

Environmental Monitoring Market Report by Component (Particulate Detection, Chemical Detection, Biological Detection, Temperature Sensing, Moisture Detection, Noise Measurement), Product Type (Environmental Monitoring Sensors, Environmental Monitors, Environmental Monitoring Software, Wearable Environmental Monitors), Sampling Method (Continuous Monitoring, Active Monitoring, Passive Monitoring, Intermittent Monitoring), Application (Air Pollution Monitoring, Water Pollution Monitoring, Soil Pollution Monitoring, Noise Pollution Monitoring), and Region 2024-2032

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Abstracts

The global environmental monitoring market size reached US\$ 21.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 38.8 Billion by 2032, exhibiting a growth rate (CAGR) of 6.4% during 2024-2032. The rising global awareness about environmental issues, significant technological advancements in monitoring equipment, the growing demand for sustainable resource management, increasing stringent government regulations for pollution control, and the rising efficient use of natural sources are some of the major factors propelling the growth of the market.

Environmental Monitoring Market Analysis:

Major Market Drivers: The growing awareness of ecological issues, strict

environmental regulations, and significant advances in technology for monitoring and analytics represent some of the major drivers of the market across the globe. Rapid urbanization and industrialization contribute to environmental degradation which is boosting the demand for effective monitoring solutions.

Key Market Trends: The increasing integration of IoT and AI for real-time data analysis, the rising shift towards miniature and portable sensors for versatile field applications, and the widespread adoption of wireless and remote technologies represent some of the key trends of the market across the globe.

Geographical Trends: North America accounts for the largest region in the environmental monitoring market growth. Strict environmental regulations, significant advanced technological infrastructure, and increasing awareness about environmental issues are driving the market demand across the region. Proactive environmental policies enforcing strict compliance across industries are propelling the need for monitoring solutions, especially in the US and Canada.

Competitive Landscape: Some of the major market players in the environmental monitoring industry include 3M Company, Agilent Technologies Inc., Danaher Corporation, Emerson Electric Co., General Electric, Honeywell International Inc., Horiba Ltd., Merck KGaA, Siemens AG, TE Connectivity, Teledyne Technologies Incorporated, Thermo Fisher Scientific Inc., among many others.

Challenges and Opportunities: The market faces various challenges including the high cost of advanced monitoring technologies, complexities in data management and interpretation, and lack of infrastructure in developing regions. However, the market also faces several opportunities such as the increasing global environmental concerns driving the demand for monitoring solutions and technological advancements.

Environmental Monitoring Market Trends:

Growing Regulatory Policies and Requirements

The rising strict government regulations regarding environmental protection and pollution control mandate the monitoring of water, soil, air, and other environmental

elements. These regulations ensure industries comply with environmental standards, thereby preventing and minimizing pollution. For instance, the World Bank program is introducing tools for airshed management and planning to support state and regional air quality management approaches. These efforts aim to facilitate the creation of India's inaugural State-wide Air Quality Action Plans and the first extensive Regional Airship Action Plan for the Indo-Gangetic Plains (IGP), covering seven union territories and states. A study by the World Bank and International Institute for Applied Systems Analysis (IIASA) shows that focusing on air pollution through a clean air pathway out to 2030 could bring about significant climate change co-benefits for India. Such a pathway, for example, will reduce India's CO₂ emissions by 23% by 2030 and 42% by 2040-50. This is further influencing the environmental monitoring market statistics significantly.

Significant Advances in Technology

The increasing innovations in technology, such as the development of artificial intelligence (AI), Internet of Things (IoT), and remote sensing technologies are significantly enhancing the effectiveness and efficiency of environmental monitoring. These technologies enable real-time data collection and analysis, improving the accuracy and timeliness of environmental assessments. For instance, in October 2022, Agilent Technologies Inc. announced the release of its enhanced 8700 LDIR Chemical Imaging System, which has been further optimized for the analysis of microplastics in environmental samples. The newly improved package includes Clarity 1.5 software, a significant upgrade that advances the speed of analysis, enhances spectral acquisition, transformation, and library matching, and provides automated workflows for direct analysis of microplastics on a filter substrate. An innovative, redesigned sample holder allows the on-filter sample to be presented to the instrument more easily and consistently. This is expected to fuel the environmental monitoring market revenue.

Rising Environmental Concerns and Public Awareness

The increasing public awareness about environmental issues including climate change, water and air quality, and biodiversity loss is driving the demand for environmental monitoring. This awareness influences government policies and corporate practices which is leading to greater investment in environmental monitoring infrastructure and technologies. For instance, in November 2022, 3M and the US Environmental Protection Agency (EPA) agreed on plans to address per- and polyfluoroalkyl substances (PFAS) in the Cordova region. Through the agreement, 3M will build on its work address past PFAS manufacturing in the area and install new and innovative technologies at its Cordova site that will enhance the quality of water used in its

operations.

Environmental Monitoring Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on component, product type, sampling method, and application.

Breakup by Component:

Particulate Detection

Chemical Detection

Biological Detection

Temperature Sensing

Moisture Detection

Noise Measurement

Particulate detection accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the component. This includes particulate detection, chemical detection, biological detection, temperature sensing, moisture detection, and noise measurement. According to the report, particulate detection represented the largest segment.

The demand for particulate detection components in the market is driven by the growing health concerns related to air quality and the associated risks of respiratory diseases. Strict regulatory standards for air pollution control necessitate precise monitoring of particulate matter. Industrialization and urbanization escalate air quality degradation, boosting the need for effective monitoring solutions. For instance, according to the Central Pollution Control Board (CPCB) report submitted to the National Green Tribunal on March 20, the central pollution control body has disbursed only rupees 156.33 of the total rupees 777.69 crore collected under the two heads- environmental Protection

charge (EPC) and environmental compensation (EC).

Breakup by Product Type:

Environmental Monitoring Sensors

Environmental Monitors

Environmental Monitoring Software

Wearable Environmental Monitors

Environmental monitors holds the largest share of the industry

A detailed breakup and analysis of the market based on the product type have also been provided in the report. This includes environmental monitoring sensors, environmental monitors, environmental monitoring software, and wearable environmental monitors. According to the report, environmental monitors accounted for the largest market share.

The demand for environmental monitors in the market is influenced by factors like the rising global environmental regulations, public awareness of health impacts related to pollution and advancements in technology. Industrialization and urbanization contribute to environmental degradation, escalating the need for comprehensive monitoring tools. The integration of IoT and big data analytics enhances the functionality and appeal of environmental monitoring products, facilitating real-time data collection and more accurate environmental assessment which is further boosting the environmental monitoring market demand across the globe.

Breakup by Sampling Method:

Continuous Monitoring

Active Monitoring

Passive Monitoring

Intermittent Monitoring

Continuous monitoring represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the sampling method. This includes continuous monitoring, active monitoring, passive monitoring, and intermittent monitoring. According to the report, continuous monitoring represented the largest segment.

The demand for continuous monitoring sampling methods in the market is major influenced by the demand for real-time data collection and analysis to swiftly detect and respond to environmental hazards. Continuous monitoring allows for the ongoing assessments of water, air, and soil quality, crucial for compliance with shrink environmental regulations. The rising industrial activity necessitates constant surveillance to ensure operational safety and Environmental Protection. Significant advancements in sensor technology and IoT integration enable more reliable and efficient continuous monitoring systems.

Breakup by Application:

Air Pollution Monitoring

Water Pollution Monitoring

Soil Pollution Monitoring

Noise Pollution Monitoring

Air pollution monitoring exhibits a clear dominance in the market

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes air pollution monitoring, water pollution monitoring, soil pollution monitoring, and noise pollution monitoring. According to the report, air pollution monitoring accounted for the largest market share.

The role of air pollution monitoring applications in the market is fueled by various factors including increasing awareness of air quality issues and their impact on health and the environment which necessitates robust monitoring solutions. Strict regulatory standards

for air quality around the world require effective enforcement tools, thus making air pollution monitoring essential. Significant technological advancements are enhancing the precision and efficiency of monitoring devices which is supporting more comprehensive air quality management. The growing urban population and increased industrial activity contribute to air pollution, raising the demand for continuous and accurate air quality assessment to guide policy-making and health advisories.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America leads the market, accounting for the largest environmental monitoring market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America represents the largest regional market for environmental monitoring.

The increasing public awareness about environmental issues, strict environmental regulations, and significant advanced technological infrastructure are driving the growth of the market across the region. Technological innovations in IoT and remote sensing are enabling more precise and real-time environmental data collection. Initiatives to combat climate change and improve air and water quality further stimulate investment and development in the environmental monitoring sector in this region. For instance, in April 2024, the BAE System's Weather System Follow-on-Microwave (WSF-M) satellite successfully launched from Vandenberg Space Force Base in California. The US Space Forces Space Systems Command's next-generation operational environmental satellite system will provide valuable data to help ensure the safety and success of warfighters

as they carry out their missions around the world.

Competitive Landscape:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major market players in the environmental monitoring industry include 3M Company, Agilent Technologies Inc., Danaher Corporation, Emerson Electric Co., General Electric, Honeywell International Inc., Horiba Ltd., Merck KGaA, Siemens AG, TE Connectivity, Teledyne Technologies Incorporated and Thermo Fisher Scientific Inc.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

The competitive landscape of the market represents a dynamic and shows a mix of emerging contenders and established players. Key players include major technology and industrial firms that specialize in analytical and monitoring equipment along with software solutions for data management and analysis. These companies compete on technological innovations, accuracy, reliability, and integration capabilities of their systems. Acquisitions and partnerships are common strategies to expand product offerings and geographic reach. For instances, in February 2024, Danaher Corporation announced that it has committed to set science-based greenhouse gas (GHG) emission reduction targets in line with the Science Based Targets initiative (SBTi), including a long-term target to reach net zero value chain emissions by no later than 2050.

Environmental Monitoring Market News:

In February 2022, Agilent Technologies acquired Virtual Control's ACIES advanced artificial intelligence (AI) technology, which has been developed for innovative analysis solutions in lab testing.

In April 2023, GE announced new options for further emission reduction technologies that are now available for its LM25000XPRESS aeroderivates gas turbine fleet worldwide following the successful installation of the gas turbine in Colorado. This announcement comes on the heels of GE's announcement of

the world's first technical solution on four TM2500 aeroderivative gas turbines deployed at the Department of Water Resources' (DWR) sites in Yuba City and Roseville to reduce nitrogen oxide (NOx) and carbon monoxide (CO) emissions by over 90%, surpassing World Bank Emissions Standard.

In February 2023, Emerson combined its comprehensive power expertise and renewable energy capabilities into the Ovation Green portfolio to help power generation companies meet the needs of customers navigating the transition to green energy generation and storage. By uniting the recently acquired Mita-Teknik software and technology with its own industry-leading Ovation automation platform, deep renewable energy knowledge base, cybersecurity solution, and remote management capability, Emerson has created a new extension of its power-based control architecture.

Key Questions Answered in This Report

1. How big is the global environmental monitoring market?
2. What is the expected growth rate of the global environmental monitoring market during 2024-2032?
3. What are the key factors driving the global environmental monitoring market?
4. What has been the impact of COVID-19 on the global environmental monitoring market?
5. What is the breakup of the global environmental monitoring market based on the component?
6. What is the breakup of the global environmental monitoring market based on the product type?
7. What is the breakup of the global environmental monitoring market based on the sampling method?
8. What is the breakup of the global environmental monitoring market based on the application?

9. What are the key regions in the global environmental monitoring market?

10. Who are the key players/companies in the global environmental monitoring market?

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