

Oil & Gas Pipeline Market – Global Industry Size, Share, Trends, Opportunity, and Forecast 2018-2028 Segmented By Type (Crude Oil Pipeline and Natural Gas Pipeline), By Application (Onshore and Offshore), By Source (Upstream, Midstream, Downstream), By Region, Competition

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Abstracts

Global Oil & Gas Pipeline Market is expected to grow at a robust pace in the forecast period 2024-2028.

Oil demand shall grow from 97 million barrels per day in 2021 to an average of about 1 million barrels per day by 2029, according to the International Energy Agency (IEA). Oil and gas are increasing the size of pipelines and new pipeline projects are being approved. In addition, the global oil and gas pipeline market is expanding due to the expansion of offshore business. However, the shift to sustainable sources of power generation poses significant risks to oil and gas demand and could pose significant challenges to oil and gas pipeline development in the years to come. It is estimated that the demand for natural gas from many end-use sectors, including power generation, shall increase due to the availability of abundant natural gas reserves and cost-effective access unlike other types of fossil fuels. This shall increase the global oil & gas pipeline market in the coming years. To cover the growing oil and gas consumption, pipeline capacity is being expanded and new pipeline projects are being commissioned. Additionally, increasing offshore activities such as deepwater and ultra-deepwater production and development are driving the oil and gas pipeline market. In addition, abundant natural gas reserves and low cost compared to other types of fossil fuels, among others, are expected to complement demand for natural gas from multiple end-use sectors, including power generation. This is likely to boost the global oil & gas

pipeline market during the forecast period.

Increasing projects propelling the Global Oil & Gas Pipeline Market growth during the forecast period

Global oil & gas pipeline market is driven by increasing demand from countries, such as China and India, which are jointly building more gas pipelines than any other part of the world. Both countries lead the way in pipeline length under construction, with annual growth of 9% year-on-year. This is according to data released by the Global Energy Monitor. According to the Global Gas Infrastructure Tracker data collection at the end of 2022, 17,800 kilometers of gas pipelines are under construction in China with an estimated cost of USD21.9 billion and 14,300 kilometers in India with an estimated cost of USD20.7 billion. The next countries with the most gas pipelines under construction are Iran, Russia and Pakistan. The longest pipeline projects under construction are the 2,775-kilometer Iran-Pakistan pipeline and the 2,655-kilometer Jagdishpur-Haldia-Bokaro-Damla Natural Gas Pipeline (JHBDPL) in India.

Pipeline applications include domestic, commercial and industrial. Pipelines can be used to transport natural gas to homes (domestic), jet fuel to airports (commercial), and crude oil to refineries (industrial). Pipelines can transport vast quantities of oil and natural gas. It transports these vast quantities of oil and natural gas more efficiently than traditional transportation by rail, truck or ship. Installing a pipeline system for oil and gas transportation can be completed in a fraction of the time it would take to build a dedicated rail transportation system of similar length. The need to cope with difficult geographic terrain and adverse climatic conditions usually means years of planning, manpower, and longer timelines for rail construction projects. High-capacity pipes can be easily constructed to cross natural geographic barriers, speeding pipeline construction. An advantage of pipeline transportation of oil and natural gas is the efficiency of the process. Pipeline systems consume relatively little energy to transport much more oil than trucks, trains or ships. Pipeline also simplifies the oil and gas metering process with the help of modular process skid manufacturers for pipeline applications. Extracting oil via pipelines is a greener alternative to transporting it by conventional railroad or oil ship. Since oil pipelines are sealed and mostly underground, they are less harmful to the environment than other modes of transportation. This significantly reduces the carbon footprint.

Advancements in core technologies like Data Analytics, Artificial Intelligence (AI), etc. propelling Global Oil and Gas Pipeline Market

The gradual use of cutting-edge technology like blockchain, cloud computing, AI and data analytics speeds up processing times and decreases the demand for human labor. The easy and preventive transfer of oil and gas has undergone extensive modifications due to the growing technical advancement in the oil and gas industries. Natural gas pipes are used to transport gas from stationary engines to various sites, including houses or export facilities. Assembling systems are used in this operation; the natural gas assembling system assembles the raw materials from manufacturing wells before transferring them via large transmission pipelines from machinery to ports and purifiers. As it relates to upstream, middle, and downstream operations, the oil and gas sector increasingly uses AI and data science to tackle complicated problems. Platforms with AI help decision-making by providing information from predictive, prescriptive, and cognitive analytics. In order to boost ROI, AI assists petroleum engineers and managers in the oil and gas sector in finding and putting into practice fresh concepts for exploration and production. Thus, the above factors are expected to drive the Global Oil and Gas Pipeline Market.

Pipeline inspection advancements boosting Global Oil and Gas Pipeline Market

One of the advancements in pipeline inspection is the use intelligent drone vehicles. They are connected to the Internet of Things (IoT) and provide a cost-effective way to visually inspect pipelines. These drones can operate autonomously even when there are network connectivity issues or limitations. Under these circumstances, drones would continue to collect data and inspect sections of the pipeline within a limited grid area. When it reaches a section of the pipeline where the full network is available, it reconnects and sends the previously collected data. Advances in pipeline inspection technology shall therefore ensure the safety of oil and gas pipelines, which in turn shall increase acceptance over other types of oil and gas transport, thereby contributing to the growth of the Global Oil & Gas Pipeline Market.

Market Segmentation

The Global Oil & Gas Pipeline Market is segmented based on type, application, source, region and competitive landscape. Based on type, the market is bifurcated into crude oil pipeline and natural gas pipeline. Based on application, the market is further bifurcated into onshore and offshore. Based on source, the market is segmented into upstream, midstream, downstream. Based on region, the market is divided into North America, Asia-Pacific, Europe, South America, Middle East & Africa.

Market players

The main market players in the Global Oil & Gas Pipeline Market are Nippon Steel Corporation, Tenaris Inc., TMK Group, Mott Macdonald Group Ltd, Shengli Oil & Gas Pipe Holdings Limited, United States Steel Corporation, OMK Steel Ltd, ChelPipe Group, Gazprom PJSC, British Petroleum p.l.c.

Report Scope:

In this report, Global Oil & Gas Pipeline Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Oil & Gas Pipeline Market, By Type:

Crude Oil Pipeline

Natural Gas Pipeline

Oil & Gas Pipeline Market, By Application:

Onshore

Offshore

Oil & Gas Pipeline Market, By Source:

Upstream

Midstream

Downstream

Oil & Gas Pipeline Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

India

Japan

South Korea

Australia

China

Europe

Germany

United Kingdom

France

Italy

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

Saudi Arabia

South Africa

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Oil & Gas Pipeline Market.

Available Customizations:

Global Oil & Gas Pipeline Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to ten).

Contents

1. Product Overview

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 GLOBAL OIL & GAS PIPELINE MARKET

5. VOICE OF CUSTOMERS

6. GLOBAL OIL & GAS PIPELINE MARKET

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type (Crude Oil Pipeline, Natural Gas Pipeline)

6.2.2. By Application (Onshore, Offshore)

6.2.3. By Source (Upstream, Midstream, Downstream)

6.2.4. By Region

6.3. By Company (By 2022)

6.4. Market Map

7. NORTH AMERICA OIL & GAS PIPELINE MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Application

7.2.3. By Source

7.2.4. By Country

7.3. North America: Country Analysis

7.3.1. United States Oil & Gas Pipeline Market Outlook

- 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
- 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Source
- 7.3.2. Canada Oil & Gas Pipeline Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Source
- 7.3.3. Mexico Oil & Gas Pipeline Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By Source

8. ASIA-PACIFIC OIL & GAS PIPELINE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By Source
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Oil & Gas Pipeline Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Source
 - 8.3.2. India Oil & Gas Pipeline Market Outlook

- 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
- 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Source
- 8.3.3. Japan Oil & Gas Pipeline Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By Source
- 8.3.4. South Korea Oil & Gas Pipeline Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By Source
- 8.3.5. Australia Oil & Gas Pipeline Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By Source

9. EUROPE OIL & GAS PIPELINE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Application
 - 9.2.3. By Source
 - 9.2.4. By Country
- 9.3. Europe: Country Analysis
 - 9.3.1. Germany Oil & Gas Pipeline Market Outlook

- 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By Source
- 9.3.2. United Kingdom Oil & Gas Pipeline Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By Source
- 9.3.3. France Oil & Gas Pipeline Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Application
 - 9.3.3.2.3. By Source
- 9.3.4. Spain Oil & Gas Pipeline Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Type
 - 9.3.4.2.2. By Application
 - 9.3.4.2.3. By Source
- 9.3.5. Italy Oil & Gas Pipeline Market Outlook
 - 9.3.5.1. Market Share & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Type
 - 9.3.5.2.2. By Application
 - 9.3.5.2.3. By Source

10. SOUTH AMERICA OIL & GAS PIPELINE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Application

10.2.3. By Source

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Oil & Gas Pipeline Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Type

10.3.1.2.2. By Application

10.3.1.2.3. By Source

10.3.2. Argentina Oil & Gas Pipeline Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Type

10.3.2.2.2. By Application

10.3.2.2.3. By Source

10.3.3. Colombia Oil & Gas Pipeline Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Type

10.3.3.2.2. By Application

10.3.3.2.3. By Source

11. MIDDLE EAST & AFRICA OIL & GAS PIPELINE MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Type

11.2.2. By Application

11.2.3. By Source

11.2.4. By Country

11.3. Middle East & Africa: Country Analysis

11.3.1. Saudi Arabia Oil & Gas Pipeline Market Outlook

- 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
- 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Type
 - 11.3.1.2.2. By Application
 - 11.3.1.2.3. By Source
- 11.3.2. South Africa Oil & Gas Pipeline Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Type
 - 11.3.2.2.2. By Application
 - 11.3.2.2.3. By Source
- 11.3.3. UAE Oil & Gas Pipeline Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Type
 - 11.3.3.2.2. By Application
 - 11.3.3.2.3. By Source

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

14. COMPANY PROFILES

- 14.1. Nippon Steel Corporation
 - 14.1.1. Business Overview
 - 14.1.2. Key Revenue and Financials (If Available)
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel
 - 14.1.5. Key Product/Service
- 14.2. Tenaris Inc.
 - 14.2.1. Business Overview

- 14.2.2. Key Revenue and Financials (If Available)
- 14.2.3. Recent Developments
- 14.2.4. Key Personnel
- 14.2.5. Key Product/Service
- 14.3. TMK Group
 - 14.3.1. Business Overview
 - 14.3.2. Key Revenue and Financials (If Available)
 - 14.3.3. Recent Developments
 - 14.3.4. Key Personnel
 - 14.3.5. Key Product/Service
- 14.4. Mott Macdonald Group Ltd
 - 14.4.1. Business Overview
 - 14.4.2. Key Revenue and Financials (If Available)
 - 14.4.3. Recent Developments
 - 14.4.4. Key Personnel
 - 14.4.5. Key Product/Service
- 14.5. Shengli Oil & Gas Pipe Holdings Limited
 - 14.5.1. Business Overview
 - 14.5.2. Key Revenue and Financials (If Available)
 - 14.5.3. Recent Developments
 - 14.5.4. Key Personnel
 - 14.5.5. Key Product/Service
- 14.6. United States Steel Corporation
 - 14.6.1. Business Overview
 - 14.6.2. Key Revenue and Financials (If Available)
 - 14.6.3. Recent Developments
 - 14.6.4. Key Personnel
 - 14.6.5. Key Product/Service
- 14.7. OMK Steel Ltd
 - 14.7.1. Business Overview
 - 14.7.2. Key Revenue and Financials (If Available)
 - 14.7.3. Recent Developments
 - 14.7.4. Key Personnel
 - 14.7.5. Key Product/Service
- 14.8. OMK Steel Ltd
 - 14.8.1. Business Overview
 - 14.8.2. Key Revenue and Financials (If Available)
 - 14.8.3. Recent Developments
 - 14.8.4. Key Personnel

14.8.5. Key Product/Service

14.9. ChelPipe Group

14.9.1. Business Overview

14.9.2. Key Revenue and Financials (If Available)

14.9.3. Recent Developments

14.9.4. Key Personnel

14.9.5. Key Product/Service

14.10. Gazprom PJSC

14.10.1. Business Overview

14.10.2. Key Revenue and Financials (If Available)

14.10.3. Recent Developments

14.10.4. Key Personnel

14.10.5. Key Product/Service

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

(Note: The companies list can be customized based on the client requirements.)

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