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Global Aircraft Generators Market Size study & Forecast, by Aircraft Type, Generator Type, Capacity Range, Application and Regional Forecasts 2025-2035

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Abstracts

The Global Aircraft Generators Market is valued approximately at USD 3.39 billion in 2024 and is anticipated to grow with a steady compound annual growth rate of 4.49% over the forecast period 2025-2035. Aircraft generators play a critical role in modern aviation by supplying electrical power required to operate avionics, lighting systems, environmental controls, and communication equipment. These systems are engineered to meet rigorous performance standards, ensuring consistent power generation under high-altitude and extreme-weather conditions. The surge in aircraft fleet modernization, growing demand for lightweight and fuel-efficient power systems, and increased adoption of electric propulsion in aviation are some of the key forces propelling the global aircraft generators market forward. Furthermore, defense and commercial aviation sectors alike are embracing more power-dense and technologically advanced generator systems to reduce operational costs and enhance mission capabilities.

The global focus on electrification in aviation has catalyzed significant R&D investments in hybrid and all-electric aircraft platforms. As industry stakeholders pivot toward electric aircraft architectures to meet sustainability goals, there is a heightened need for compact and high-capacity generator solutions. Hybrid generators, in particular, have captured industry interest due to their ability to provide auxiliary and backup power in both rotary and fixed-wing platforms. Moreover, advances in turbine-engine integration and power electronics are enabling next-generation generator systems that support real-time energy management and reduce dependency on fossil fuels. The growing emphasis on redundancy and system reliability in long-haul and military aircraft further underscores the importance of robust generator solutions tailored for diverse operational environments.

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Regionally, North America continues to dominate the aircraft generators market, underpinned by a strong defense aviation base, aggressive fleet renewal programs, and the presence of key aerospace OEMs such as Boeing and Lockheed Martin. The U.S. market is buoyed by continuous investments in defense modernization and innovation in electric propulsion systems. Meanwhile, Europe is embracing the electrification trend with initiatives like Clean Sky and Flightpath 2050, fostering innovation in hybrid-electric aircraft technologies. Asia Pacific is projected to exhibit the fastest growth rate through 2035, fueled by booming air passenger traffic, burgeoning defense budgets, and government-led aerospace expansion programs in countries like China, India, and Japan. These nations are increasingly investing in indigenous aircraft development and infrastructure to support next-gen power systems.

Major market player included in this report are:

Honeywell International Inc.

Safran SA

Raytheon Technologies Corporation

GE Aviation

Rolls-Royce Holdings plc

Thales Group

AMETEK Inc.

Meggitt PLC

Avionics Instruments LLC

BAE Systems plc

Skurka Aerospace Inc.

Astronics Corporation

Electro Enterprises Inc.

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Collins Aerospace

PBS Velk? B?te?

Global Aircraft Generators Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Aircraft Type:

Fixed-Wing Aircraft

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Rotary-Wing Aircraft

Unmanned Aerial Vehicles (UAVs)

By Generator Type:

AC Generators

DC Generators

Hybrid Generators

By Capacity Range:

Low Capacity (up to 500 kVA)

Medium Capacity (500–1,500 kVA)

High Capacity (above 1,500 kVA)

By Application:

Power Generation

Auxiliary Power

Emergency Power

By Region:

North America

U.S.

Canada

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Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

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Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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