

Global Pipeline Network Market Size Study & Forecast, by Type (Transmission Pipeline, Distribution Pipeline, Gathering Pipeline), Solution (Automation & Control, Security Solutions, Integrity & Tracking Solutions, Network Communication Solution, Others), Service (Maintenance & Support Services, Managed Services, Consulting Services) and Application (Oil & Gas, Water, Coal, Others) and Regional Forecasts 2025-2035

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Abstracts

The Global Pipeline Network Market is valued at approximately USD 21.69 billion in 2024 and is projected to expand at a CAGR of more than 5.43% over the forecast period 2025–2035. A pipeline network constitutes the backbone of global energy, utility, and industrial supply chains, serving as the most cost-efficient and reliable method of transporting crude oil, natural gas, water, and other resources over long distances. It enables seamless connectivity between production sites and consumption hubs, while supporting critical economic and industrial activities. The increasing energy demand, rapid urbanization, and heightened need for resilient water distribution systems are pivotal drivers propelling the market. Moreover, as governments and private operators invest heavily in infrastructure modernization and digitalization of pipeline systems, the industry finds itself positioned for sustained long-term growth.

The momentum behind the pipeline network market is significantly reinforced by the global surge in oil and gas production as well as the expansion of water distribution projects across emerging economies. These networks are critical for minimizing transportation losses, safeguarding supply security, and reducing operational costs for

energy and utility providers. According to the International Energy Agency, global energy demand is anticipated to grow steadily through the coming decade, particularly in Asia-Pacific, thereby intensifying the necessity for advanced pipeline infrastructures. At the same time, increased concerns around pipeline integrity, real-time monitoring, and cyber threats are fueling the adoption of automation, IoT-based tracking, and advanced security solutions. However, the industry is simultaneously navigating challenges from the accelerating adoption of renewable energy alternatives and environmental pressures related to pipeline leakages and land use.

The detailed segments and sub-segments included in the report are:

By Type:

Transmission Pipeline

Distribution Pipeline

Gathering Pipeline

By Solution:

Automation & Control

Security Solutions

Integrity & Tracking Solutions

Network Communication Solution

Others

By Service:

Maintenance & Support Services

Managed Services

Consulting Services

By Application:

Oil & Gas

Water

Coal

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Transmission pipelines are anticipated to dominate the market share over the forecast horizon, accounting for the largest portion of global revenues. This dominance stems from their critical role in transporting crude oil, natural gas, and refined products across vast geographies, ensuring uninterrupted supply to refineries, industrial complexes, and power plants. With the expansion of cross-border pipeline projects, coupled with growing investments in long-haul infrastructure to support burgeoning demand from industrialized and developing nations alike, transmission pipelines remain the undisputed foundation of the sector. Although distribution and gathering networks are

experiencing noteworthy expansion, transmission lines will continue to hold primacy in shaping the market landscape.

From a revenue perspective, automation & control solutions currently command the largest share of the global pipeline network market. Operators are increasingly deploying SCADA systems, IoT-based sensors, and AI-driven platforms to enhance visibility, detect anomalies, and optimize network efficiency. These solutions not only mitigate operational risks but also significantly lower costs associated with maintenance and downtime. On the other hand, integrity and tracking solutions are projected to emerge as the fastest-growing segment, spurred by rising safety regulations, stricter compliance requirements, and heightened awareness of environmental risks tied to pipeline leaks and failures. This duality underlines the shift toward intelligent, digitally enabled, and compliance-driven pipeline operations.

The regional outlook of the pipeline network market highlights distinct dynamics across geographies. North America, underpinned by extensive shale gas reserves, mature infrastructure, and advanced technological deployment, is set to maintain market leadership in 2025. The region's robust regulatory environment, coupled with continuous investments in pipeline modernization, ensures operational reliability and safety. In contrast, Asia Pacific is forecasted to emerge as the fastest-growing market, driven by escalating energy consumption in China and India, rapid industrialization, and government-led water distribution projects. Europe continues to emphasize energy transition and decarbonization efforts, encouraging investments in efficient network monitoring solutions. Meanwhile, the Middle East and Africa are leveraging vast hydrocarbon reserves and infrastructure expansion projects to strengthen their pipeline ecosystems, thereby presenting substantial opportunities for global market participants.

Major market players included in this report are:

Kinder Morgan Inc.

Enbridge Inc.

TC Energy Corporation

Williams Companies Inc.

Gazprom PJSC

China National Petroleum Corporation (CNPC)

Tenaris S.A.

Saipem S.p.A.

Pembina Pipeline Corporation

Baker Hughes Company

ABB Ltd.

Schneider Electric SE

Emerson Electric Co.

Honeywell International Inc.

TechnipFMC plc

Global Pipeline Network Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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