

Gas Cleaning Technologies Market Size, Share & Trends Analysis Report By Product (Scrubbers, Dry Sorbent Injection, Particulate/Dust Collection), By End-use (Chemical, Cement), By Region, And Segment Forecasts, 2023 - 2030

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Abstracts

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Gas Cleaning Technologies Market Growth & Trends

The global gas cleaning technologies market size is anticipated to reach USD 46.73 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 4.9% from 2023 to 2030. The growth of the market is anticipated to be driven by the increasing number of coal-fired power plants across the globe. According to the International Energy Agency, coal-fired power generation reached an all-time high in 2021, increasing by 8% globally. Coal served more than half of the additional power demand in 2021. Compared to 2020, emissions from coal-fired power plants in the U.S. increased by 16% and by 20% in the European Union in 2021. Also, in India, coal-fired power generation reached a record high in 2021, increasing by 13% compared to 2020.

The demand for coal-fired power in the world grew strongly in 2021 partly due to the decline in renewable energy and also the economic impacts of the Russia-Ukraine conflict. Which is likely to drive gas cleaning technologies demand in the upcoming years. According to the World Bank Group, industries contribute more than one-third of the direct and indirect Greenhouse Gas (GHGs) emissions globally. Among various industries, certain sectors like iron and steel, chemical, manufacturing, and cement are some of the primary contributors to climate change and global warming. This can be

attributed to the fact that these industries require large amounts of energy for carrying out their processing or manufacturing activities. Air pollution control technologies are becoming critical for industries in order to limit the emission of GHGs.

Therefore, the rising air pollution and its impact on the health and environment are likely to augment the installation of various pollution control technologies, consequently driving the growth of the market. The rising industrialization and growth in various industries are leading to significantly increased air pollution. Most of the industrial processes in power, chemical, refineries & petrochemicals, textiles, metals, and cement, among other industries, involve the use of various gases and are responsible for the emission of these gases or other by-products of the process. Such industrial activities are responsible for the emission of pollutants such as carbon monoxide, hydrocarbons, sulfur dioxide, and nitrogen oxides, which is also fueling the growth of this market over the forecast period.

Gas Cleaning Technologies Market Report Highlights

The NO_x reduction segment is expected to hold 20.8% of the market share in 2022. The technology behind NO_x scrubbing involves oxidizing nitrogen monoxide (NO) in flue gas to soluble nitrogen oxides (N₂O₅ & NO₂) with the help of an oxidant like O₃ or ClO₂. In a typical flue gas scrubber, NO₂ and N₂O₅ are then removed from the flue gas using an alkaline scrubbing liquid

Exhaust streams from petrochemical plants, refineries, and other facilities that process oil and gas often generate potentially hazardous gas and chemical waste. As a result, in order to comply with regulatory standards, petrochemical firms, and refineries have to put in place solutions to remove hazardous exhaust waste, which is expected to increase the demand for gas cleaning technology like wet scrubbers

The demand for eco-friendly and biodegradable packaging materials is anticipated to increase due to environmental concerns associated with the usage of plastics. As a result, the aforementioned reasons are anticipated to support the pulp and paper industry, which will drive demand for wet scrubbers in the pulp and paper segment

Middle East & Africa is expected to exhibit a CAGR of 5.6% over the forecast period owing to rapid industrialization in GCC countries

In June 2023, Business Line Air & Gas of John Cockerill Environment which specializes in air pollution control and odor treatment equipped the brand new plant of a France-based world-class innovative semiconductor material manufacturer with gas scrubbers

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