

# Power Generation Equipment Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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# **Abstracts**

Power Generation Equipment Market Summary

Introduction

Power generation equipment encompasses a diverse array of technologies designed to produce electricity from sources like fossil fuels, renewables, and nuclear energy, serving industrial, commercial, and residential needs. This industry is defined by its critical role in global energy supply, offering solutions ranging from large-scale standby generators to portable units for emergencies or remote locations. Key characteristics include technological sophistication, reliability, and adaptability to shifting energy demands, driven by trends such as decarbonization, digitalization, and electrification. The market thrives on the need for resilient power infrastructure, advancements in turbine efficiency, and the global push toward sustainable energy systems.

Market Size and Growth Forecast

The global power generation equipment market was valued at USD 66 billion to USD 76 billion in 2024, with an estimated compound annual growth rate (CAGR) of 4.5% to 6.5% from 2025 to 2030. This growth reflects increasing electricity demand, renewable energy integration, and infrastructure upgrades.

Regional Analysis



North America exhibits a growth rate of 4-6%, with the United States leading due to its advanced industrial base and renewable energy adoption; trends focus on grid reliability and clean energy transitions.

Europe grows at 4.5-6.5%, with Germany and the UK driving demand through decarbonization efforts; trends emphasize energy efficiency and regulatory compliance.

Asia Pacific sees a growth rate of 5-7%, led by China and India's rapid industrialization and urbanization; trends highlight scalable, cost-effective solutions.

The Rest of the World experiences a growth rate of 4-6%, with Brazil and South Africa advancing through infrastructure investments; trends focus on expanding energy access.

## **Application Analysis**

Industrial applications grow at 5-7%, driven by manufacturing and heavy industry requirements; trends favor high-capacity, reliable systems to support continuous operations.

Commercial applications grow at 4.5-6.5%, powering offices, retail, and service sectors; trends emphasize energy-efficient solutions for cost savings.

Residential applications grow at 4-6%, meeting household power needs; trends focus on portable and backup solutions for reliability.

## Type Analysis

Standby Equipment grows at 4.5-6.5%, essential for uninterrupted power in critical settings like hospitals and data centers; trends highlight automation and durability for long-term use.

Portable Equipment grows at 5-7%, valued for flexibility in emergencies and remote areas; trends focus on lightweight, efficient designs for easy deployment.

#### Key Market Players

Mitsubishi Generator, headquartered in Tokyo, Japan, is a prominent player in the power generation sector, specializing in high-efficiency generators and turbines tailored



for industrial and utility applications; its robust engineering solutions cater to global markets, emphasizing reliability and advanced technology integration.

Siemens Energy, based in Munich, Germany, is a global leader offering a comprehensive portfolio of power generation systems, including gas turbines, steam turbines, and renewable energy solutions; it excels in sustainable technologies, driving the energy transition with innovative equipment designs.

Caterpillar, from Deerfield, Illinois, USA, is renowned for its durable generators and diesel engines, widely utilized in construction, mining, and industrial sectors; its equipment is designed for rugged environments, ensuring consistent power delivery worldwide.

Generac, located in Waukesha, Wisconsin, USA, focuses on backup power solutions for residential and commercial markets; it is known for pioneering portable and standby generators, integrating smart technology to enhance user experience and reliability.

Cummins, based in Columbus, Indiana, USA, delivers reliable power systems, including diesel and gas generators, for industrial, commercial, and residential use; its extensive global service network ensures robust support and maintenance for diverse applications.

GE Vernova, headquartered in Cambridge, Massachusetts, USA, offers advanced turbines and generators, leading the shift toward cleaner energy; its cutting-edge technologies support large-scale power projects and renewable integration worldwide.

Doosan Enerbility, from Seoul, South Korea, specializes in heavy-duty power equipment like gas turbines and steam generators; it serves industrial and utility sectors, focusing on efficiency and durability for high-demand environments.

Rolls-Royce, based in London, UK, provides high-performance power systems, including microturbines and diesel generators; its precision engineering supports critical applications in industrial and marine sectors globally.

Shanghai Electric, from Shanghai, China, produces large-scale generators and turbines, catering to Asia's growing energy markets; it emphasizes cost-effective, scalable solutions for utilities and industrial clients.

Dongfang Electric, headquartered in Chengdu, China, focuses on power equipment for



industrial and renewable applications; its turbines and generators support China's energy infrastructure and export markets.

Harbin Electric, based in Harbin, China, excels in manufacturing turbines and generators for utility-scale projects; it plays a key role in powering China's industrial growth with reliable equipment.

Baker Hughes, from Houston, Texas, USA, offers power generation solutions tied to energy infrastructure, including gas turbines; it serves oil, gas, and industrial clients with a focus on efficiency and innovation.

ABB, headquartered in Zurich, Switzerland, provides electrification and automation technologies for power systems; its solutions enhance generator performance and grid integration across multiple sectors.

Rehlko, formerly Kohler Energy, based in Kohler, Wisconsin, USA, delivers standby and portable generators for residential, commercial, and industrial use; its independence boosts specialization in reliable power solutions.

Fuji Electric, from Tokyo, Japan, specializes in compact, efficient power generation equipment; it serves industrial and commercial markets with a focus on energy-saving technologies.

# Porter's Five Forces Analysis

The threat of new entrants is moderate, with high capital and technical barriers balanced by opportunities in niche markets like portable units.

The threat of substitutes is moderate, as renewable energy systems compete with traditional equipment but often require integration with existing infrastructure.

Buyer power is moderate, with large industrial clients able to negotiate prices, though quality and reliability remain critical factors.

Supplier power is low, with widely available components like steel and electronics reducing dependency on specific suppliers.

Competitive rivalry is high, with firms investing heavily in innovation,



sustainability, and cost competitiveness to capture market share.

## Market Opportunities and Challenges

#### Opportunities

The global shift to renewable energy increases demand for hybrid and efficient equipment compatible with wind and solar.

Digitalization and smart grid technologies enhance system performance and predictive maintenance capabilities.

Growing electrification in emerging markets expands the customer base for both standby and portable solutions.

## Challenges

High initial costs deter adoption in cost-sensitive regions, particularly for advanced systems.

Regulatory complexities vary across regions, complicating compliance and market entry.

The transition to cleaner energy requires significant R&D investment, posing financial risks.

## Merger and Acquisition News

GE Vernova completes spin-off and begins trading on the New York Stock Exchange (Date: April 2, 2024): This separation from General Electric sharpens its focus on power generation equipment, accelerating innovation in turbines and generators, likely strengthening its competitive edge.

Kohler Co. and Platinum Equity Close Transaction to Establish Kohler Energy as Independent Business (Date: May 1, 2024): Rebranded as Rehlko, this move allows greater specialization in standby and portable equipment, enhancing its agility and



market presence in residential and commercial segments.

# **Growth Trend Analysis**

Mitsubishi Generator's operational commencement in 2024 bolsters industrial power capacity, supporting market expansion. BP Energy's projections indicate a 25,000 TWh increase in total power generation by 2050, with wind and solar contributing 23,000 TWh, driving demand for versatile equipment. In a Net Zero scenario, a 40,000 TWh rise, with 11,500 TWh for green hydrogen, underscores the need for advanced systems, aligning with a 4.5-6.5% CAGR through 2030.



## **Contents**

#### **CHAPTER 1 EXECUTIVE SUMMARY**

#### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

#### **CHAPTER 3 PREFACE**

- 3.1 Research Scope
- 3.2 Research Sources
  - 3.2.1 Data Sources
  - 3.2.2 Assumptions
- 3.3 Research Method

Chapter Four Market Landscape

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

#### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

## **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 Power Generation Equipment Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

#### **CHAPTER 7 LATEST MARKET DYNAMICS**

- 7.1 Latest News
- 7.2 Merger and Acquisition



- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

# CHAPTER 8 HISTORICAL AND FORECAST POWER GENERATION EQUIPMENT MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Power Generation Equipment Market Size
- 8.2 Power Generation Equipment Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Power Generation Equipment Market Size by Type
- 8.5 Key Countries Analysis
  - 8.5.1 United States
  - 8.5.2 Canada
  - 8.5.3 Mexico

# CHAPTER 9 HISTORICAL AND FORECAST POWER GENERATION EQUIPMENT MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Power Generation Equipment Market Size
- 9.2 Power Generation Equipment Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Power Generation Equipment Market Size by Type
- 9.5 Key Countries Analysis
  - 9.5.1 Brazil
  - 9.5.2 Argentina
  - 9.5.3 Chile
  - 9.5.4 Peru

# CHAPTER 10 HISTORICAL AND FORECAST POWER GENERATION EQUIPMENT MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Power Generation Equipment Market Size
- 10.2 Power Generation Equipment Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Power Generation Equipment Market Size by Type
- 10.5 Key Countries Analysis
  - 10.5.1 China
  - 10.5.2 India
  - 10.5.3 Japan



- 10.5.4 South Korea
- 10.5.5 Southest Asia
- 10.5.6 Australia

# CHAPTER 11 HISTORICAL AND FORECAST POWER GENERATION EQUIPMENT MARKET IN EUROPE (2020-2030)

- 11.1 Power Generation Equipment Market Size
- 11.2 Power Generation Equipment Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Power Generation Equipment Market Size by Type
- 11.5 Key Countries Analysis
  - 11.5.1 Germany
  - 11.5.2 France
  - 11.5.3 United Kingdom
  - 11.5.4 Italy
  - 11.5.5 Spain
  - 11.5.6 Belgium
  - 11.5.7 Netherlands
  - 11.5.8 Austria
  - 11.5.9 Poland
  - 11.5.10 Russia

# CHAPTER 12 HISTORICAL AND FORECAST POWER GENERATION EQUIPMENT MARKET IN MEA (2020-2030)

- 12.1 Power Generation Equipment Market Size
- 12.2 Power Generation Equipment Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Power Generation Equipment Market Size by Type
- 12.5 Key Countries Analysis
  - 12.5.1 Egypt
  - 12.5.2 Israel
  - 12.5.3 South Africa
  - 12.5.4 Gulf Cooperation Council Countries
  - 12.5.5 Turkey

# CHAPTER 13 SUMMARY FOR GLOBAL POWER GENERATION EQUIPMENT MARKET (2020-2025)



- 13.1 Power Generation Equipment Market Size
- 13.2 Power Generation Equipment Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Power Generation Equipment Market Size by Type

# CHAPTER 14 GLOBAL POWER GENERATION EQUIPMENT MARKET FORECAST (2025-2030)

- 14.1 Power Generation Equipment Market Size Forecast
- 14.2 Power Generation Equipment Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Power Generation Equipment Type Forecast

#### **CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS**

- 15.1 Mitsubishi Generator
- 15.1.1 Company Profile
- 15.1.2 Main Business and Power Generation Equipment Information
- 15.1.3 SWOT Analysis of Mitsubishi Generator
- 15.1.4 Mitsubishi Generator Power Generation Equipment Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Siemens Energy
  - 15.2.1 Company Profile
  - 15.2.2 Main Business and Power Generation Equipment Information
  - 15.2.3 SWOT Analysis of Siemens Energy
- 15.2.4 Siemens Energy Power Generation Equipment Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Caterpillar
  - 15.3.1 Company Profile
  - 15.3.2 Main Business and Power Generation Equipment Information
  - 15.3.3 SWOT Analysis of Caterpillar
- 15.3.4 Caterpillar Power Generation Equipment Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Generac
- 15.4.1 Company Profile
- 15.4.2 Main Business and Power Generation Equipment Information
- 15.4.3 SWOT Analysis of Generac
- 15.4.4 Generac Power Generation Equipment Revenue, Gross Margin and Market



Share (2020-2025)

15.5 Cummins

15.5.1 Company Profile

15.5.2 Main Business and Power Generation Equipment Information

15.5.3 SWOT Analysis of Cummins

15.5.4 Cummins Power Generation Equipment Revenue, Gross Margin and Market

Share (2020-2025)

15.6 GE Vernova

15.6.1 Company Profile

15.6.2 Main Business and Power Generation Equipment Information

15.6.3 SWOT Analysis of GE Vernova

15.6.4 GE Vernova Power Generation Equipment Revenue, Gross Margin and Market

Share (2020-2025)

15.7 Doosan Enerbility

15.7.1 Company Profile

15.7.2 Main Business and Power Generation Equipment Information

15.7.3 SWOT Analysis of Doosan Enerbility

15.7.4 Doosan Enerbility Power Generation Equipment Revenue, Gross Margin and

Market Share (2020-2025)

15.8 Rolls-Royce

15.8.1 Company Profile

15.8.2 Main Business and Power Generation Equipment Information

15.8.3 SWOT Analysis of Rolls-Royce

15.8.4 Rolls-Royce Power Generation Equipment Revenue, Gross Margin and Market

Share (2020-2025)

15.9 Shanghai Electric

15.9.1 Company Profile

15.9.2 Main Business and Power Generation Equipment Information

15.9.3 SWOT Analysis of Shanghai Electric

15.9.4 Shanghai Electric Power Generation Equipment Revenue, Gross Margin and

Market Share (2020-2025)

15.10 Dongfang Electric

15.10.1 Company Profile

15.10.2 Main Business and Power Generation Equipment Information

15.10.3 SWOT Analysis of Dongfang Electric

15.10.4 Dongfang Electric Power Generation Equipment Revenue, Gross Margin and

Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures



Table Abbreviation and Acronyms

Table Research Scope of Power Generation Equipment Report

Table Data Sources of Power Generation Equipment Report

Table Major Assumptions of Power Generation Equipment Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Power Generation Equipment Picture

Table Power Generation Equipment Classification

**Table Power Generation Equipment Applications** 

Table Drivers of Power Generation Equipment Market

Table Restraints of Power Generation Equipment Market

Table Opportunities of Power Generation Equipment Market

Table Threats of Power Generation Equipment Market

Table Covid-19 Impact For Power Generation Equipment Market

**Table Raw Materials Suppliers** 

Table Different Production Methods of Power Generation Equipment

Table Cost Structure Analysis of Power Generation Equipment

Table Key End Users

Table Latest News of Power Generation Equipment Market

Table Merger and Acquisition

Table Planned/Future Project of Power Generation Equipment Market

Table Policy of Power Generation Equipment Market

Table 2020-2030 North America Power Generation Equipment Market Size

Figure 2020-2030 North America Power Generation Equipment Market Size and CAGR

Table 2020-2030 North America Power Generation Equipment Market Size by Application

Table 2020-2025 North America Power Generation Equipment Key Players Revenue

Table 2020-2025 North America Power Generation Equipment Key Players Market Share

Table 2020-2030 North America Power Generation Equipment Market Size by Type

Table 2020-2030 United States Power Generation Equipment Market Size

Table 2020-2030 Canada Power Generation Equipment Market Size

Table 2020-2030 Mexico Power Generation Equipment Market Size

Table 2020-2030 South America Power Generation Equipment Market Size

Figure 2020-2030 South America Power Generation Equipment Market Size and CAGR

Table 2020-2030 South America Power Generation Equipment Market Size by

Application

Table 2020-2025 South America Power Generation Equipment Key Players Revenue

Table 2020-2025 South America Power Generation Equipment Key Players Market



#### Share

Table 2020-2030 South America Power Generation Equipment Market Size by Type

Table 2020-2030 Brazil Power Generation Equipment Market Size

Table 2020-2030 Argentina Power Generation Equipment Market Size

Table 2020-2030 Chile Power Generation Equipment Market Size

Table 2020-2030 Peru Power Generation Equipment Market Size

Table 2020-2030 Asia & Pacific Power Generation Equipment Market Size

Figure 2020-2030 Asia & Pacific Power Generation Equipment Market Size and CAGR

Table 2020-2030 Asia & Pacific Power Generation Equipment Market Size by Application

Table 2020-2025 Asia & Pacific Power Generation Equipment Key Players Revenue

Table 2020-2025 Asia & Pacific Power Generation Equipment Key Players Market Share

Table 2020-2030 Asia & Pacific Power Generation Equipment Market Size by Type

Table 2020-2030 China Power Generation Equipment Market Size

Table 2020-2030 India Power Generation Equipment Market Size

Table 2020-2030 Japan Power Generation Equipment Market Size

Table 2020-2030 South Korea Power Generation Equipment Market Size

Table 2020-2030 Southeast Asia Power Generation Equipment Market Size

Table 2020-2030 Australia Power Generation Equipment Market Size

Table 2020-2030 Europe Power Generation Equipment Market Size

Figure 2020-2030 Europe Power Generation Equipment Market Size and CAGR

Table 2020-2030 Europe Power Generation Equipment Market Size by Application

Table 2020-2025 Europe Power Generation Equipment Key Players Revenue

Table 2020-2025 Europe Power Generation Equipment Key Players Market Share

Table 2020-2030 Europe Power Generation Equipment Market Size by Type

Table 2020-2030 Germany Power Generation Equipment Market Size

Table 2020-2030 France Power Generation Equipment Market Size

Table 2020-2030 United Kingdom Power Generation Equipment Market Size

Table 2020-2030 Italy Power Generation Equipment Market Size

Table 2020-2030 Spain Power Generation Equipment Market Size

Table 2020-2030 Belgium Power Generation Equipment Market Size

Table 2020-2030 Netherlands Power Generation Equipment Market Size

Table 2020-2030 Austria Power Generation Equipment Market Size

Table 2020-2030 Poland Power Generation Equipment Market Size

Table 2020-2030 Russia Power Generation Equipment Market Size

Table 2020-2030 MEA Power Generation Equipment Market Size

Figure 2020-2030 MEA Power Generation Equipment Market Size and CAGR

Table 2020-2030 MEA Power Generation Equipment Market Size by Application



Table 2020-2025 MEA Power Generation Equipment Key Players Revenue

Table 2020-2025 MEA Power Generation Equipment Key Players Market Share

Table 2020-2030 MEA Power Generation Equipment Market Size by Type

Table 2020-2030 Egypt Power Generation Equipment Market Size

Table 2020-2030 Israel Power Generation Equipment Market Size

Table 2020-2030 South Africa Power Generation Equipment Market Size

Table 2020-2030 Gulf Cooperation Council Countries Power Generation Equipment Market Size

Table 2020-2030 Turkey Power Generation Equipment Market Size

Table 2020-2025 Global Power Generation Equipment Market Size by Region

Table 2020-2025 Global Power Generation Equipment Market Size Share by Region

Table 2020-2025 Global Power Generation Equipment Market Size by Application

Table 2020-2025 Global Power Generation Equipment Market Share by Application

Table 2020-2025 Global Power Generation Equipment Key Vendors Revenue

Figure 2020-2025 Global Power Generation Equipment Market Size and Growth Rate

Table 2020-2025 Global Power Generation Equipment Key Vendors Market Share

Table 2020-2025 Global Power Generation Equipment Market Size by Type

Table 2020-2025 Global Power Generation Equipment Market Share by Type

Table 2025-2030 Global Power Generation Equipment Market Size by Region

Table 2025-2030 Global Power Generation Equipment Market Size Share by Region

Table 2025-2030 Global Power Generation Equipment Market Size by Application

Table 2025-2030 Global Power Generation Equipment Market Share by Application

Table 2025-2030 Global Power Generation Equipment Key Vendors Revenue

Figure 2025-2030 Global Power Generation Equipment Market Size and Growth Rate

Table 2025-2030 Global Power Generation Equipment Key Vendors Market Share

Table 2025-2030 Global Power Generation Equipment Market Size by Type

Table 2025-2030 Power Generation Equipment Global Market Share by Type



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