

The Evolution of Midstream Energy Infrastructure: Poised for the Transition

EPISODE 2

Midstream Long-Term Drivers

DECEMBER 2022



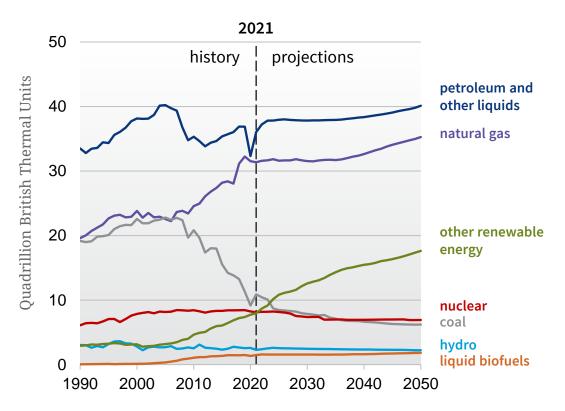
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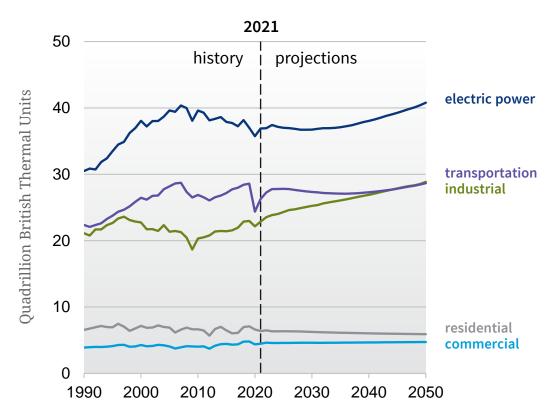
EIA Outlook to 2050: Hydrocarbon Sources Remain the Primary Fuel Source



Energy consumption by fuel AEO2022 Reference case



Energy consumption by sector AEO2022 Reference case



Note: Biofuels are shown separately and included in petroleum and other liquids.

Midstream Long-Term Drivers: December 2022

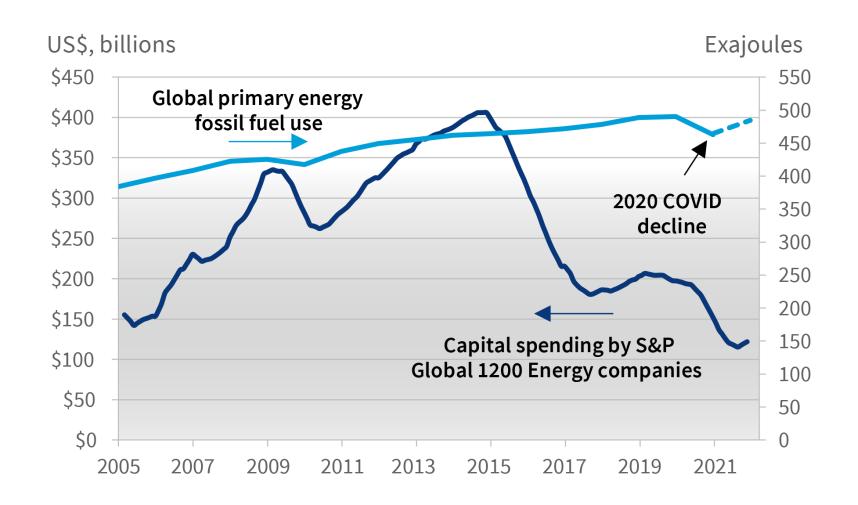
Underinvestment in Global Energy Supply



Capital markets have dissuaded public energy companies from making new investments.

However, global primary energy use has recovered to prepandemic levels, and the U.S. and Global economies run the risk of having a greater demand for fossil fuels than what the market can supply.

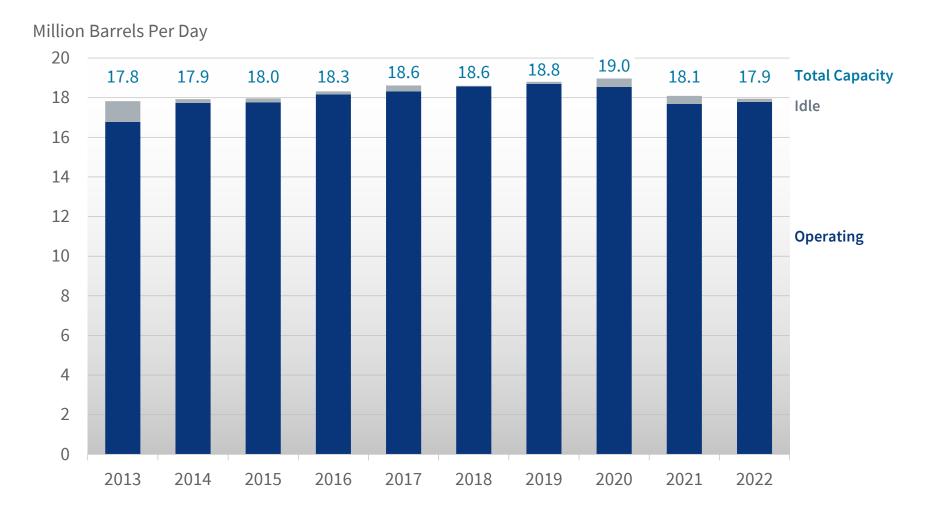
Source: JP Morgan, "Eye on the Market Outlook 2022", January 1, 2022.



Underinvestment in Refining Capacity



Policy disincentives have caused underinvestment in U.S. refining capacity.



Source: U.S. Energy Information Administration, *Refinery Capacity Report*, June 29, 2022

Global Energy Security



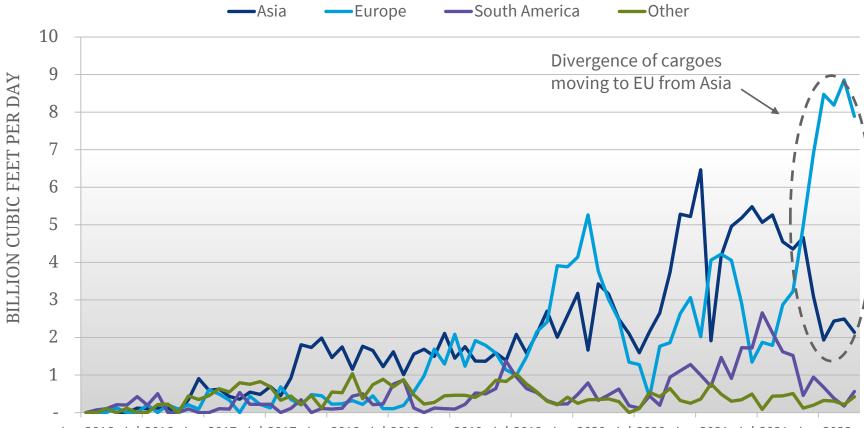
Russia's invasion of Ukraine has placed a renewed focus on Global energy security.

On 3/25/22, the Joint Task Force for Energy Security was established to supply EU nations with an incremental 4.8 billion cubic feet per day (Bcf/d) of liquefied natural gas (LNG) until at least 2030.

Midstream assets are mission critical to delivering increased U.S. natural gas volumes to export markets.

Source: U.S. Department of Energy

US LNG Exports by Region (Bcf/d)



Jan-2016 Jul-2016 Jan-2017 Jul-2017 Jan-2018 Jul-2018 Jan-2019 Jul-2019 Jan-2020 Jul-2020 Jan-2021 Jul-2021 Jan-2022

Natural Gas' Role in Renewables Growth



Because renewable power currently lacks viable storage options, natural gas is needed to balance baseload power and could play an increasing role alongside the growth of renewables and other intermittent sources.

Average Daily California Power Generation Baseload Wind Solar Load following Projected 2027 2.6 Bcfd 4.6 Bcfd

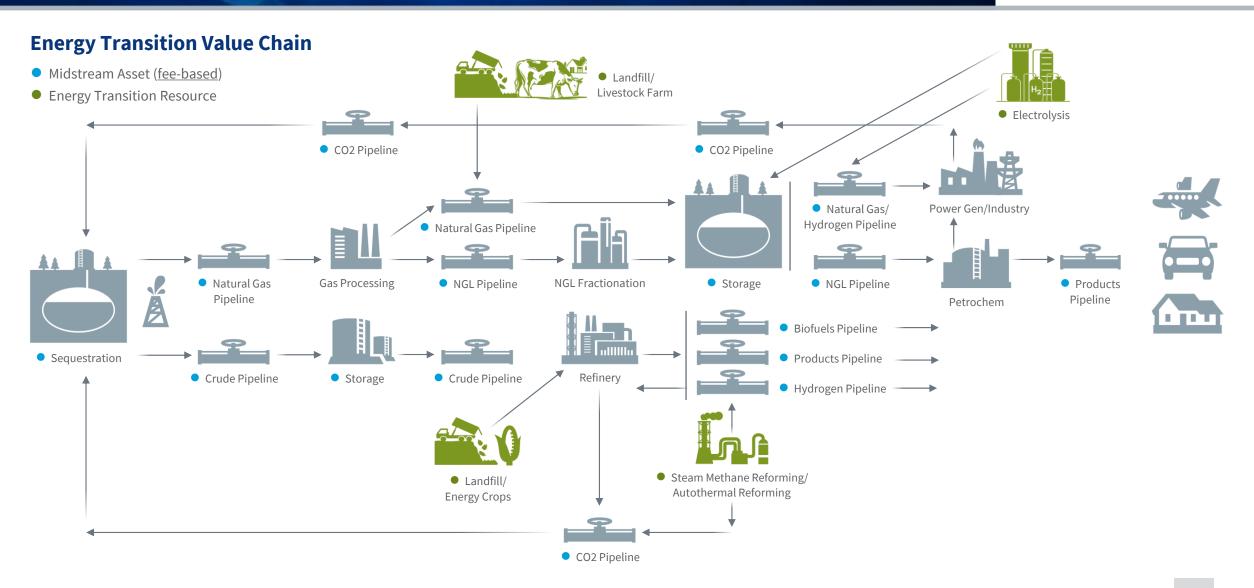
Load following peak hour equates to **2.6 Bcfd**Natural gas deliverability becomes more challenged

Load following daily average now **exceeds baseload**Significant infrastructure capacity required to ensure
natural gas deliverability at peaks

Source: Kinder Morgan Inc.

Midstream Value Chain in the Energy Transition





New & Repurposed Infrastructure Opportunities



NEXT 5 YEARS



\$30 BILLION THROUGH

High Carbon Displacement (HCD)

Gas & NGLs substitute coal and crude oil

Gas emissions reduction technologies

Advanced plastics recycling and other efficiency measures



\$160 BILLION PER YEAR BY 2030²

Bioenergy

Converting waste-to-energy

Repurposing infrastructure to facilitate decarbonization efforts



\$220 BILLION PER YEAR BY 20302

Carbon Capture Utilization and Sequestration (CCUS)

Repurposing infrastructure to facilitate decarbonization efforts

5-10 YEARS



\$180 BILLION PER YEAR BY 2030²

Hydrogen

Investable contracted infrastructure timeline is likely > 5 years out

There can be no guarantee that Chickasaw will be able to implement its investment strategy, that the Fund will be able to achieve its investment objective, or that any historical trends will continue. Information contained herein relating to industry characterization has been determined by Chickasaw based on internal research and data. Although Chickasaw believes that such determinations are reasonable, they are inherently subjective in nature.

⁽¹⁾ Wood Mackenzie, "North American gas investment horizon outlook to 2032", November 19, 2021. Estimate is for total new, North America natural gas infrastructure through 2032 only. Does not include other categories of high carbon displacement. (2) International Energy Agency, "Roadmap to Net Zero by 2050", May 17, 2021. Estimates are for annual new global infrastructure per year by 2030 for the category indicated.

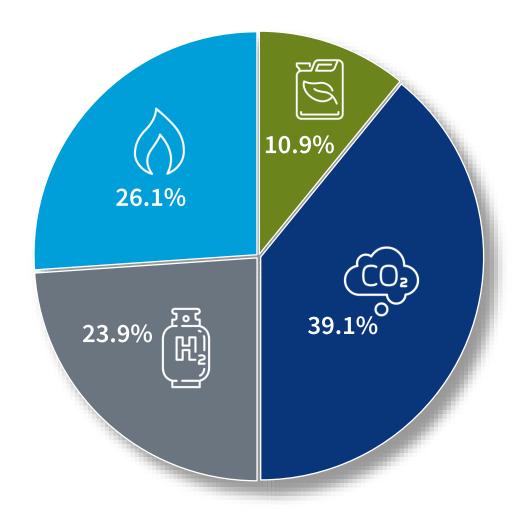


Midstream Energy Transition Announcements

Transition in Action

Since March 31, 2021, Midstream companies across a range of categories have made over 45 announcements related to their Energy Transition infrastructure efforts.

- Bioenergy | 5 Announcements
- Carbon Capture | 18 Announcements
- Hydrogen | 11 Announcements
- High Carbon Displacement | 12 Announcements



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Midstream Repurchase Authorizations



17 Midstream companies have authorized repurchases, including re-loading of completed programs.

An estimated \$12.9 billion of existing authorizations remain available.

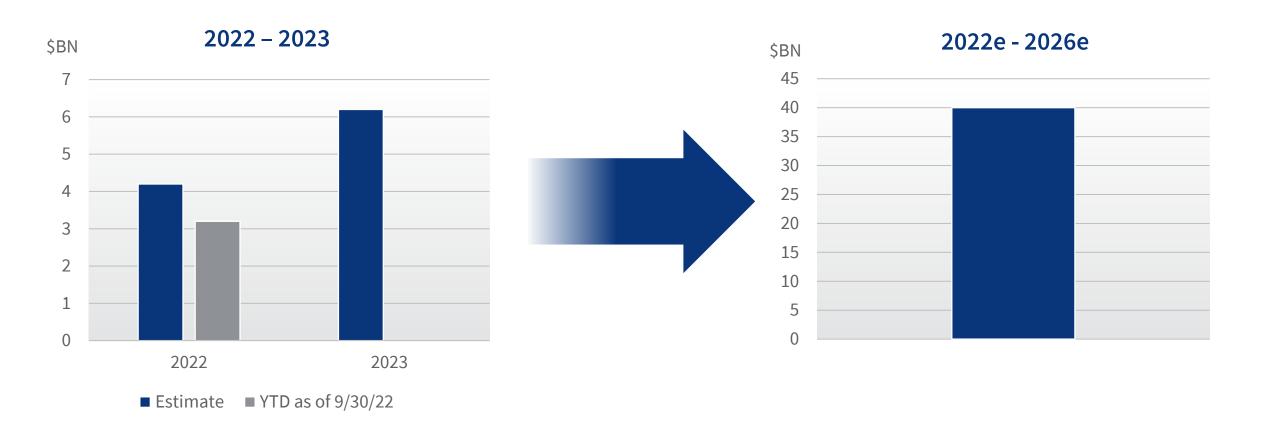
Note: Actual share repurchases may vary significantly

Source: Company filings, CCM as of 9/30/22

| Announcement Date | Ticker | Company Name | Total Authorized Repurchase (\$MM) | % of Float at Announcement | Amount Remaining (\$MM) | % of Float at Announcement Remaining |
|--------------------|--------|-----------------------------|---------------------------------------|-------------------------------|-------------------------------|--|
| August 12, 2019 | AM | Antero Midstream | \$300 | 2.2% | \$150 | 1.1% |
| March 25, 2021 | CEQP | Crestwood Midstream | \$175 | 10.3% | \$175 | 10.3% |
| January 5, 2022 | ENB | Enbridge Energy | \$1,181 | 1.5% | \$986 | 1.2% |
| November 4, 2020 | ENLC | EnLink Midstream | \$100 | 14.7% | \$0 | 0.0% |
| December 20, 2021 | ENLC | EnLink Midstream | \$41 | 2.6% | \$43 | 2.7% |
| January 31, 2019 | EPD | Enterprise Product Partners | \$2,000 | 5.2% | \$1,484 | 3.9% |
| February 18, 2015 | ET | Energy Transfer Partners | \$2,000 | 6.9% | \$880 | 3.0% |
| March 5, 2018 | GMLP | Golar LNG Partners | \$25 | 5.1% | \$25 | 5.1% |
| July 19, 2017 | KMI | Kinder Morgan Inc | \$2,000 | 5.2% | \$1,150 | 3.0% |
| June 3, 2019 | LNG | Cheniere Energy Inc | \$1,000 | 6.2% | \$22 | 0.1% |
| September 12, 2022 | LNG | Cheniere Energy Inc | \$4,000 | 10.3% | \$4,000 | 10.2% |
| January 21, 2020 | MMP | Magellan Midstream | \$750 | 5.2% | \$0 | 0.0% |
| October 20, 2021 | MMP | Magellan Midstream | \$750 | 7.0% | \$460 | 4.3% |
| November 2, 2020 | MPLX | MPLX | \$1,000 | 14.8% | \$202 | 3.0% |
| August 29, 2017 | NGL | NGL Energy Partners | \$15 | 1.3% | \$15 | 1.3% |
| November 2, 2020 | PAA | Plains All American | \$500 | 3.8% | \$197 | 4.8% |
| February 25, 2021 | PBA | Pembina Pipeline | \$955 | 12.1% | \$844 | 3.4% |
| October 5, 2020 | TRGP | Targa Resources Corporation | \$500 | 13.8% | \$215 | 5.9% |
| November 9, 2020 | WES | Western Midstream | \$250 | 12.0% | \$0 | 0.0% |
| February 23, 2022 | WES | Western Midstream | \$1,000 | 19.4% | \$575 | 11.2% |
| September 8, 2021 | WMB | Williams Companies | \$1,500 | 5.0% | \$1,500 | 5.0% |

Midstream Buyback Forecast





Sources: Wells Fargo, "Weekender", April 1, 2022; CCM



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Liquefied Natural Gas or LNG is natural gas that has been converted to a liquid form for the ease and safety of natural gas transport. Natural gas is cooled to approximately -260 F, creating a clear, colorless, and non-toxic liquid that can be transported from areas with a large supply of natural gas to areas that demand more natural gas.

Midstream companies, as used herein, are companies engaged primarily in midstream energy infrastructure regardless of entity structure or tax status. Midstream companies includes master limited partnerships (MLPs) that are organized as partnerships or limited liability companies which elect to be taxed as partnerships, as well as corporations and other entities which elect to be taxed as corporations (i.e., C-corps), many of which are the successors to MLPs that have consolidated into or with a C-corp parent or subsidiary thereof. Midstream interests, as used herein, are securities issued by Midstream companies.

NGLs or Natural Gas Liquids are hydrocarbons—in the same family of molecules as natural gas and crude oil, composed exclusively of carbon and hydrogen. Ethane, propane, butane, isobutane, and pentane are all NGLs. There are many uses for NGLs, spanning nearly all sectors of the economy. NGLs are used as inputs for petrochemical plants, burned for space heat and cooking, and blended into vehicle fuel.

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