

Hybrid Aircraft Market to Expand at a 21.5% CAGR by 2029, Reaching US \$4.2 Billion

The Business Research Company's Hybrid Aircraft Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, November 12, 2025

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How Much Is The Hybrid Aircraft Market Worth?

In recent times, the [size of the hybrid aircraft market](#) has witnessed massive growth. The market

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which was valued at \$1.59 billion in 2024, will escalate to \$1.93 billion in 2025, marking a compound annual growth rate (CAGR) of 21.5%. The expansion during the historic period can be associated with the escalating focus on curtailing carbon emissions, soaring fuel costs, the burgeoning demand for environmentally-friendly aviation solutions, governmental policies endorsing green aviation, advancements in battery storage capabilities, and the burgeoning requirement for cost-effective long-distance air travel alternatives.

The market size of the hybrid aircraft is projected to witness a significant surge over the coming years, escalating to a worth of \$4.2 billion by 2029 with a compound annual growth rate (CAGR) of 21.4%. Such growth in the estimated period can be linked to enhancements in hydrogen fuel cells, escalating usage of urban air mobility (UAM), heightened investments in aerospace research and development, an increase in geopolitical tensions, and a heightened emphasis on eco-friendly aviation solutions. Key trends anticipated in the forecast period incorporate the incorporation of hydrogen fuel cells, technological progress in electric propulsion technology, the implementation of electric propulsion technologies, growing collaborations, and the incorporation of vertical take-off and landing (VTOL).

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What Are The Factors Driving The Hybrid Aircraft Market?

The surge in air travel demand is set to drive the expansion of the hybrid aircraft market. Air travel, which comprises various modes of transportation such as commercial airlines, private jets, helicopters, and cargo planes, is focused on moving people or goods through the sky. Factors such as a ballooning middle class, low-cost carrier expansion, enhanced connectivity, technological breakthroughs, urbanization, improved airport facilities, and a robust rebound in business and leisure travel post-pandemic are contributing to the rise in air travel. Hybrid aircraft are beneficial for air travel as they blend conventional fuel engines with electric propulsion, leading to reduced emissions, decreased fuel expenses, and boosted operational efficiency in various uses, including regional flights, urban air mobility, and cargo transport. For example, the US Bureau of Transportation Statistics reported in August 2023 that US airline traffic rose by 8.4% YoY, accommodating 83.1 million passengers, of which 71.5 million were domestic and 11.6 million were international. Additionally, in 2022, the Canada-based International Air Transport Association reported that the total number of air travelers was 83% of the pre-pandemic level and reached 94% in 2023. Therefore, the upswing in air travel demand is fostering the development of the hybrid aircraft market.

Who Are The Major Players In The Hybrid Aircraft Market?

Major players in the Hybrid Aircraft Global Market Report 2025 include:

- The Boeing Company
- Airbus SE
- RTX Corporation
- GE Aerospace
- Honeywell International Inc.
- BAE Systems plc
- Rolls-Royce Holdings plc
- Amptek Inc.
- Elbit Systems Ltd.
- Embraer S.A.

What Are The Key Trends And Market Opportunities In The Hybrid Aircraft Sector?

Major firms engaged in the hybrid aircraft industry are placing a premium on establishing strategic alliances to gain a market advantage. Such partnerships in the hybrid aircraft industry catalyze innovation, bolster tech skills, lower research and development expenses, and boost market acceptance. For instance, UK-based regional airline Loganair teamed up with Heart Aerospace, an electric aircraft specialist from Europe, in September 2024 to progress hybrid-electric aviation. This alliance grants Loganair access to groundbreaking technology and reaps the benefits of Heart Aerospace's expertise in electric aviation, which could markedly enhance operational effectiveness and flight performance. By taking the lead in implementing electric planes on regional routes, Loganair can fortify its competitive standing, draw in new clients, and

grow its market footprint, all while promoting the wider shift towards eco-friendly aviation solutions.

Which [Segment Accounted For The Largest Hybrid Aircraft](#) Market Share?

The hybrid aircraft market covered in this report is segmented –

- 1) By Aircraft Type: Business Jets And Light Aircrafts, Unmanned Aerial Vehicles (UAVs) And Advanced Air Mobility (AAM), Regional Transport Aircraft
- 2) By Lift Technology: Conventional Takeoff And Landing, Short Takeoff And Landing, Vertical Takeoff And Landing
- 3) By Mode Of Operation: Piloted, Autonomous
- 4) By Application: Commercial Tours, Surveillance, Research, Cargo Transport, Other Applications

Subsegments:

- 1) By Business Jets and Light Aircrafts: Hybrid Light Jets, Hybrid Very Light Jets, Hybrid Piston Aircraft, Hybrid Turboprop Aircraft
- 2) By Unmanned Aerial Vehicles (UAVs) and Advanced Air Mobility (AAM): Hybrid Fixed-Wing UAVs, Hybrid Rotary-Wing UAVs, Hybrid eVTOL Aircraft, Hybrid Cargo Drones
- 3) By Regional Transport Aircraft: Hybrid Regional Jets, Hybrid Turboprop Regional Aircraft, Hybrid Short-Haul Aircraft, Hybrid Commuter Aircraft

View the full hybrid aircraft market report:

<https://www.thebusinessresearchcompany.com/report/hybrid-aircraft-global-market-report>

What Are The Regional Trends In The Hybrid Aircraft Market?

In terms of the Hybrid Aircraft Global Market Report 2025, Europe held the foremost position in 2024. The report includes growth projections and details for various regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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