Asia Pacific Flue Gas Desulfurization System Market, By Type (Dry FGD, Wet FGD), By Application (Power Generation, Chemical, Iron and Steel, Cement Manufacturing, Others), By Installation (Greenfield, Brownfield), By Country, Competition, Forecast and Opportunities, 2028F

Market Report (3 business days) | 2023-10-03 | 137 pages | TechSci Research

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Report description:

Asia Pacific Flue Gas Desulfurization System market is growing, owing to increasing demand for online gaming. The Asia Pacific market for flue desulfurization systems is projected to be driven by the rising popularity of FGD in the cement and chemical production industries. Currently, flue gas desulfurization is more in demand because governments all around the world have become more aware of the importance of ecological balance and global warming. Industry participants are working to diversify their product offerings in an effort to effectively remove gases from industrial facilities. Hence, the market for Asia Pacific flue gas desulfurization systems is anticipated to grow throughout the projected period.

The adoption of flue gas desulfurization for removing SO2 from gases, air pollution regulations, and the rise in demand for FGD from the manufacturing, cement, iron and steel, power generation, and chemical industries, are likely to be the key factors driving the Asia Pacific flue gas desulfurization system market.

Flue gas desulfurization systems are used to remove sulphur dioxide (SO2) from gases produced by the combustion of fossil fuels, such as coal, oil, tyres from cars, municipal solid waste, and a number of other industrial processes, such as the production of cement, glass, paper, iron, steel, and copper.

Increased Attention on Reducing Air Pollution

The air quality across Asia is deteriorating due to increasing number of industries and urbanization. According to the World Health Organisation (WHO), four to five million people, globally, pass away every year from illnesses brought on by air pollution. As a result, there is a greater need to improve the air quality, which in turn drives up the demand for FGD systems. Additionally, in order to raise public awareness, WHO organised the first global conference on air pollution and health in October and November 2018. This, in turn, increased the demand for FGD systems.

Both China and India are acknowledged to be the main causes of the increase in air pollution due to their enormous population densities. However, both nations are reorienting their efforts to reduce air pollution. The National Clean Air Programme (NCAP), which offers a strategy for preventing, controlling, and reducing air pollution, was introduced in India in January 2019. Additionally, China penalised around 18,000 businesses in 2017 for contributing to an increase in pollution through their emissions. Thus, increased emphasis on reducing pollution is anticipated to raise demand for flue gas desulfurization systems, ultimately fuelling the market expansion.

Expansion Of The Industry

Flue gas desulfurization systems are becoming more and more in demand across a variety of production sectors, including cement, chemical, and power plants. Additionally, due to the implementation of various initiatives like "Make in India" by the Indian Government and MIC 2025 by the Chinese Government, India and China are among the world's leading industrial hubs. Therefore, it is anticipated that these government measures to support the industrial sector and various flue gas desulfurization system applications would support the market's expansion. Additionally, there has been a large growth in global commerce over the past ten years, and this trend is expected to continue during the projected period. The rise of industrial trade is significantly fueled by the developing countries in Asia, particularly China and India. Many industrial firms from wealthy areas have relocated to low-cost nations as a result of globalization.

Rising populations and urbanization are increasing the need for new buildings. The cement industry, and the semi-conductor industry will grow in the upcoming years, and this global transfer of industrial firms has increased the demand for FGD systems. In order to provide cleaner working conditions and lower environmental pollutants, some areas have also put into place strict environmental legislation. Thus, the growth of the Asia Market is influenced by all of these aspects taken together.

Strict Government Guidelines for Reducing Air Pollution

Developing nations have been allocating their resources to control the growing level of air pollution ever since the Air Prevention and Control of Pollution Act was passed in 1981. In addition, poor industrial practises, illicit mining activities, and rising coal use in China and India, have all contributed to the deteriorating air quality. The market for FGD systems is anticipated to expand as a result of industrialised nations enforcing strict air quality control rules. On addition, several governments are investing significant sums on regulations and strategies to enhance air quality because they recognise the negative social and economic effects of air pollution.

Global Decline in the Construction of New Coal Power Plants:

Power generating systems include a number of essential components, including air filtration and air quality enhancement. Power production businesses struggle to keep gas-fired turbines operating properly and stop fly ash from erupting from coal or other solid fuel sources' smokestacks. In most cases, polyphenylene sulphide (PPS) is employed for these purposes. In order to maintain optimal environmental conditions, effective filtration is one of the key factors. For instance, the usage of FGD systems is necessary for thermal power production to maintain performance within environmental constraints. However, there are now fewer coal power plants due to growing environmental concerns, an increase in the usage of alternative fuels like petrol, and the use of renewable energy sources.

Significant Growth in Technical Progress

Manufacturers like GE Power, Thermax, S.A. HAMON, MHPS, and others, have made technological improvements that have raised the demand for FGD system goods. Advanced limestone flue gas desulphurization (FGD) machines from ANDRITZ are economical and effective ways to remove dust and SO2, while using the least amount of energy. Furthermore, Carmeuse developed two new technologies, Novel Integrated Desulfurization (NID) and Circulating Dry Scrubbers (CDS), which can remove 98% SO2 from coal with 2.5% sulphur. Through a series of patented regenerable aqueous amine-based solvents, these methods sequentially recycle SO2 from flue gas. Therefore, it is anticipated that such technical improvements would present producers with attractive prospects.

Additionally, the introduction of multi-pollutant control is anticipated to promote market expansion in the near future. For instance, Lextran Ltd., an Israeli company, industrialised a catalytic, regenerative wet scrubbing method that instantly removes SOx and NOx from flue gas. Additionally, the development of energy-efficient and environmentally friendly FGD systems, that lessen environmental deterioration, is made possible by the increase in carbon emissions and air pollution. It is expected that this would present lucrative chances for market development.

Market Segments

The Asia Pacific Flue Gas Desulfurization System Market is segmented based on Type, Application, Installation, and Region. Based on type, the market is bifurcated into Dry FGD and Wet FGD. Based on Application, the market is segmented into Power Generation, Chemical, Iron and Steel, Cement Manufacturing, and Others. Based on Installation, the market is segmented into Greenfield and Brownfield.

Market Players

Major market players of Asia Pacific Flue Gas Desulfurization System Market are Chiyoda Corporation, Ducon Infratechnologies Limited, General Electric, S.A.Hamon, Mitsubishi Heavy Industries, Ltd., Rafako S.A., Valmet Oyj, Doosan Lentjes, Babcock and Wilcox Enterprises, Inc., Marsulex Environmental Technologies Corporation.

Report Scope:

In this report, Asia Pacific Flue Gas Desulfurization System Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

-Asia Pacific Flue Gas Desulfurization System Market, By Type

o Dry FGD

o Wet FGD

-Asia Pacific Flue Gas Desulfurization System Market, By Service Provider

o Traditional Flue Gas Desulfurization System

o Cloud Service Providers

o Telco Flue Gas Desulfurization System

o Others

-Asia Pacific Flue Gas Desulfurization System Market, By Application

o Power Generation

o Chemical

o Iron and Steel

o Cement Manufacturing

o Others

-Asia Pacific Flue Gas Desulfurization System Market, By End-User

o Greenfield

o Brownfield

-Asia Pacific Flue Gas Desulfurization System Market, By Region:

o China

o Japan

o India

o Australia

o South Korea

o Malaysia

o Singapore

o Indonesia

o Thailand

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Asia Pacific Flue Gas Desulfurization System Market

Available Customizations:

Asia Pacific Flue Gas Desulfurization System Market with the given market data, Tech Sci Research offers customizations according to a company s specific needs. The following customization options are available for the report:

Company Information

-Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

(Note: The companies list can be customized based on the client requirements.)

Asia Pacific Flue Gas Desulfurization System Market, By Type (Dry FGD, Wet FGD), By Application (Power Generation, Chemical, Iron and Steel, Cement Manufacturing, Others), By Installation (Greenfield, Brownfield), By Country, Competition, Forecast and Opportunities, 2028F

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