## **GLOBAL MIDSTREAM UPDATE**



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Pipeline & Gas Journal





#### **Gulf Energy Information overview**

## Gulf Energy<sup>(1)</sup>

#### Empowered to Innovate, Committed to Excellence

Gulf Energy Information (Gulf) empowers employees to deliver premium technical and business content, as well as market intelligence solutions, to the global energy and infrastructure industries through trusted engagement.

For more than 100 years, Gulf's quality content and commitment to audience needs has led our company to become the most trusted resource in B2B media for the industries we serve. Our market-leading brands – Petroleum Economist, World Oil, Pipeline & Gas Journal, Hydrocarbon Processing, Gas Processing & LNG, H2Tech, Hydrogen Economist, Carbon Economist and Underground Infrastructure – serve their markets with real-time content through digital media and in-person/virtual events. Gulf also provides market intelligence solutions to the global energy industry through Global Energy Infrastructure and the Construction Boxscore Database.

#### **GULF BRANDS INCLUDE**

World Oil

HYDROCARBON

GAS PROCESSING

underground

Media PE Networl Petroleum Economist Hydrogen Economist

Carbon Economist

#### Featured brands

# Pipeline & Gas Journal





#### Pipeline & Gas Journal and Global Energy Infrastructure overview

# Pipeline & Gas Journal

Since 1859, Pipeline & Gas Journal is the essential resource for technology and trends in the midstream industry; written and edited to be of service to those involved in moving, marketing and managing hydrocarbons from the wellhead to the ultimate consumer. Properly built, maintained and operated pipelines are

Pipeline & Gas Journal subsection beauty

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the safest, most efficient method of transporting energy. Our intention is to assist our subscribers in performing their jobs to the utmost of their abilities and knowledge by providing information required in the day-to-day operation of energy pipelines.



Project data and market intelligence is consolidated in the Global Energy Infrastructure (GEI) site for easy access. This site carries project data and the latest news for refining, petrochemicals, LNG, oil and gas pipelines, renewables, and hydrogen. All data covers the global marketplace. All data is updated on a

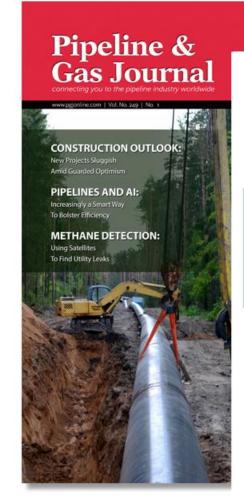


continuous basis, and includes status, scope, project description, and other essential data. GEI data is used by the world's largest energy companies and suppliers to track projects around the world.

#### Key International reports

#### International construction outlook

- Owner/Operator editorial contacts plus filings to FERC in the U.S.
- National Energy Board in Canada
- Research of various governmental entities
- Company websites, annual reports, press releases and social media
- P&GJ's annual Top 500 Pipeline Reports of the U.S. and Europe
- Global Energy Infrastructure database



Global Pipeline Construction Outlook 2022:

#### Amid Some Positive Indicators, New Projects Limited

lated economic concerns kept markets on shareholder returns. edge and highly reactive for much of the year.

A consensus among industry analysts stages of construction.

While an improved upstream outlook had & Gas Journal's annual analysis of pipe- declines - though for varying reasons. positive implications for the midstream sec- line construction activity, which found

and natural gas prices climbed tively strong and continue to drive strong total mileage compared with the 113,305 gher in 2021, prompting increased upstream cash flows in 2022. But mid- miles of pipelines that were planned of

out a host of political and COVID- ing up their balance sheets and increasing in every region, compared with the year-These trends were reflected in Pipeline Asia-Pacific regions nosting the larges

tor, global pipeline construction remained 103,324 miles of pipelines either planned tion across seven global regions at the start ers maintained a cautious approach, with start of 2022. Of those, 71,495 miles repre- (-13.4%); South America, 16,230 (-1.0%); phase, and 31,829 miles are in various 16,684 (-1.0%), Asia-Pacific/Australia, 20,918 (-13.6%), Middle East, 4,986 (-4.3%),



#### International pipeline construction



• 39,021 under construction

75,332 planned

114,353 worldwide total

#### Regional pipeline construction - Western Europe



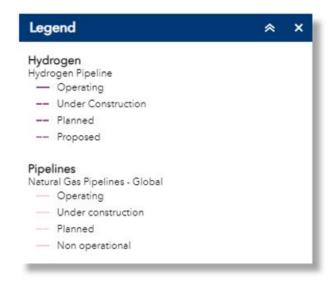
• 4,312 under construction

7,770 planned

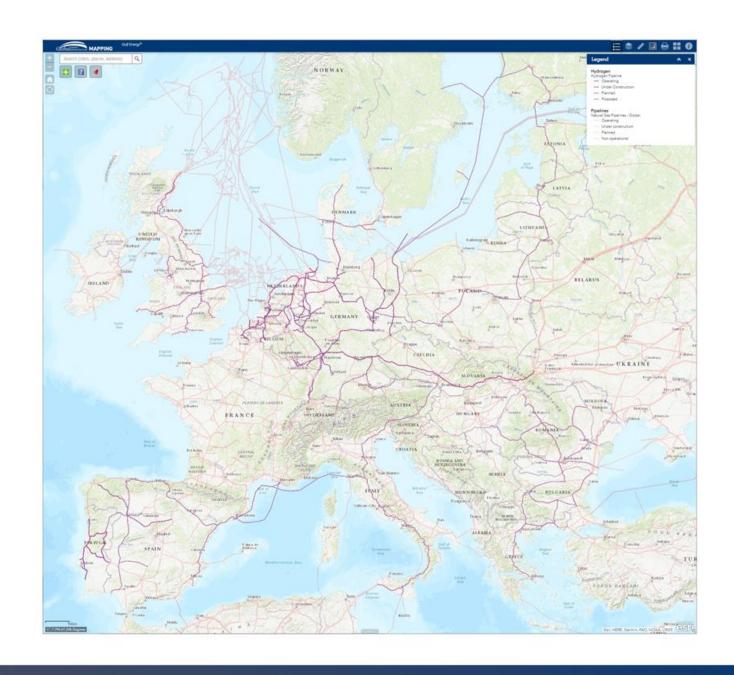
12,082 total

#### **Europe**

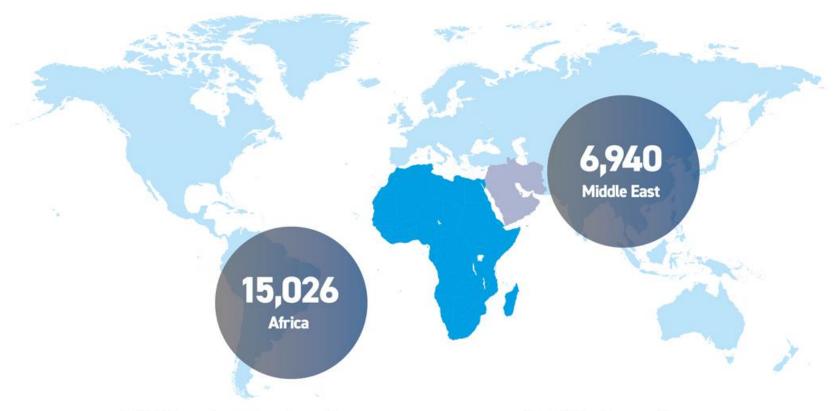
#### Hydrogen pipelines







#### Regional pipeline construction - Africa and Middle East



- Africa
- Middle East
- 2,774 under construction
- 1,226 under construction

- 12,252 planned
- 5,714 planned

- 15,026 total
- 6,940 total

### Regional pipeline construction - Russia & CIS



• 5,722 under construction

• 10,912 planned

16,684 total

#### Asia Pacific | Russian Federation | Power of Siberia



\* SKV GTS Sakhalin - Khabarovsk -Vladivostok gas transmission system



#### Regional pipeline construction - Asia Pacific



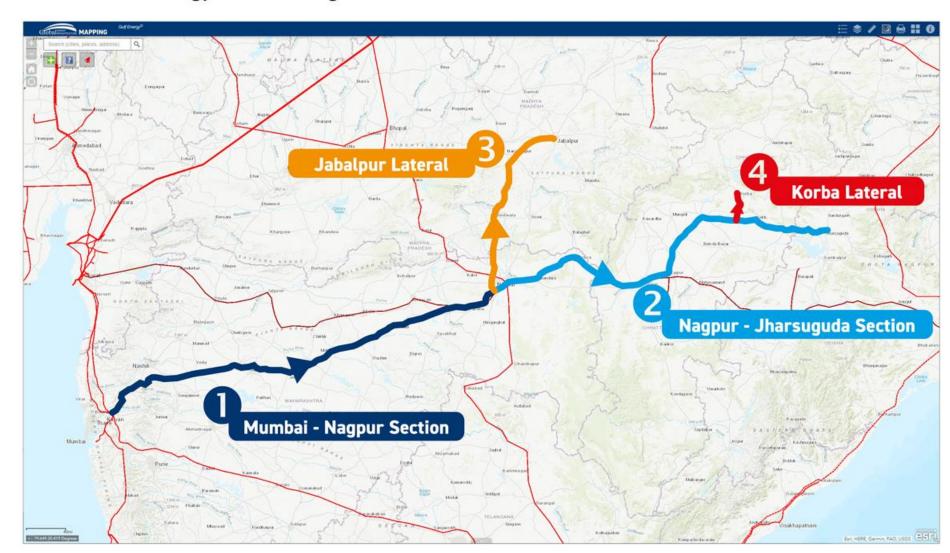
• 12,010 under construction

• 19,511 planned

31,521 total

## Asia Pacific | India

#### Mumbai - Nagpur - Jharsuguda





### Regional pipeline construction - South / Central America



• 4,429 under construction

8,852 planned

13, 281 total

## Central & South America | Argentina Nestor Kirchner, Gasducto Norte & Reversion del Norte





#### Regional pipeline construction - North America



• 8,548 under construction

10,321 planned

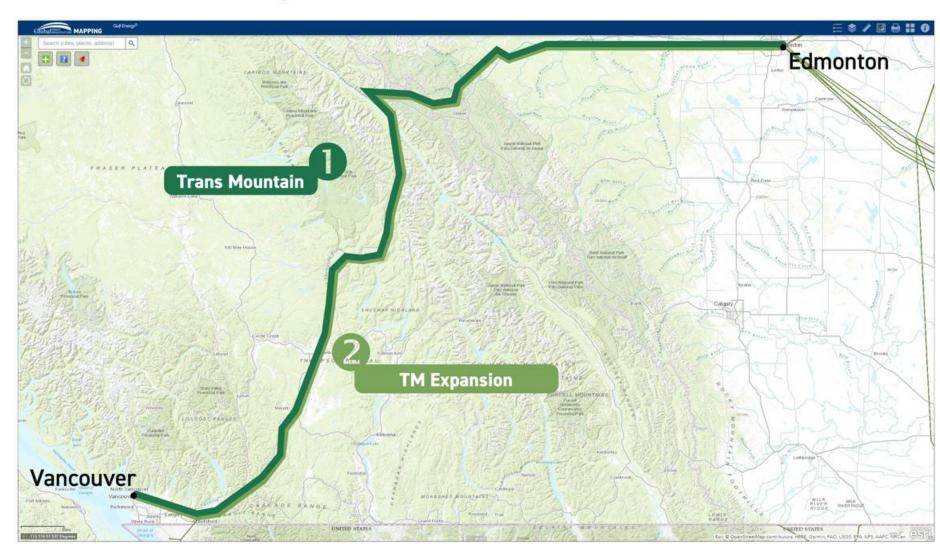
18,869 total

### North America | Canada Coastal GasLink



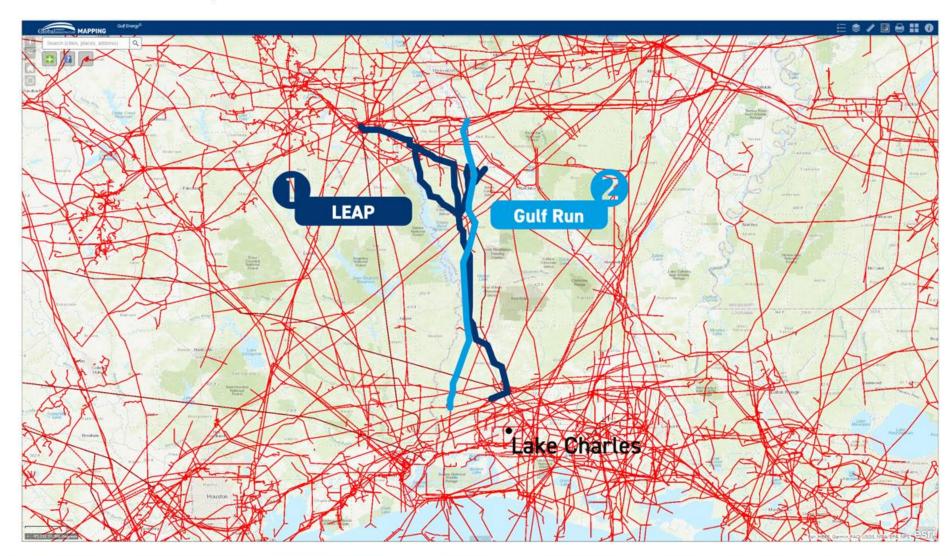


### North America | Canada Trans Mountain Pipeline



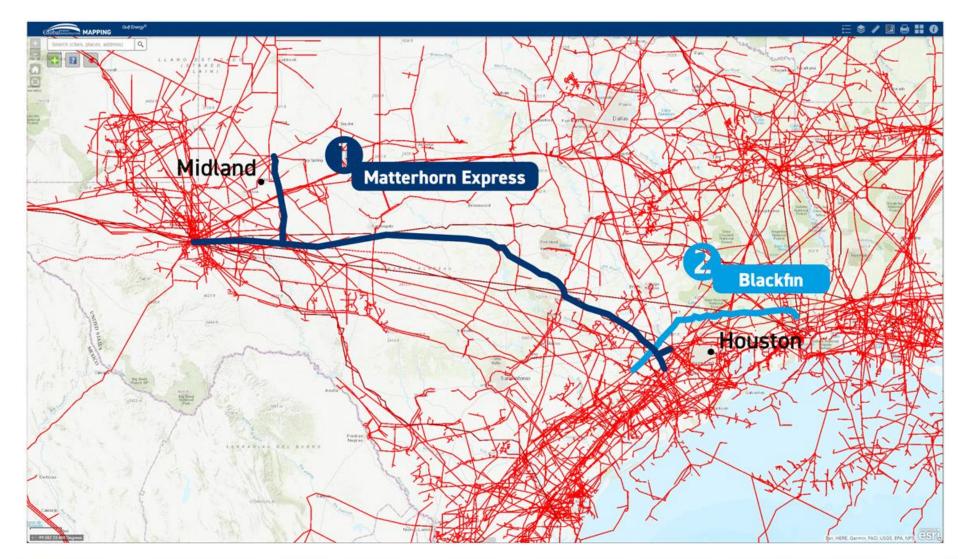


### North America | United States Haynesville





### North America | United States Permian

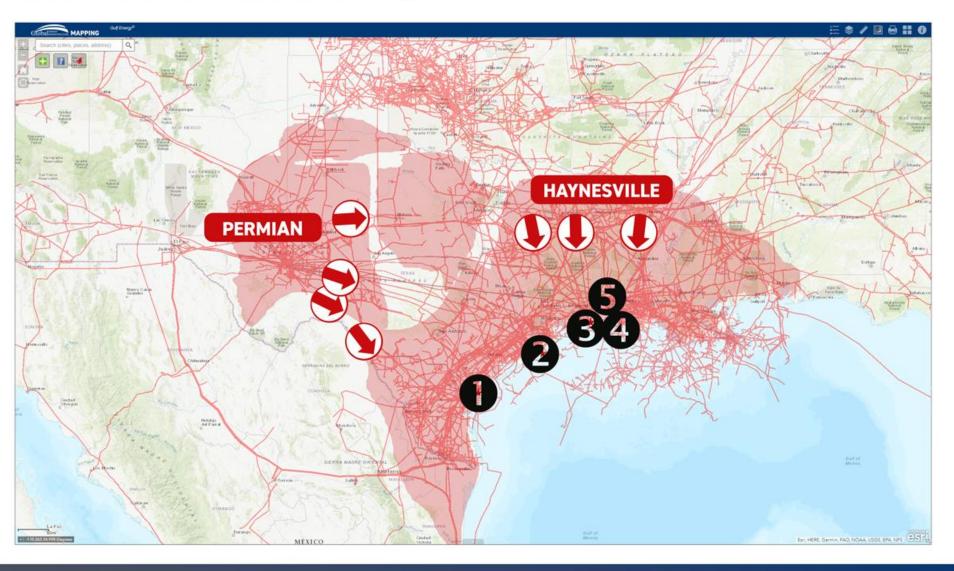




### North America | United States | Gulf Coast LNG facilities

- Corpus Christi
- 2 Freeport
- Sabine Pass
- 4 Calcasieu
  Pass
- 6 Lake Charles





#### North America | Mexico | West Coast gas supply for LNG exports

- Energia Costa
  Azul (ECA LNG)
- Saguaro LNG (Mexico Pacific)
- Amigo LNG
- Wista Pacifico LNG





#### **Summary**

- LNG is driving pipeline construction globally, particularly in the United States and Canada.
- Hydrogen pipelines are a growing area for pipeline development.
- Gas pipeline development remains a big market, especially in emerging markets like India.

# Q&A



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## THANK YOU



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