

## **India Portable Generator Market Report and Forecast 2025-2034**

Market Report | 2025-05-29 | 111 pages | EMR Inc.

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### **Report description:**

The India portable generator market was valued at USD 220.11 Million in 2024. The industry is expected to grow at a CAGR of 6.80% during the forecast period of 2025-2034 to attain a valuation of USD 424.96 Million by 2034.

#### India Portable Generator Market Growth

The key driver for the Indian portable generator market is the increased number of power outages across the nation due to the surge in power demand. As of 2022, the western part of the country, particularly Rajasthan faced the maximum number of power shortages. In May 2024, the demand for power in the country rose to 250 gigawatts for the month, 15 GW more than the projected demand. In order to meet this demand and prevent power outages, there has been an increase in production as well as the sale of portable generators. Along with this, the technological advancements and ongoing urbanization in the country also play a pivotal role in boosting the India portable generator market revenue.

The Central Pollution Control Board (CPCB) announced in March 2022 a three-pronged strategy to reduce pollution from older diesel generator sets: requiring the retrofitting of gensets with emission control devices, scrapping diesel gen-sets older than 15 years, and enforcing stricter emission standards for newer gensets. Implementing such policies will facilitate the expansion of portable gas generator use, which will lower pollution levels nationwide.

#### Key Trends and Recent Developments

Flexibility in use, increased power consumption, technological advancements, and growing sustainability concerns are supporting the India portable generator market value.

#### May 2024

Ambrane, India's leading manufacturer of electronic products has launched a new series of portable generators PowerHub 300.

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These generators are 100% indigenous with majority of their input materials sourced locally. Weighing just 2.6 kgs, they have a sturdy travel design and are best-suited for outdoor on-the-go charging besides serving as an emergency power backup in everyday activities.

April 2024

Altas Copco, a pioneer in manufacturing power tools, generators, compressors, vacuum solutions, pumps, and more has recently launched a series of highly efficient portable nitrogen membrane generators. These generators are known to be a stable source of nitrogen for small and large-scale projects with 99% purity, while their superior membrane technology enables lower energy consumption.

October 2023

From October 1, 2023, based on the directives of the Commission for Air Quality Management (CAQM), the government of India put a ban on large diesel generators in the National Capital region which is likely to propel the demand for alternative or less polluting sources of power for portable generators such as propane, natural gas, and solar energy.

October 2023

Portable generators in India are making a mark in the health sector. Indian Startup O2-Matic Innovation 'Portia' has developed world's first portable generator that produces 99% pure medical grade oxygen. The generator is known to produce oxygen in a record-breaking time of 40 seconds.

**Flexibility in Use is a Major Driving Factor for Portable Generator Market**

Portable generators can be used in various applications such as charging small devices in outdoor or recreational settings, power backup in residential and industrial areas, and the central power source in remote construction and mining zones. Further upgrades have enhanced the usability factor of portable generators creating a high portable generator demand in the market.

**Increased Power Consumption in India Propelling Market Growth**

A recent report by the International Energy Agency (IEA) has projected a rise in India's power consumption by 8% in 2024 due to increased heat waves and strong growth of industrial and residential sectors. This will impact the market growth positively to meet the growing electricity demand in the upcoming years.

**Technological Advancements are Leading to Increased Demand for Smart Portable Generators**

Technological advancements such as AI and automation have led to an increase in demand for smart portable generators with features such as auto start, auto shutdown, remote control, and monitoring. Further research and development into these technologies and their real time integration is expected to increase the adoption of smart portable generators.

**Preference for Portable Solar Generators Increasing Due to Growing Sustainability Concerns**

Solar portable generators are increasingly being preferred by manufacturers and customers alike due to growing concerns over environmental sustainability. These offer ideal off-grid power solutions and are highly efficient besides generating zero waste and carbon emissions. Also, their high demand is a direct impact of their ability to overcome challenges of traditional generators such as hefty power consumption, noise generation, and high maintenance, which will influence the portable generator demand

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forecast.

## India Portable Generator Industry Segmentation

"India Portable Generator Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

### Market Breakup by Fuel Type

- Gas
- Diesel
- Others

### Market Breakup by Power Rating

- Below 5 kW
- 5-10 kW
- Above 10 kW

### Market Breakup by Application

- Residential
- Commercial
- Industrial
- Infrastructure

### Market Breakup by Region

- North India
- East and Central India
- West India
- South India

## India Portable Generator Market Share

According to the Central Electricity Authority (CEA), 0.14% of the country's total installed capacity constitutes the diesel-based generating capacity, as of November 2023. However, due to frequent power outages across several industries, the demand for diesel portable generators has increased steadily over the last ten years. Thus, diesel generator sets have been essential in maintaining uninterrupted power supply in the business sector. This applies to a variety of industries, including healthcare, restaurants, hotels, IT centers, and banking. The need for mid- to high-horsepower diesel gensets is also predicted to increase in the future due to growth in industries including real estate, data centers, and roadways.

## Leading Companies in India Portable Generator Market

The market players are increasingly using online platforms to increase visibility and stand out from competitors.

- Atlas Copco AB

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- Caterpillar Inc
- Siemens AG
- Cummins Inc.
- Honeywell International Inc.
- Yanmar Holdings Co. Ltd. (Himoinsa S.L.)
- Honda Motor Co. Ltd
- Kohler Co.
- Kirloskar Oil Engines Limited
- Yamaha Corp.
- Mahindra and Mahindra Ltd.
- Others

India Portable Generator Market Report Snapshots

India Portable Generator Market Size

India Portable Generator Market Growth

India Portable Generator Market Share

India Portable Generator Companies

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