

# **Electrostatic Precipitator Market Report by Technology (Dry ESP, Wet ESP), Design (Plates, Tabular), Application (Chemicals and Petrochemicals, Metal Processing, Power Generation, Iron and Steel Manufacturing, Cement Manufacturing, and Others), and Region 2024-2032**

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## **Abstracts**

The global electrostatic precipitator market size reached US\$ 7.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 11.0 Billion by 2032, exhibiting a growth rate (CAGR) of 3.6% during 2024-2032.

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<sub>x</sub>, SO<sub>2</sub>, 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 2024-2032. 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., FLsmidth & 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

1. How big is the global electrostatic precipitator market?
2. What is the expected growth rate of the global electrostatic precipitator market during 2024-2032?
3. What are the key factors driving the global electrostatic precipitator market?
4. What has been the impact of COVID-19 on the global electrostatic precipitator market?

5. What is the breakup of the global electrostatic precipitator market based on the technology?
6. What is the breakup of the global electrostatic precipitator market based on the application?
7. What are the key regions in the global electrostatic precipitator market?
8. Who are the key players/companies in the global electrostatic precipitator market?

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