

A Comprehensive Look at the Hydrogen Aircraft Market expected to Reach \$144.53 Billion by 2040

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/EINPresswire.com/ -- As per the report published by Allied Market Research, the global [hydrogen aircraft market](#) is estimated to be valued at \$23.71 billion in 2030, and is estimated to reach \$144.53 billion by 2040, witnessing a CAGR of 20.5% from 2030 to 2040. The report offers a detailed analysis of changing market trends, top segments, key investment pockets, value chain, regional landscape, and competitive scenario.



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A hydrogen aircraft is an airplane that makes use of hydrogen (liquid or gas) as a power source. Hydrogen energy can be harnessed in two ways for a hydrogen aircraft. It can either be burned in a jet engine or other sorts of internal combustion engines, or it can be used to power a fuel cell to generate electricity to power propeller of aircraft. Apart from aircraft propulsion, hydrogen can be used to power all flight and communication systems in the cockpit, while ensuring passenger comfort by powering lighting, heating, and all on-board services, including catering and refrigeration.

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□□□□□ □□ □□□□□□□□ □□□□□□□□□□, the less than 100 segment is estimated to account for the largest share in 2030, contributing to nearly four-fifths of the total share, and is estimated to continue its lead position throughout the forecast period. However, the 101 to 200 segment is

expected to register the fastest CAGR of 23.1% from 2030 to 2040.

Figure 10.10, the passenger aircraft segment held the largest share in 2030, contributing to around 89% of [the total share of the global hydrogen aircraft market](#), and is projected to maintain its dominant share during the forecast period. However, the cargo aircraft segment is estimated to witness the largest **growth rate of 10.0%** from 2030 to 2040.

Europe contributed to the highest share in 2030, accounting for more than half of the total share, and is expected to maintain its lead position in terms of revenue by 2040. However, Asia-Pacific is estimated to portray the fastest growth of 10.5% during the forecast period.

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The factors such as high suitability of hydrogen as the aviation fuel and reduced greenhouse gas emissions are expected to drive growth of the global hydrogen aircraft market during the forecast period. However, high costs associated with the production and handling of hydrogen is anticipated to obstruct the market growth during the forecast timeline. Furthermore, developing green hydrogen ecosystem, proactive government initiatives toward hydrogen powered aircraft, and growth in infrastructural development for hydrogen across the globe offer future growth opportunities for the market.

The companies profiled in the global hydrogen aircraft market report are Airbus, Boeing, Bombardier, GE Aviation, Safran, and Pratt & Whitney. The report also covers the development of hydrogen aircraft, the challenges of hydrogen storage and distribution, and the regulatory environment. The report is a comprehensive overview of the global hydrogen aircraft market, providing a detailed analysis of the market's current state and future prospects. The report is a valuable resource for industry professionals, investors, and policymakers.

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□□By passenger capacity, the 101 to 200 segment is expected to register a significant growth during the forecast period.

□□By range, the short haul (<1,000 Km) segment dominated the global hydrogen aircraft market in 2030, in terms of revenue

□□By application, the cargo aircraft segment is expected to register a significant growth during the forecast period, owing to the highest CAGR.

□□By power source, the hybrid [electric aircraft segment dominated the global hydrogen aircraft market](#) in 2030, in terms of revenue

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<https://www.alliedmarketresearch.com/zero-emission-aircraft-market-A11848> - Global Opportunity Analysis and Industry Forecast, 2030-2040

<https://www.alliedmarketresearch.com/zero-emission-vehicle-market> - Global Opportunity Analysis and Industry Forecast, 2021-2031

<https://www.alliedmarketresearch.com/hydrogen-vehicle-market> - Global Opportunity Analysis and Industry Forecast, 2023-2032

<https://www.alliedmarketresearch.com/hydrogen-powered-engine-market-A07807> - Global Opportunity Analysis and Industry Forecast, 2030-2040

<https://www.alliedmarketresearch.com/hydrogen-fuel-cell-vehicle-market> - Global Opportunity Analysis and Industry Forecast, 2023-2032

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