MEA Air Quality Monitoring - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 110 pages | Mordor Intelligence

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Report description:

The MEA Air Quality Monitoring Market is expected to register a CAGR of greater than 3.5% during the forecast period.

Over the medium period, increasing industrialization and urbanization are leading to a deterioration in air quality, driving the demand for air quality monitoring and purification, especially in developing countries.

On the other hand, the penetration of renewable and greener energy to support the government's net zero carbon emission policy is expected to hinder the market in the forecast period.

The technological advancements in air quality monitoring systems create enormous opportunities for the techno-development of devices and their applications.

Saudi Arabia is expected to dominate the Middle East and Africa Air Quality Monitoring market as the country holds the majority share in primary energy consumption.

MEA Air Quality Monitoring Market Trends

The Outdoor Monitor Segment is Expected to be the Fastest growing Segment

The outdoor air quality monitoring systems measure the concentration levels of pollutants, suspended particles, humidity, and temperature outside air, i.e., in open spaces. They detect the levels of pollutants like CO2, O3, NO2, SO2, formaldehyde (HCHO), total volatile organic compounds (TVOC), etc.

Chad had an average PM2.5 concentration of 75.9 micrograms per cubic meter of air (□g/m3) in 2021, making it one of the most polluted countries in the world. This was almost 40 □g/m3 more than the average PM2.5 concentrations in the United Arab Emirates.

Air quality monitoring systems are majorly deployed by governments in cities and public spaces of a particular state or country. These devices are weather-resistant and must meet certain environmental tests and simulations to be confided by some building certifications.

The outdoor monitors are further segmented into portable outdoor monitors, fixed outdoor monitors, dust and particulate monitors, and AQM stations. Portable outdoor monitors are the most widely deployed globally due to their operational advantage and easy deployment.

With the increasing urbanization and more people moving to urban areas, the air pollution levels in urban areas have increased. It is estimated that by 2050, 2.5 billion more people will live in urban areas. The high population density and diverse pollution sources like industrial facilities, municipal waste generation, and transport congestion lead to an urge for better air quality monitoring and address systems.

In May 2023, The United Arab Emirates' Ministry of Climate Change and Environment (MOCCAE) updated the classification of 64 air quality monitoring stations as part of the Year of Sustainability initiative to promote community health and welfare. According to the ministry's directive issued in 2022, this reclassification was mandatory to maintain the highest environmental and climate protection standards.

Therefore, such developments are expected to give a thrust to the outdoor monitor segment of the market during the forecast period.

Saudi Arabia to dominate the market.

Saudi Arabia has the majority of the production and consumption of oil and gas in the Middle East and Africa region, particularly due to growing industrialization, which has increased chemical pollutants, thereby driving the air quality monitoring market in the forecast period.

Moreover, the power generation sector is the biggest consumer of air quality monitoring systems. The power production sector is increasingly switching from coal-fired power plants to gas-fired power plants and renewable power generation due to the problems associated with climate change.

In 2021, Saudi Arabia accounted for 28.6% of the total primary energy consumed across the Middle East, with 10.82 exajoules. Fossil fuels, such as oil, natural gas, and coal, accounted for a significant share of the total primary energy consumed in the region in 2021.

The number of monitors in the Middle East region climbed by 86% in 2021, mostly due to a significant increase in the number of monitors in Saudi Arabia and Israel, whose monitors comprised 73% of all in the region.

Therefore, owing to the above points, Saudi Arabia is expected to witness significant growth during the forecast period.

MEA Air Quality Monitoring Industry Overview

The Middle East and Africa Air Quality Monitoring Market is fragmented. Some of the major players (not in the particular order) include Siemens AG, Thermo Fisher Scientific Inc., Horiba Ltd, Emerson Electric Co., and Honeywell International Inc., among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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