

Corrosion Under Insulation Monitoring Market Size Worth US\$ 475.2 Million by 2035 at a CAGR Of 13% | Fact.MR

Rising demand for asset integrity and predictive maintenance fuels growth in the global corrosion under insulation (CUI) monitoring market.

ROCKVILLE, MD, UNITED STATES, June 26, 2025 /EINPresswire.com/ -- The global [Corrosion Under Insulation \(CUI\) Monitoring Market](#) is projected to grow from USD 122.5 million in 2024 to USD 475.2 million by 2035, registering a CAGR of 13.0% during the forecast period.



Rising emphasis on asset integrity management and predictive maintenance is fueling the demand for advanced CUI detection technologies. Industries are increasingly investing in monitoring systems to reduce unplanned downtime, improve operational efficiency, and prolong equipment lifespan in critical infrastructure and processing environments.

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What are the drivers of the Corrosion Under Insulation (CUI) Monitoring Market?

The growing need to extend asset lifespan and maintain structural integrity is a key driver of the CUI monitoring market. Aging infrastructure in industries like oil & gas, petrochemicals, power, and marine faces heightened risk from hidden corrosion, prompting companies to invest in real-time monitoring systems to prevent costly downtime, repairs, and safety hazards.

Regulatory compliance is another major factor. Strict safety and maintenance standards from organizations such as OSHA and NACE are pushing industries to adopt continuous monitoring technologies. As a result, there's rising demand for advanced CUI detection tools, including ultrasonic sensors, infrared thermography, and wireless monitoring systems, which offer early

detection and support proactive maintenance strategies.

What are the regional trends of the Corrosion Under Insulation (CUI) Monitoring Market?

North America leads the global CUI monitoring market, driven by a large number of aging pipelines, refineries, and chemical plants. The U.S. has seen a significant uptick in the use of sensor-based and IoT-enabled CUI monitoring solutions, spurred by strict regulatory standards and a strong emphasis on preventive maintenance to avoid costly failures.

In Europe, countries like Germany, Norway, and the United Kingdom are prioritizing the monitoring of offshore oil platforms and nuclear facilities, where CUI can pose critical safety and operational risks. Additionally, the European Green Deal is influencing infrastructure investment decisions, pushing companies to adopt sustainable and low-maintenance solutions, including advanced CUI monitoring systems, to align with environmental and safety goals.

What are the challenges and restraining factors of the Corrosion Under Insulation (CUI) Monitoring Market?

One of the major challenges facing the CUI monitoring market is the high cost of installation and upgrades. Implementing advanced monitoring systems often requires significant capital investment, especially for older facilities that may need equipment modifications or temporary shutdowns, making the process complex and costly.

Another key restraint is the lack of standardized protocols and skilled labor. The absence of uniform tools and inconsistent maintenance practices across industries can delay adoption. Moreover, the shortage of trained personnel who can accurately interpret sensor data and develop effective preventive maintenance strategies limits the full utilization of CUI technologies. This gap between technology availability and workforce readiness poses a barrier to wider implementation.

Competitive Analysis

As industries such as oil & gas, petrochemicals, and power generation increasingly prioritize asset integrity and safety, the demand for advanced inspection technologies is rising. Market players are differentiating themselves by integrating non-destructive testing (NDT), real-time data analytics, and IoT-enabled monitoring tools into their solutions. Proprietary sensor technologies, asset management software, and industrial IoT integration are key areas of innovation, with cost-efficiency, accuracy, and scalability becoming decisive factors for end-users.

Adoption of remote and automated monitoring systems allows facilities to reduce manual inspections and unplanned equipment downtime. Companies leveraging machine learning for anomaly detection and offering multi-sensor platforms are gaining traction, particularly in

complex and high-risk environments.

Collaborations with EPC contractors and the use of digital twin technology are also becoming common strategies to enhance service value. To remain competitive, providers must deliver fast, accurate CUI detection and actionable insights that help clients extend asset lifespan and reduce maintenance costs.

Key players in the CUI monitoring market include 3-Sci Limited, Kaefer Group, MISTRAS Group, Cosasco, MAXWELL NDT, Akzo Nobel N.V., Alabama Specialty Products Inc., Eddyfi Technologies, iSensPro, QSA Global Inc., among others.

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Segmentation of Corrosion under Insulation Monitoring Market

By Component :

Hardware

Software

Services

By Function :

Oil & Gas

Marine

Chemical & Petrochemical

Energy & Power

Food Processing

Others

By Monitoring Technique :

Ultrasonic Testing (UT)

Radiographic Testing (RT)

Infrared Thermography

Eddy Current Testing

Fiber Optic Sensors

By Region :

North America

Latin America

Western Europe

Eastern Europe

East Asia

South Asia & Pacific

Middle East & Africa

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