

North American Fundamentals Update

March 22, 2024



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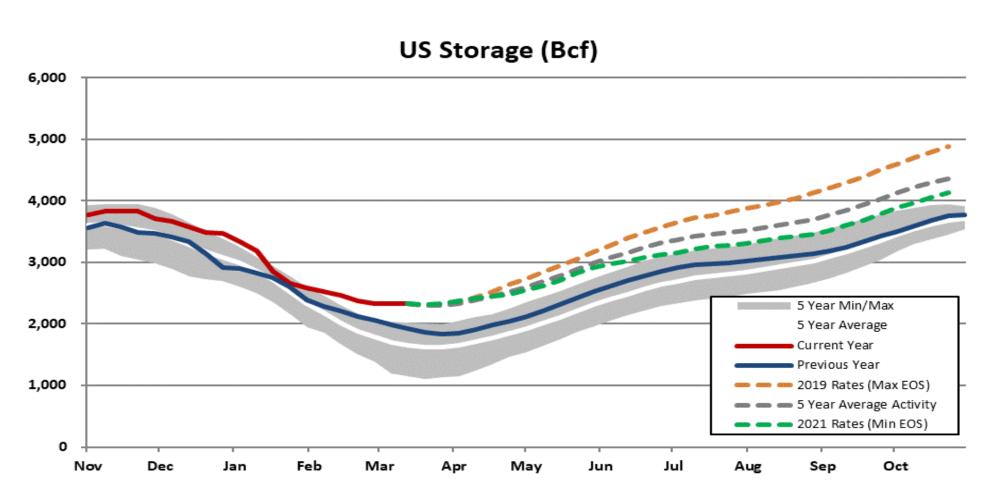
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US gas storage: Inventories are now at a 411 bcf surplus vs. previous year levels



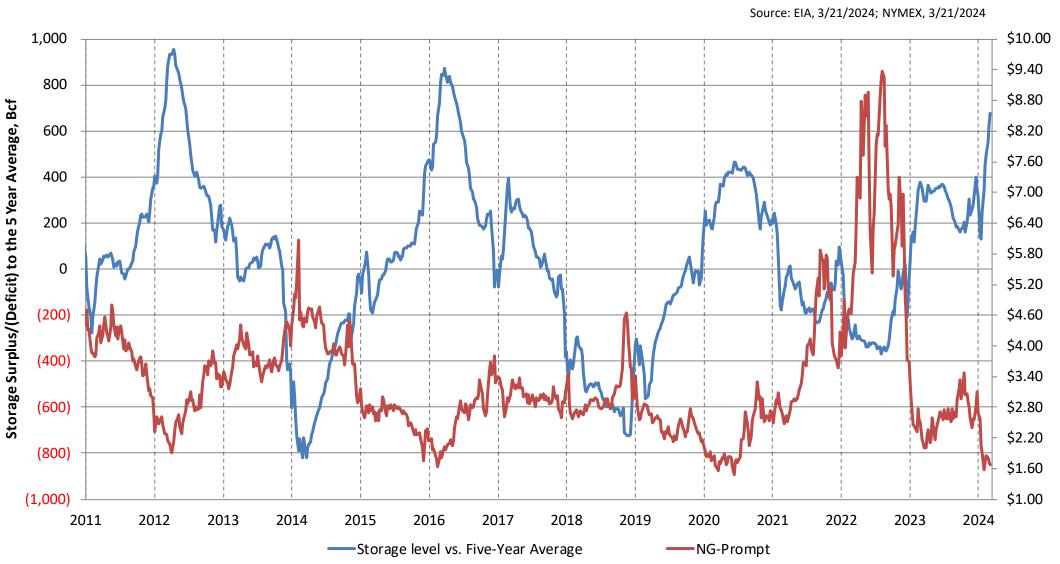
Source: EIA, 3/21/2024



Henry Hub remains correlated to storage; prices moved lower with the warm winter.

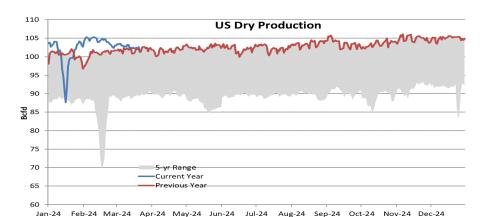


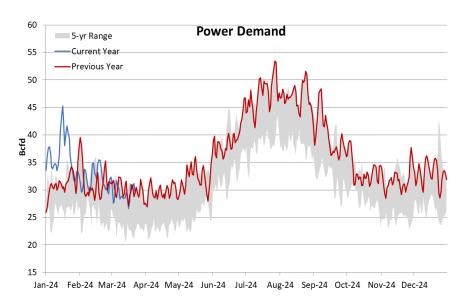
NYMEX Prompt Contract, \$/MMBtu

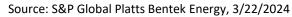


LNG demand and production up YoY in Feb, Power burns and R/C flat y-o-y in Feb.

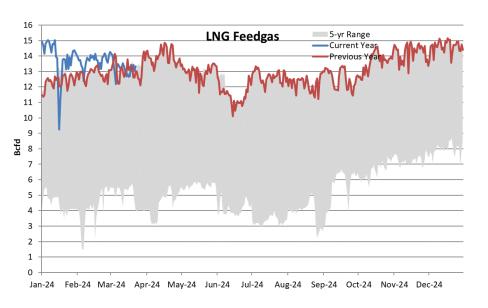






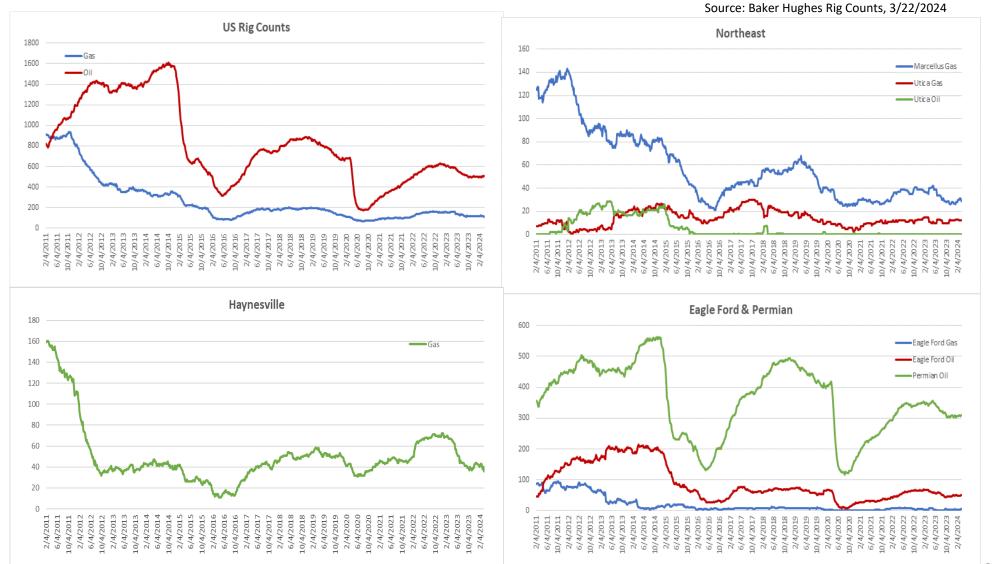








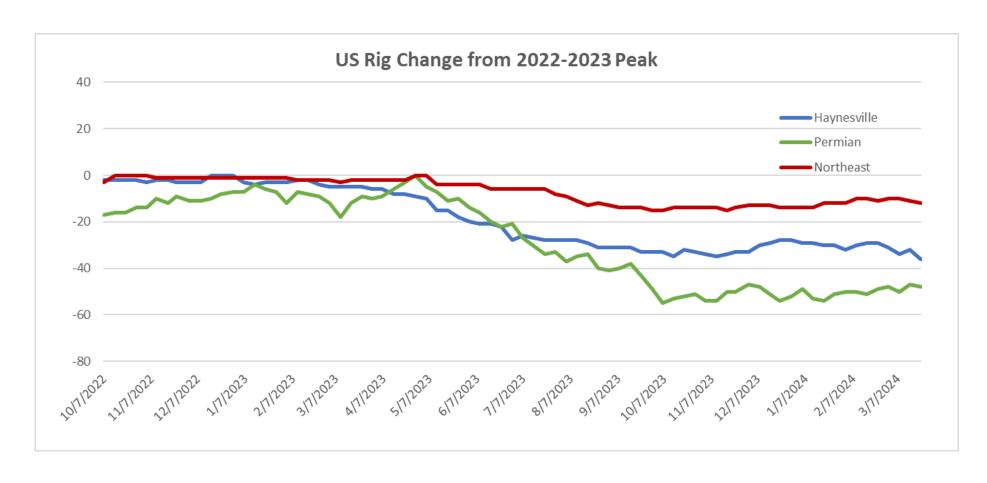




Rig counts well below recent peaks in key US plays



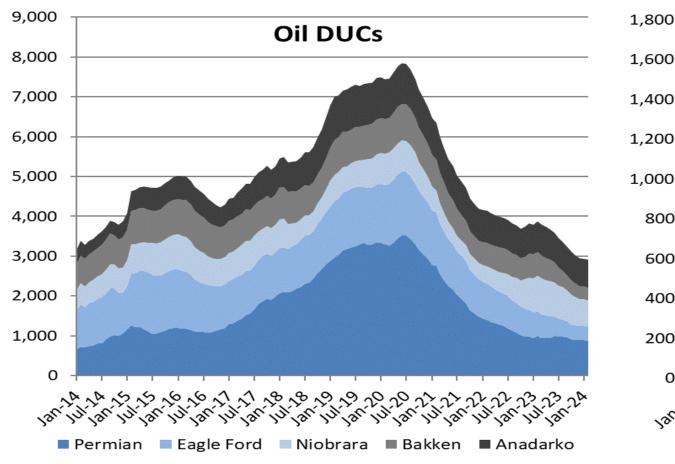
Source: Baker Hughes Rig Counts, 3/22/2024

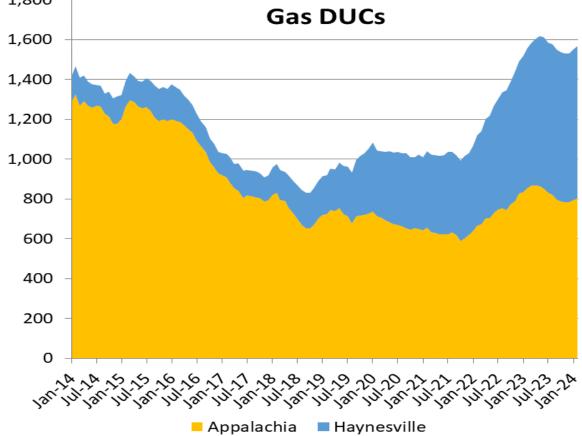


EIA showing oil DUCs drawing, but gas DUCs building



Source: EIA Drilling Productivity Report, March 2024

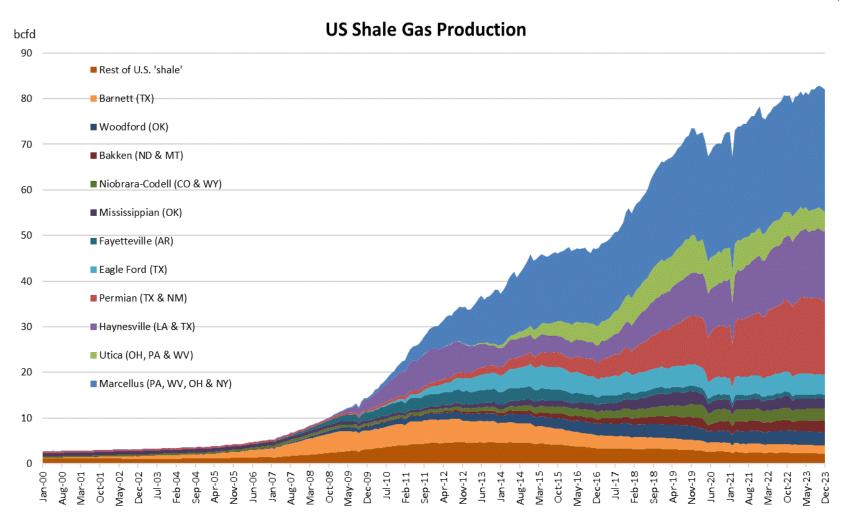




US Shale Gas Production: Oil prices supportive of Perm growth, will Haynesville growth continue?



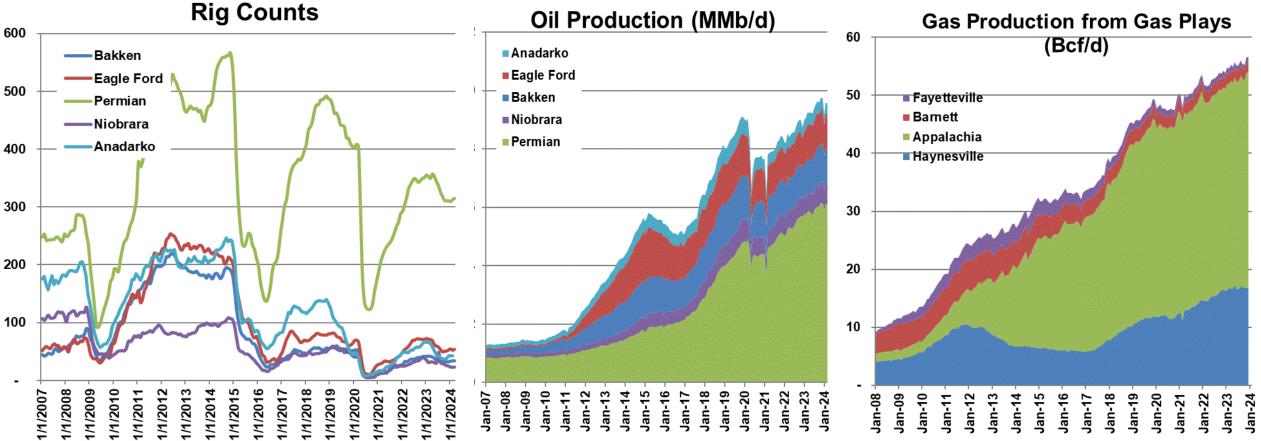
Source: EIA Shale Gas Production, January 2024



Unconventional oil plays have contributed to strong oil and gas production growth; Perm predicted to be a key driver going forward



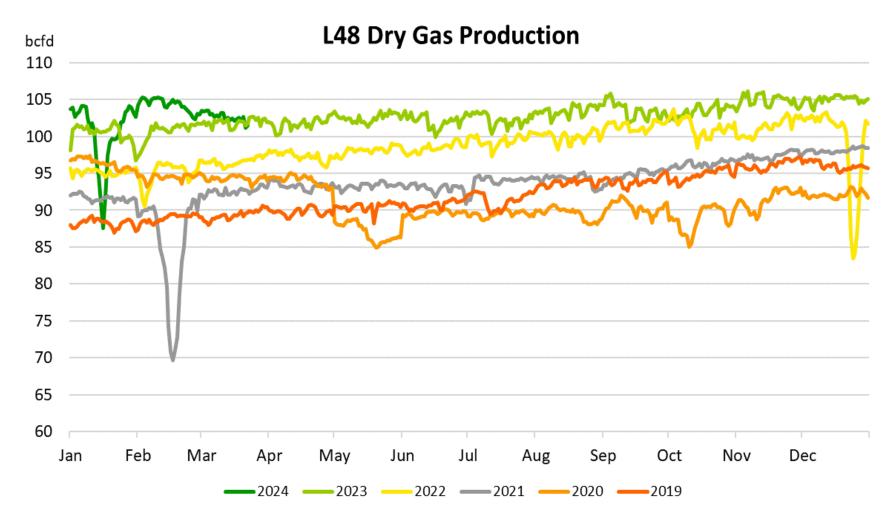
Source: EIA Drilling Productivity Report, March 2024







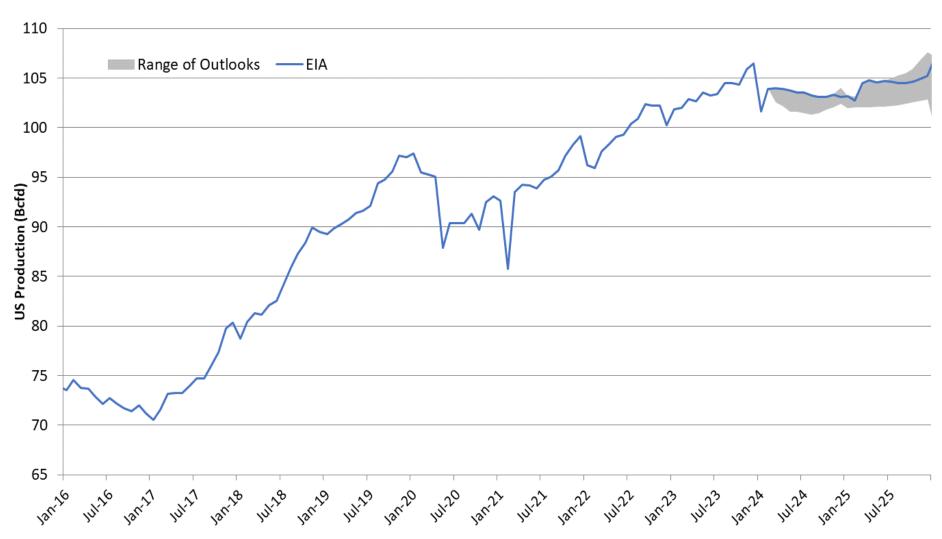
Source: S&P Global Platts Bentek Energy, 3/22/2024



US Production: Will growth continue or could declines emerge in the current price environment?

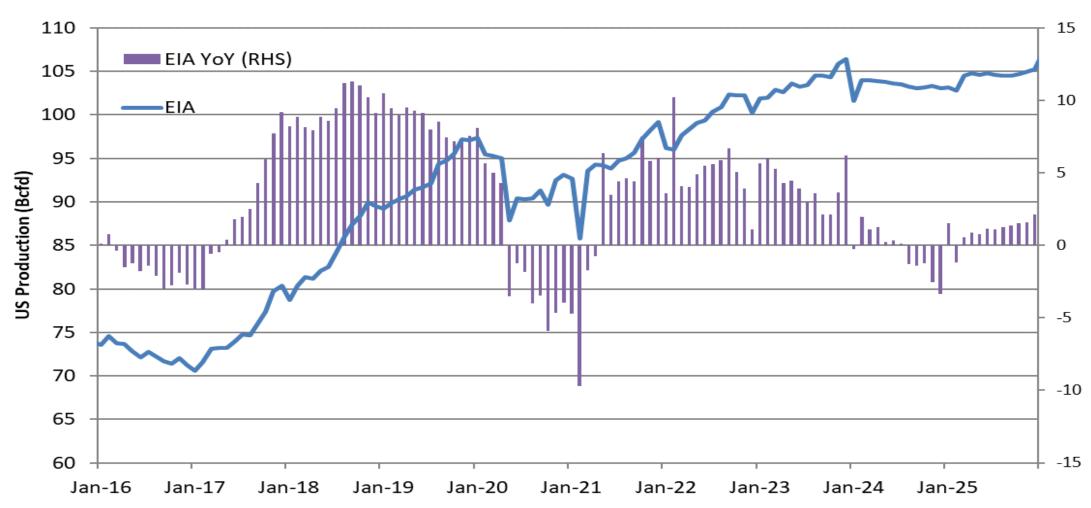


Source: EIA STEO, Various External Consultants, March 2024



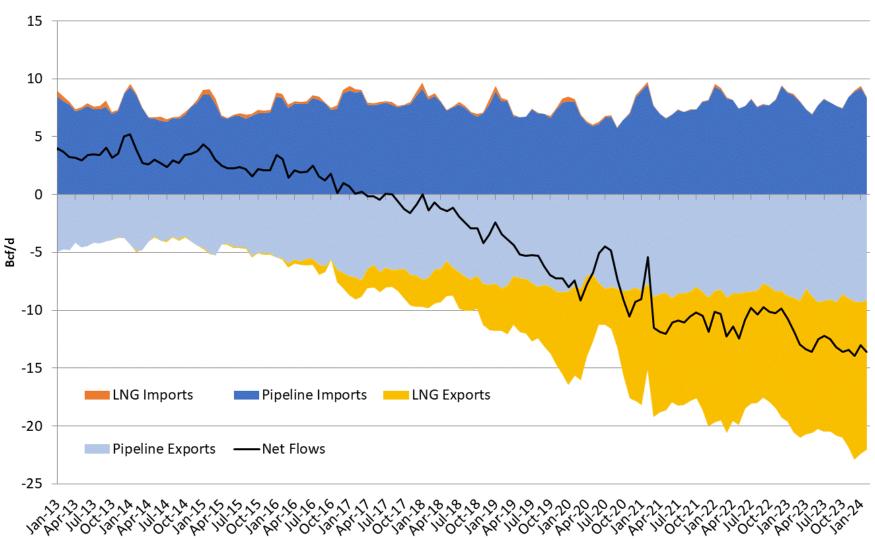
US Production: EIA predicting production to continue growing midway into 2024, but at a lower pace than 2023. EIA predicting production declines in the 2H of 2024.





The US has shifted to being a net gas exporter with LNG capacity additions

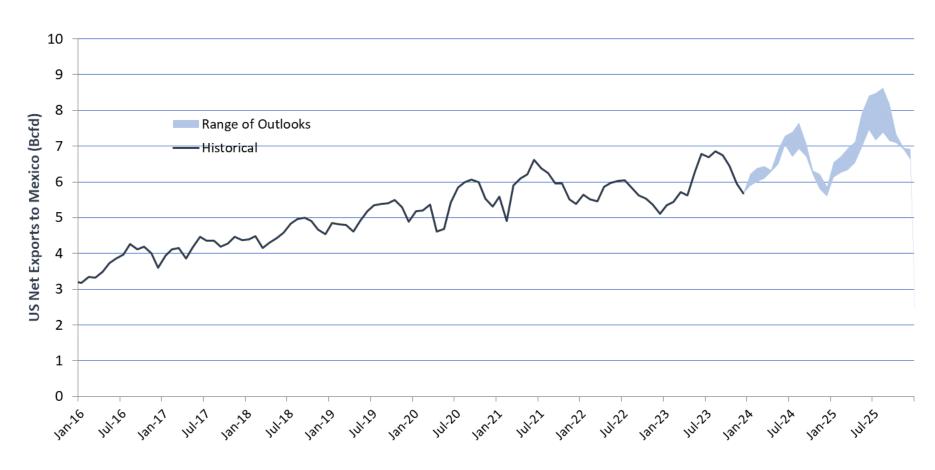




US Gas Exports to Mexico: Mexico liquefaction to drive more US pipeline exports?



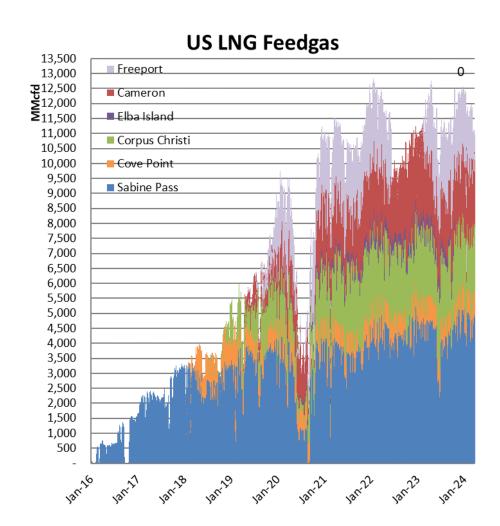
Source: Various External Consultants, February 2024

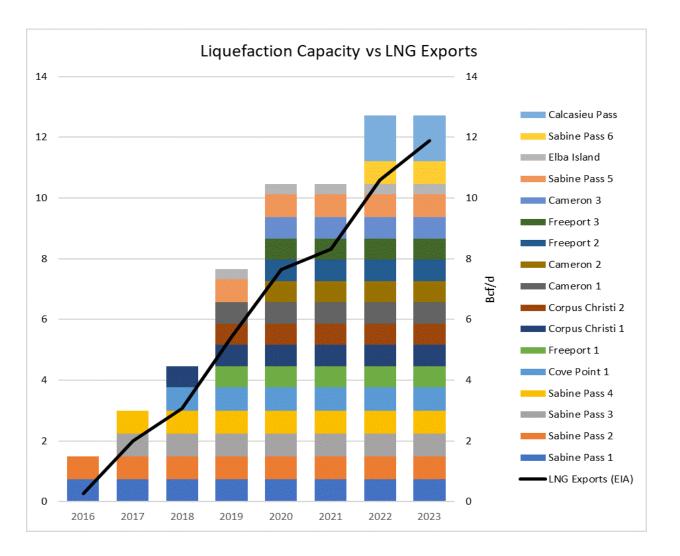


LNG Exports: Export capacity has surpassed 14 bcfd; Total exports impacted by Freeport outage

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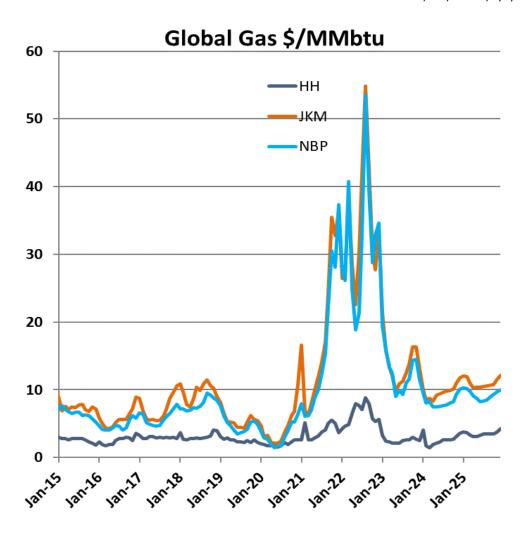


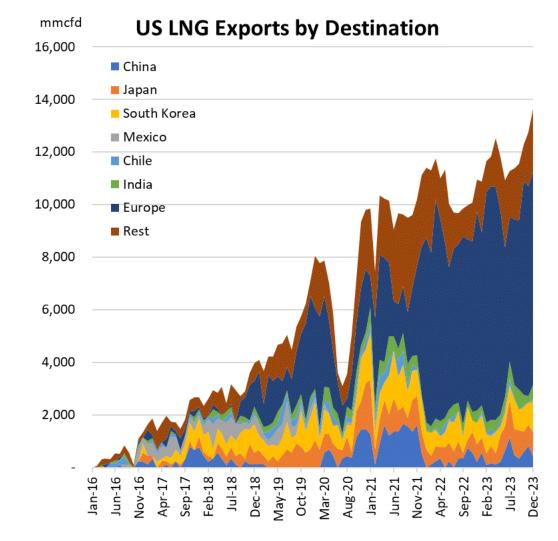
US Natural Gas Exports: International forwards off 2022 highs on a warm winter and elevated inventories



Source: NYMEX, ICE, Heren, 3/5/2024



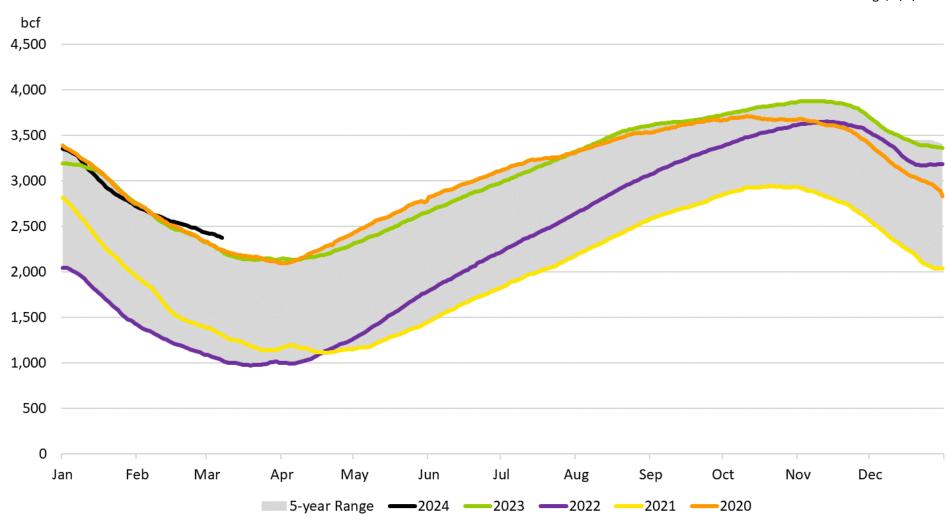




European gas storage levels continue to be elevated versus the 5-year range



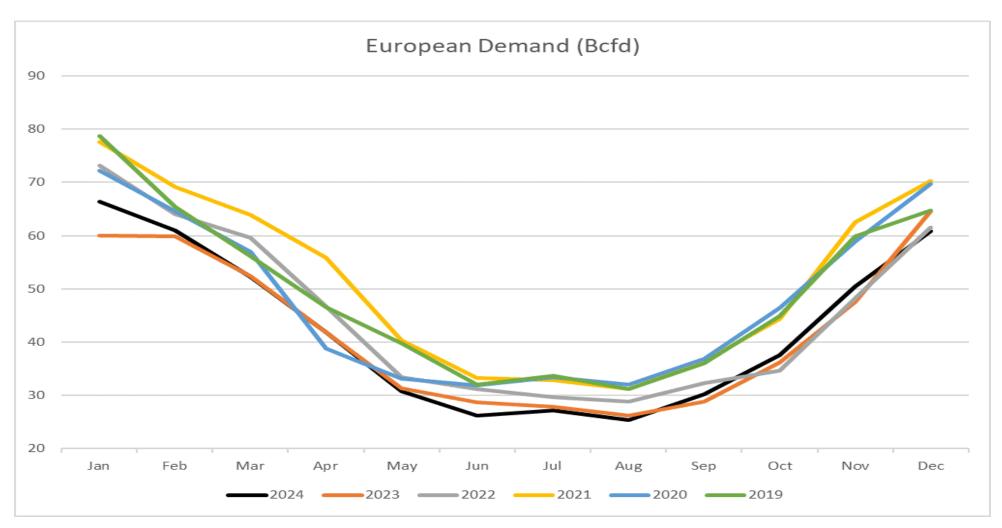
Source: GIE Storage, 3/7/2024



Wood Mac estimating 2024 European gas demand to be roughly in line with 2023 levels



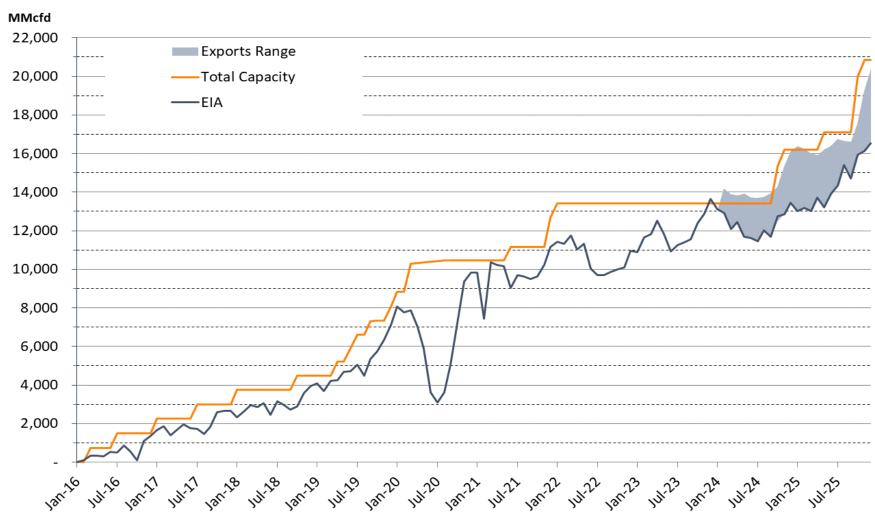
Source: Wood Mackenzie European gas and power markets short-term outlook, Q4 2023



LNG Exports vs Capacity: Liquefaction additions in 2024 now look to be towards the back end of the year



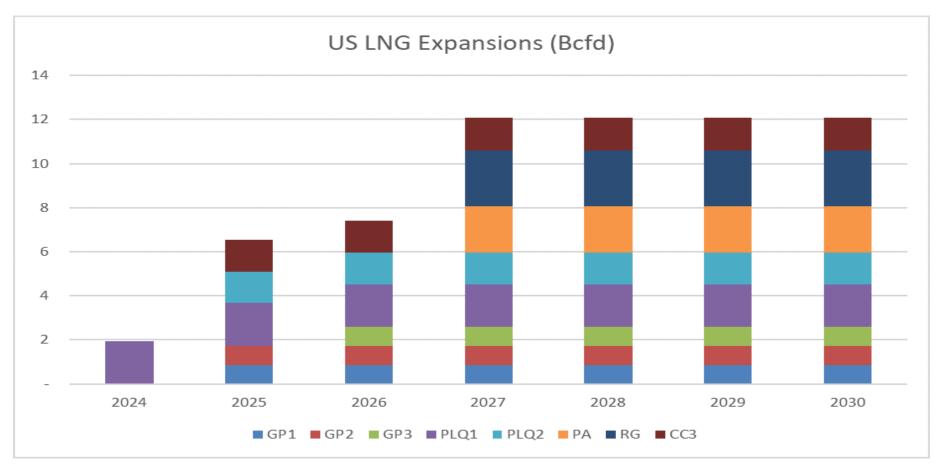
Source: Various External Sources, EIA STEO, March 2024



Over 12 Bcfd of new US LNG capacity is under construction or has made positive FID (end of year capacity shown)



Source: Various External Sources, December 2023

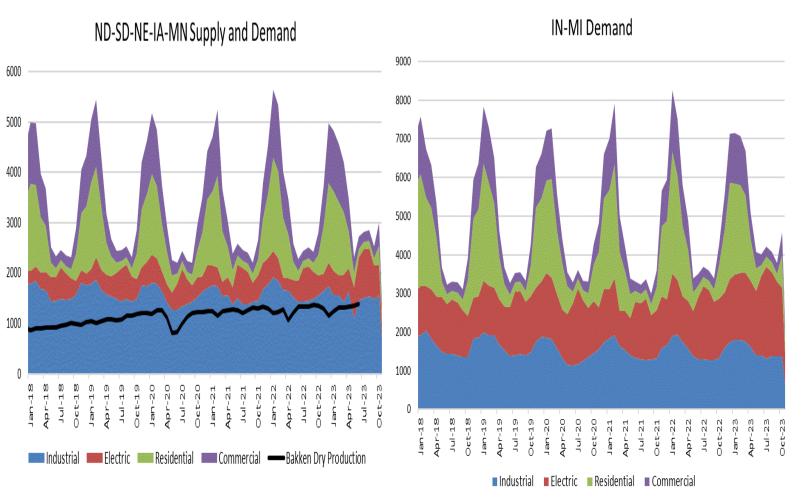


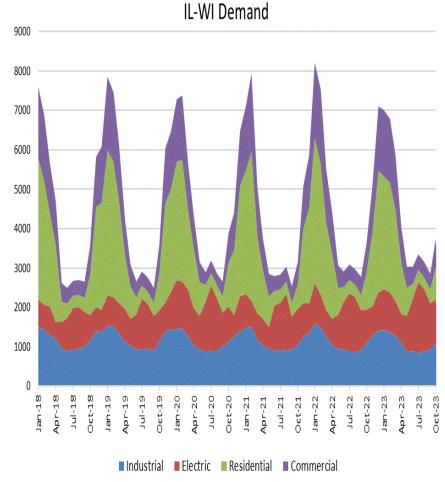
In addition to US capacity depicted, roughly 2.4 Bcfd of export capacity in Canada and 0.5 Bcfd in Mexico is under construction

Midwest Market Snapshot: May - Sept 2023 demand up YoY on extreme summer heat



Source: EIA, Natural Gas Monthly, January 2024

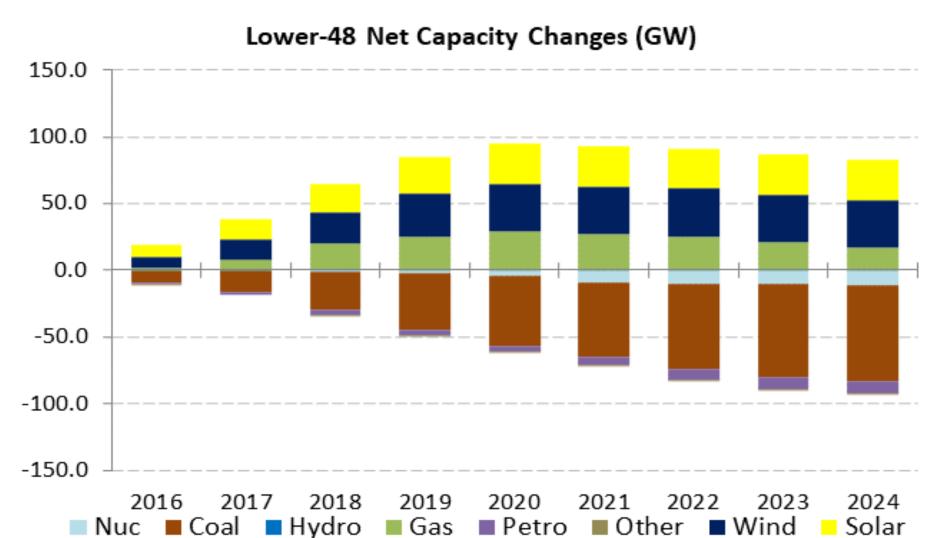






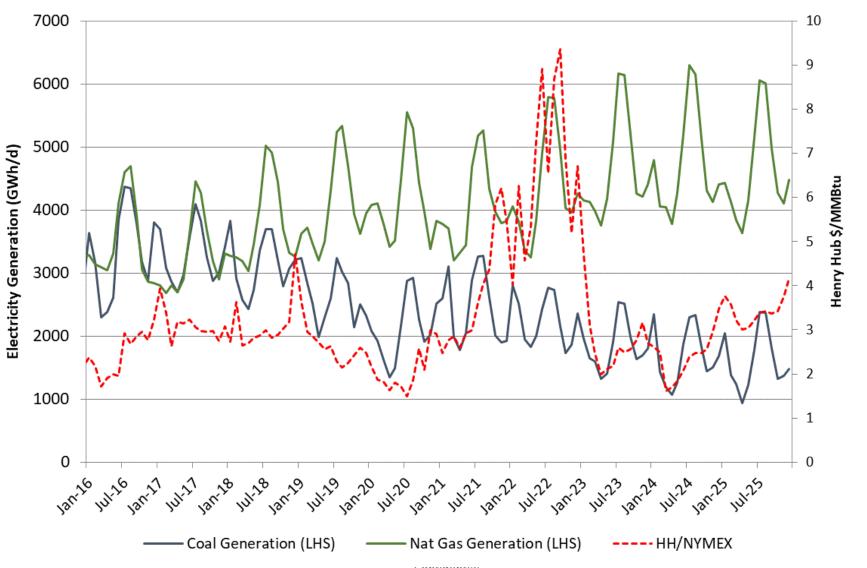


Source: Velocity Suite, ABB Enterprise Software, March 2024



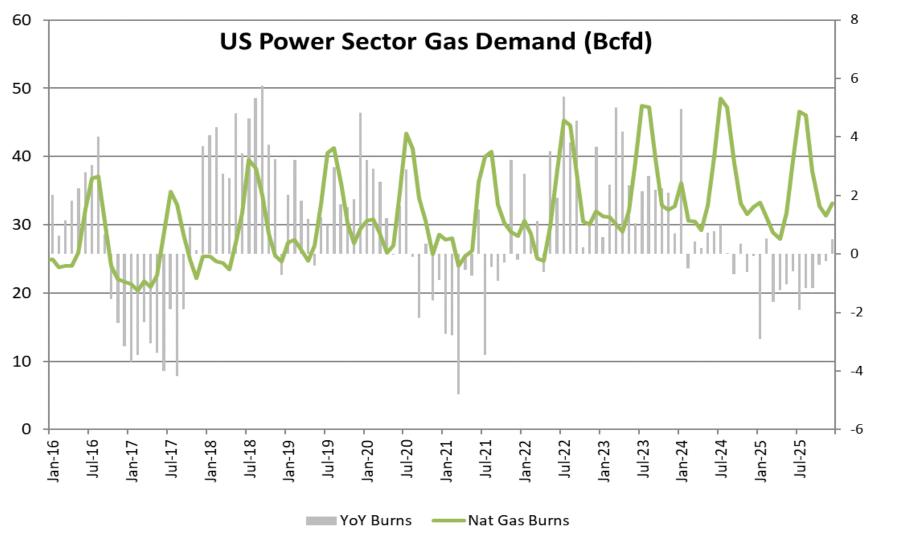
EIA projecting natural gas generation at 42% of US total in 2024; flat to 2023





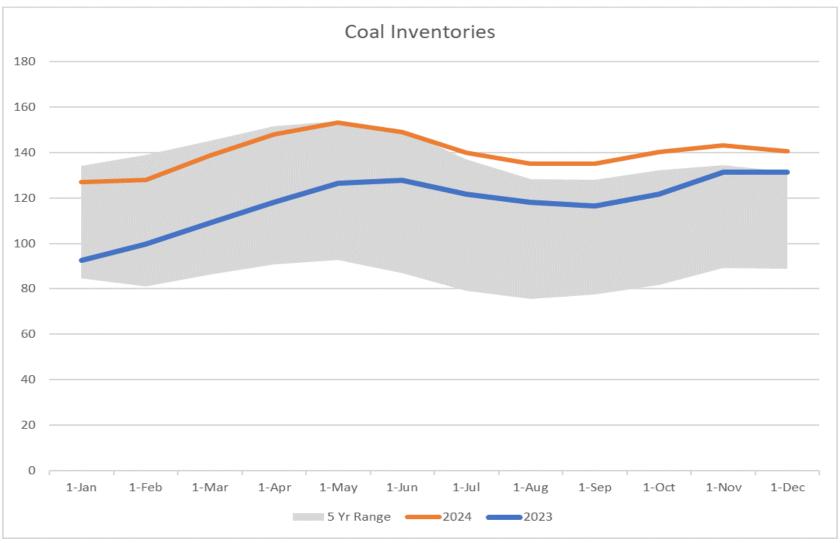
EIA expecting power sector natural gas demand to be increase 0.7 Bcfd YoY in 2024 after increasing 2.1 Bcfd YoY in 2023





EIA projecting above normal coal inventories in 2024 after increased inventories towards the 2H of 2023



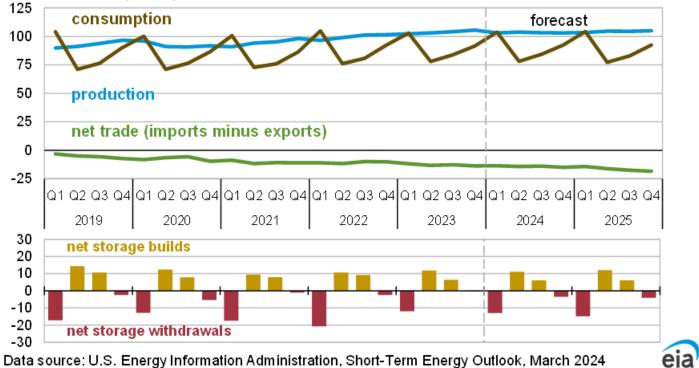


US Gas balances: EIA forecasting continued production growth and elevated storage inventories



U.S. natural gas production, consumption, and net imports





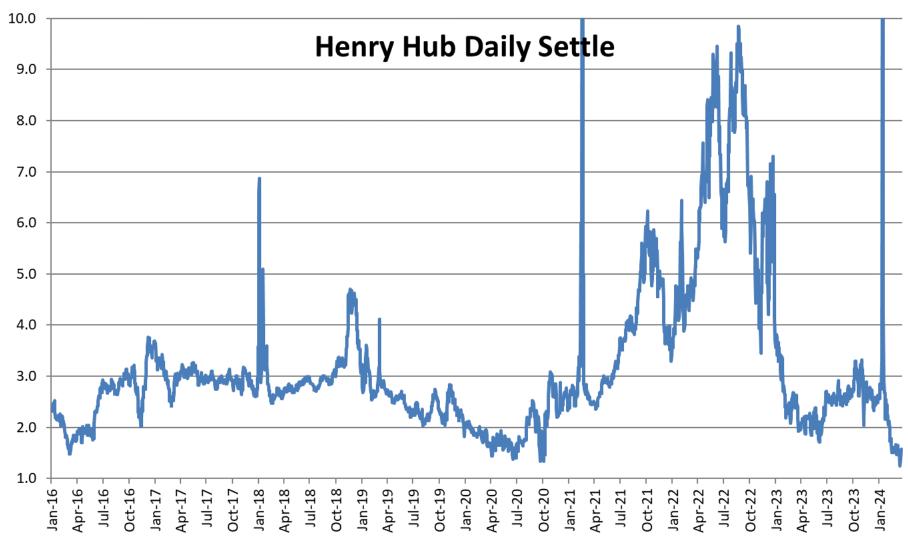
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, March 2024

- Production is expected to be 104.4 bcfd in 2024 and 106.5 bcfd in 2025.
- For 2024, US natural gas consumption is estimated to average 89.7 bcfd, up 0.6 bcfd from estimated 2023 levels due to all sectors other than industrial increasing.
- EIA end of season inventory projections:
 - 2.2 Tcf Mar 2024
 - 4.1 Tcf Oct 2024
- LNG exports are expected to average 12.1 bcfd in 2024 (4% increase YoY from 2022) and 14.4 bcfd in 2025
- 2024 HH prices are expected to average \$2.30/mmbtu.
 - Summer 2024 HH prices are expected to average \$2.11/mmbtu.
 - Winter 2024 HH prices are expected to average \$2.92/mmbtu
- 2025 HH prices forecasted to average \$2.90/mmbtu.
- Key risks/trends:
 - Drilling plans in a lower gas price environment
 - Timing of LNG
 - Weather





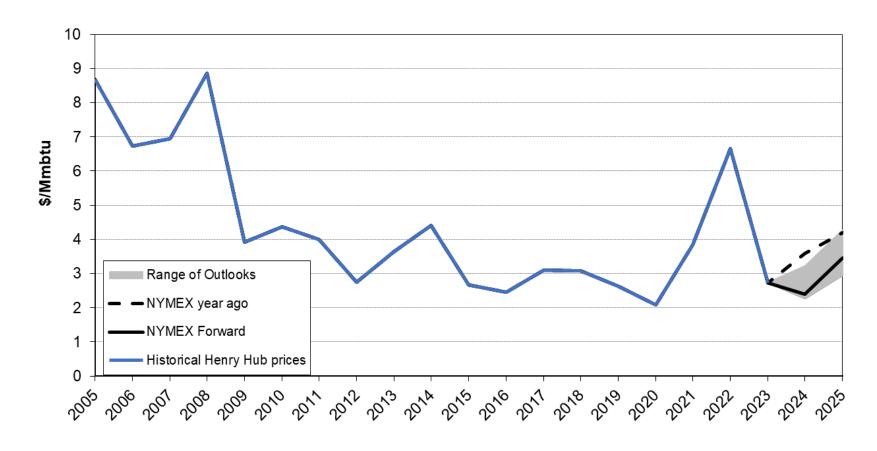
Source: NYMEX, 3/21/2024



Long-Term Henry Hub spot price outlooks



Source: NYMEX, Various External Consultants, 3/21/2024



View of crude oil prices, competing fuels, supply costs, production growth, structural demand trends and global trade flows will influence gas price outlook

Questions?

