

Environmental Monitoring Market Size, Share & Trends Analysis Report By Product, By Sampling Method (Active, Continuous, Intermittent), By Component, By Application, By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Environmental Monitoring Market Growth & Trends

The global environmental monitoring market size is expected to reach USD 20.1 billion by 2030, registering growth at a CAGR of 5.7% from 2025 to 2030 according to a new report by Grand View Research, Inc. Growing rate of pollution levels, supportive regulatory and political scenario, and increasing awareness regarding pollution monitoring is anticipated to drive the market through 2025. Furthermore, adoption and implementation of environment-friendly practices in industrial operations is expected to play a pivotal role in the deployment of environmental monitoring systems worldwide.

Rise in funding for environmental monitoring and pollution control initiatives by multilateral bodies and government institutions is also a key market driver. The Green Climate Fund (GCF) is one such financial initiative under the United Nations Framework Convention on Climate Change (UNFCCC) to assist developing countries in adoption, adaptation, and mitigation initiatives to counter climate change. GCF has pledged to set up a goal of raising \$100 billion a year by 2020. Multilateral and institutional funding on similar lines is likely to promote the market for environmental monitoring systems.

In terms of connectivity and communication technology, there has been significant development in cellular and non-cellular communications such as Bluetooth, ZigBee,

and NB-IoTs, which has enabled users to deploy their systems indoor as well as at remote locations. Moreover, emerging technologies such as Artificial Intelligence (AI), Machine Learning (ML), and big data analytics is expected to prove beneficial in the deployment of environmental sensors to achieve consistency, accuracy, and efficiency.

Use of AI in Early Warning Systems (EWS) to identify the onset of critical situations has been implemented and proved efficient in the UrbanFlood Project. The project was funded under EU's 7th Framework Programme in 2009 to investigate the use of sensors within flood embankments to support EWS. The future prospects of environmental monitoring seem to be promising with technological advancements leading to the creation of intelligent or smart environmental monitoring systems.

North America dominated the market in 2018 owing to stringent and well-established pollution control laws and regulations by the U.S. Environmental Protection Agency (EPA) and Canada's Canadian Environmental Assessment Agency (CEAA). Asia Pacific, on the other hand, is expected to emerge as the fastest-growing regional market owing to increasing focus of countries such as India and China to curb pollution proactively. 'China's National Clean Air Action Plan' and India's similar initiative 'National Clean Air Mission' are notable initiatives, which is likely to boost the market.

Environmental Monitoring Market Report Highlights

The monitors segment dominated the global industry for environmental monitoring, with a revenue share of 31.4% in 2024. The emergence of next-generation products such as water-resistant, dustproof, data-logging sensors equipped with wireless technology has influenced the growth of this segment.

Based on sampling method, the continuous monitoring segment held the largest revenue share of the global industry owing to features associated with it, such as real-time data analysis and insights sharing, assurance of effective compliance adherence, use of advanced technology for enhanced outcomes, and focus of multiple organizations on enhancing facility comfort by adopting continuous monitoring technologies.

Particulate matter entails liquid droplets and microscopic solids, which might cause problems if inhaled. This poses greater safety concerns and a need for environmental monitoring in numerous industries, such as energy and power, construction, manufacturing, forestry, food processing, paints and coatings, fashion and textile, chemicals, transport, etc.

Based on application, the air pollution segment dominated the global environmental monitoring industry in 2024. In recent years, air pollution has become one of the key challenges worldwide due to the increasing number of motor vehicles, household combustion devices, industrial wastes, and growing incidents of forest fires worldwide.

Based on end-use, corporate segment held the largest revenue share of the global environmental monitoring market in 2024. Stringent regulatory compliance requirements, indoor air quality management, employee well-being, and operational efficiencies are some of the key growth drivers for this segment.

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