Industrial Emission Control Systems Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2030

Market Report | 2023-12-27 | 180 pages | Infinium Global Research and Consulting Solutions

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Report description:

The report on the global industrial emission control systems market provides qualitative and quantitative analysis for the period from 2021-2030. The industrial emission control systems market was valued at USD 38.33 billion in 2022 and is expected to reach USD 66.67 billion in 2030, with a CAGR of 6.19% during the forecast period 2023-2030. The study on industrial emission control systems market covers the analysis of the leading geographies such as North America, Europe, Asia Pacific, and RoW for the period of 2021-2030.

Emission control systems play a crucial role in reducing the discharge of harmful substances which are produced during combustion and other emission-related activities, effectively combating environmental pollution. Emission control systems encompass a range of functions implemented in industries to minimize the emission of harmful pollutants like carbon monoxide (CO), hydrocarbons (HC), nitrogen oxide (NOx), and others. The major drivers for emission control systems are the rigorous environmental regulations and emission standards established by government and regulatory authorities, which compels the industries to mandatory compliance with standards, which leads to a surge in market demand for Industrial emission control systems. Also, stringent standard drives technological innovations in the emission control system. The recent selective catalytic reduction (SCR) is a novel and advanced emissions control technology system. It reduces NOX by injecting a liquid reducing agent through a special catalyst into the exhaust stream of a diesel engine.

The industrial emission control system market has witnessed remarkable growth in recent years. The electrostatic precipitator segment emerging as the fastest-growing segment in the industrial emission control system market. An electrostatic precipitator, also known as an electrostatic air cleaner, is a device in which an electric charge is used to eliminate certain impurities such as solid particles or liquid droplets from air or other gases in smokestacks, other flues, dust, and soot from industrial emissions. Electrostatic Precipitators use HEPA filters and fine filters for HVAC systems to protect people, products, and processes. It is used in industries for power generation, cement manufacturing, and metal processing. The sales rate of electrostatic precipitators in the market is propelled by the surging demand for air quality control and management by end-use industries such as power plants, petrochemical industries, and others.

The Asia Pacific region is projected to hold a significant market share in the global emission control system industry. This dominance can be attributed to several factors, including a substantial increase in infrastructure development, industrialization,

and vehicle sales in the region. Additionally, governments in the Asia Pacific are actively implementing stringent regulations to effectively manage emissions from the industrial sector. According to the International Journal of Advance Research and Innovative Ideas in Education, in 2022, Asia Pacific is the world's leading producer of industrial waste, accounting for 5357 million tons (58.4% of global production), China, Japan, India, South Korea, and Australia all are the key contributors to the industrial waste. According to a report shared by the World Bank in 2018, Nearly a quarter (23%) of total global waste is produced in the East Asia and Pacific region. Owing to this, the governments in the Asia Pacific are focusing on how they can reduce industrial emissions. For this purpose, the government implements stringent regulations and emissions standards to control the emissions, which presents a lucrative opportunity for the market players in industrial emission control systems. Furthermore, North America, particularly the United States and Canada, is a significant market for emission control systems for several reasons such as stringent regulatory environment, industrial activity, and technological innovation. Moreover, the well-established and clearly defined regulations governing emissions control are likely to drive increased demand for industrial emission control systems.

Report Findings
1) Drivers
- Stringent environmental regulations and emission standards set by governments and regulatory bodies are driving the growth of the emission control system market.
- Rapid industrialization has fueled environmental concerns such as global warming, which leads to rising demand for emission control system.
2) Restraints
- The emergence of alternate fuel generation methods such as wind, solar, and hydropower, and a decrease in coal power investments are restraining the market.
3) Opportunities
- The rising awareness about health issues due to polluted air and the visions set by the prominent countries for zero-emission vision create lucrative opportunities for the market.

Research Methodology
A) Primary Research
Our primary research involves extensive interviews and analysis of the opinions provided by the primary respondents. The primary research starts with identifying and approaching the primary respondents, the primary respondents are approached include
1. Key Opinion Leaders associated with Infinium Global Research
2. Internal and External subject matter experts
3. Professionals and participants from the industry
Our primary research respondents typically include
1. Executives working with leading companies in the market under review
2. Product/brand/marketing managers
3. CXO level executives
4. Regional/zonal/ country managers
5. Vice President level executives.
B) Secondary Research
Secondary research involves extensive exploring through the secondary sources of information available in both the public domain and paid sources. At Infinium Global Research, each research study is based on over 500 hours of secondary research accompanied by primary research. The information obtained through the secondary sources is validated through the crosscheck on various data sources.
The secondary sources of the data typically include
1. Company reports and publications
2. Government/institutional publications

3. Trade and associations journals
4. Databases such as WTO, OECD, World Bank, and among others.
5. Websites and publications by research agencies

Segment Covered
The global industrial emission control systems market is segmented on the basis of device type, and emission source.

The Global Industrial Emission Control Systems Market by Device Type
-Electrostatic Precipitators
-Incinerators
-Scrubbers
-Filters
-Others
-Baghouse

The Global Industrial Emission Control Systems Market by Emission Source
-Power Plants
-Chemical & Petrochemical
-Cement
-Mining & Metals
-Manufacturing
-Others

Company Profiles
The companies covered in the report include
- Russell Finex
-BS PROJECTS PVT. LTD.
-Incinco Ltd
-Sinoma
-Johnson Matthey
-Ducon technologies
-Babcock & Wilcox enterprises
-Alfatherm Ltd.
-Durr AG
-Thermax

What does this Report Deliver?
1. Comprehensive analysis of the global as well as regional markets of the industrial emission control systems market.
2. Complete coverage of all the segments in the industrial emission control systems market to analyze the trends, developments in the global market and forecast of market size up to 2030.
3. Comprehensive analysis of the companies operating in the global industrial emission control systems market. The company profile includes analysis of product portfolio, revenue, SWOT analysis and latest developments of the company.
4. IGR- Growth Matrix presents an analysis of the product segments and geographies that market players should focus to invest, consolidate, expand and/or diversify.

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