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# Global Hydrogen eTVOL Market Growth (Status and Outlook) 2025-2031

https://marketpublishers.com/r/GB72918744A9EN.html
Date: March 2025
Pages: 99
Price: US$ 3,660.00 (Single User License)
ID: GB72918744A9EN

## Abstracts

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According to this study, the global Hydrogen eTVOL market size will reach US$ 292 million by 2031.

The hydrogen electric vertical take-off and landing?eVTOL?aircraft is a low-altitude aircraft that uses hydrogen fuel cells as its power source. It efficiently converts the chemical energy of hydrogen into electrical energy through the hydrogen fuel cell, thereby driving the drone to fly. Compared with traditional fuel-powered drones and lithium-battery drones, hydrogen-powered drones have significant advantages, including long endurance, environmental protection and high energy replenishment speed.

Hydrogen fuel cells have high energy density, long endurance, and zero emissions, making them very suitable for eVTOL (electric vertical take-off and landing aircraft) applications. In recent years, the efficiency, durability and safety of hydrogen fuel cells have been significantly improved, laying the foundation for the development of hydrogen eVTOLs.At present, the regional markets are concentrated in North America, Europe and Asia-Pacific: North America has leading technology and a vast market, while Europe is growing rapidly and has strong policy support. Asia-Pacific, especially China and Japan, has strong market demand and significant technological progress. Many companies in the three major regions have launched hydrogen eVTOL prototypes and successfully tested them. For example, the hydrogen fuel cell eVTOL developed by the German company H2Fly has completed multiple test flights, verifying its technical feasibility. The American company Joby completed the first flight of the 2.5-ton water-cooled liquid hydrogen-powered tilt-wing eVTOL S4. Beijing Jiaqing, Dream Chaser Sky, Tongchen Heguang cooperated to complete the flight verification of China's first

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1-ton hybrid tilt-wing eVTOL equipped with a liquid hydrogen fuel cell.Hydrogen eVTOL is in a rapid development stage and is expected to be commercialized in the next decade and become an important part of urban air transportation and green aviation. The further improvement of hydrogen storage technology, the safety of hydrogen fuel cells, and hybrid power systems, and the development of corresponding infrastructure such as hydrogenation networks and hydrogen storage technology will promote the rapid development of eVTOL.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrogen eTVOL market by product type, application, key players and key regions and countries.

Segmentation by Type:

Multi-Rotor

Composite Wing

Tilt Rotor

Tilt Duct

Segmentation by Application:

Logistics

Medical

Travel

Emergency

This report also splits the market by region:

United States

China

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- Europe
- Other regions
  - Japan
  - South Korea
  - Southeast Asia
  - Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

- Victrex
- Solvay
- Evonik
- Zypeek
- Kingfa
- Jusep
- H2Fly
- Joby
- Alaka'i

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