

Offshore Pipeline Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Product (Oil, Gas, And Refined Product), By Basis of Line (Export Line And Transport Line), By Diameter (Below 24’ And Greater than 24’), By Region & Competition, 2021-2031F

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Abstracts

The Global Offshore Pipeline Market is projected to rise from USD 11.41 Billion in 2025 to USD 14.53 Billion by 2031, reflecting a compound annual growth rate of 4.11%.

These pipelines function as essential subsea transportation systems, moving fluids such as crude oil, natural gas, and water from marine extraction sites to onshore processing plants or between offshore platforms. This market expansion is fundamentally underpinned by rising global energy requirements, which are pushing the industry into deepwater and ultra-deepwater regions that demand extensive transmission infrastructure. Furthermore, the strategic shift toward natural gas as a transitional energy source drives the need for new marine networks connecting remote reservoirs with consumer markets; this is evidenced by the International Gas Union reporting a 1.9 percent increase in global natural gas demand to a record 4,122 billion cubic meters in 2024, signaling strong consumption trends that encourage infrastructure spending.

However, the market faces significant obstacles that may hinder its future growth. The primary barrier is the immense capital expenditure required to install and maintain pipelines in hostile deep-sea environments where technical complexity is severe. These financial risks are frequently compounded by strict environmental regulations and rigorous permitting procedures designed to safeguard marine ecosystems. Such regulatory requirements often result in extended project timelines and escalated compliance costs for operators, thereby complicating the execution of new

developments.

Market Driver

The intensification of deepwater and ultra-deepwater exploration serves as a major catalyst for the Global Offshore Pipeline Market. As accessible shallow-water reserves become depleted, energy corporations are forced to venture into remote marine environments to secure new hydrocarbon resources. This shift necessitates the deployment of durable subsea transmission systems capable of withstanding extreme hydrostatic pressure and frigid temperatures while conveying fluids over long distances to processing hubs. This capital-intensive trend is supported by a surge in sector-wide funding; according to the International Energy Agency's 'World Energy Investment 2024' report, global upstream oil and gas investment was projected to rise by 7 percent to USD 570 billion in 2024. Such financial commitment is crucial for fueling the engineering and installation of the complex pipeline networks required to monetize these deep-sea discoveries.

Concurrently, the strategic development of LNG export infrastructure is significantly influencing market growth. The global energy transition has established natural gas as a critical bridge fuel, triggering a wave of investments in liquefaction terminals that require extensive feed-gas pipelines to connect offshore reservoirs with onshore facilities. This momentum is illustrated by major capacity expansion initiatives; for instance, QatarEnergy announced in February 2024 plans to increase its LNG production capacity by an additional 16 million tons per annum as part of the North Field West Expansion. These projects create substantial demand for large-diameter trunklines to ensure reliable feedstock supply. Similarly, Woodside Energy successfully completed the installation of the 433-kilometer Scarborough trunkline in 2024, demonstrating the massive scale of infrastructure currently being delivered to support international gas trade.

Market Challenge

The Global Offshore Pipeline Market is significantly hindered by the prohibitive capital expenditure required for infrastructure development, particularly within deepwater and ultra-deepwater environments. Constructing pipelines in these adverse conditions demands heavy investment in specialized materials and installation vessels engineered to resist extreme hydrostatic pressure and low temperatures. This financial burden is compounded by technical complexities, where even minor engineering adjustments to address subsea challenges can lead to substantial cost overruns. Consequently,

operators frequently struggle to secure Final Investment Decisions for new projects, as the high break-even price for offshore developments creates a substantial barrier to entry and threatens the economic viability of marginal fields.

Additionally, strict environmental regulations and rigorous permitting processes impose a secondary layer of operational strain that exacerbates financial risks. Compliance with standards for marine ecosystem protection necessitates extensive environmental impact assessments and the implementation of costly mitigation measures, which significantly prolong project timelines. These delays directly hamper market growth by deferring revenue generation and increasing the carrying costs of capital. The magnitude of the financial commitment required in this sector is evident in recent investment trends; the International Energy Agency projected global upstream oil and gas investment to reach \$570 billion in 2024, a figure that underscores the colossal resources needed to sustain and expand marine production infrastructure. Such high entry costs and regulatory hurdles limit market participation and frequently result in the postponement of planned pipeline expansions.

Market Trends

The transition toward hydrogen transportation marks a structural shift in the offshore sector, moving beyond traditional hydrocarbon conveyance to support low-carbon energy vectors. Operators are increasingly focusing on developing extensive offshore backbones that connect wind-powered electrolysis hubs directly to onshore industrial clusters, necessitating both new pipeline construction and the technical repurposing of existing natural gas infrastructure. This trend significantly alters material procurement strategies, as pipelines must be engineered or retrofitted to mitigate hydrogen embrittlement and ensure high-pressure containment. According to Gas Infrastructure Europe's November 2024 position paper on the 'European Hydrogen Backbone,' the initiative targets the development of a pan-European hydrogen network reaching 58,000 kilometers by 2040, driving substantial long-term demand for specialized subsea transmission systems.

Simultaneously, the expansion of Carbon Capture, Utilization, and Storage (CCUS) networks is creating a novel reverse logistics market segment where pipelines are deployed to transport captured carbon dioxide from industrial emitters to permanent offshore storage sites. This development requires highly specialized subsea infrastructure capable of handling the unique flow assurance challenges of supercritical CO₂, including phase behavior management and corrosion control. The commercial viability of this sector is rapidly materializing through large-scale joint ventures that

integrate capture, transport, and storage solutions. For example, the Northern Lights JV announced in September 2024 the completion of the world's first commercial CO₂ transport and storage service, featuring a 100-kilometer subsea pipeline designed to deliver liquefied CO₂ to a storage reservoir located 2,600 meters below the North Sea seabed.

Key Market Players

TechnipFMC Plc

Petrofac Limited

McDermott

Fugro

Saipem

Report Scope

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

Offshore Pipeline Market, By Product

Oil

Gas

Refined Product

Offshore Pipeline Market, By Basis of Line

Export Line

Transport Line

Offshore Pipeline Market, By Diameter

Below 24'

Greater than 24'

Offshore Pipeline Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Offshore Pipeline Market.

Available Customizations:

Global Offshore Pipeline Market report with the given market data, TechSci 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 five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL OFFSHORE PIPELINE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product (Oil, Gas, Refined Product)
 - 5.2.2. By Basis of Line (Export Line and Transport Line)
 - 5.2.3. By Diameter (Below 24' and Greater than 24')
 - 5.2.4. By Region

5.2.5. By Company (2025)

5.3. Market Map

6. NORTH AMERICA OFFSHORE PIPELINE MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product

6.2.2. By Basis of Line

6.2.3. By Diameter

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Offshore Pipeline Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product

6.3.1.2.2. By Basis of Line

6.3.1.2.3. By Diameter

6.3.2. Canada Offshore Pipeline Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product

6.3.2.2.2. By Basis of Line

6.3.2.2.3. By Diameter

6.3.3. Mexico Offshore Pipeline Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Product

6.3.3.2.2. By Basis of Line

6.3.3.2.3. By Diameter

7. EUROPE OFFSHORE PIPELINE MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product

7.2.2. By Basis of Line

7.2.3. By Diameter

7.2.4. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Offshore 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 Product

7.3.1.2.2. By Basis of Line

7.3.1.2.3. By Diameter

7.3.2. France Offshore 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 Product

7.3.2.2.2. By Basis of Line

7.3.2.2.3. By Diameter

7.3.3. United Kingdom Offshore 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 Product

7.3.3.2.2. By Basis of Line

7.3.3.2.3. By Diameter

7.3.4. Italy Offshore Pipeline Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Product

7.3.4.2.2. By Basis of Line

7.3.4.2.3. By Diameter

7.3.5. Spain Offshore Pipeline Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Product

7.3.5.2.2. By Basis of Line

7.3.5.2.3. By Diameter

8. ASIA PACIFIC OFFSHORE PIPELINE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product

8.2.2. By Basis of Line

8.2.3. By Diameter

8.2.4. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Offshore 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 Product

8.3.1.2.2. By Basis of Line

8.3.1.2.3. By Diameter

8.3.2. India Offshore 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 Product

8.3.2.2.2. By Basis of Line

8.3.2.2.3. By Diameter

8.3.3. Japan Offshore 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 Product

8.3.3.2.2. By Basis of Line

8.3.3.2.3. By Diameter

8.3.4. South Korea Offshore 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 Product

- 8.3.4.2.2. By Basis of Line
- 8.3.4.2.3. By Diameter
- 8.3.5. Australia Offshore 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 Product
 - 8.3.5.2.2. By Basis of Line
 - 8.3.5.2.3. By Diameter

9. MIDDLE EAST & AFRICA OFFSHORE PIPELINE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Basis of Line
 - 9.2.3. By Diameter
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Offshore 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 Product
 - 9.3.1.2.2. By Basis of Line
 - 9.3.1.2.3. By Diameter
 - 9.3.2. UAE Offshore 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 Product
 - 9.3.2.2.2. By Basis of Line
 - 9.3.2.2.3. By Diameter
 - 9.3.3. South Africa Offshore 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 Product

9.3.3.2.2. By Basis of Line

9.3.3.2.3. By Diameter

10. SOUTH AMERICA OFFSHORE PIPELINE MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product

10.2.2. By Basis of Line

10.2.3. By Diameter

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Offshore 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 Product

10.3.1.2.2. By Basis of Line

10.3.1.2.3. By Diameter

10.3.2. Colombia Offshore 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 Product

10.3.2.2.2. By Basis of Line

10.3.2.2.3. By Diameter

10.3.3. Argentina Offshore 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 Product

10.3.3.2.2. By Basis of Line

10.3.3.2.3. By Diameter

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL OFFSHORE PIPELINE MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. TechnipFMC Plc
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Petrofac Limited
- 15.3. McDermott
- 15.4. Fugro
- 15.5. Saipem

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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