

Electrostatic Precipitator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/E8FD7DFB9D7DEN.html>

Date: March 2023

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: E8FD7DFB9D7DEN

Abstracts

Market Overview:

The global electrostatic precipitator market size reached US\$ 7.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 9.7 Billion by 2028, exhibiting a growth rate (CAGR) of 4% during 2023-2028.

An electrostatic precipitator (ESP) refers to a filtration device that aids in removing harmful particles by using electrostatic induction. Some of the common product variants include dry ESP and wet ESP. These devices offer numerous advantages over the conventional industrial filters, including higher efficiency in pollutant removal, collection of wet impurities, lower operating and maintenance costs, better durability, etc. As a result, electrostatic precipitators are widely installed across diverse industries, such as power generation, metal processing, mining, marine, chemicals, etc.

The rising environmental concerns towards the high emissions of various air pollutants, including NO_x, SO₂, dust particles, acid mists, etc., are primarily driving the market for electrostatic precipitators. Furthermore, the implementation of stringent regulations by the various government bodies for improving and maintaining the air quality is also propelling the market growth. In line with this, the increasing penetration of Industry 4.0 trends along with the introduction of various green policies for mitigating industrial hazards is further bolstering the demand for electrostatic precipitators. Moreover, several regulatory bodies are also launching labor safety standards for protecting the workforce against harmful emissions of chemical gases and fumes from industrial activities, thereby augmenting the market growth. Apart from this, the continuous upgradation of conventional filtration devices with advanced electrostatic precipitators

as an essential pollution control equipment across diverse industries is also catalyzing the market growth. Additionally, the rising integration of remote sensing technologies with electrostatic precipitators to install pollution control units in remote areas is further propelling the market growth. In the coming years, the increasing investments in extensive R&D activities for introducing energy-efficient product variants will continue to drive the market growth for electrostatic precipitators.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global electrostatic precipitator market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology, design and application.

Breakup by Technology:

- Dry ESP
- Wet ESP

Breakup by Design:

- Plates
- Tabular

Breakup by Application:

- Chemicals and Petrochemicals
- Metal Processing
- Power Generation
- Iron and Steel Manufacturing
- Cement Manufacturing
- Others

Breakup by Region:

- North America

United States
Canada

Asia Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others

Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others

Latin America

Brazil
Mexico
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Babcock & Wilcox Enterprises Inc., Bharat Heavy Electricals Limited, ELEX AG, Fujian Longking Co. Ltd., FLSmith & Co. A/S, Hamon & Cie international SA, John Wood Group PLC, Mitsubishi Hitachi Power Systems Ltd. (Mitsubishi Heavy

Industries), Siemens Aktiengesellschaft and Thermax Limited (RDA Holdings Private Limited).

Key Questions Answered in This Report:

How has the global electrostatic precipitator market performed so far and how will it perform in the coming years?

What is the impact of COVID-19 on the global electrostatic precipitator market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the design?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the market?

What is the structure of the global electrostatic precipitator market and who are the key players?

What is the degree of competition in the market?

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