

# **Residential Gas Generator Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Portable, Stationary), By Power Range (0-100kVA, 101-350kVA), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Residential Gas Generator Market is projected to expand from USD 948.34 Million in 2025 to USD 1663.61 Million by 2031, achieving a CAGR of 9.82%. These systems, which operate on liquid propane or natural gas, serve as stationary standby power sources that automatically restore electricity to homes during utility failures. The market's growth is largely driven by the declining state of aging public grid infrastructure and an increase in severe weather incidents, which necessitate immediate energy security for homeowners. Furthermore, the extensive shift toward remote work has intensified the need for consistent residential power to maintain connectivity. Data from the Edison Electric Institute indicates that in 2024, annual electricity generation in the United States rose by 3 percent to roughly 4.3 million gigawatt hours, highlighting the growing load pressures that destabilize utility networks and fuel the demand for backup solutions.

Despite these growth factors, the market encounters significant hurdles related to strict environmental mandates and installation complexities. Many regions are enforcing rigorous emissions standards to decarbonize their energy sectors, creating compliance challenges for backup systems dependent on fossil fuels. As a result, manufacturers face the difficulty of navigating these changing regulatory environments while trying to keep product prices affordable, which presents a substantial barrier to wider adoption in areas with stringent environmental protections.

## **Market Driver**

The increasing frequency of severe weather events acts as the primary driver for the residential gas generator market, as homeowners seek greater energy resilience against volatile climate conditions. Extreme weather often disrupts utility services, creating a need for reliable on-site power sources fueled by continuous natural gas lines to ensure safety and comfort. According to the National Oceanic and Atmospheric Administration's May 2024 update on 'U.S. Billion-Dollar Weather and Climate Disasters,' the United States experienced 11 separate weather disasters in the first four months of the year alone, underscoring the instability driving backup power requirements. This unpredictability directly stimulates market growth; for instance, Generac Holdings Inc. reported a 28 percent increase in residential product sales during the third quarter of 2024, attributed to aggressive outage activity and the correlation between environmental risks and consumer purchasing behavior.

Additionally, the deterioration of aging utility grid infrastructure accelerates adoption, as public networks struggle to remain stable under modern load demands. Legacy transmission systems frequently fail during peak usage periods, causing service interruptions that encourage a shift toward decentralized energy solutions. Homeowners are becoming less willing to rely solely on centralized utilities that show vulnerability during critical times. In its '2024 Summer Reliability Assessment' published in May 2024, the North American Electric Reliability Corporation identified seven distinct regions across North America at elevated risk of electricity supply shortfalls, reinforcing concerns about grid reliability. Consequently, the market is expanding as households seek a safety net and independence from an increasingly fragile public power grid.

## **Market Challenge**

Strict environmental regulations and the associated complexities of installation pose a major obstacle to the growth of the Global Residential Gas Generator Market. Governments around the world are aggressively passing legislation to reduce carbon footprints, which directly impacts the viability of fossil-fuel-based backup power. Manufacturers are consequently compelled to divert significant capital toward research and development to engineer cleaner-burning engines that comply with these evolving standards. This need for continuous compliance innovation drives up production costs, which must inevitably be passed on to the consumer, thereby reducing the affordability and mass appeal of these systems in price-sensitive market segments.

Moreover, the rigorous certification processes required to prove environmental adherence cause significant delays in product launches. The industry faces immense

pressure to demonstrate substantial efficiency gains to justify the continued use of gas generators amidst a global push for electrification. According to 2024 data from the Propane Education & Research Council's construction research program, utilizing propane-powered systems resulted in an average carbon dioxide emissions reduction of 35 percent. While such metrics highlight the sector's technical capability to mitigate environmental impact, the escalating stringency of emissions mandates continues to complicate installation logistics and restrict market access, ultimately throttling broader industry growth.

## **Market Trends**

The rise of Virtual Power Plant (VPP) compatibility is fundamentally changing the economic model of the residential gas generator market, turning units from passive standby assets into active grid resources. Manufacturers are increasingly designing systems with software that enables utilities to aggregate and dispatch distributed generators during peak demand periods, compensating homeowners for helping to stabilize the network. This evolution is being accelerated by a favorable legislative environment aimed at encouraging the use of distributed energy resources for grid reliability. As noted by the Smart Electric Power Alliance in their February 2025 report, 'The 50 States of Virtual Power Plants and Supporting Distributed Energy Resources,' state policymakers enacted 105 distinct policy actions in 2024 to facilitate the deployment of virtual power plant technologies, directly enabling the integration of residential backup systems into broader utility operations.

At the same time, the integration of gas generators with smart home automation ecosystems is redefining how consumers manage residential energy resilience. Modern units now function as connected IoT devices that communicate seamlessly with smart thermostats, energy monitors, and automatic transfer switches to optimize load prioritization and fuel efficiency during outages. This connectivity permits centralized control via mobile applications, allowing users to oversee their entire energy profile from a single interface rather than managing the generator in isolation. In its '2024 Sustainability and Impact Report' released in April 2025, Generac Power Systems revealed that its smart home energy management subsidiary had surpassed 5 million connected devices, highlighting the massive digital infrastructure that residential generators are now leveraging to deliver intelligent, synchronized power solutions.

## **Key Market Players**

Generac Power Systems, Inc.

Kohler Co.

Briggs & Stratton Corporation

Cummins Inc.

Westinghouse Electric Corporation

Honeywell International Inc.

Champion Power Equipment, Inc.

DuroMax Power Equipment

Generac Mobile Products LLC

A-iPower

## **Report Scope**

In this report, the Global Residential Gas Generator Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Residential Gas Generator Market, By Type

Portable

Stationary

Residential Gas Generator Market, By Power Range

0-100kVA

101-350kVA

Residential Gas Generator Market, By Region

## North America

United States

Canada

Mexico

## Europe

France

United Kingdom

Italy

Germany

Spain

## Asia Pacific

China

India

Japan

Australia

South Korea

## South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

### **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Residential Gas Generator Market.

### **Available Customizations:**

Global Residential Gas Generator Market report 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:

### **Company Information**

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

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