

Pipeline Safety Market Set for Robust Expansion: \$10.57B in 2024 to \$25.48B by 2034 at 9.2% CAGR

The global pipeline safety market was valued at approximately USD 10.57 billion in 2024 and is expected to reach around USD 25.48 billion by 2034

PUNE, MAHARASHTRA, INDIA, August 8, 2025 /EINPresswire.com/ --  Market Overview

The [global pipeline safety market](#) is witnessing robust growth, fueled by the rising need for secure and efficient energy transportation infrastructure,

increasing oil and gas demand, and growing concerns over pipeline sabotage, leaks, and operational failures. Valued at USD 10.57 billion in 2024, the market is projected to reach USD 25.48 billion by 2034, expanding at a compound annual growth rate (CAGR) of 9.20% between 2025 and 2034.

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The global pipeline safety market was valued at approximately USD 10.57 billion in 2024 and is expected to reach around USD 25.48 billion by 2034, (CAGR) of roughly 9.20% between 2025 and 2034.”

Deepak Rupnar

Middle East & Africa: ~8.6%

Pipeline networks form the backbone of the global energy supply chain, carrying crude oil, natural gas, refined products, and water over vast distances. However, these assets face significant challenges, including corrosion, aging infrastructure, operational malfunctions, and



Pipeline Safety Market

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 Regional Market Share Forecast (2034)

North America: ~36.8%

Asia-Pacific: ~28.5%

Europe: ~17.6%

Latin America: ~8.5%

security threats such as cyberattacks and terrorism. The adoption of advanced pipeline monitoring, leak detection, and intrusion prevention technologies is critical for ensuring operational safety and environmental compliance.

Key Insights:

As per the analysis shared by our research analyst, the global pipeline safety market is estimated to grow annually at a CAGR of around 9.20% over the forecast period (2025-2034). In terms of revenue, the global pipeline safety market size was valued at around USD 10.57 billion in 2024 and is projected to reach USD 25.48 billion by 2034.

The pipeline safety market is projected to grow significantly due to rising investments in smart pipeline technologies, increasing adoption of IoT-based monitoring systems, and the expansion of oil and gas transmission networks in developing regions.

Based on solution type, leak detection systems lead the segment and will continue to dominate the global market.

Based on the application, oil and gas pipelines are expected to lead the market.

Based on the technology, SCADA systems are anticipated to command the largest market share.

Based on end-users, oil and gas companies are expected to lead the market during the forecast period.

Based on region, North America is projected to lead the global market during the forecast period.

□ Key Growth Drivers

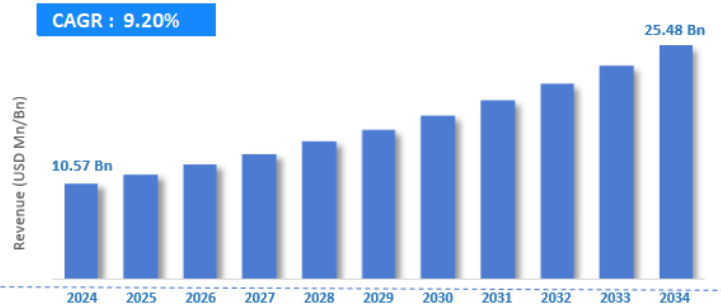
Rising Energy Demand & Pipeline Expansion

Global energy consumption continues to rise, prompting significant investments in new oil and gas pipelines, particularly in North America, Asia-Pacific, and the Middle East.

Expanding pipeline networks increases the need for advanced safety and monitoring solutions.

Environmental Protection Regulations

Global Pipeline Safety Market, 2020-2034 (USD Billion)



Source: Zion Market Research

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Market Research

Pipeline Safety Market Size

THE GLOBAL PIPELINE SAFETY MARKET IS LED BY PLAYERS LIKE:



Pipeline Safety Market Competitive Analysis

Governments are enforcing stricter environmental protection laws, requiring energy companies to adopt advanced leak detection and monitoring technologies.

Failure to comply with regulations can result in heavy penalties, pushing adoption of safety systems.

Cybersecurity in Pipeline Operations

Increasing digitization of pipeline control systems (SCADA) exposes them to cyber threats.

Companies are integrating advanced cybersecurity solutions to prevent data breaches and operational disruptions.

Aging Infrastructure & Modernization Needs

Many existing pipelines are decades old, requiring retrofitting with modern safety systems.

Preventive maintenance is increasingly prioritized to avoid costly accidents and downtime.

Technological Innovations

AI-powered monitoring, IoT sensors, drones, and real-time analytics are transforming pipeline safety management.

Automation is reducing human error and enabling faster response times to potential threats.

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□ Market Trends

Adoption of AI & Predictive Analytics: AI-based solutions can detect anomalies and predict potential pipeline failures before they occur.

Integration of Drones & Robotics: Drones provide rapid visual inspections over large distances, reducing inspection costs.

IoT-Enabled Remote Monitoring: Sensors continuously transmit operational data for real-time monitoring and quick incident response.

Shift Toward Cloud-Based Solutions: Cloud platforms allow centralized monitoring of global pipeline networks.

Growing Focus on Carbon Capture Pipelines: Safety systems are being adapted for pipelines carrying captured CO₂ to storage facilities.

□ Market Segmentation

By Technology

Perimeter Security (fencing, intrusion detection systems)

Leak Detection Systems (fiber optics, acoustic sensors)

SCADA & Monitoring Solutions

Pipeline Integrity Management

Cybersecurity Solutions

By End-User

Oil & Gas (crude, refined products)

Water & Wastewater

Chemical Transport
Other Industrial Pipelines

□ Regional Market Insights

1. North America – Largest Market

Strong presence of extensive oil and gas pipeline networks in the US and Canada.

Heavy investments in upgrading aging infrastructure.

Adoption of AI-powered safety systems and cybersecurity solutions.

2. Europe – Regulatory-Driven Growth

Strict EU environmental regulations and energy transition policies.

Growth in natural gas and hydrogen pipelines.

Focus on renewable energy-related pipeline infrastructure.

3. Asia-Pacific (APAC) – Fastest Growing Region

Massive pipeline projects in China, India, and Southeast Asia to meet energy demands.

Increasing investment in offshore and cross-border pipelines.

Government funding for smart monitoring solutions.

4. Latin America – Emerging Opportunities

Expanding oil and gas exploration in Brazil, Argentina, and Mexico.

Rising awareness of environmental protection in pipeline operations.

Deployment of modern leak detection systems.

5. Middle East & Africa (MEA) – Strategic Pipeline Investments

MEA nations heavily investing in new crude oil and natural gas pipelines for exports.

Focus on pipeline security in politically unstable regions.

Adoption of advanced perimeter security and surveillance systems.

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□ Competitive Landscape

The global pipeline safety market is highly competitive, with key players focusing on strategic partnerships, mergers & acquisitions, and technological advancements to gain market share.

Leading companies are offering integrated safety solutions combining hardware (sensors, alarms) with software (monitoring platforms, analytics).

The global pipeline safety market is led by players like:

Honeywell International Inc.

Siemens AG

Emerson Electric Co.

ABB Ltd.

Schneider Electric SE
General Electric Company
Baker Hughes Company
Halliburton Company
Schlumberger Limited
Krohne Group
Pentair plc
Atmos International
Pure Technologies Ltd.
PSI Software AG
Orbcomm Inc.
TransCanada Corporation
Enbridge Inc.
Kinder Morgan Inc.
Enterprise Products Partners
TC Energy Corporation

□ Future Outlook (2025–2034)

The pipeline safety market will continue to grow as the global energy industry transitions toward cleaner fuels while still relying heavily on oil and gas transport infrastructure. The increasing complexity of pipeline systems, combined with heightened environmental and cybersecurity risks, will drive investment in integrated safety solutions.

By 2034, advancements in IoT, AI, and drone-based inspections are expected to revolutionize pipeline monitoring, making real-time threat detection the industry standard. Governments and private sector operators will increasingly collaborate to ensure the resilience of vital energy transport systems.

□ Key Takeaways

Market Size 2024: USD 10.57 billion
Market Size 2034: USD 25.48 billion
CAGR (2025–2034): 9.20%
Fastest Growing Region: Asia-Pacific (APAC)

Top Growth Driver: Expansion of pipeline networks and rising need for real-time monitoring solutions.

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Deepak Rupnar
Zion Market Research
+1 855-465-4651

richard@zionmarketresearch.com

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