01
Zone 6 NY	\$/MMBtu	4.90	7.93	3.03
Chicago Citygate	\$/MMBtu	3.70	4.19	0.49
Michcon	\$/MMBtu	3.69	3.58	-0.11
Columbia TCO Pool	\$/MMBtu	3.19	3.35	0.16
Ventura	\$/MMBtu	3.51	4.83	1.32
Rockies/Opal	\$/MMBtu	6.09	4.07	-2.02
El Paso Permian Basin	\$/MMBtu	3.59	3.91	0.32
Socal Citygate	\$/MMBtu	7.43	5.85	-1.58
Malin	\$/MMBtu	6.28	5.02	-1.26
Houston Ship Channel	\$/MMBtu	3.80	4.08	0.28
Henry Hub Cash	\$/MMBtu	3.87	3.69	-0.18
AECO Cash	C\$/GJ	3.38	2.98	-0.40
Station2 Cash	C\$/GJ	3.49	5.66	2.17
Dawn Cash	C\$/GJ	3.73	3.72	-0.01

Source: CME, Bloomberg

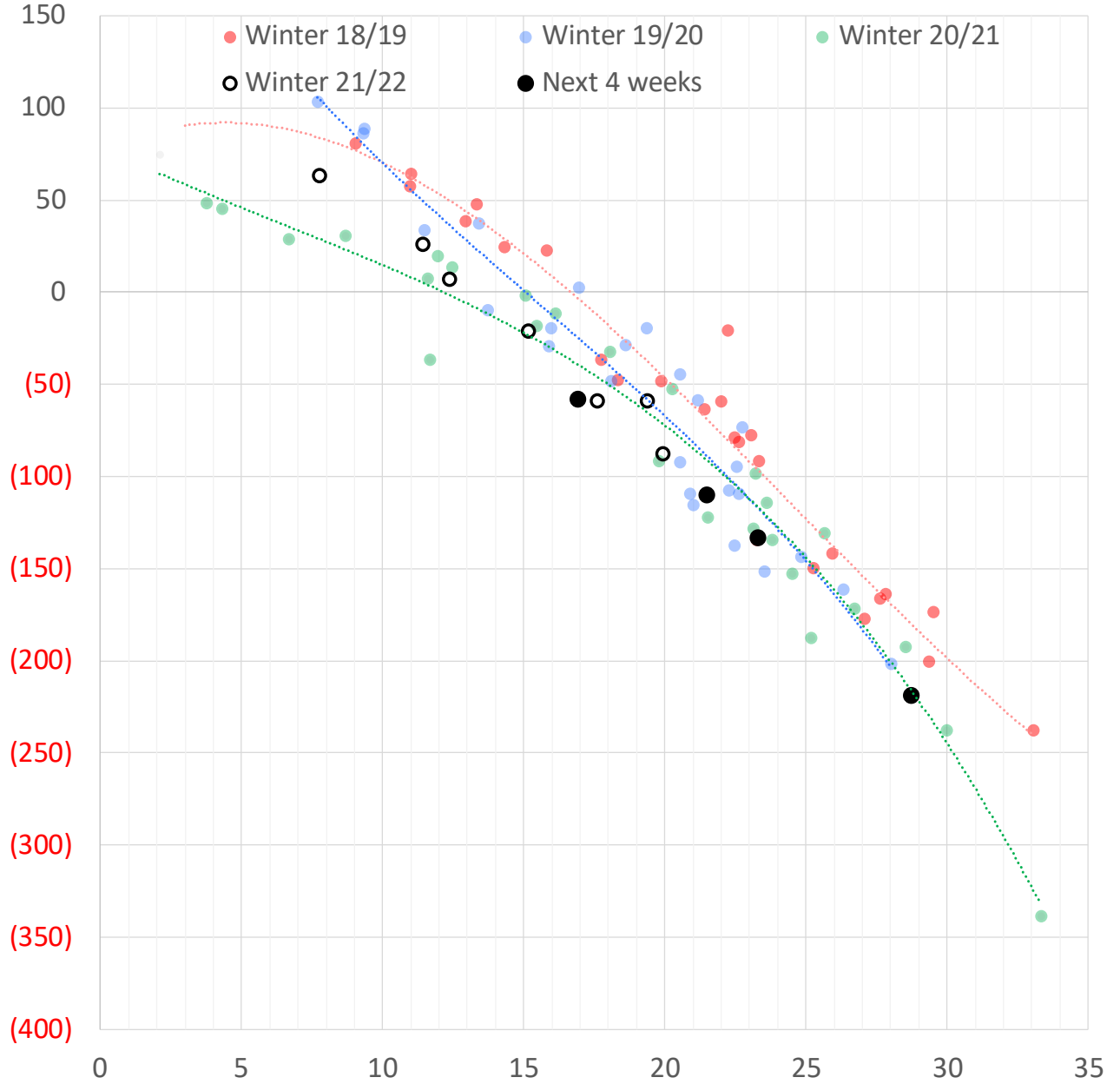
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.190
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.307
NatGas Oct21/Jan22	\$/MMBtu	-1.972	▲ 0.122	▼ -1.166	▼ -2.238
NatGas Apr22/Oct22	\$/MMBtu	0.175	▲ 0.023	▲ 0.159	▲ 0.157
WTI Crude	\$/Bbl	71.12	▲ 0.390	▼ -7.380	▲ 24.100
Brent Crude	\$/Bbl	73.98	▲ 0.280	▼ -8.330	▲ 23.900
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	225.78	▲ 3.940	▼ -12.650	▲ 79.620
Propane, Mt. Bel	cents/Gallon	1.02	▼ -0.017	▼ -0.254	▲ 0.382
Ethane, Mt. Bel	cents/Gallon	0.33	▲ 0.004	▼ -0.069	▲ 0.133
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)



	JAN 22	FEB 22	MAR 22	APR 22	MAY 22	JUN 22	JUL 22	AUG 22	SEP 22	OCT 22	NOV 22	DEC 22
<b>Henry Hub</b>	\$3.935	\$3.839	\$3.699	\$3.662	\$3.687	\$3.740	\$3.795	\$3.813	\$3.801	\$3.837	\$3.934	\$4.110
<b>JKL</b>	\$49.345	\$47.365	\$41.810	\$40.240	\$41.360	\$41.545	\$41.555	\$41.815	\$42.250	\$42.635	\$43.680	\$43.090
JKL-HHHub	\$45.410	\$43.526	\$38.111	\$36.578	\$37.673	\$37.805	\$37.760	\$38.002	\$38.449	\$38.798	\$39.746	\$38.980
<b>TTF</b>	\$59.556	\$59.466	\$55.185	\$42.535	\$41.308	\$41.168	\$41.220	\$41.295	\$41.468	\$41.626	\$41.982	\$42.138
TTF-HHHub	\$55.621	\$55.627	\$51.486	\$38.873	\$37.621	\$37.428	\$37.425	\$37.482	\$37.667	\$37.789	\$38.048	\$38.028
<b>NBP</b>	\$59.777	\$59.852	\$55.139	\$43.094	\$41.506	\$41.265	\$41.297	\$41.299	\$41.347	\$41.633	\$42.040	\$42.443
NBP-HHHub	\$55.842	\$56.013	\$51.440	\$39.432	\$37.819	\$37.525	\$37.502	\$37.486	\$37.546	\$37.796	\$38.106	\$38.333

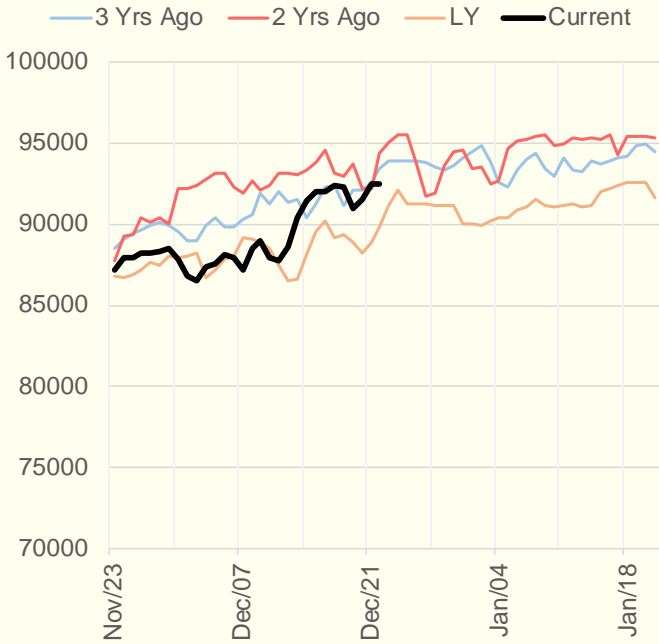
### Weather Storage Model - Next 4 Week Forecast



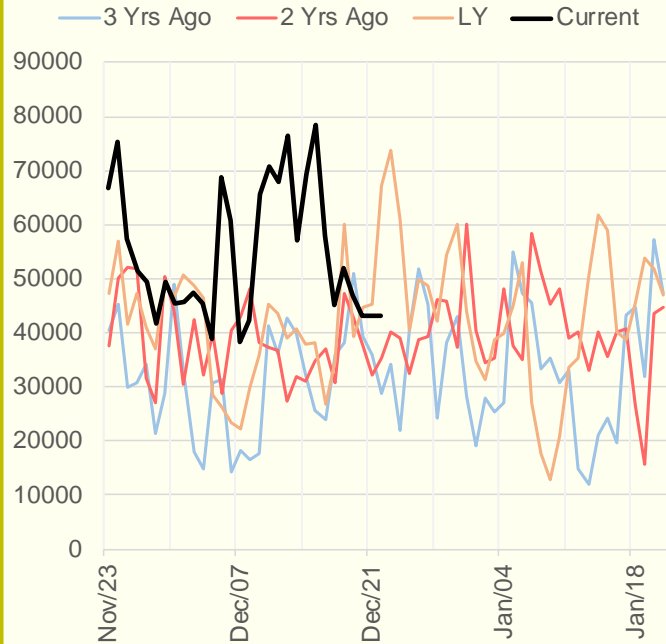
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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



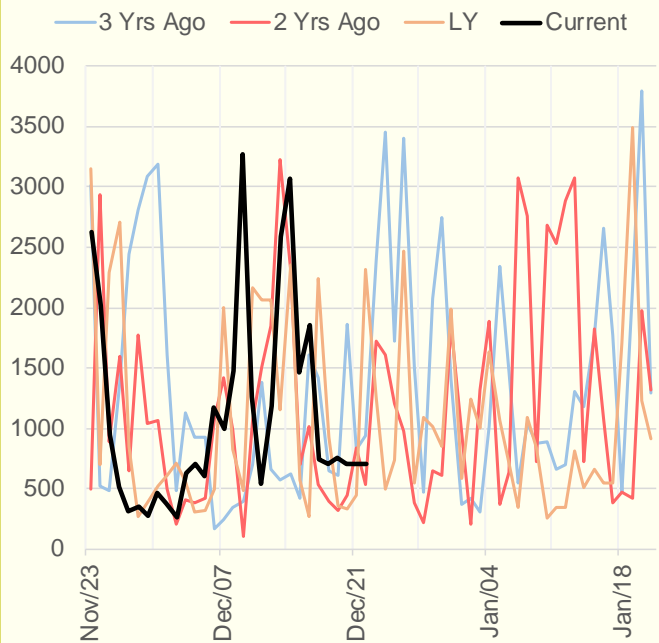
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

