

India Portable Generator Market By Power Rating (Below 5kW, 5kW-10kW, and Above 10kW), By Fuel Type (Gasoline, Diesel, Natural Gas, and Other), By Application (Temporary and Primary), By End Use (Residential, Commercial, and Industrial), By Region, Competition Forecast & Opportunities, 2028F

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Abstracts

India Portable Generator market is anticipated to grow at a robust CAGR during the forecast period. A number of factors, such as the expanding demand for energy, the unstable grid infrastructure, the need for solutions for emergency backup power, and the necessity for a steady supply of electricity, are propelling the market for portable generators. Also, the mountainous region's usual power supply is disrupted by extreme weather events, and heavy rain, heat waves, storms, cyclones, and fog in other parts of the country, necessitating the usage of backup power sources. Due to their features, such as long run time and a good fuel capacity, the market for portable generators has risen.

Electricity is produced by portable generators for use in industrial, home, and commercial settings. The applications include generating energy for live commercial events, supplementary power supply, energising equipment at building sites during a power outage, and a number of others. The portable generator, on the other hand, was developed as a backup tool to provide momentary AC power for standalone applications. These generators are assembled as a single unit from a starter, internal combustion engine, fuel tank, alternator, and outlets on a metal frame. Due to their ease of portability and affordability, portable generators are now the most popular choice among customers.

The portable generator provides power momentarily in circumstances when access to electricity is not possible. A portable generator is a type of electrical generator that typically burns gasoline or diesel and calculates power in hours as opposed to days. Portable generators generate energy by the use of a gas-powered engine that turns an internal alternator. These generators are often used to provide temporary, portable electric power at construction sites and outdoor pleasure areas.

The two main product types for portable generators are conventional and inverter generators. The amount of power required to perform a task determines the speed of an inverter portable generator; the more power required, the quicker the engine runs, improving fuel economy. Also, some of these generators have the fixed speed set points, which helps to lessen the frequency with which loads fluctuate as smaller loads come on and off. Portable generators, which are utilized by customers in the residential, commercial, and industrial sectors, are powered by diesel, gas, and other fuels.

Government Initiatives Boost the Market for Portable Generators

The government's initiatives to support the creation and maintenance of robust energy infrastructure are predicted to boost demand for power production systems, which would, in turn, rise the demand for portable generators in the upcoming years. India is predicted to invest USD840 billion on urban infrastructure over the next 15 years, according to a new World Bank analysis released in November 2022. This is due to the country's rapidly expanding urban population. According to the Ministry of New and Renewable Energy, the Union government of India launched the 'National Program on High-Efficiency Solar PV Modules' Production Linked Incentive Scheme in April 2021 with a budget of USD540 million to aid and promote the production of high-efficiency solar PV modules.

Additionally, the Union Government has increased capital expenditure on infrastructure investment by 33%, or USD 130 billion for 2023–2024, which is 3.3% of GDP. It is anticipated that this increase significantly expands the infrastructure market and increases demand for generators on construction sites to provide a steady supply of electricity.

As a consequence of increased demand from several sectors, such as mining, oil and gas, and pharmaceuticals, the market for portable generators is predicted to grow throughout the course of the projected period. Generators are used as supplemental power sources in a variety of industrial activities. Generators are the only source of power where there is no grid infrastructure. For instance, because the majority of mining

sites are located in remote places, generators are required to supply them with the daily electricity they require. For instance, the mining sector in India is anticipated to register a CAGR of 4.63% and reach USD126 billion in 2022. The union government has also launched several initiatives, with a focus on the infrastructure industry in both urban and rural regions, including Homes for All, Pradhan Mantri Awas Yojana, Made in India, and Pradhan Mantri Gati Shakti Master Plan, among others.

In December 2021, India's Ministry of Road Transport and Highways (MoRTH) announced investments in infrastructure projects totalling USD92.4 billion. It is anticipated that the sector will grow as a result of the government's goal to significantly increase the supply of affordable housing units for low- and middle-income cohorts under the 'Housing for Everyone' programme by 2022.

The 'Pradhan Mantri Gati Shakti Master Plan' is expected to provide finance for the construction industry, which is anticipated to grow by 6.2% a year between 2023 and 2026. The National Infrastructure Pipeline (NIP), which would cost USD1.5 trillion between FY 2020 and FY 2025, also boosts the production of the sector (April 2019 to March 2025).

The government launched the National Monetization Pipeline (NMP) in August 2021 to raise additional money for infrastructure projects. The idea focuses on getting financing from the private sector and using the revenues to build new infrastructure projects by leasing out state-owned infrastructure facilities between FY2021–20 and FY2024–25. With an anticipated USD552 million investments, the government hopes to complete 23 new highway and motorway projects by FY2024–25, which would aid in boosting growth throughout the predicted period.

Additionally, as part of the SagarMala project, the government also plans to invest USD82 billion in port infrastructure and modernization projects between 2015 and 2035 therefore, to provide continuous electricity on the construction site, the market for portable generator is expected to rise. Therefore, the above-mentioned factors reflect the rising market growth with the largest market share of portable generators across the country during 2024-2028F.

Growth in Demand for Natural Fuel Sources

With the development of strict environmental regulations to control the emission of hazardous gases from diesel generators in developed regions, for instance, in India, the union government has released a notification stating that ' Specifically in metro areas

and cities with a population of 1.00.000 people or more, pollution levels have been growing. According to the distribution licensee, all consumers must get a continuous 24x7 supply of electricity. so that the diesel generator is not needed to be functioning. That is why natural gas-powered generators are becoming more and more common.

Rise in Awareness

Portable generators are becoming more and more well-liked among end users, including homeowners, event organizers, outside service providers, and others. The market for portable generators is rising as more people find themselves in need of energy backup during blackouts, convenient power storage for camping, and prolonged outdoor activities in remote regions. Several significant market participants advertise commercial events with their broad product categories.

Market Segmentation

The India Portable Generator market is divided into Power Rating, Fuel Type, Application and End Use, Region and Competitive Landscape. Based on power rating, the market is segmented into Below 5kW, 5kW-10kW, and Above 10kW. Based on fuel type the market is segmented into Gasoline, Diesel, Natural Gas, and Other. Based on application, the market is segmented into temporary and primary. The market is segmented as residential, commercial and industrial based on end use.

Company Profiles

Honda Siel Power Products Limited, Kirloskar Oil Engines Ltd. (KOEL), Mahindra Powerol Limited, Kohler Power India Private Limited, Greaves Cotton Limited, Atlas Copco (India) Limited, Himalayan Power Machines Mfg Co, Generac Power Systems Inc, Perfect House Pvt. Ltd, Yamaha Motor Co., Ltd, Mitsubishi Power India Private Limited, and Cummins India Limited are among the major players that are driving the growth of the India Portable Generator market.

Report Scope:

In this report, the India portable generator market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Portable Generator Market, By Power Rating:

India Portable Generator Market By Power Rating (Below 5kW, 5kW-10kW, and Above 10kW), By Fuel Type (Gasoline,...

Below 5kW

5kW-10kW

Above 10kW

India Portable Generator Market, By Fuel Type:

Gasoline

Diesel

Natural Gas

Others

India Portable Generator Market, By Application:

Temporary

Primary

India Portable Generator Market, By End Use:

Residential

Commercial

Industrial

India Portable Generator Market, By Region:

North

South

West

East

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Portable Generator market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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Detailed analysis and profiling of additional market players (up to five).

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The data given for any year represents the market during the period, i.e., 1st April of the former year to 31st March of the latter year. Eg: For FY2023E, the data represents the period, from 1st April 2022 to 31st March 2023.

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