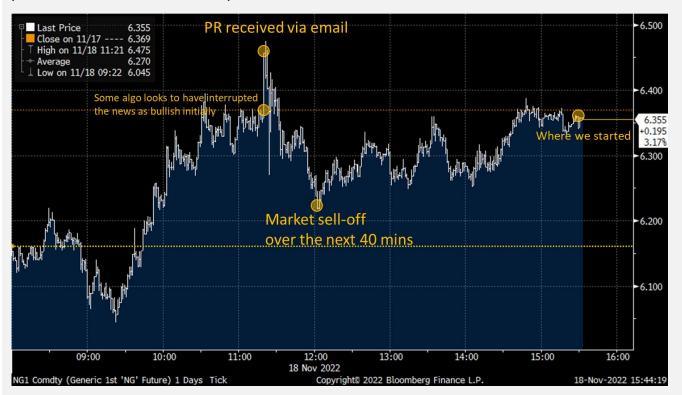


Another week, another Freeport story on Friday. At least this time it didn't start as a rumor and end with a PR release near the end of the day. The latest release from Freeport gives some sort of timeline, but nothing definitive. The press release came mid-day and as expected the price moved with another Freeport headline.



Let's dive into the PR and interpret the key lines:

1) "Subject to Freeport LNG meeting its regulatory requirements, it is targeting initial production at the facility in mid-December."

Reconstruction is still not complete (end of Nov) and the start is still subject to Freeport LNG meeting all its regulatory requirements. Let's assume this means a Dec 19th start-up, which is approximately 30 days out.

2) "Each of Freeport LNG's three liquefaction trains will be restarted and ramped up safely, in a slow and deliberate manner, with each train starting separately before restarting a subsequent train"

The nameplate capacity for each train before the July authorized FERC expansion was 0.714 Bcf/d. Let's assume one train at the old capacity level comes on every 10 days.

1st train Dec 19th, 2nd train on Dec 29th, and 3rd train on Jan 8th



3) It is expected that approximately 2 BCF per day of production will be achieved in January 2023. Full production utilizing both docks remains anticipated to commence in March 2023.

My assumptions:

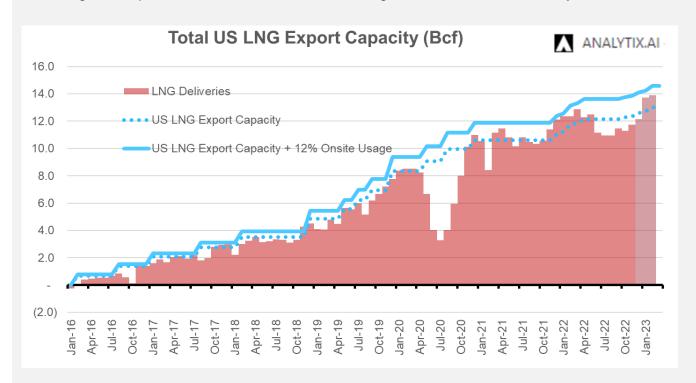
The time to load an LNG tanker is approximately 20 hours, so technically the terminal should be able to operate at ~2 Bcf/d with one dock operational. This would require tankers to be scheduled every 1-2 days which might not be logistically possible.

Also to note is that Freeport traditionally operates at 95-98% of design capacity.

Sometime in January = three trains @ 0.714 Bcf/d feedgas level w/ 95% utilization = 2.03 Bcf/d

Sometime in March = three trains at 0.795 Bcf/d feedgas level w/ 95% utilization = 2.26 Bcf/d

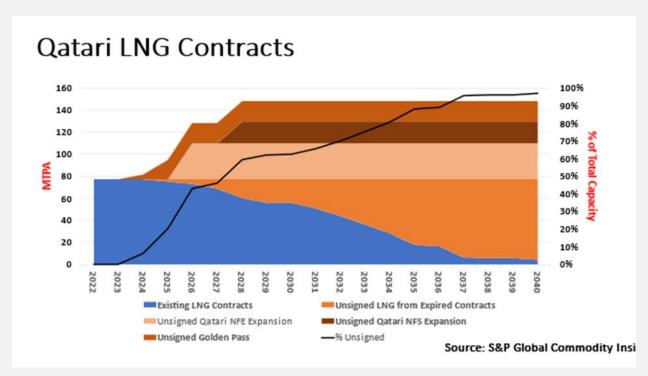
So if all goes as planned, we should see LNG feedgas levels reach 14+ Bcf by mid-Jan.





The last thing we wanted to note on LNG is from a tweet posted @ira_joseph of Platts. It's an interesting developing story, specifically for Europe as they move away from Russian natgas. Tweet Link: https://twitter.com/ira_joseph/status/1593005204018180096

For sale: tons of #LNG. Tons. Motivated sellers want long-term deals. Existing contracts are expiring & new capacity is under construction. Oil indexaton preferred, but sellers are flexible if the price is high enough. Having trouble contracting your LNG? Maybe this is why. #ONGT



This available capacity paired with increased LNG regas capacity coming online should get things back to steady. The surge of new LNG regasification capacity in northwest Europe could lead to a 37% increase in LNG terminal daily sendout over the coming few years, according to ICIS. Here is a table of all the potential regas capacity coming online.



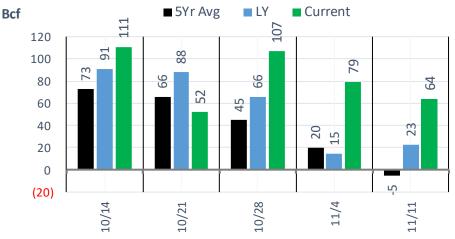
Source: ICIS

Country	Туре	Terminal	New/Expansion	Status	Operational start earliest	Regasification capacity (mcm/d
Belgium	Onshore	Zeebrugge	Expansion 1	FID taken	1/1/2024	18
Belgium	Onshore	Zeebrugge	Expansion 2	FID taken	1/1/2026	5
Croatia	FSRU	Krk	Expansion	Planned	10/1/2022	1
Cyprus	FSRU	Cyprus	New	Announced	7/1/2023	2
Estonia	Onshore	Paldiski	New	Planned	1/1/2025	7
Estonia	FSRU	Alexela's Paldisk	New	Announced	10/1/2022	7
Finland	Onshore	Hamina LNG	New	FID taken	10/1/2022	1
Finland	FSRU	FSRU	New	Announced	1/1/2025	0
France	FSRU	Le Havre	New	Announced	Not specified	6
Germany	FSRU	Wilhelmshaven	New	Announced	12/22/2022	28
Germany	Onshore	Wilhelmshaven	New	Announced	1/1/2025	23
Germany	Onshore	Brunsbuttel LNG	New	Announced	1/1/2025	23
Germany	Onshore	Hanseatic Energy Hub terminal	New	Announced	1/1/2026	36
Greece	FSRU	Elpedison LNG	New	Announced	1/1/2025	20
Greece	FSRU	Alexandroupolis	New	FID taken	1/1/2023	17
Greece	FSRU	Volos	New	Announced	10/1/2023	13
Greece	FSRU	Dioriga Gas	New	Announced	1/1/2023	7
reland	Onshore	Shannon LNG	New	Announced	Not specified	32
taly	Onshore	Adriatic LNG	Expansion	Announced	Not specified	3
Lithuania	FSRU	Klaipeda LNG	Expansion	Announced	Not specified	0
Latvia	Onshore	Skulte	New	Announced	10/1/2024	11
Netherlands	FSRU	Exmar	New	Announced	8/1/2022	11
Netherlands	Onshore	Gate terminal	Expansion 1	FID taken	10/1/2024	1
Netherlands	Onshore	Gate terminal	Expansion 2	FID taken	1/1/2025	1
Netherlands	Onshore	Gate terminal	Expansion 3	FID taken	1/1/2026	1
oland	Onshore	Swinoujscie	Expansion	FID taken	12/1/2023	6
oland	FSRU	Gdansk	New	Announced	1/1/2028	17
United Kingdom	Onshore	Isle of Grain	Expansion	Announced	1/1/2025	14

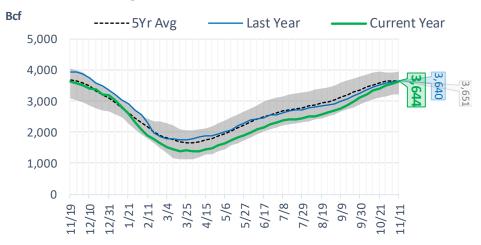


EIA Storage Report

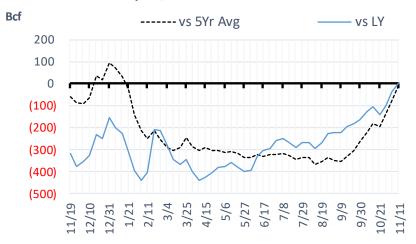
Total Lower 48 YoY Weekly Change



Total Lower 48 Storage Levels



Total Lower 48 LY Surplus/Deficit



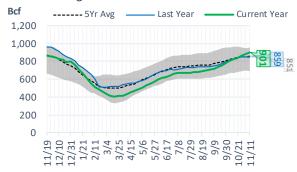


Natural Gas Storage Stats - Last 5 Weeks

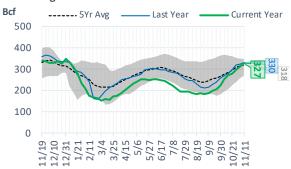
Week Ending Current Week - 1 Week - 2 Week - 3 Week - 4 Total Lower 48 Storage Level 3644 3580 3501 3394 3342 Weekly Change +64 +79 +107 +52 +111 vs LY +4 -37 -101 -142 -106 vs 5Yr Avg -7 -76 -135 -197 -183 S. Central Salt Storage Level 327 311 299 277 271 Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	Week - 5 7-Oct 3231 +125 -126 -221 253 +28
Total Lower 48 Storage Level 3644 3580 3501 3394 3342 Weekly Change +64 +79 +107 +52 +111 vs LY +4 -37 -101 -142 -106 vs 5Yr Avg -7 -76 -135 -197 -183 S. Central Salt Storage Level 327 311 299 277 271 Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	3231 +125 -126 -221 253 +28
Weekly Change +64 +79 +107 +52 +111 vs LY +4 -37 -101 -142 -106 vs 5Yr Avg -7 -76 -135 -197 -183 S. Central Salt Storage Level 327 311 299 277 271 Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	+125 -126 -221 253 +28
vs LY +4 -37 -101 -142 -106 vs 5Yr Avg -7 -76 -135 -197 -183 S. Central Salt Storage Level 327 311 299 277 271 Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	-126 -221 253 +28
vs 5Yr Avg -7 -76 -135 -197 -183 S. Central Salt Storage Level 327 311 299 277 271 Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	-221 253 +28
S. Central Salt Storage Level 327 311 299 277 271 Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	253 +28
Weekly Change +16 +12 +22 +6 +18 vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	+28
vs LY -3 -12 -19 -24 -10 vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	
vs 5Yr Avg +9 -3 -7 -18 -11 S. Central NonSalt Storage Level 901 882 861 839 828	4.5
S. Central NonSalt Storage Level 901 882 861 839 828	-15
	-22
	804
Weekly Change +19 +21 +22 +11 +24	+26
vs LY +42 +32 +11 +1 +5	-4
vs 5Yr Avg +50 +31 +11 -6 -6	-17
Midwest Storage Level 1084 1068 1042 1007 987	952
Weekly Change +16 +26 +35 +20 +35	+36
vs LY +6 -6 -26 -41 -36	-41
vs 5Yr Avg +6 -12 -30 -47 -43	-49
East Storage Level 882 865 848 825 812	782
Weekly Change +17 +23 +13 +30	+26
vs LY -18 -32 -49 -57 -46	-49
vs 5Yr Avg -20 -41 -55 -68 -65	-74
Mountain Storage Level 208 208 204 199 195	190
Weekly Change 0 +4 +5 +4 +5	+6
vs LY -4 -5 -9 -13 -16	-19
vs 5Yr Avg -4 -5 -10 -15 -17	-21
Pacific Storage Level 241 247 248 249	249
Weekly Change -6 0 -1 -1 0	+2
vs LY -20 -11 -9 -7 -4	-2
vs 5Yr Avg -49 -43 -42 -41	-40



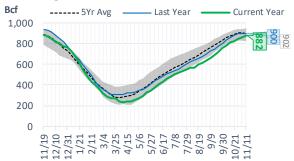
NonSalt Storage Levels



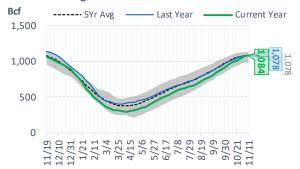
Salt Storage Levels



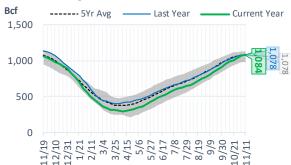
East Storage Levels



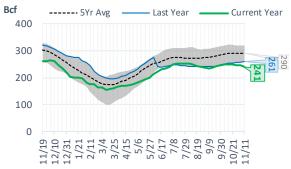
Midwest Storage Levels



Midwest Storage Levels



Pacific Storage Levels





LY				LW	Current		
19-Nov	21-Oct	28-Oct	4-Nov	11-Nov	18-Nov	WoW	vs. LY
95.7	100.3	101.0	101.0	100.4	101.0	0.7	5.3
4.9	6.1	5.3	4.9	4.2	6.6	2.4	1.7
28.5	30.9	28.9	29.5	29.1	31.5	2.4	3.0
26.3	20.9	15.9	17.6	17.7	35.4	17.7	9.1
24.4	20.0	21.1	21.3	22.8	24.2	1.3	-0.2
5.3	5.6	5.6	5.6	5.6	5.6	0.0	0.3
3.2	3.2	2.8	2.8	2.7	3.8	1.2	0.7
87.7	80.6	74.4	76.9	77.9	100.5	22.6	12.9
11.1	11.5	11.4	11.9	11.4	12.1	0.7	1.0
6.0	6.7	6.4	6.3	6.3	6.5	0.2	0.5
-4.2 -3.0	7.6 7.4	14.2 15.3	10.8 11.3	8.9 9.1	-11.5	-20.4	-7.3
	95.7 4.9 28.5 26.3 24.4 5.3 3.2 87.7 11.1 6.0 -4.2	19-Nov 21-Oct 95.7 100.3 4.9 6.1 28.5 30.9 26.3 20.9 24.4 20.0 5.3 5.6 3.2 3.2 87.7 80.6 11.1 11.5 6.0 6.7 -4.2 7.6 -3.0 7.4	19-Nov 21-Oct 28-Oct 95.7 100.3 101.0 4.9 6.1 5.3 28.5 30.9 28.9 26.3 20.9 15.9 24.4 20.0 21.1 5.3 5.6 5.6 3.2 3.2 2.8 87.7 80.6 74.4 11.1 11.5 11.4 6.0 6.7 6.4 -4.2 7.6 14.2 -3.0 7.4 15.3	19-Nov 21-Oct 28-Oct 4-Nov 95.7 100.3 101.0 101.0 4.9 6.1 5.3 4.9 28.5 30.9 28.9 29.5 26.3 20.9 15.9 17.6 24.4 20.0 21.1 21.3 5.3 5.6 5.6 5.6 3.2 3.2 2.8 2.8 87.7 80.6 74.4 76.9 11.1 11.5 11.4 11.9 6.0 6.7 6.4 6.3 -4.2 7.6 14.2 10.8 -3.0 7.4 15.3 11.3	19-Nov 21-Oct 28-Oct 4-Nov 11-Nov 95.7 100.3 101.0 101.0 100.4 4.9 6.1 5.3 4.9 4.2 28.5 30.9 28.9 29.5 29.1 26.3 20.9 15.9 17.6 17.7 24.4 20.0 21.1 21.3 22.8 5.3 5.6 5.6 5.6 5.6 3.2 3.2 2.8 2.8 2.7 87.7 80.6 74.4 76.9 77.9 11.1 11.5 11.4 11.9 11.4 6.0 6.7 6.4 6.3 6.3 -4.2 7.6 14.2 10.8 8.9 -3.0 7.4 15.3 11.3 9.1	19-Nov 21-Oct 28-Oct 4-Nov 11-Nov 18-Nov 95.7 100.3 101.0 101.0 100.4 101.0 4.9 6.1 5.3 4.9 4.2 6.6 28.5 30.9 28.9 29.5 29.1 31.5 26.3 20.9 15.9 17.6 17.7 35.4 24.4 20.0 21.1 21.3 22.8 24.2 5.3 5.6 5.6 5.6 5.6 5.6 3.2 3.2 2.8 2.8 2.7 3.8 87.7 80.6 74.4 76.9 77.9 100.5 11.1 11.5 11.4 11.9 11.4 12.1 6.0 6.7 6.4 6.3 6.3 6.5 -4.2 7.6 14.2 10.8 8.9 -11.5 -3.0 7.4 15.3 11.3 9.1	19-Nov 21-Oct 28-Oct 4-Nov 11-Nov 18-Nov WoW 95.7 100.3 101.0 101.0 100.4 101.0 0.7 4.9 6.1 5.3 4.9 4.2 6.6 ▲ 2.4 28.5 30.9 28.9 29.5 29.1 31.5 ▲ 2.4 26.3 20.9 15.9 17.6 17.7 35.4 ▲ 17.7 24.4 20.0 21.1 21.3 22.8 24.2 ▲ 1.3 5.3 5.6 5.6 5.6 5.6 5.6 ♦ 0.0 3.2 3.2 2.8 2.8 2.7 3.8 ▲ 1.2 87.7 80.6 74.4 76.9 77.9 100.5 ▲ 22.6 11.1 11.5 11.4 11.9 11.4 12.1 ▲ 0.7 6.0 6.7 6.4 6.3 6.3 6.5 ▲ 0.2 -4.2 7.6 14.2 10.8 8.9 -11.5

Monthly Balances									
	2Yr Ago	LY					MTD		
	Nov-20	Nov-21	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	MoM	vs. LY
Lower 48 Dry Production	91.2	96.4	97.8	98.2	100.5	101.2	100.7	▼ -0.6	4.2
Canadian Imports	4.6	5.3	5.9	5.4	5.9	5.7	5.2	▼ -0.5	▼ -0.1
L48 Power	25.7	29.3	44.8	43.8	37.0	30.2	30.2	0.0	0.9
L48 Residential & Commercial	24.4	28.2	8.2	7.8	8.9	16.6	24.6	8.1	▼ -3.6
L48 Industrial	22.5	23.3	19.4	19.7	20.5	20.6	23.1	2.5	▼-0.2
L48 Lease and Plant Fuel	5.0	5.4	5.5	5.5	5.5	5.7	5.6	▼ 0.0	0.2
L48 Pipeline Distribution	2.7	3.3	3.1	3.0	2.8	2.9	3.2	0.3	▼ -0.2
L48 Regional Gas Consumption	80.3	89.5	81.0	79.9	74.7	75.9	86.7	▲10.8	▼ -2.8
Net LNG Exports	10.1	11.4	10.9	11.0	11.5	11.3	11.7	0.4	0.3
Total Mexican Exports	6.1	6.1	7.0	6.9	6.7	6.6	6.4	▼ -0.2	0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity	-0.7	-5.3	4.8	5.8	13.6	13.1	1.0		
Daily Model Error					-0.5				

Source: Bloomberg, analytix.ai

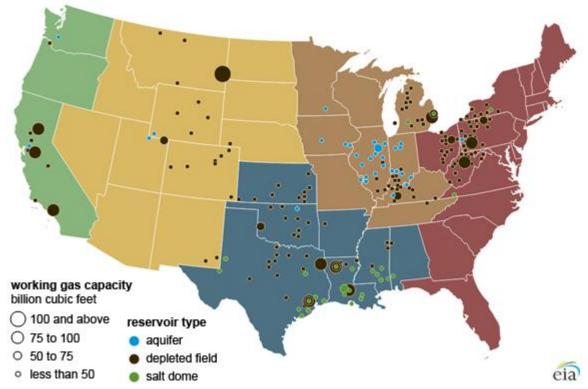
Regional S/D Models Storage Projection

Week Ending 18-Nov

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	-10.6	-0.7	-11.3	-79
East	-4.6	2.2	-2.3	-16
Midwest	-2.8	0.2	-2.6	-18
Mountain	3.0	-4.1	-1.1	-8
South Central	-5.1	1.2	-3.8	-27
Pacific	-1.2	-0.2	-1.4	-10

^{*}Adjustment Factor is calcuated based on historical regional deltas

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

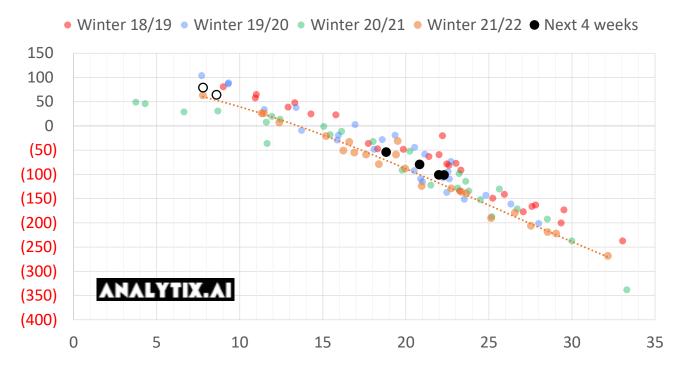




Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
18-Nov	20.8	-79
25-Nov	22.3	-101
02-Dec	18.8	-54
09-Dec	22.0	-101

Weather Storage Model - Next 4 Week Forecast

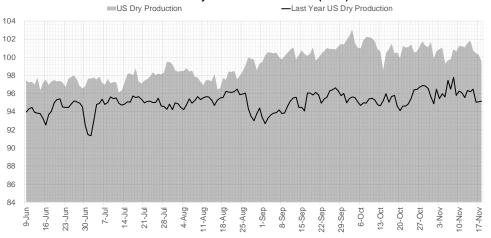


Note: this is not our official end of season forecast. This chart signifies where storage levels end with 10-year normal weather and current market tightness relative to last year

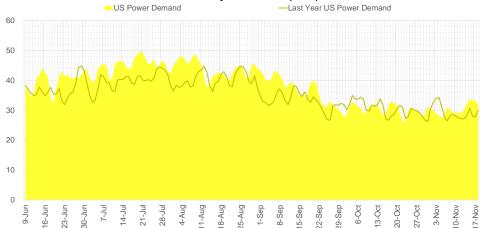


Supply - Demand Trends

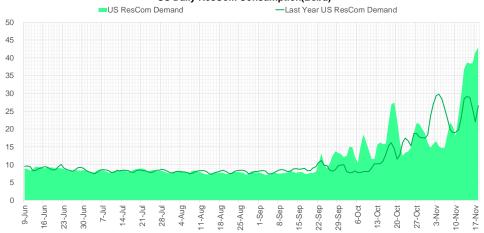
US Dry Natural Gas Production (Bcf/d)



US Daily Power Burns (Bcf/d)



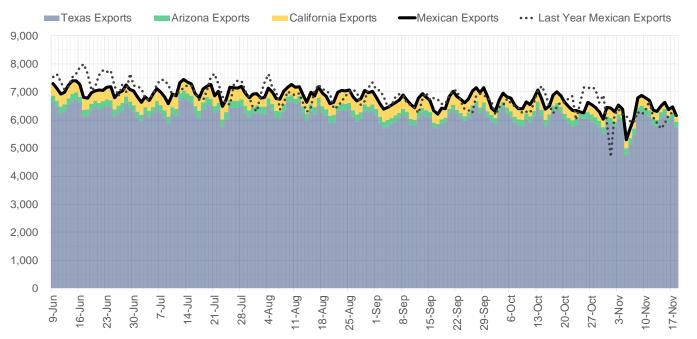
US Daily ResCom Consumption(Bcf/d)



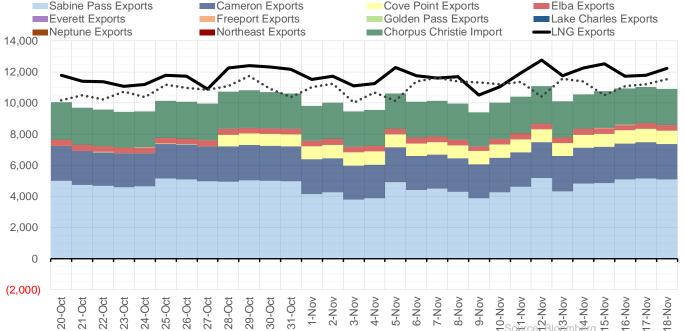
Source: Bloomberg



Mexican Exports (MMcf/d)



Net LNG Exports - Last 30 days (MMcf/d) Cameron Exports Cove Point Exports





Nat Gas Options Volume and Open Interest CME and ICE data combined

CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
12	2022	Р	5.00	6862	12	2022	Р	4.00	47077
12	2022	Р	4.00	6717	12	2022	Р	5.00	43195
2	2023	C	20.00	4886	12	2022	Р	6.00	33712
12	2022	Ċ	8.00	4874	5	2023	Р	2.00	31692
3	2023	Č	20.00	4722	10	2023	P	3.00	31280
12	2022	Č	7.00	4609	12	2022	P	4.50	31153
12	2022	P	4.50	4485	12	2022	C	10.00	30682
12	2022	P	3.50	3117	4	2023	P	3.00	28233
		P			1	2023	C	10.00	28003
12	2022		5.25	3026	1	2023	P	5.00	27388
12	2022	P	6.00	2991	3	2023	C	10.00	26287
1	2023	С	10.00	2679	12	2022	P	3.50	26057
12	2022	P	5.50	2651	12	2022	P	4.75	24840
3	2023	P	2.75	2436	4	2023	P	2.00	23867
3	2023	С	10.00	2212	10	2023	P	2.50	23680
1	2023	Р	4.50	2064	3	2023	P	4.00	23513
3	2023	Р	3.50	1940	10	2023	P	2.00	23488
12	2022	С	6.50	1883	5	2023	P P		
2	2023	С	12.00	1700	5 12		C	3.00	23443
4	2023	Р	2.75	1700	12	2022 2022		6.00	22998
5	2023	Р	2.75	1700			С	8.00	22697
6	2023	Р	2.75	1700	6	2023	P	3.00	22690
12	2022	Р	4.75	1662	4	2023	Р	3.50	21781
4	2023	С	5.00	1650	7	2023	P	3.00	21435
4	2023	С	10.00	1481	8	2023	P	3.00	21246
12	2022	P	5.75	1477	9	2023	P	3.00	21195
5	2023	C	10.00	1450	2	2023	С	10.00	20930
6	2023	Ċ	10.00	1450	12	2022	С	7.00	20277
12	2022	Č	7.50	1442	6	2023	Р	2.00	20267
2	2023	P	4.50	1442	3	2023	Р	3.00	20177
2	2023	C	10.00	1431	12	2022	Р	3.00	20059
1	2023	P	5.00	1407	8	2023	Р	2.00	19925
2	2023	r P	5.00	1364	1	2023	Р	4.00	19853
1	2023	C	8.00	1341	9	2023	Р	2.00	19763
		C			7	2023	Р	2.00	19725
2	2023	P	11.00	1303	10	2023	Р	4.00	19534
3	2023	P P	5.00	1288	4	2023	Р	4.00	19088
1	2023		2.50	1281	3	2023	С	20.00	18920
1	2023	С	20.00	1263	5	2023	Р	2.50	18800
3	2023	P	5.50	1218	6	2023	Р	3.50	18535
12	2022	С	11.00	1133	12	2022	С	5.00	18387
12	2022	С	10.00	1112	6	2023	Р	2.50	18350
1	2023	С	7.50	1107	4	2023	Р	2.50	18253
4	2023	Р	3.00	1075	9	2023	Р	2.50	18145
2	2023	С	19.00	1057	5	2023	Р	3.50	18120
5	2023	Р	3.00	1050	12	2022	Р	5.50	17852
6	2023	Р	3.00	1050	5	2023	Р	4.00	17664
3	2023	С	18.00	1031	4	2023	Р	2.75	17580
2	2023	С	10.50	1003	1	2023	Р	3.00	17370
12	2022	С	11.50	1002	6	2023	Р	4.00	17266
12	2022	С	8.10	1000	9	2023	Р	4	17244

Source: CME, ICE

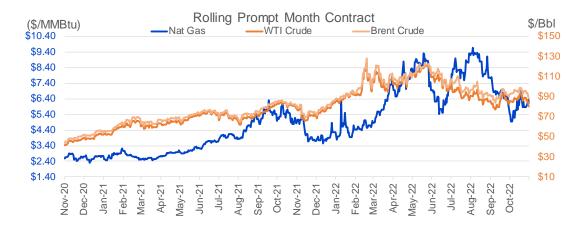


Nat Gas Futures Open Interest

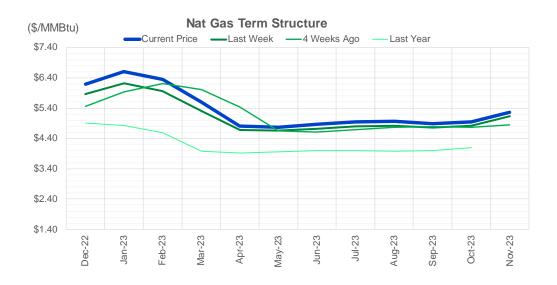
CME and ICE data combined

CME Henry H	Hub Futures (1		J)		Hub Futures Con	tract Equiva	alent (10,000 MM
	Current	Prior	Daily Change		Current	Prior	Daily Change
DEC 22	41160	43531	-2371	DEC 22	87449	88225	-776
JAN 23	170178	169167	1011	JAN 23	76392	76764	-372
FEB 23	64627	63714	913	FEB 23	67276	67002	274
MAR 23	102512	99183	3329	MAR 23	62676	62096	579
APR 23	90465	87895	2570	APR 23	59523	58798	725
MAY 23	91081	91827	-746	MAY 23	60922	60248	674
JUN 23	26643	24235	2408	JUN 23	50437	50173	264
JUL 23	32433	32345	88	JUL 23	51718	51149	569
AUG 23	27287	27433	-146	AUG 23	49440	49239	201
SEP 23	33505	32441	1064	SEP 23	47543	46951	592
OCT 23	50387	49960	427	OCT 23	62141	61570	572
NOV 23	20144	20010	134	NOV 23	49512	49093	419
DEC 23	27898	27532	366	DEC 23	44333	43944	389
JAN 24	34162	34179	-17	JAN 24	47615	47333	283
FEB 24	12056	12075	-19	FEB 24	31438	31234	204
MAR 24	23897	23994	-97	MAR 24	39481	39287	194
APR 24	23063	22643	420	APR 24	32402	31844	558
MAY 24	9820	10170	-350	MAY 24	31315	31105	210
JUN 24	3597	3536	61	JUN 24	27844	27647	197
JUL 24	4909	4930	-21	JUL 24	26825	26578	247
AUG 24	4643	4630	13	AUG 24	26009	25755	254
SEP 24	3322	3311	11	SEP 24	26119	25862	257
OCT 24	9876	9914	-38	OCT 24	30646	30211	435
NOV 24	4937	4941	-4	NOV 24	26950	26874	77
DEC 24	8728	8720	8	DEC 24	31138	31076	62
JAN 25	18871	18694	177	JAN 25	26027	26258	-232
FEB 25	1853	1852	1	FEB 25	15865	15983	-118
MAR 25	6295	6273	22	MAR 25	17545	17782	-237
APR 25	6603	6595	8	APR 25	16381	16661	-280
MAY 25	2764	2746	18	MAY 25	15723	15957	-234

Source: CME, ICE







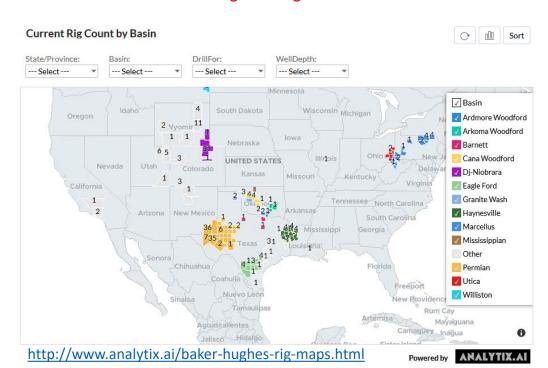
	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Current Price	\$6.200	\$6.607	\$6.353	\$5.590	\$4.799	\$4.774	\$4.858	\$4.947	\$4.958	\$4.896	\$4.944	\$5.256
Last Week	\$5.865	\$6.225	\$5.969	\$5.311	\$4.682	\$4.654	\$4.727	\$4.805	\$4.814	\$4.757	\$4.815	\$5.128
vs. Last Week	\$0.335	\$0.382	\$0.384	\$0.279	\$0.117	\$0.120	\$0.131	\$0.142	\$0.144	\$0.139	\$0.129	\$0.128
4 Weeks Ago	\$5.462	\$5.928	\$6.212	\$6.016	\$5.444	\$4.655	\$4.604	\$4.681	\$4.765	\$4.789	\$4.762	\$4.839
vs. 4 Weeks Ago	\$0.738	\$0.679	\$0.141	-\$0.426	-\$0.645	\$0.119	\$0.254	\$0.266	\$0.193	\$0.107	\$0.182	\$0.417
Last Year	\$4.816	\$4.914	\$4.824	\$4.593	\$3.986	\$3.923	\$3.951	\$3.993	\$3.998	\$3.978	\$4.007	\$4.090
vs. Last Year	\$1.384	\$1.693	\$1.529	\$0.997	\$0.813	\$0.851	\$0.907	\$0.954	\$0.960	\$0.918	\$0.937	\$1.166

					VS	. 4 Weeks		
	Units	Current Price	vs.	Last Week		Ago	vs	. Last Year
NatGas Jul21/Oct21	\$/MMBtu	2.224		0.000		0.000		0.000
NatGas Oct21/Nov21	\$/MMBtu	0.361		0.000		0.000		0.000
NatGas Oct21/Jan22	\$/MMBtu	-1.817		0.000		0.000		-0.971
NatGas Apr22/Oct22	\$/MMBtu	1.532		0.000		0.000		1.515
WTI Crude	\$/Bbl	81.64		-4.830	•	-4.340		2.630
Brent Crude	\$/Bbl	89.78		-3.890	•	-2.600		8.540
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	352.48		-4.460	\blacksquare	-23.200		114.080
Propane, Mt. Bel	cents/Gallon	0.87		-0.004		0.021		-0.393
Ethane, Mt. Bel	cents/Gallon	0.40		-0.004		0.001		0.005
Coal, PRB	\$/MTon	12.30		0.000		0.000		0.000
Coal, PRB	\$/MMBtu	0.70						

Source: CME, Bloomberg



Baker Hughes Rig Counts



	Rotary Rig	Count					
	11/18/20)22		Baker	Baker Hughes 🤰		
U.S. Breakout Information	This Week	+/- Last Week		+/-	Year Ago		
Oil	623	1	622	162	461		
Gas	157	2	155	55	102		
Miscellaneous	2	0	2	2	0		
Directional	45	-1	46	10	35		
Horizontal	714	3	711	208	506		
Vertical	23	1	22	1	22		
Canada Breakout	This Week	+/-	Last Week	+/-	Year Ago		
Oil	135	2	133	33	102		
Gas	66	-1	67	1	65		
Major Basin Variances	This Week	+/-	Last Week	+/-	Year Ago		
Ardmore Woodford	6	0	6	6	0		
Arkoma Woodford	3	-1	4	0	3		
Barnett	3	0	3	2	1		
Cana Woodford	28	1	27	4	24		
DJ-Niobrara	20	0	20	9	11		
Eagle Ford	71	0	71	29	42		
Granite Wash	4	-1	5	1	3		
Haynesville	70	-1	71	23	47		
Marcellus	39	0	39	10	29		
Mississippian	2	1	1	2	0		
Permian	349	-1	350	71	278		
Utica	13	0	13	3	10		
Williston	42	1	41	18	24		