

Global Hybrid Electric Aircraft Market Size study, by Platform (Commercial Aircraft, Military Aircraft, Business Jets, Urban Air Mobility), by Operation (Pilot Operated, Autonomous), by Engine Configuration (Turbine Engine with Electric Motor, Piston Engine with Electric Motor), by Component (Aerostructures, Engine, Avionics, Electric Motor, Batteries & Fuel Cells, Generator, Others), by Lift Technology (CTOL, STOL, VTOL) and Regional Forecasts 2022-2032

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Abstracts

Global Hybrid Electric Aircraft Market is valued at approximately USD 2.80 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 21.5% over the forecast period 2024-2032. Hybrid electric aircraft represents a groundbreaking advancement in the aviation sector, combining traditional aviation fuel with electric power to enhance efficiency and minimize environmental impact. These aircraft utilize a hybrid electric powertrain, integrating lithium-ion batteries with traditional fuel sources, thereby extending flight range compared to purely electric aircraft. Hybrid electric aircraft significantly reduce fuel consumption and emissions by incorporating electric propulsion systems, presenting a more sustainable aviation alternative. This innovation not only enhances fuel efficiency but also decreases noise levels, making these aircraft more environmentally friendly and suitable for the future aviation landscape.

The push for environmentally friendly aviation solutions and the growing necessity to curb carbon emissions are significant drivers of the hybrid electric aircraft market's expansion. Hybrid aircraft provide a means to lower the carbon footprint of air travel and reduce fuel costs, aligning with the industry's commitment to environmental

responsibility. Additionally, technological advancements are improving the feasibility and performance of hybrid aircraft, increasing their appeal for both commercial and military applications. The market is further bolstered by stringent environmental regulations, rising fuel costs, and a global shift towards eco-friendly transportation options, prompting the aviation sector to adopt hybrid aircraft. In essence, the convergence of environmental concerns, technological progress, and the operational advantages of hybrid aircraft is propelling market growth in this domain. Moreover, the emergence of urban air mobility, the replacement of conventional aircraft with sustainable aircraft and increasing demand for shuttle services and air taxis present various lucrative opportunities over the forecast years. However, the market faces challenges due to the lack of infrastructure support and stringent regulations and certifications for airworthiness.

The key regions considered for the Global Hybrid Electric Aircraft Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Global Hybrid Electric Aircraft Market in terms of revenue. The market growth in the region is being attributed to factors including the presence of leading aerospace companies, extensive investments in research and development, and strong governmental support for sustainable aviation initiatives. The region's established aviation infrastructure and technological advancements also contribute significantly to its leadership position in the market. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by increasing air travel demand, rising environmental concerns, and substantial investments in green aviation technologies by countries like China, Japan, and India. The region's expanding aerospace industry and favorable regulatory policies further fuel the growth of hybrid electric aircraft in Asia-Pacific, making it a key area of focus for future market expansion.

Major market players included in this report are:

- Aura Aero (France)
- Electra Aero Inc. (U.S.)
- Embraer S.A. (Brazil)
- Heart Aerospace (Sweden)
- Honeywell International Inc. (U.S.)
- Joby Aviation, Inc. (U.S.)
- Lockheed Martin Corporation (U.S.)
- Northrop Grumman Corporation (U.S.)
- PIPISTREL (Textron Aviation) (U.S.)
- The Boeing Company (U.S.)

Airbus SE (Netherlands)
Ampaire Inc. (U.S.)
Archer Aviation Inc. (U.S.)
Siemens AG
Eviation Aircraft Ltd.

The detailed segments and sub-segment of the market are explained below:

By Platform

Commercial Aircraft
Military Aircraft
Business Jets
Urban Air Mobility

By Operation

Pilot Operated
Autonomous

By Engine Configuration

Turbine Engine with Electric Motor
Piston Engine with Electric Motor

By Component

Aerostructures
Engine
Avionics
Electric Motor
Batteries & Fuel Cells
Generator
Others

By Lift Technology

CTOL
STOL
VTOL

By Region:

North America
U.S.
Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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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