

# **Diesel Generator Market Report by Capacity (0-100 kVA, 100-350 kVA, 350-1000 kVA, Above 1000 kVA), Application (Standby Backup Power, Prime Power, Peak Shaving Power), Mobility (Stationary, Portable), End User (Residential, Commercial, Industrial), and Region 2024-2032**

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## **Abstracts**

The global diesel generator market size reached US\$ 17.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 31.0 Billion by 2032, exhibiting a growth rate (CAGR) of 6.3% during 2024-2032. The rising demand for reliable power backup solutions across several industries, the growing need for uninterrupted power supply in remote and off-grid areas, and favorable government initiatives and funding supporting infrastructure development represent some of the key factors driving the market.

A diesel generator is a reliable and efficient power source that burns diesel fuel to generate electrical energy, commonly used for backup power supply in various applications. It comprises several key components, including a diesel engine, an alternator, a fuel system, and a control panel. The diesel engine is typically made of robust materials and designed to withstand heavy loads, making it durable and long-lasting. The alternator converts the mechanical energy from the engine into electrical energy, which is then distributed to power various devices and equipment. Compared to other types of generators, diesel generators are more efficient and cost-effective. Diesel fuel is relatively inexpensive and readily available, making diesel generators economical to operate. They also have a longer lifespan compared to gasoline or propane generators, requiring less frequent maintenance and replacement of parts. Additionally, they are highly reliable and can provide continuous power supply for extended periods.

Consequently, they are extensively employed in critical applications requiring an uninterrupted power supply, such as hospitals, data centers, and industries. Diesel generators are also known for their high load-carrying capacity, making them suitable for heavy-duty applications. Currently, there are different types of product variants available, including portable, standby, and prime-power diesel generators.

#### Diesel Generator Market Trends:

The global diesel generator market is being driven by several factors, including the rising demand for reliable backup power solutions in industries, such as healthcare, data centers, and telecommunications, and increasing government support for infrastructure development. This is further bolstered by the growing need for uninterrupted power supply in remote and off-grid areas. Additionally, the expansion of the manufacturing and construction industries, the rising instances of natural disasters, and the escalating demand for diesel generators in the military sector are propelling the market growth. Moreover, the surging awareness regarding the advantages of diesel generators and the development of new product variants by key players are fueling the market growth. Other factors, such as the increasing demand for energy-efficient and low-emission generators and rapid technological advancements, are providing an impetus to the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global diesel generator market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on capacity, application, mobility and end user.

#### Capacity Insights:

0-100 kVA

100-350 kVA

350-1000 kVA

Above 1000 kVA

The report has provided a detailed breakup and analysis of the diesel generator market based on capacity. This includes 0-100 kVA, 100-350 kVA, 350-1000 kVA, and above 1000 kVA. According to the report, 0-100 kVA accounted for the largest market share.

#### Application Insights:

Standby Backup Power  
Prime Power  
Peak Shaving Power

The report has provided a detailed breakup and analysis of the diesel generator market based on the application. This includes standby backup power, prime power, and peak shaving power. According to the report, standby backup power accounted for the largest market share.

Mobility Insights:

Stationary  
Portable

The report has provided a detailed breakup and analysis of the diesel generator market based on mobility. This includes stationary and portable. According to the report, stationary accounted for the largest market share.

End User Insights:

Residential  
Commercial  
Industrial

The report has provided a detailed breakup and analysis of the diesel generator market based on the end user. This includes residential, commercial, and industrial. According to the report, industrial accounted for the largest market share.

Regional Insights:

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

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share. Some of the factors driving the Asia Pacific diesel generator market included the expanding manufacturing sector, developing construction and infrastructure industries, and technological advancements.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global diesel generator market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Aksa Power Generation, Atlas Copco AB, Briggs & Stratton Corporation, Caterpillar Inc., Cummins Inc., Generac Holdings Inc., Kirloskar Electric Company Limited, Kohler Co., Mitsubishi Heavy Industries Ltd., MTU Onsite Energy (Rolls-Royce plc), Wartsila Corporation, and Yanmar Co. Ltd. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report

1. What was the size of the global diesel generator market in 2023?
2. What is the expected growth rate of the global diesel generator market during 2024-2032?
3. What has been the impact of COVID-19 on the global diesel generator market?
4. What are the key factors driving the global diesel generator market?
5. What is the breakup of the global diesel generator market based on the capacity?
6. What is the breakup of the global diesel generator market based on the application?
7. What is the breakup of the global diesel generator market based on the mobility?
8. What is the breakup of the global diesel generator market based on the end user?
9. What are the key regions in the global diesel generator market?
10. Who are the key players/companies in the global diesel generator market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL DIESEL GENERATOR MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY CAPACITY**

- 6.1 0-100 kVA
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 100-350 kVA
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 350-1000 kVA

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Above 1000 kVA
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

- 7.1 Standby Backup Power
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Prime Power
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Peak Shaving Power
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast

## **8 MARKET BREAKUP BY MOBILITY**

- 8.1 Stationary
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Portable
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast

## **9 MARKET BREAKUP BY END USER**

- 9.1 Residential
  - 9.1.1 Market Trends
  - 9.1.2 Market Forecast
- 9.2 Commercial
  - 9.2.1 Market Trends
  - 9.2.2 Market Forecast
- 9.3 Industrial
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast

## 10 MARKET BREAKUP BY REGION

### 10.1 North America

#### 10.1.1 United States

##### 10.1.1.1 Market Trends

##### 10.1.1.2 Market Forecast

#### 10.1.2 Canada

##### 10.1.2.1 Market Trends

##### 10.1.2.2 Market Forecast

### 10.2 Asia-Pacific

#### 10.2.1 China

##### 10.2.1.1 Market Trends

##### 10.2.1.2 Market Forecast

#### 10.2.2 Japan

##### 10.2.2.1 Market Trends

##### 10.2.2.2 Market Forecast

#### 10.2.3 India

##### 10.2.3.1 Market Trends

##### 10.2.3.2 Market Forecast

#### 10.2.4 South Korea

##### 10.2.4.1 Market Trends

##### 10.2.4.2 Market Forecast

#### 10.2.5 Australia

##### 10.2.5.1 Market Trends

##### 10.2.5.2 Market Forecast

#### 10.2.6 Indonesia

##### 10.2.6.1 Market Trends

##### 10.2.6.2 Market Forecast

#### 10.2.7 Others

##### 10.2.7.1 Market Trends

##### 10.2.7.2 Market Forecast

### 10.3 Europe

#### 10.3.1 Germany

##### 10.3.1.1 Market Trends

##### 10.3.1.2 Market Forecast

#### 10.3.2 France

##### 10.3.2.1 Market Trends

##### 10.3.2.2 Market Forecast

#### 10.3.3 United Kingdom



- 10.3.3.1 Market Trends
- 10.3.3.2 Market Forecast
- 10.3.4 Italy
  - 10.3.4.1 Market Trends
  - 10.3.4.2 Market Forecast
- 10.3.5 Spain
  - 10.3.5.1 Market Trends
  - 10.3.5.2 Market Forecast
- 10.3.6 Russia
  - 10.3.6.1 Market Trends
  - 10.3.6.2 Market Forecast
- 10.3.7 Others
  - 10.3.7.1 Market Trends
  - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Market Trends
  - 10.5.2 Market Breakup by Country
  - 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
  - 15.3.1 Aksa Power Generation
    - 15.3.1.1 Company Overview
    - 15.3.1.2 Product Portfolio
  - 15.3.2 Atlas Copco AB
    - 15.3.2.1 Company Overview
    - 15.3.2.2 Product Portfolio
    - 15.3.2.3 Financials
    - 15.3.2.4 SWOT Analysis
  - 15.3.3 Briggs & Stratton Corporation
    - 15.3.3.1 Company Overview
    - 15.3.3.2 Product Portfolio
    - 15.3.3.3 SWOT Analysis
  - 15.3.4 Caterpillar Inc.
    - 15.3.4.1 Company Overview
    - 15.3.4.2 Product Portfolio
    - 15.3.4.3 Financials
    - 15.3.4.4 SWOT Analysis
  - 15.3.5 Cummins Inc.
    - 15.3.5.1 Company Overview
    - 15.3.5.2 Product Portfolio
    - 15.3.5.3 Financials
    - 15.3.5.4 SWOT Analysis
  - 15.3.6 Generac Holdings Inc.

- 15.3.6.1 Company Overview
- 15.3.6.2 Product Portfolio
- 15.3.6.3 Financials
- 15.3.7 Kirloskar Electric Company Limited
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
  - 15.3.7.3 Financials
  - 15.3.7.4 SWOT Analysis
- 15.3.8 Kohler Co.
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
  - 15.3.8.3 SWOT Analysis
- 15.3.9 Mitsubishi Heavy Industries Ltd.
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
  - 15.3.9.3 Financials
  - 15.3.9.4 SWOT Analysis
- 15.3.10 MTU Onsite Energy (Rolls-Royce plc)
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio
- 15.3.11 Wartsila Corporation
  - 15.3.11.1 Company Overview
  - 15.3.11.2 Product Portfolio
  - 15.3.11.3 Financials
  - 15.3.11.4 SWOT Analysis
- 15.3.12 Yanmar Co. Ltd.
  - 15.3.12.1 Company Overview
  - 15.3.12.2 Product Portfolio
  - 15.3.12.3 SWOT Analysis

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