

# Zero-Emission Aircraft Market Updates : Projected to Exhibit USD 191.97 Billion Revenue by 2040, Claims AMR

*By application, the cargo aircraft segment is projected to lead the global zero-emission aircraft market, owing to higher its CAGR*

WILMINGTON, DE, UNITED STATES, October 18, 2024 /EINPresswire.com/ -- According to the



The global zero-emission aircraft industry is estimated at \$29.24 billion in 2030, and is anticipated to hit \$191.97 billion by 2040, registering a CAGR of 20.7% from 2030 to 2040."

*Allied Market Research*

report, the global [zero-emission aircraft industry](#) is estimated at \$29.24 billion in 2030, and is anticipated to hit \$191.97 billion by 2040, registering a CAGR of 20.7% from 2030 to 2040. Surge in air passenger traffic and reduced GHG emissions across the globe drive the growth of the global [zero-emission aircraft](#) market. On the other hand, technological challenges and high costs associated with solar, electric, and hydrogen-powered aircrafts restrain the growth to some extent. However, proactive government initiatives toward zero-emission powered aircrafts and advancements in zero-emission [aircraft](#) technologies are

expected to create multiple opportunities in the industry.

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By Propulsion Type:

**Hydrogen Fuel Cell Aircraft:** These aircraft use hydrogen as a primary fuel source, converting it into electricity to power the propulsion system. They produce only water as a by-product.

**Battery-Electric Aircraft:** These planes are powered by electricity stored in batteries, similar to electric vehicles, with no emissions during flight.

**Hybrid-Electric Aircraft:** Combines electric propulsion with conventional engines, reducing emissions significantly compared to traditional aircraft.

By Aircraft Type:

**Fixed-Wing Aircraft:** Includes commercial, regional, and private jets that use zero-emission

technologies for medium- to long-distance travel.

**Rotorcraft:** Helicopters and similar aircraft that utilize electric or hydrogen fuel cell propulsion systems.

**Urban Air Mobility (UAM) Vehicles:** Electric vertical takeoff and landing (eVTOL) aircraft designed for short-distance urban transportation.

**By Range:**

**Short-Haul:** Aircraft designed for short-range flights (less than 500 km), suitable for regional travel.

**Medium-Haul:** Aircraft with a range between 500 to 1,500 km, catering to domestic flights.

**Long-Haul:** Future developments in long-range zero-emission aircraft, aimed at intercontinental travel.

### Market Drivers

**Environmental Regulations:** Governments and regulatory bodies are imposing strict emissions standards on the aviation industry, encouraging the development of zero-emission solutions.

**Rising Fuel Costs:** Fluctuating fossil fuel prices drive airlines to seek alternative, more stable energy sources like electricity or hydrogen.

**Technological Advancements:** Innovations in battery technology, fuel cells, and lightweight materials are making zero-emission aircraft more viable.

**Public and Industry Support:** Increasing consumer awareness and demand for sustainable travel options are pushing airlines and manufacturers to invest in green technologies.

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<https://www.alliedmarketresearch.com/zero-emission-aircraft-market/purchase-options>

### Leading Companies in the Market

Airbus

ZeroAvia

Wright Electric

Rolls-Royce Holdings

MagniX

Universal Hydrogen

### Trends

**Hydrogen-Powered Aircraft Development:** Major aerospace companies like Airbus are exploring hydrogen as a sustainable fuel alternative due to its potential to power long-haul flights with zero emissions.

**eVTOL and Urban Air Mobility Growth:** The rise of eVTOL aircraft is driving investment in urban air mobility, providing a green solution for urban transportation needs.

**Government Initiatives and Funding:** Governments worldwide are supporting the transition to zero-emission aircraft through funding, tax incentives, and research grants.

**Partnerships and Collaborations:** Increased collaboration among aviation companies, technology

