

# **Continuous Emission Monitoring Systems Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Product (Gas, Analyzers, Sample Probes, Data Acquisition Systems), By Technology, By End-use, By Region, And Segment Forecasts, 2026 - 2033**

<https://marketpublishers.com/r/CDE219C9D8E8EN.html>

Date: August 2026

Pages: 150

Price: US\$ 4,950.00 (Single User License)

ID: CDE219C9D8E8EN

## **Abstracts**

The global continuous emission monitoring systems market size was valued at USD 4.0 billion in 2025 and is projected to grow from USD 4.4 billion in 2026 to USD 9.2 billion by 2033, at a CAGR of 11.1% from 2026 to 2033. North America dominated the market, accounting for the largest revenue share of 35.2% in 2025. The market is driven by stringent environmental emission regulations, increasing adoption of continuous emission monitoring systems (CEMS) across power generation and industrial facilities, rising demand for real-time emissions monitoring and predictive maintenance solutions, and growing integration of IoT-enabled and AI-powered industrial emissions monitoring technologies.

The continuous emission monitoring systems (CEMS) industry is experiencing robust growth, driven by the widespread adoption of real-time and intelligent monitoring technologies in industrial settings. Organizations are implementing advanced sensors, cloud-based platforms, and analytics powered by artificial intelligence to enhance emissions tracking accuracy and operational efficiency. Recent product introductions emphasizing intelligent air quality and particle monitoring are expediting the shift toward digital environmental monitoring infrastructure. In addition, companies are utilizing remote monitoring capabilities to enable predictive maintenance and minimize system downtime. These developments are increasing demand for advanced CEMS platforms that provide continuous, automated, and data-driven environmental insights.

The growing emphasis on reducing methane emissions is creating significant growth opportunities for continuous emission monitoring systems in the oil and gas sector. Organizations are investing in advanced methane detection technologies that integrate Internet of Things (IoT) connectivity, remote sensing, and continuous surveillance. Recent acquisitions and strategic partnerships in the emissions monitoring industry are fostering innovation in methane-monitoring applications. Energy companies are implementing advanced monitoring solutions to achieve decarbonization objectives and enhance environmental performance across upstream and midstream operations. This trend is anticipated to accelerate the adoption of specialized CEMS technologies for greenhouse gas monitoring and leak detection.

Industrial sustainability initiatives and global decarbonization targets are substantially increasing demand for continuous emission monitoring systems worldwide. Organizations are investing in advanced emissions-monitoring technologies to meet Environmental, Social, and Governance (ESG) commitments and carbon-reduction objectives. Sectors such as power generation, cement, chemicals, mining, and waste management are modernizing monitoring infrastructure to enhance environmental performance. The expansion of retrofit installations and system upgrades is further driving market growth in both developed and emerging economies. This trend is projected to create long-term growth opportunities for CEMS providers as industries maintain a focus on sustainable, environmentally responsible operations.

## **Global Continuous Emission Monitoring Systems Market Report Segmentation**

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global continuous emission monitoring systems market report based on component, product, technology, end use, and region:

Component Outlook (Revenue, USD Billion, 2021 - 2033)

Hardware

Software

Services

Product Outlook (Revenue, USD Billion, 2021 - 2033)

Gas Analyzers

Sample Probes

Data Acquisition Systems

Software Solutions

Others

Technology Outlook (Revenue, USD Billion, 2021 - 2033)

Extractive CEMS

Dilution Extractive CEMS

In-Situ CEMS

Others

End Use Outlook (Revenue, USD Billion, 2021 - 2033)

Power Generation

Oil & Gas

Chemicals & Petrochemicals

Manufacturing

Cement

Others

## Regional Outlook (Revenue, USD Billion, 2021 - 2033)

### North America

U.S.

Canada

Mexico

### Europe

UK

Germany

France

### Asia Pacific

China

Japan

India

South Korea

Australia

### Latin America

Brazil

### Middle East and Africa (MEA)

KSA

UAE

## South Africa

**This report can be delivered to the clients within 4 Business Days**

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