

	Current	Δ from YD	Δ from 7D Avg
Nat Gas Prompt	\$ 7.19	▼ \$ (0.07)	▲ \$ 0.43

	Current	Δ from YD	Δ from 7D Avg
WTI Prompt	\$ 101.03	▼ \$ (0.99)	▼ \$ (0.7)

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 104.33	▼ \$ (0.99)	▼ \$ (1.5)

### Page Menu

[Short-term Weather Model Outlooks](#)

[Lower 48 Component Models](#)

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

[Weather Model Storage Projection](#)

[Supply – Demand Trends](#)

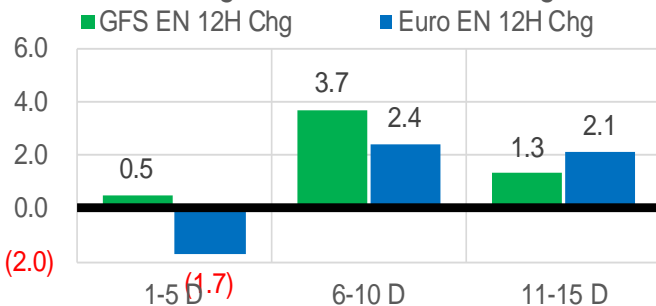
[Nat Gas Options Volume and Open Interest](#)

[Nat Gas Futures Open Interest](#)

[Price Summary](#)

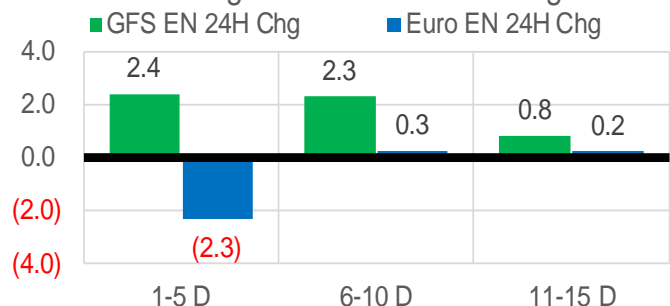
### Vs. 12H Ago

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	95.3	▲ 0.54	▼ -0.99

	Current	Δ from YD	Δ from 7D Avg
US Power Burns	27.4	▼ -0.10	▲ 0.46

	Current	Δ from YD	Δ from 7D Avg
US ResComm	21.8	▼ -1.01	▲ 4.80

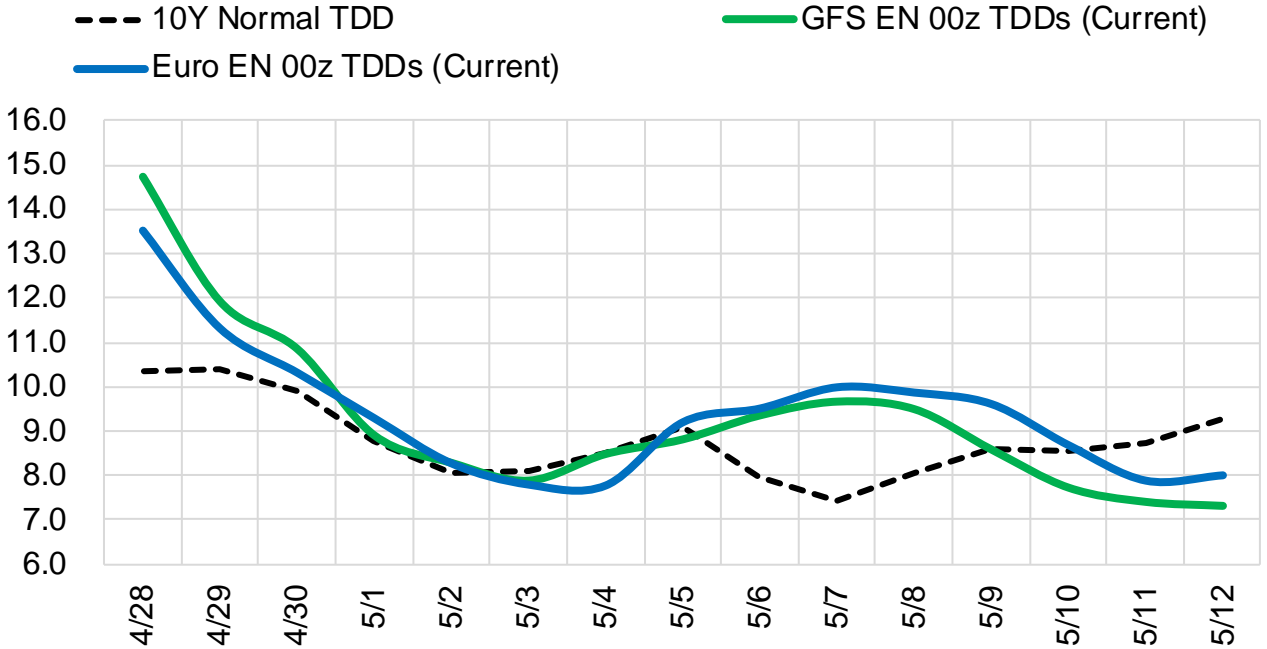
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	4.7	▼ -1.50	▼ -1.24

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	12.3	▼ -0.58	▲ 0.08

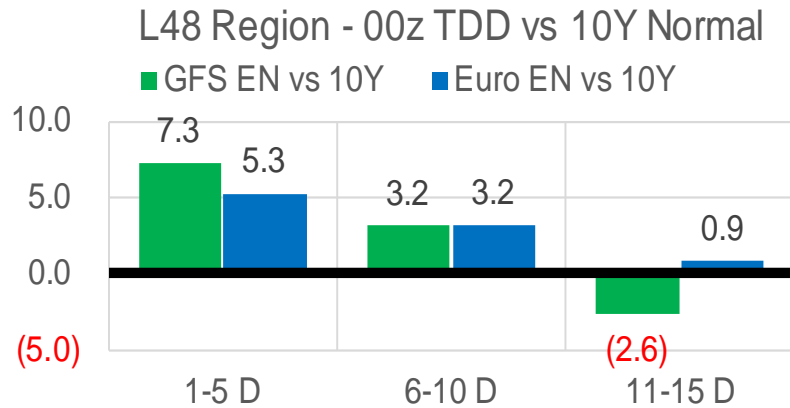
	Current	Δ from YD	Δ from 7D Avg
Mexican Exports	7.3	▲ 0.15	▲ 0.45

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

### L48 Region



## Vs. 10Y Normal



Source: WSI, Bloomberg

## Lower 48 Component Models

### Daily Balances

	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	DoD	vs. 7D
<b>Lower 48 Dry Production</b>	<b>97.0</b>	<b>97.4</b>	<b>95.8</b>	<b>96.4</b>	<b>95.3</b>	<b>94.8</b>	<b>95.3</b>	▲ 0.5	▼ -0.8
<b>Canadian Imports</b>	<b>5.5</b>	<b>5.3</b>	<b>5.8</b>	<b>6.5</b>	<b>7.0</b>	<b>6.2</b>	<b>4.7</b>	▼ -1.5	▼ -1.3
L48 Power	25.3	25.0	26.2	28.7	28.7	27.5	27.4	▼ -0.1	▲ 0.5
L48 Residential & Commercial	16.1	12.9	12.6	16.9	20.5	22.8	21.8	▼ -1.0	▲ 4.8
L48 Industrial	20.8	20.2	20.4	20.9	21.2	21.3	21.2	▼ -0.2	▲ 0.4
L48 Lease and Plant Fuel	5.3	5.3	5.2	5.3	5.2	5.2	5.2	▲ 0.0	▼ -0.1
L48 Pipeline Distribution	2.3	2.1	2.1	2.5	2.7	2.8	2.7	▼ -0.1	▲ 0.3
<b>L48 Regional Gas Consumption</b>	<b>69.7</b>	<b>65.5</b>	<b>66.6</b>	<b>74.4</b>	<b>78.3</b>	<b>79.6</b>	<b>78.2</b>	▼ -1.3	▲ 5.9
<b>Net LNG Delivered</b>	<b>11.92</b>	<b>12.53</b>	<b>11.81</b>	<b>11.96</b>	<b>12.59</b>	<b>12.91</b>	<b>12.32</b>	▼ -0.6	▲ 0.0
<b>Total Mexican Exports</b>	<b>6.8</b>	<b>6.4</b>	<b>6.3</b>	<b>7.1</b>	<b>7.4</b>	<b>7.1</b>	<b>7.3</b>	▲ 0.1	▲ 0.5
Implied Daily Storage Activity	14.1	18.3	16.9	9.5	4.1	1.4	2.2		
EIA Reported Daily Storage Activity									
Daily Model Error									

### EIA Storage Week Balances

	18-Mar	25-Mar	1-Apr	8-Apr	15-Apr	22-Apr	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>93.9</b>	<b>95.4</b>	<b>96.1</b>	<b>96.1</b>	<b>96.5</b>	<b>96.9</b>	▲ 0.4	▲ 0.9
<b>Canadian Imports</b>	<b>5.2</b>	<b>4.8</b>	<b>5.7</b>	<b>5.8</b>	<b>5.6</b>	<b>5.8</b>	▲ 0.3	▲ 0.4
L48 Power	27.3	25.6	26.9	26.7	26.7	26.8	▲ 0.1	▲ 0.3
L48 Residential & Commercial	31.5	23.5	29.7	24.3	21.6	23.4	▲ 1.8	▼ -1.4
L48 Industrial	20.7	20.8	22.5	21.8	20.5	21.3	▲ 0.9	▼ -0.1
L48 Lease and Plant Fuel	5.1	5.2	5.2	5.2	5.3	5.3	▲ 0.0	▲ 0.1
L48 Pipeline Distribution	3.1	2.6	2.9	2.8	2.7	2.8	▲ 0.1	▲ 0.0
<b>L48 Regional Gas Consumption</b>	<b>87.7</b>	<b>77.5</b>	<b>87.3</b>	<b>80.9</b>	<b>76.7</b>	<b>79.6</b>	▲ 2.9	▼ -1.0
<b>Net LNG Exports</b>	<b>12.9</b>	<b>13.0</b>	<b>13.1</b>	<b>12.4</b>	<b>12.5</b>	<b>12.1</b>	▼ -0.3	▼ -0.6
<b>Total Mexican Exports</b>	<b>6.6</b>	<b>6.5</b>	<b>6.4</b>	<b>6.8</b>	<b>6.6</b>	<b>6.7</b>	▲ 0.1	▲ 0.1
Implied Daily Storage Activity	-7.9	3.2	-5.0	1.7	6.4	4.4	-2.0	
EIA Reported Daily Storage Activity	-7.3	3.7	-4.7	2.1	7.6			
Daily Model Error	-0.7	-0.5	-0.3	-0.4	-1.2			

### Monthly Balances

	2Yr Ago	LY	MTD					MoM	vs. LY
	Apr-20	Apr-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22		
<b>Lower 48 Dry Production</b>	<b>92.7</b>	<b>92.5</b>	<b>96.1</b>	<b>93.6</b>	<b>93.6</b>	<b>95.1</b>	<b>96.4</b>	▲ 1.3	▲ 3.9
<b>Canadian Imports</b>	<b>4.0</b>	<b>4.7</b>	<b>4.8</b>	<b>6.7</b>	<b>6.6</b>	<b>5.2</b>	<b>5.8</b>	▲ 0.6	▲ 1.1
L48 Power	25.6	25.0	28.7	31.4	29.0	26.9	26.8	▼ -0.1	▲ 1.8
L48 Residential & Commercial	20.5	19.6	33.9	48.6	42.7	29.6	21.7	▼ -7.8	▲ 2.2
L48 Industrial	20.4	21.4	22.5	25.5	25.3	21.7	21.1	▼ -0.6	▼ -0.3
L48 Lease and Plant Fuel	5.0	5.0	5.3	5.1	5.1	5.2	5.3	▲ 0.1	▲ 0.2
L48 Pipeline Distribution	2.4	2.5	3.2	3.8	3.4	2.9	2.7	▼ -0.3	▲ 0.2
<b>L48 Regional Gas Consumption</b>	<b>74.0</b>	<b>73.5</b>	<b>93.6</b>	<b>114.4</b>	<b>105.5</b>	<b>86.3</b>	<b>77.5</b>	▼ -8.7	▲ 4.1
<b>Net LNG Exports</b>	<b>8.2</b>	<b>11.5</b>	<b>12.1</b>	<b>12.4</b>	<b>12.4</b>	<b>12.9</b>	<b>12.3</b>	▼ -0.5	▲ 0.8
<b>Total Mexican Exports</b>	<b>4.8</b>	<b>6.7</b>	<b>6.2</b>	<b>6.3</b>	<b>6.2</b>	<b>6.5</b>	<b>6.7</b>	▲ 0.2	▲ 0.0
Implied Daily Storage Activity	9.7	5.5	-11.0	-32.8	-23.8	-5.4	5.6		
EIA Reported Daily Storage Activity									
Daily Model Error									

Source: Bloomberg, analytix.ai

## Daily Average Generation Data

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

	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	DoD	vs. 7D
NRC Nuclear Daily Output	72.8	73.1	73.3	71.8	72.8	73.7	74.4	0.7	1.5
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	32.1	31.8	31.5	33.0	32.1	31.2	30.5	-0.7	-1.5
NRC % Nuclear Cap Utilization	74.0	74.3	74.6	73.0	74.0	75.0	75.6	0.7	1.5

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

	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	DoD	vs. 7D
CALI Wind	3822	3521	4097	2605	1464	1249	3181	1933	388
TEXAS Wind	18570	20882	23539	21762	16752	17138	10426	-6712	-9348
US Wind	67563	65112	78521	79445	64414	57892	47262	-10630	-21562

### Generation Daily Average - MWh (EIA)

	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	DoD	vs. 7D
US Wind	67563	65112	78521	79445	64414	57892	47262	-10630	-21562
US Solar	16728	15162	13803	16035	17056	16450	15328	-1122	-545
US Petroleum	1022	1006	960	943	990	1028	993	-35	1
US Other	7395	7495	7330	7445	7643	7594	7729	135	246
US Coal	76825	79747	75613	69803	71589	77008	79523	2515	4425
US Nuke	76944	77186	77313	75973	76659	77686	78059	373	1099
US Hydro	28094	26177	25932	23909	24015	26268	25826	-441	94
<b>US Gas</b>	<b>135912</b>	<b>135448</b>	<b>126911</b>	<b>111838</b>	<b>119107</b>	<b>142081</b>	<b>147470</b>	<b>5389</b>	<b>18920</b>

See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

## Storage Week Average Generation Data

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

	18-Mar	25-Mar	1-Apr	8-Apr	15-Apr	22-Apr	WoW	WoW Bcf/d Impact
NRC Nuclear Daily Output	80.9	80.9	79.3	75.0	71.9	72.3	0.4	-0.1
NRC Nuclear Max Capacity	104.9	104.9	104.9	104.9	104.9	104.9	0.0	
NRC Nuclear Outage	23.9	24.0	25.5	29.9	32.9	32.6	-0.4	
NRC % Nuclear Cap Utilization	82.3	82.3	80.7	76.3	73.2	73.5	0.4	

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

	18-Mar	25-Mar	1-Apr	8-Apr	15-Apr	22-Apr	WoW	WoW Bcf/d Impact
CALI Wind	2297	2037	2643	2611	3434	3613	179	0.0
TEXAS Wind	17742	16108	14530	14468	16530	15612	-918	0.2
US Wind	63171	62107	61695	60009	66367	61075	-5293	1.0
							-8%	
							-0.1	

### Generation Weekly Average - MWh (EIA)

	18-Mar	25-Mar	1-Apr	8-Apr	15-Apr	22-Apr	WoW	WoW Bcf/d Impact
							est.	
US Wind	63171	62107	61695	60009	66367	61075	-5293	1.0
US Solar	13919	13805	15451	15518	16118	15609	-509	0.1
US Petroleum	961	864	1048	1015	964	984	19	0.0
US Other	7120	7745	7481	7183	7154	7479	325	-0.1
US Coal	86035	72503	77743	77514	77087	78074	987	-0.2
US Nuke	84775	84027	83506	78807	75674	76478	804	-0.1
US Hydro	34883	33229	33463	32524	29415	27303	-2112	0.4
<b>US Gas</b>	<b>137079</b>	<b>124817</b>	<b>134886</b>	<b>134633</b>	<b>134338</b>	<b>132832</b>	<b>-1506</b>	<b>-0.3</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	Jan-22	Feb-22	Mar-22	Apr-22			
	NRC Nuclear Daily Output	78.5	75.8	90.2	87.6	81.3			
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	26.4	29.1	14.7	17.3	23.6	31.6	31.2	8.1	2.2
NRC % Nuclear Cap Utilization	79.8	77.1	91.7	89.0	82.7	74.5	74.9	-8.2	-2.2

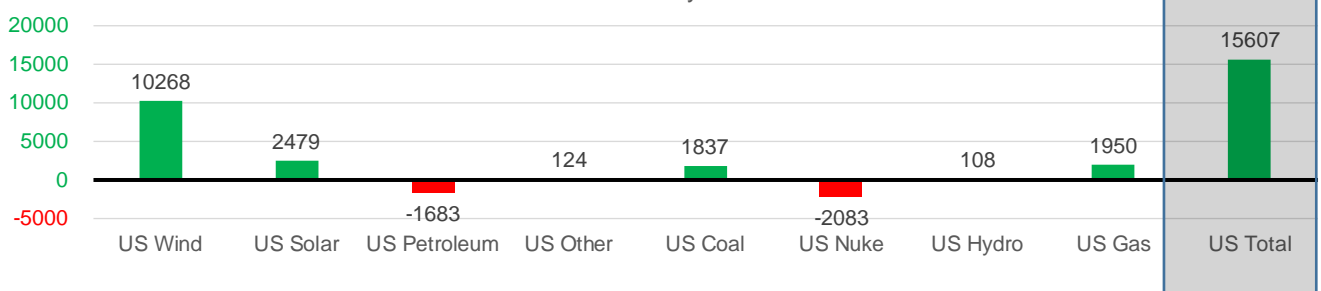
### Wind Generation Monthly Average - MWh (EIA)

	2Yr Ago	LY	MTD				Last 30 days	MoM (MTD vs LY)	Last 30 days YoY
	Same 30 days	Same 30 days	Jan-22	Feb-22	Mar-22	Apr-22			
	CALI Wind	2309	3045	1244	1559	2250			
TEXAS Wind	10189	12724	11355	12294	14837	15598	15342	761	2618
US Wind	40246	51864	51045	56539	58520	61936	62132	3416	10268

### 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	Jan-22	Feb-22	Mar-22	Apr-22			
	US Wind	40246	51864	51045	56539	58520			
US Solar	9537	13117	9541	12188	14053	15716	15596	▼ -120.0	▲ 2479
US Petroleum	2912	2669	5021	3451	1335	987	986	▼ -1	▼ -1683
US Other	7535	7224	8792	8839	7187	7354	7348	▼ -7	▲ 124
US Coal	56520	75339	117971	106588	82291	77190	77176	▼ -13	▲ 1837
US Nuke	82459	79566	95259	92280	85157	77090	77483	▲ 393	▼ -2083
US Hydro	31075	28889	34040	32213	33927	28653	28997	▲ 344	▲ 108
<b>US Gas</b>	<b>137860</b>	<b>132471</b>	<b>164024</b>	<b>152058</b>	<b>135583</b>	<b>134106</b>	<b>134421</b>	▲ 791	▲ 1950
<b>US Total</b>	<b>366482</b>	<b>391020</b>	<b>485878</b>	<b>464684</b>	<b>419867</b>	<b>405659</b>	<b>406627</b>	▲ 1386	▲ 15607

Last 30 days YoY



See National Wind and Nuclear daily charts

Source: Bloomberg, analytix.ai

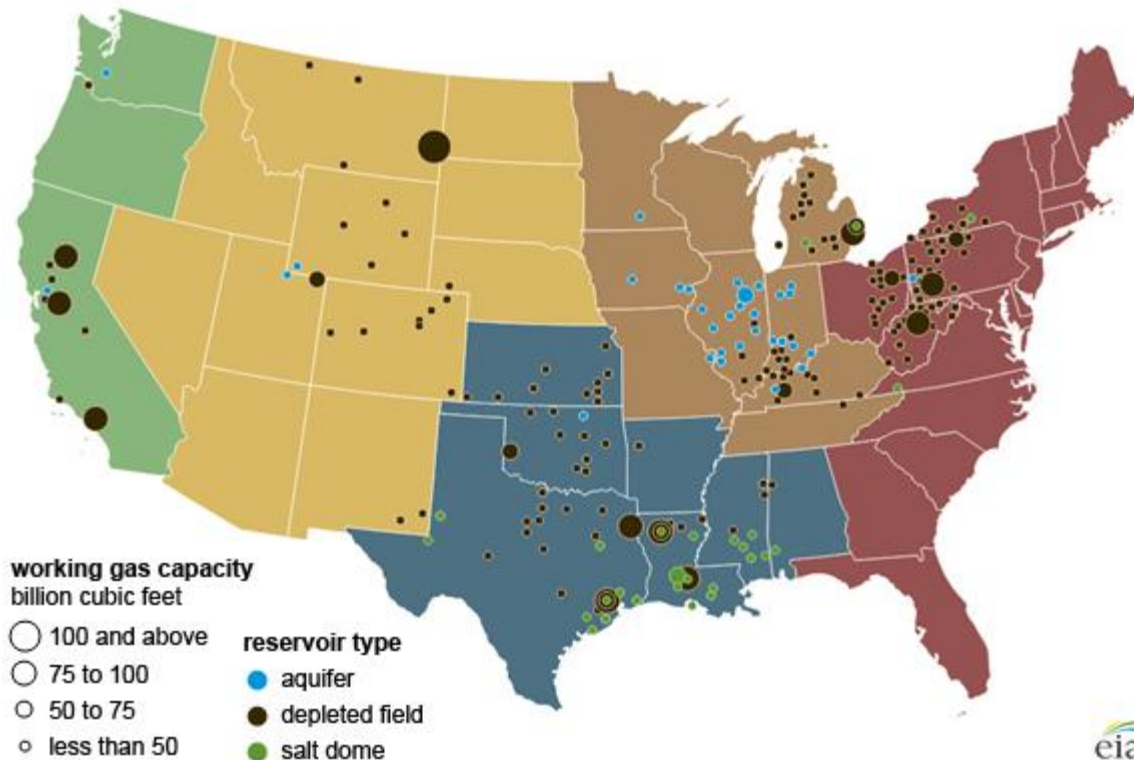
### Regional S/D Models Storage Projection

Week Ending 22-Apr

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	4.8	0.3	5.1	36
East	-1.6	1.6	0.1	1
Midwest	1.1	-0.6	0.5	4
Mountain	3.6	-3.5	0.1	1
South Central	1.9	2.4	4.3	30
Pacific	-0.2	0.3	0.1	1

\*Adjustment Factor is calculated based on historical regional deltas

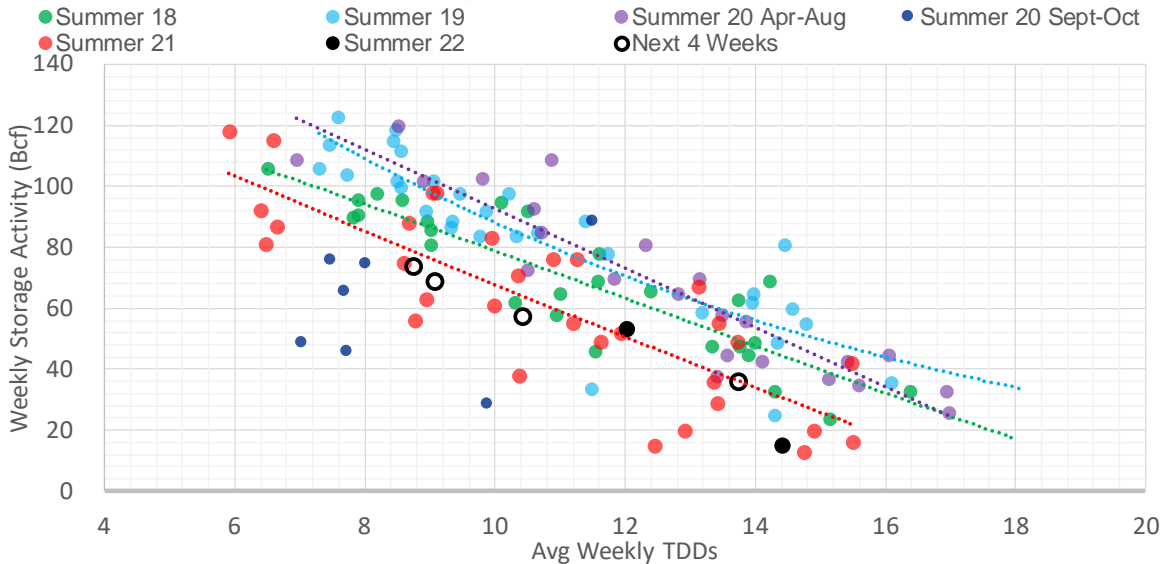
U.S. underground natural gas storage facilities by type (July 2015)



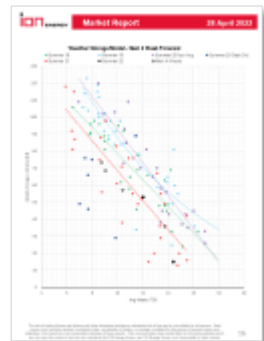
### Weather Model Storage Projection

Next report and beyond		
Week Ending	TDDs	Week Storage Projection
22-Apr	13.8	36
29-Apr	10.4	57
06-May	9.1	68
13-May	8.8	73

### Weather Storage Model - Next 4 Week Forecast

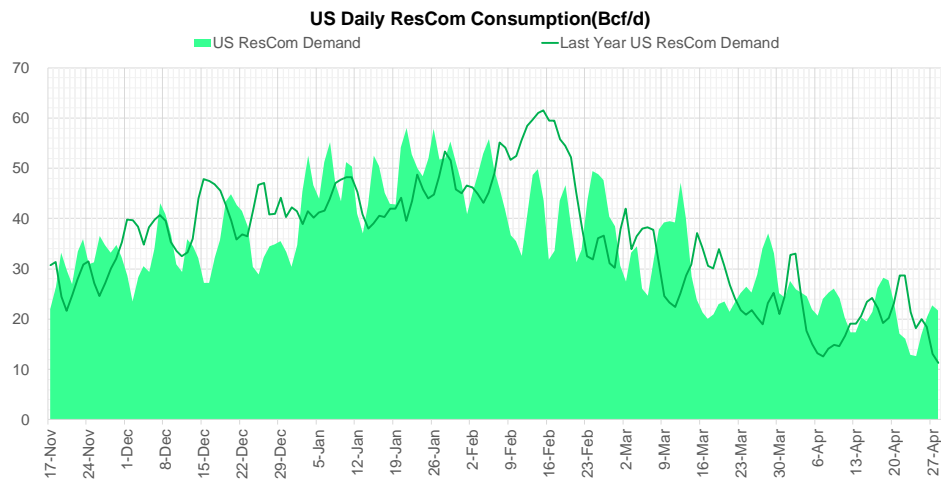
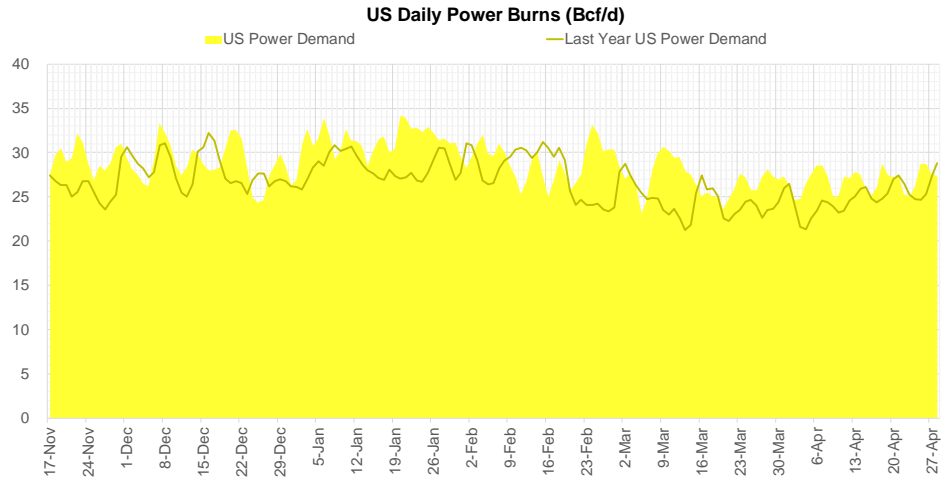
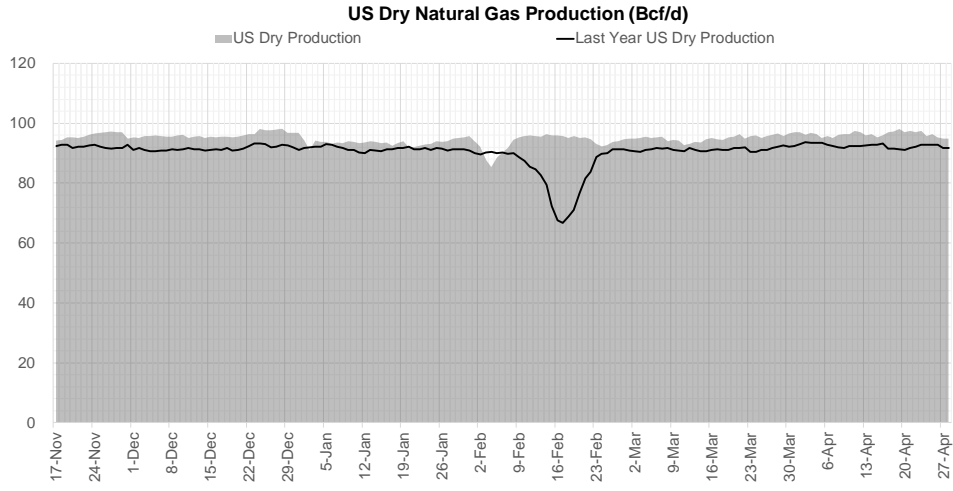


Go to larger image





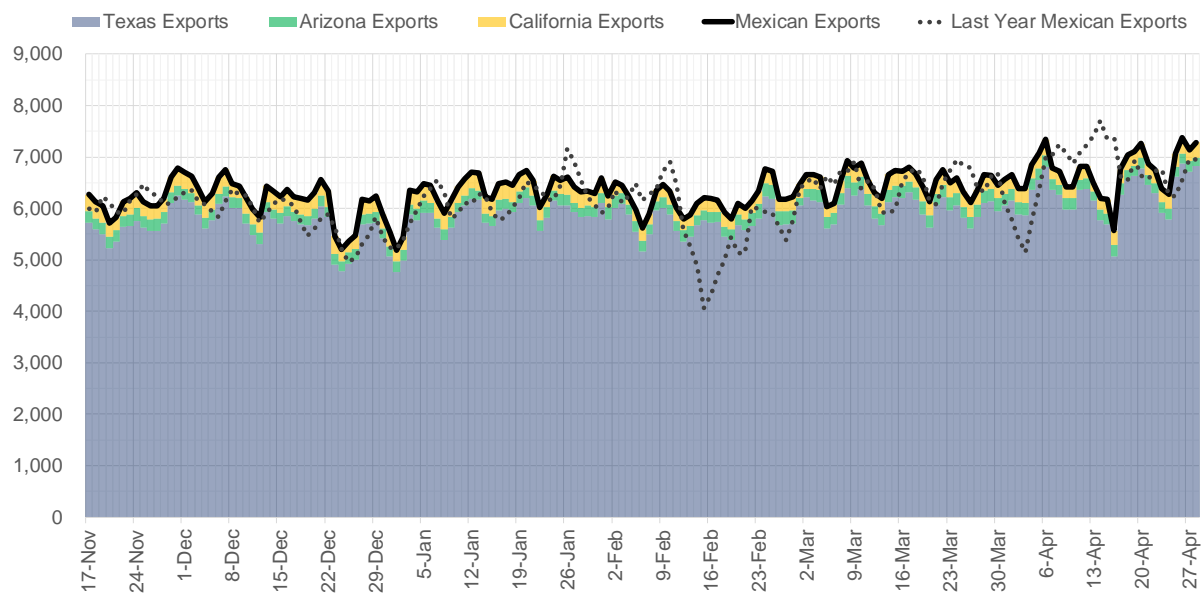
## Supply – Demand Trends



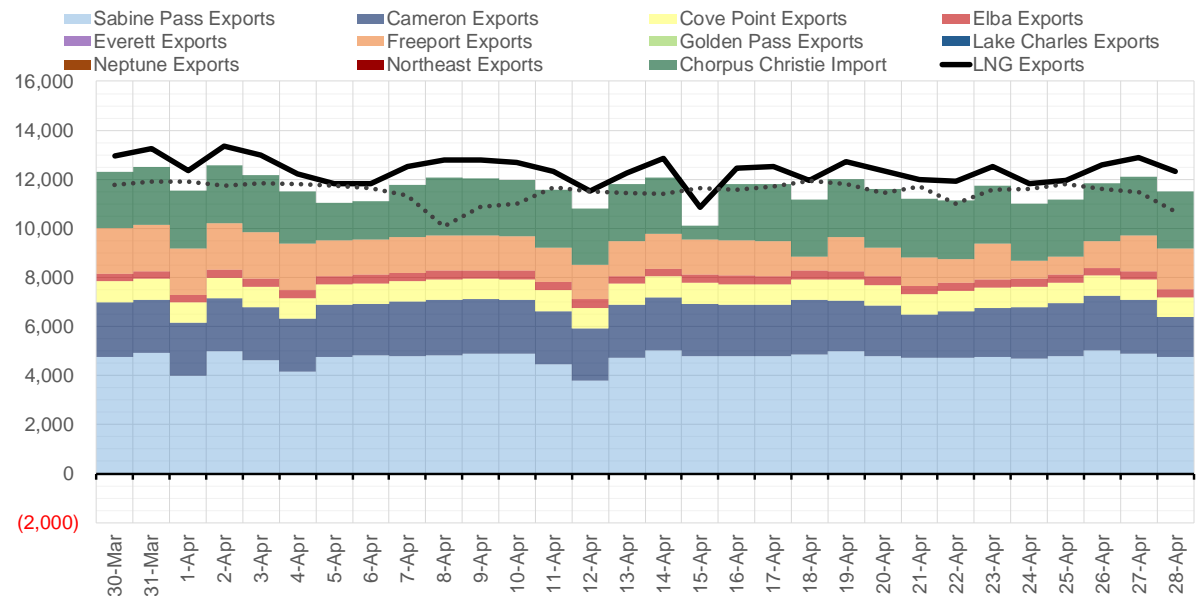
Source: Bloomberg

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.

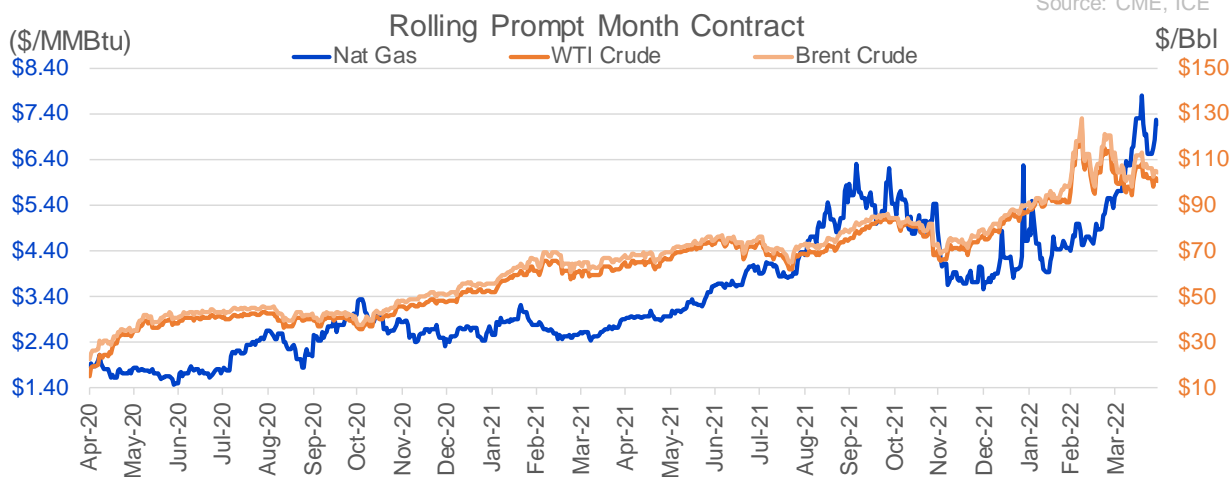
### Nat Gas Options Volume and Open Interest CME and ICE Combined

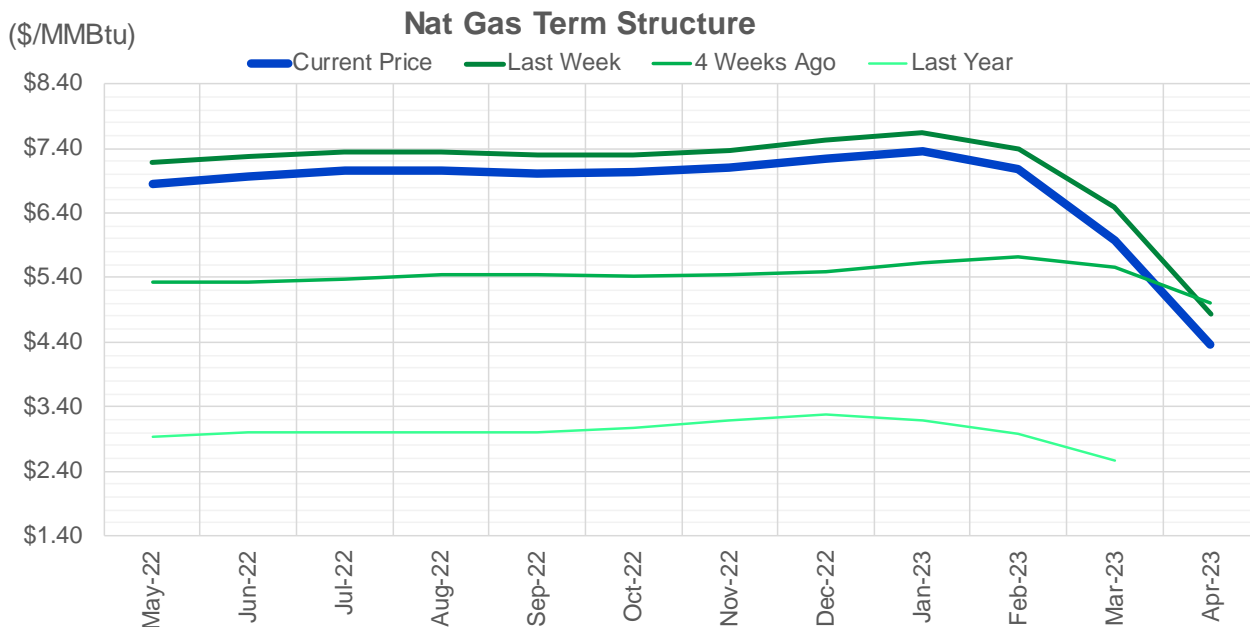
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
6	2022	C	9.50	10329	8	2022	C	10.00	50201
6	2022	C	8.50	8197	8	2022	C	10.50	44028
6	2022	P	6.00	8037	10	2022	C	6.00	34934
7	2022	P	5.00	6124	6	2022	C	6.00	25599
6	2022	P	6.25	5168	10	2022	C	5.00	25550
6	2022	C	8.00	4381	9	2022	C	6.00	23730
6	2022	C	9.00	3840	7	2022	C	8.00	22523
7	2022	C	8.00	3383	10	2022	P	3.00	21017
8	2022	C	8.00	3121	6	2022	P	4.00	20132
10	2022	C	10.00	3071	8	2022	C	6.00	19702
8	2022	C	7.50	3069	6	2022	C	7.00	19476
1	2023	P	4.00	2950	7	2022	C	6.00	19141
7	2022	C	7.50	2449	12	2022	C	5.00	18421
6	2022	C	7.50	2324	10	2022	P	3.50	18141
7	2022	C	10.00	2088	8	2022	C	7.00	18047
11	2022	P	4.00	2077	9	2022	C	7.00	17920
6	2022	P	5.50	1903	7	2022	C	7.00	17871
6	2022	C	10.00	1744	6	2022	C	5.00	17862
6	2022	P	5.00	1693	9	2022	C	10.00	17819
9	2022	C	10.00	1658	7	2022	P	3.25	17645
6	2022	P	7.00	1595	6	2022	C	10.00	17507
7	2022	C	8.10	1500	7	2022	C	10.00	17469
1	2023	P	3.75	1500	10	2022	P	2.50	17436
8	2022	C	10.00	1478	6	2022	P	3.00	17223
7	2022	P	6.00	1382	10	2022	P	4.00	16475
3	2023	P	2.75	1325	6	2022	P	4.75	16038
7	2022	C	11.00	1319	6	2022	P	3.50	15977
3	2023	C	20.00	1260	7	2022	P	5.00	15707
3	2023	C	6.00	1250	1	2023	C	10.00	15685
6	2022	P	6.50	1197	6	2022	C	9.00	15634
6	2022	P	5.75	1088	6	2022	P	5.50	15498
11	2022	P	5.00	1027	2	2023	C	10.00	15394
7	2022	C	12.00	1011	9	2022	P	2.50	15291
2	2023	C	7.75	1000	7	2022	P	3.50	14935
3	2023	C	7.75	1000	9	2022	P	2.75	14933
10	2022	C	12.00	977	10	2022	P	2.00	14764
9	2022	P	3.50	974	7	2022	P	3.00	14500
6	2022	C	12.00	940	8	2022	P	3.00	14450
4	2024	C	5.00	936	9	2022	P	3.00	14341
5	2024	C	5.00	936	6	2022	P	3.75	14279
6	2024	C	5.00	936	10	2022	P	3.25	14248
7	2024	C	5.00	936	12	2022	C	6.00	13951
8	2024	C	5.00	936	10	2022	C	7.00	13759
9	2024	C	5.00	936	10	2022	P	6.00	13707
10	2024	C	5.00	936	7	2022	P	4.00	13623
10	2022	C	10.50	900	6	2022	P	4.50	13474
4	2023	C	4.50	850	4	2023	C	5.00	13455
6	2022	C	11.00	834	6	2022	C	3.00	13438
4	2023	C	5.50	825	1	2023	C	5.00	13435
					6	2022	P	3.25	13419

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
JUN 22	355	1485	-1130	JUN 22	81576	80298	1278
JUL 22	134363	132091	2272	JUL 22	80910	77540	3370
AUG 22	163361	162638	723	AUG 22	76420	76570	-150
SEP 22	63289	58264	5025	SEP 22	62200	61425	776
OCT 22	87026	85411	1615	OCT 22	66266	66461	-196
NOV 22	94912	92775	2137	NOV 22	76327	75124	1204
DEC 22	46426	45167	1259	DEC 22	57525	57852	-328
JAN 23	46813	46469	344	JAN 23	61395	61353	42
FEB 23	62183	61534	649	FEB 23	64125	63136	989
MAR 23	23976	23281	695	MAR 23	52047	51072	975
APR 23	38931	38597	334	APR 23	53491	53074	418
MAY 23	57277	55864	1413	MAY 23	51724	51411	313
JUN 23	58784	57871	913	JUN 23	47576	47455	121
JUL 23	23118	22589	529	JUL 23	43418	43225	193
AUG 23	18958	18859	99	AUG 23	42812	42704	107
SEP 23	14196	14003	193	SEP 23	42765	42481	284
OCT 23	18459	18047	412	OCT 23	42688	42260	428
NOV 23	34027	33224	803	NOV 23	48834	48802	31
DEC 23	12406	12457	-51	DEC 23	42859	42482	377
JAN 24	14219	14031	188	JAN 24	39055	38550	505
FEB 24	22021	21647	374	FEB 24	37364	37634	-271
MAR 24	5880	5543	337	MAR 24	25343	25228	115
APR 24	14542	14555	-13	APR 24	30064	30036	28
MAY 24	10826	11228	-402	MAY 24	24712	24273	439
JUN 24	6438	6174	264	JUN 24	25020	25058	-39
JUL 24	1860	1856	4	JUL 24	21476	21251	225
AUG 24	1935	1935	0	AUG 24	21888	21655	233
SEP 24	3138	3137	1	SEP 24	22855	22622	233
OCT 24	1421	1422	-1	OCT 24	21196	21055	141
NOV 24	6608	6831	-223	NOV 24	23085	22986	99





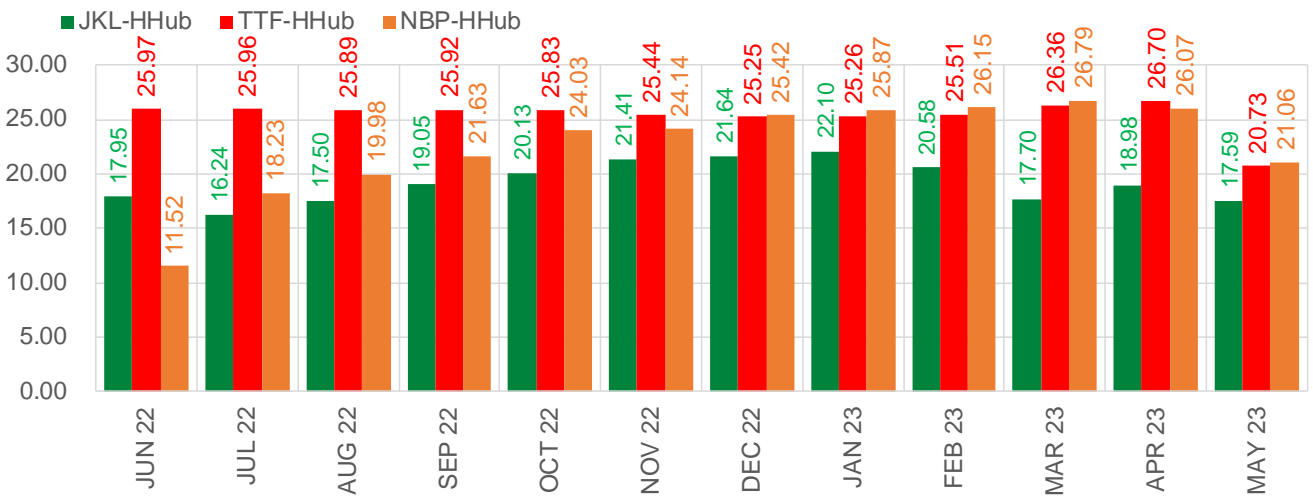
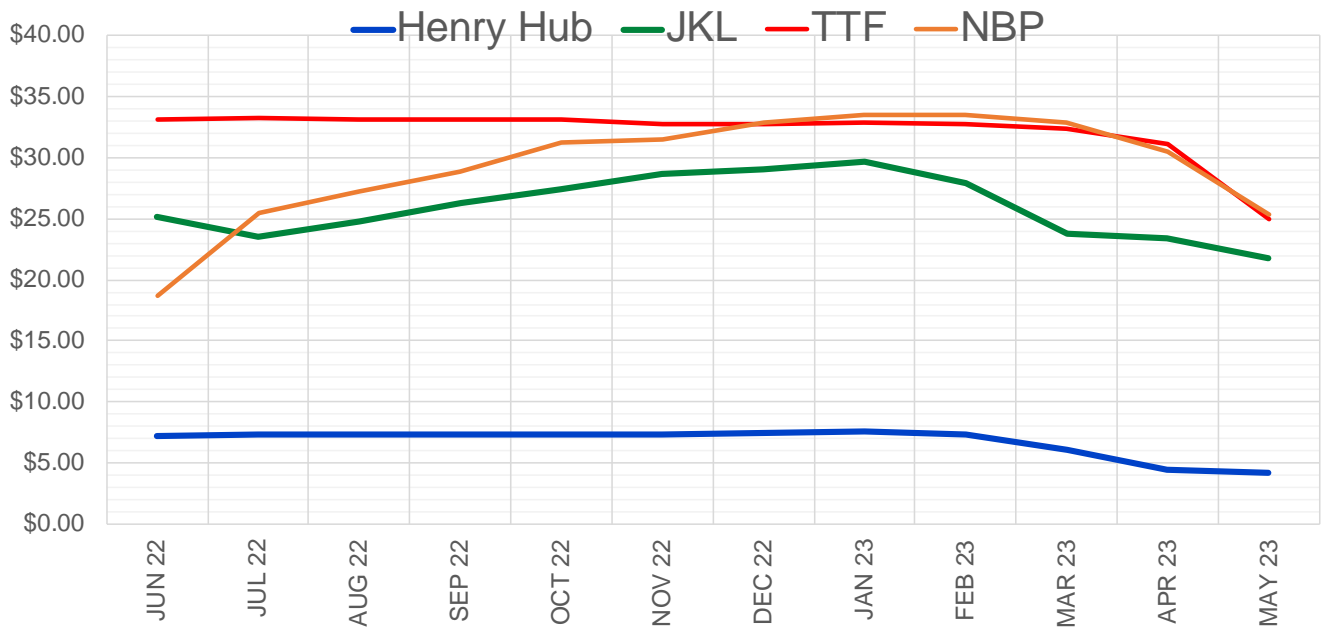
	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23
<b>Current Price</b>	<b>\$6.850</b>	<b>\$6.978</b>	<b>\$7.068</b>	<b>\$7.068</b>	<b>\$7.024</b>	<b>\$7.029</b>	<b>\$7.103</b>	<b>\$7.245</b>	<b>\$7.350</b>	<b>\$7.074</b>	<b>\$5.986</b>	<b>\$4.367</b>
Last Week	\$7.176	\$7.277	\$7.352	\$7.346	\$7.296	\$7.303	\$7.378	\$7.539	\$7.639	\$7.388	\$6.486	\$4.843
vs. Last Week	-\$0.326	-\$0.299	-\$0.284	-\$0.278	-\$0.272	-\$0.274	-\$0.275	-\$0.294	-\$0.289	-\$0.314	-\$0.500	-\$0.476
4 Weeks Ago	\$5.336	\$5.330	\$5.381	\$5.438	\$5.443	\$5.424	\$5.435	\$5.502	\$5.641	\$5.730	\$5.557	\$5.007
vs. 4 Weeks Ago	\$1.514	\$1.648	\$1.687	\$1.630	\$1.581	\$1.605	\$1.668	\$1.743	\$1.709	\$1.344	\$0.429	-\$0.640
Last Year	\$2.873	\$2.942	\$2.995	\$3.010	\$2.993	\$3.007	\$3.069	\$3.193	\$3.273	\$3.192	\$2.977	\$2.566
vs. Last Year	\$3.977	\$4.036	\$4.073	\$4.058	\$4.031	\$4.022	\$4.034	\$4.052	\$4.077	\$3.882	\$3.009	\$1.801

	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	11.50	6.33	-5.17
TETCO M3	\$/MMBtu	6.60	6.10	-0.50
FGT Zone 3	\$/MMBtu	6.60	6.86	0.26
Zone 6 NY	\$/MMBtu	6.60	6.03	-0.57
Chicago Citygate	\$/MMBtu	6.97	6.62	-0.35
Michcon	\$/MMBtu	6.99	6.61	-0.38
Columbia TCO Pool	\$/MMBtu	6.54	6.22	-0.32
Ventura	\$/MMBtu	6.88	6.54	-0.34
Rockies/Opal	\$/MMBtu	7.00	6.30	-0.71
El Paso Permian Basin	\$/MMBtu	6.50	5.89	-0.62
Socal Citygate	\$/MMBtu	7.34	6.44	-0.90
Malin	\$/MMBtu	6.86	6.42	-0.44
Houston Ship Channel	\$/MMBtu	6.86	6.66	-0.20
Henry Hub Cash	\$/MMBtu	6.88	6.47	-0.41
AECO Cash	C\$/GJ	5.76	4.55	-1.21
Station2 Cash	C\$/GJ	5.84	6.07	0.23
Dawn Cash	C\$/GJ	7.41	6.67	-0.74

Source: CME, Bloomberg

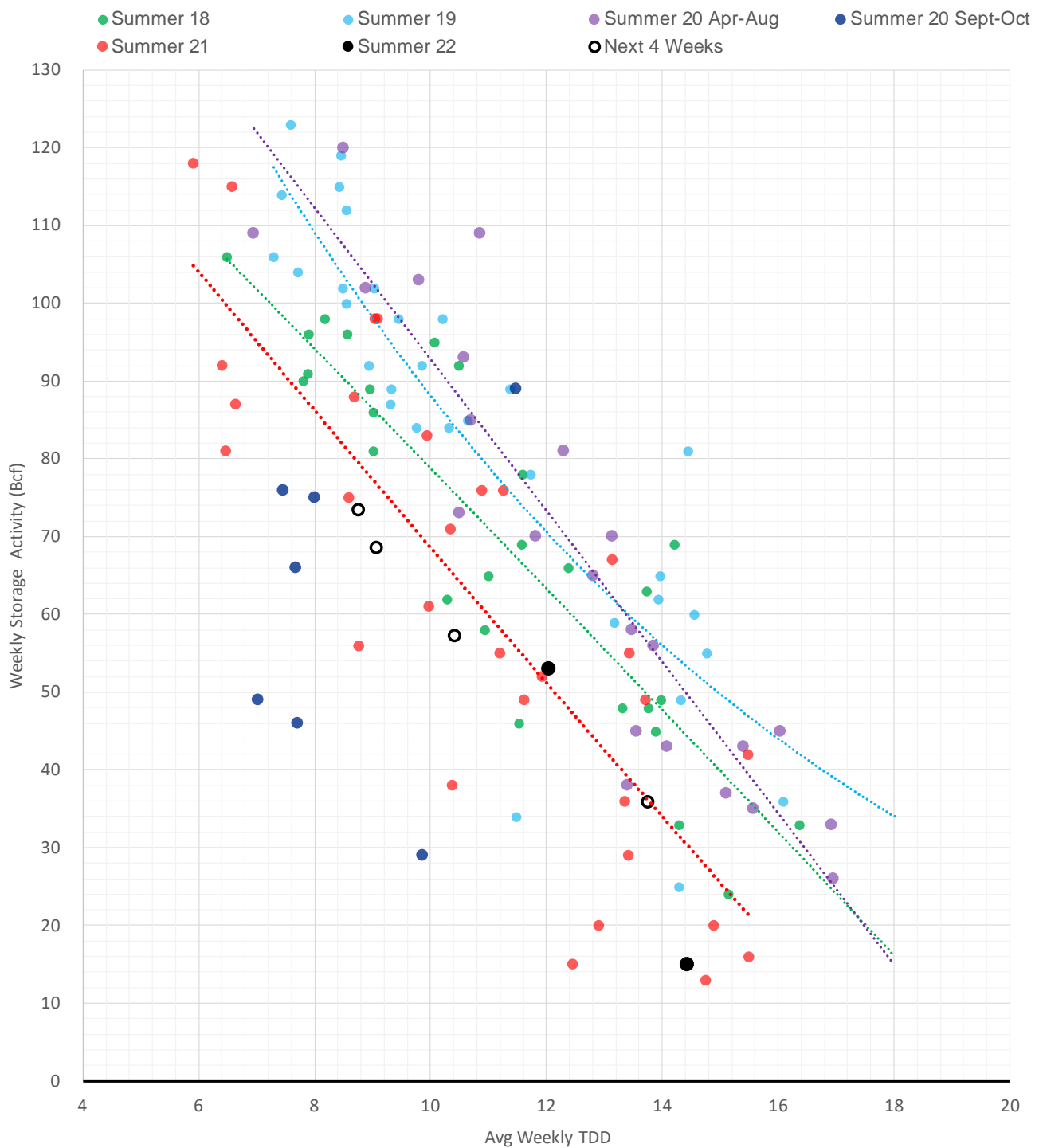
	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224	▲ 0.000	▲ 0.000	▲ 2.216
NatGas Oct21/Nov21	\$/MMBtu	0.361	▲ 0.000	▲ 0.000	▲ 0.300
NatGas Oct21/Jan22	\$/MMBtu	-1.817	▲ 0.000	▲ 0.000	▼ -2.080
NatGas Apr22/Oct22	\$/MMBtu	2.051	▲ 0.275	▲ 1.685	▲ 2.029
WTI Crude	\$/Bbl	102.02	▼ -0.730	▼ -5.800	▲ 38.160
Brent Crude	\$/Bbl	105.32	▼ -1.480	▼ -8.130	▲ 38.050
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	467.43	▲ 70.120	▲ 86.580	▲ 273.570
Propane, Mt. Bel	cents/Gallon	1.31	▼ -0.009	▼ -0.131	▲ 0.492
Ethane, Mt. Bel	cents/Gallon	0.51	▲ 0.005	▲ 0.081	▲ 0.271
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)



	JUN 22	JUL 22	AUG 22	SEP 22	OCT 22	NOV 22	DEC 22	JAN 23	FEB 23	MAR 23	APR 23	MAY 23
<b>Henry Hub</b>	\$7.193	\$7.305	\$7.305	\$7.279	\$7.272	\$7.334	\$7.459	\$7.595	\$7.311	\$6.089	\$4.400	\$4.237
<b>JKL</b>	\$25.145	\$23.540	\$24.805	\$26.325	\$27.400	\$28.740	\$29.100	\$29.695	\$27.890	\$23.785	\$23.375	\$21.825
<b>JKL-HHHub</b>	\$17.952	\$16.235	\$17.500	\$19.046	\$20.128	\$21.406	\$21.641	\$22.100	\$20.579	\$17.696	\$18.975	\$17.588
<b>TTF</b>	\$33.167	\$33.267	\$33.192	\$33.195	\$33.102	\$32.771	\$32.711	\$32.859	\$32.821	\$32.447	\$31.104	\$24.964
<b>TTF-HHHub</b>	\$25.974	\$25.962	\$25.887	\$25.916	\$25.830	\$25.437	\$25.252	\$25.264	\$25.510	\$26.358	\$26.704	\$20.727
<b>NBP</b>	\$18.714	\$25.532	\$27.280	\$28.910	\$31.300	\$31.471	\$32.876	\$33.462	\$33.463	\$32.880	\$30.469	\$25.292
<b>NBP-HHHub</b>	\$11.521	\$18.227	\$19.975	\$21.631	\$24.028	\$24.137	\$25.417	\$25.867	\$26.152	\$26.791	\$26.069	\$21.055

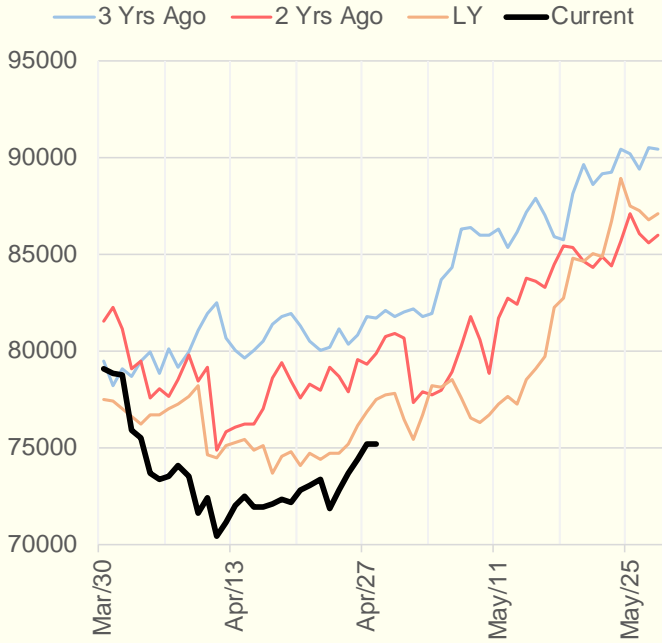
### Weather Storage Model - Next 4 Week Forecast



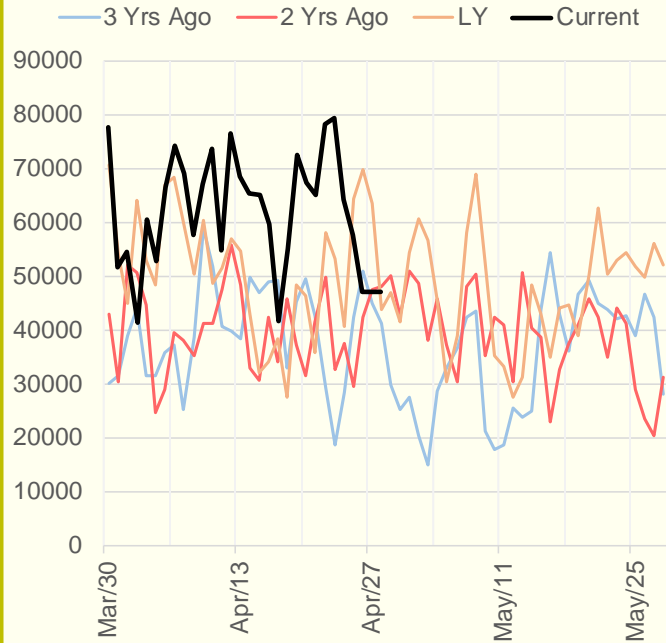
The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are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



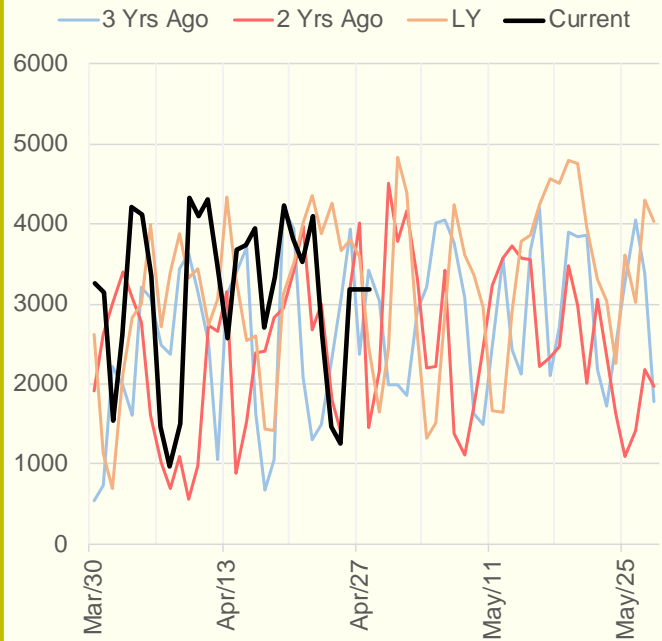
### NRC Nuclear Daily Output



### US Wind



### CALI Wind



### TEXAS Wind

