

Mobile Power Generation Equipment Rentals Market Size, Share & Trends Analysis Report By Application (Enterprise, Personal), By Type (Generator, Turbine), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Mobile Power Generation Equipment Rentals Market Growth & Trends

The global mobile power generation equipment rentals market size is anticipated to reach USD 8,906.29 million by 2030 and is projected to grow at a CAGR of 6.6% from 2025 to 2030, according to a new report by Grand View Research, Inc. The market is driven by the increasing demand for flexible, reliable, and temporary power solutions across industries such as construction, oil & gas, events, and emergency response. The rapid growth of infrastructure development, particularly in emerging economies, and the need for power in remote and off-grid locations are key factors fueling market expansion. In addition, the rising frequency of natural disasters and power outages has heightened the demand for mobile power generation equipment to ensure uninterrupted operations during emergencies.

The integration of renewable energy sources, such as solar and hybrid generators, is also a significant driver of market growth. As industries and governments worldwide prioritize sustainability, the adoption of cleaner and more efficient mobile power solutions is increasing. Technological advancements, such as IoT-enabled monitoring and predictive maintenance, are enhancing the efficiency and reliability of rental equipment, further boosting market demand. Government initiatives aimed at modernizing power infrastructure and promoting clean energy solutions are also contributing to the market's growth, making mobile power generation equipment

rentals a critical component of the global energy landscape.

Industries with high power demands, such as construction, manufacturing, and healthcare, rely heavily on mobile power generation equipment to meet their temporary and backup power needs. The flexibility and cost-effectiveness of renting equipment, as opposed to purchasing, make it an attractive option for businesses. Furthermore, stringent environmental regulations and the push for energy efficiency are driving the adoption of advanced rental solutions, such as low-emission and fuel-efficient generators. These factors, combined with the growing focus on energy security and sustainability, underscore the increasing importance of mobile power generation equipment rentals in supporting modern industrial and commercial operations.

Mobile Power Generation Equipment Rentals Market Report Highlights

Based on application, the enterprise segment led the market with the largest revenue share of 61.83% in 2024.

Based on type, the generator segment led the market with the largest revenue share of 63.70% in 2024. Generators are widely used across industries due to their versatility and reliability. Their dominance is driven by high demand in construction, oil & gas, and emergency power applications.

North America is the dominant market with the largest revenue share of 39.71% in 2024. This dominance is driven by high demand from construction, oil & gas, and disaster recovery sectors. Frequent natural disasters and power outages further boost the need for rental power solutions. The region's advanced infrastructure and strong industrial base also contribute to market growth.

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