Southeast Asia 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 Southeast Asia Air Quality Monitoring Market size is estimated at USD 276.51 million in 2025, and is expected to reach USD 435.29 million by 2030, at a CAGR of 9.5% during the forecast period (2025-2030).

Key Highlights
- 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. For instance, the recent IoT-based equipment, which is more interactive in its functioning and uses new technologies for communicating and delivering data, is in vogue these days. They are termed the Next Generation Air Quality Monitoring Systems, becoming the research subject for many R&D professionals in the area.
- Indonesia is expected to dominate the Southeast Asia air quality monitoring market as the country holds the majority share in primary energy consumption.

Southeast Asia Air Quality Monitoring Market Trends

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

- Outdoor air quality monitoring systems are installed to track the air pollution caused by the transport sector, industrial sector, construction activities, and all other external sources of pollution. The air outside the confined spaces is believed to have more harmful pollutants than indoor air due to the points above of sources.
- Outside air quality monitoring devices are deployed to keep track of the air pollution produced by the transportation industry, the manufacturing industry, construction activities, and all other external sources of pollution. Due to the sources above, the air outside enclosed places is thought to contain more dangerous pollutants than interior air.
- Data are gathered using various sensors to detect undesired pollutants or dangerous gases. The collected data can be monitored remotely and stored on a remote server platform with an internet connection.
- For instance, in February 2023, Five pilot schools received Air Quality Monitoring (AQUAMS Project) launched by the Environment Protection Department Sabah and UNICEF received the air quality monitoring devices in Malaysia. The devices will collect air quality data for monitoring and evidence generation. Thus, such types of installation will boost the demand for Outdoor Monitor Segment in the Southeast Asia region.
- Moreover, no exposure to PM2.5 could be called safe, according to the most current research assessing the relationship between air pollution levels and significant health risks. Even low levels of air pollution can cause negative health impacts.
- In 2022, the average PM2.5 concentration (?g/m?) for countries majorly contributing in Southeast Asia were Indonesia, Myanmar, Laos, and Vietnam. Indonesia accounted for 30.4 ?g/m? of PM2.5 concentration.
- Therefore, the outdoor monitor segment is expected to be the fastest-growing segment in the market during the forecast period due to the above points.

Indonesia is expected to dominate the market

- Indonesia has the majority of the production and consumption of oil and gas in Southeast Asia, particularly due to growing industrialization, which has increased chemical pollutants, thereby driving the air quality monitoring market in the forecast period.
- Nevertheless, six nations in Southeast Asia with improved air quality in 2021, headed by Indonesia with a 16% reduction in yearly PM2.5 concentrations, were the main contributors to the decline in PM2.5 levels. Despite the advancements, Indonesia, ranked 17th globally, is the region's most polluted nation, with a 2021 PM2.5 annual concentration that is nearly 30% higher than Myanmar, which is second in the region.
- Moreover, in Southeast Asia, it is estimated that open burning accounts for 5 to 30% in respective countries of all artificial emissions. Seasonal air pollution cycles are produced in the countries due to the practice, which increases the transboundary movement of air pollutants. Thus, creating opportunities for the air quality monitoring market in the forecast period.
- In 2022, Indonesia accounted for 9.77 Exajoules of the total primary energy consumed across Southeast Asia. Fossil fuels, such as oil, natural gas, and coal, accounted for a significant share of the total primary energy consumed in the region in 2022.
- Therefore, owing to the above points, Indonesia is expected to grow significantly during the forecast period.

Southeast Asia Air Quality Monitoring Industry Overview

The Southeast Asia 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
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