

# **Electric Generator Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Stand By, Peak Shaving, Continuous), By Application (Mining, Oil & Gas, Construction, Residential, commercial, Manufacturing, Others), By Region & Competition, 2020-2030F**

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## **Abstracts**

### **Market Overview**

The Global Electric Generator Market was valued at USD 33.1 billion in 2024 and is projected to reach USD 48.2 billion by 2030, growing at a CAGR of 6.3% during the forecast period. The rising demand for reliable backup power across industrial, commercial, and residential sectors is a key driver, particularly in emerging economies where rapid urbanization and industrialization are straining existing power infrastructures. Frequent outages due to aging grids, natural disasters, and increasing energy consumption are prompting investments in generator solutions. The construction and manufacturing sectors rely heavily on portable and standby generators to maintain productivity in off-grid and temporary environments. Furthermore, the expansion of digital infrastructure, including data centers powered by 5G and cloud computing, is fueling the need for dependable power systems. Hybrid generator systems combining renewable energy sources with conventional units are also gaining traction, supporting sustainability goals. Increased residential use, particularly in disaster-prone areas, and government-led infrastructure and rural electrification initiatives further drive market growth.

### **Key Market Drivers**

## Increasing Demand for Reliable and Uninterrupted Power Supply Across Industries and Residential Sectors

A major force behind the growth of the global electric generator market is the rising need for dependable, uninterrupted electricity across diverse sectors. As urbanization and industrial activity accelerate—particularly in countries like India, China, and others in Southeast Asia—reliable power becomes essential for sustaining operations. Industries such as manufacturing, mining, oil and gas, and construction face substantial productivity losses from even brief outages, making electric generators crucial for operational continuity. Residential sectors, especially in areas affected by frequent natural disasters or grid unreliability, are also increasingly adopting standby generators. This widespread reliance on uninterrupted power underscores the essential role of generators in modern energy systems.

### Key Market Challenges

#### Environmental Concerns and Stringent Regulatory Policies Impacting Market Growth

The global electric generator market is significantly challenged by growing environmental concerns and strict emission regulations. Traditional generators, particularly diesel-powered units, contribute to air pollution through emissions of CO<sub>2</sub>, NO<sub>x</sub>, and particulate matter. In response, governments and environmental agencies—especially in the EU, North America, and parts of Asia—have introduced emission standards that push manufacturers toward cleaner technologies. Compliance with these standards often entails higher production costs, as advanced emissions-reduction technologies such as SCR, DPF, and EGR systems must be integrated. These regulatory constraints can delay product deployment, particularly in markets with limited infrastructure or resources to support such advancements.

### Key Market Trends

#### Rising Adoption of Hybrid and Renewable-Integrated Generator Systems

A significant trend in the electric generator market is the increasing use of hybrid systems that combine conventional generators with renewable energy sources like solar or wind, along with battery storage. This shift is largely driven by the need to reduce emissions and operating costs while ensuring power reliability. Hybrid systems allow solar energy to meet daytime demand, reducing fuel usage and generator runtime, with conventional generators acting as backup during low solar availability. This integration

supports both environmental and cost-efficiency goals. The trend is particularly evident in remote or off-grid applications such as rural electrification, telecom towers, and isolated industrial sites, where hybrid systems offer reliable, sustainable energy solutions.

## **Key Market Players**

ABB Ltd

Aggreko plc

ASCO Power Technologies, L.P.

Deutz AG

Doosan Corporation

FG Wilson Engineering Ltd

General Electric Company

Himoinsa S.L.

## **Report Scope:**

In this report, the Global Electric Generator Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Electric Generator Market, By Type:

Stand By

Peak Shaving

Continuous

#### Electric Generator Market, By Application:

Mining

Oil & Gas

Construction

Residential

Commercial

Manufacturing

Others

#### Electric Generator Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Colombia

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Electric Generator Market.

## **Available Customizations:**

Global Electric Generator Market report with the given market data, TechSci Research

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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).

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