

Global Hydrogen eVTOL Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global Hydrogen eVTOL market size will reach USD 301 million in 2031, growing at a CAGR of 4.9% over the analysis period.

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 Huguang cooperated to complete the flight verification of China's first 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.

The Hydrogen eVTOL market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

Hydrogen eVTOL market is split by Type and by Application. For the period 2025-2031, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type, covers

Multi-Rotor

Composite Wing

Tilt Rotor

Tilt Duct

Others

Market segment by Application, can be divided into

Logistics

Medical

Travel

Emergency

Others

Market segment by players, this report covers

Victrex

Solvay

Evonik

Zypeek

Kingfa

Jusep

H2Fly

Joby

Alaka'i

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific

South America

Middle East & Africa

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Hydrogen eVTOL
- 1.2 Classification of Hydrogen eVTOL by Type
 - 1.2.1 Overview: Global Hydrogen eVTOL Market Size by Type: 2025 Versus 2031
 - 1.2.2 Global Hydrogen eVTOL Revenue Market Share by Type in 2031
 - 1.2.3 Multi-Rotor
 - 1.2.4 Composite Wing
 - 1.2.5 Tilt Rotor
 - 1.2.6 Tilt Duct
 - 1.2.7 Others
- 1.3 Global Hydrogen eVTOL Market by Application
 - 1.3.1 Overview: Global Hydrogen eVTOL Market Size by Application: 2025 Versus 2031
 - 1.3.2 Logistics
 - 1.3.3 Medical
 - 1.3.4 Travel
 - 1.3.5 Emergency
 - 1.3.6 Others
- 1.4 Global Hydrogen eVTOL Market Size & Forecast
- 1.5 Market Drivers, Restraints and Trends
 - 1.5.1 Hydrogen eVTOL Market Drivers
 - 1.5.2 Hydrogen eVTOL Market Restraints
 - 1.5.3 Hydrogen eVTOL Trends Analysis

2 COMPANY PROFILES

- 2.1 Victrex
 - 2.1.1 Victrex Details
 - 2.1.2 Victrex Major Business
 - 2.1.3 Victrex Hydrogen eVTOL Product and Solutions
 - 2.1.4 Victrex Recent Developments and Future Plans
- 2.2 Solvay
 - 2.2.1 Solvay Details
 - 2.2.2 Solvay Major Business
 - 2.2.3 Solvay Hydrogen eVTOL Product and Solutions
 - 2.2.4 Solvay Recent Developments and Future Plans

2.3 Evonik

2.3.1 Evonik Details

2.3.2 Evonik Major Business

2.3.3 Evonik Hydrogen eVTOL Product and Solutions

2.3.4 Evonik Recent Developments and Future Plans

2.4 Zypeek

2.4.1 Zypeek Details

2.4.2 Zypeek Major Business

2.4.3 Zypeek Hydrogen eVTOL Product and Solutions

2.4.4 Zypeek Recent Developments and Future Plans

2.5 Kingfa

2.5.1 Kingfa Details

2.5.2 Kingfa Major Business

2.5.3 Kingfa Hydrogen eVTOL Product and Solutions

2.5.4 Kingfa Recent Developments and Future Plans

2.6 Jusep

2.6.1 Jusep Details

2.6.2 Jusep Major Business

2.6.3 Jusep Hydrogen eVTOL Product and Solutions

2.6.4 Jusep Recent Developments and Future Plans

2.7 H2Fly

2.7.1 H2Fly Details

2.7.2 H2Fly Major Business

2.7.3 H2Fly Hydrogen eVTOL Product and Solutions

2.7.4 H2Fly Recent Developments and Future Plans

2.8 Joby

2.8.1 Joby Details

2.8.2 Joby Major Business

2.8.3 Joby Hydrogen eVTOL Product and Solutions

2.8.4 Joby Recent Developments and Future Plans

2.9 Alaka'i

2.9.1 Alaka'i Details

2.9.2 Alaka'i Major Business

2.9.3 Alaka'i Hydrogen eVTOL Product and Solutions

2.9.4 Alaka'i Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Hydrogen eVTOL Revenue and Share by Players (2025 & 2031)

3.2 Hydrogen eVTOL Players Head Office, Products and Services Provided

3.3 Hydrogen eVTOL Mergers & Acquisitions

3.4 Hydrogen eVTOL New Entrants and Expansion Plans

4 GLOBAL HYDROGEN EVTOL FORECAST BY REGION

4.1 Global Hydrogen eVTOL Market Size by Region: 2025 VS 2031

4.2 Global Hydrogen eVTOL Market Size by Region, (2025-2031)

4.3 North America

4.3.1 Key Companies of Hydrogen eVTOL in North America

4.3.2 Current Situation and Forecast of Hydrogen eVTOL in North America

4.3.3 North America Hydrogen eVTOL Market Size and Prospect (2025-2031)

4.4 Europe

4.4.1 Key Companies of Hydrogen eVTOL in Europe

4.4.2 Current Situation and Forecast of Hydrogen eVTOL in Europe

4.4.3 Europe Hydrogen eVTOL Market Size and Prospect (2025-2031)

4.5 Asia-Pacific

4.5.1 Key Companies of Hydrogen eVTOL in Asia-Pacific

4.5.2 Current Situation and Forecast of Hydrogen eVTOL in Asia-Pacific

4.5.3 Asia-Pacific Hydrogen eVTOL Market Size and Prospect (2025-2031)

4.5.4 China

4.5.5 Japan

4.5.6 South Korea

4.6 South America

4.6.1 Key Companies of Hydrogen eVTOL in South America

4.6.2 Current Situation and Forecast of Hydrogen eVTOL in South America

4.6.3 South America Hydrogen eVTOL Market Size and Prospect (2025-2031)

4.7 Middle East & Africa

4.7.1 Key Companies of Hydrogen eVTOL in Middle East & Africa

4.7.2 Current Situation and Forecast of Hydrogen eVTOL in Middle East & Africa

4.7.3 Middle East & Africa Hydrogen eVTOL Market Size and Prospect (2025-2031)

5 MARKET SIZE SEGMENT BY TYPE

5.1 Global Hydrogen eVTOL Market Forecast by Type (2025-2031)

5.2 Global Hydrogen eVTOL Market Share Forecast by Type (2025-2031)

6 MARKET SIZE SEGMENT BY APPLICATION

6.1 Global Hydrogen eVTOL Market Forecast by Application (2025-2031)

6.2 Global Hydrogen eVTOL Market Share Forecast by Application (2025-2031)

7 RESEARCH FINDINGS AND CONCLUSION

8 APPENDIX

8.1 Methodology

8.2 Research Process and Data Source

8.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Hydrogen eVTOL Revenue by Type, (USD Million) 2025 VS 2031
- Table 2. Global Hydrogen eVTOL Revenue by Application, (USD Million), 2025 VS 2031
- Table 3. Victrex Corporate Information, Head Office, and Major Competitors
- Table 4. Victrex Major Business
- Table 5. Victrex Hydrogen eVTOL Product and Solutions
- Table 6. Solvay Corporate Information, Head Office, and Major Competitors
- Table 7. Solvay Major Business
- Table 8. Solvay Hydrogen eVTOL Product and Solutions
- Table 9. Evonik Corporate Information, Head Office, and Major Competitors
- Table 10. Evonik Major Business
- Table 11. Evonik Hydrogen eVTOL Product and Solutions
- Table 12. Zypeek Corporate Information, Head Office, and Major Competitors
- Table 13. Zypeek Major Business
- Table 14. Zypeek Hydrogen eVTOL Product and Solutions
- Table 15. Kingfa Corporate Information, Head Office, and Major Competitors
- Table 16. Kingfa Major Business
- Table 17. Kingfa Hydrogen eVTOL Product and Solutions
- Table 18. Jusep Corporate Information, Head Office, and Major Competitors
- Table 19. Jusep Major Business
- Table 20. Jusep Hydrogen eVTOL Product and Solutions
- Table 21. H2Fly Corporate Information, Head Office, and Major Competitors
- Table 22. H2Fly Major Business
- Table 23. H2Fly Hydrogen eVTOL Product and Solutions
- Table 24. Joby Corporate Information, Head Office, and Major Competitors
- Table 25. Joby Major Business
- Table 26. Joby Hydrogen eVTOL Product and Solutions
- Table 27. Alaka'i Corporate Information, Head Office, and Major Competitors
- Table 28. Alaka'i Major Business
- Table 29. Alaka'i Hydrogen eVTOL Product and Solutions
- Table 30. Global Hydrogen eVTOL Revenue (USD Million) by Players (2025 & 2031)
- Table 31. Global Hydrogen eVTOL Revenue Share by Players (2025 & 2031)
- Table 32. Hydrogen eVTOL Players Head Office, Products and Services Provided
- Table 33. Hydrogen eVTOL Mergers & Acquisitions in the Past Five Years
- Table 34. Hydrogen eVTOL New Entrants and Expansion Plans
- Table 35. Global Market Hydrogen eVTOL Revenue (USD Million) Comparison by

Region (2025 VS 2031)

Table 36. Global Hydrogen eVTOL Revenue Market Share by Region (2025-2031)

Table 37. Key Companies of Hydrogen eVTOL in North America

Table 38. Current Situation and Forecast of Hydrogen eVTOL in North America

Table 39. Key Companies of Hydrogen eVTOL in Europe

Table 40. Current Situation and Forecast of Hydrogen eVTOL in Europe

Table 41. Key Companies of Hydrogen eVTOL in Asia-Pacific

Table 42. Current Situation and Forecast of Hydrogen eVTOL in Asia-Pacific

Table 43. Key Companies of Hydrogen eVTOL in China

Table 44. Key Companies of Hydrogen eVTOL in Japan

Table 45. Key Companies of Hydrogen eVTOL in South Korea

Table 46. Key Companies of Hydrogen eVTOL in South America

Table 47. Current Situation and Forecast of Hydrogen eVTOL in South America

Table 48. Key Companies of Hydrogen eVTOL in Middle East & Africa

Table 49. Current Situation and Forecast of Hydrogen eVTOL in Middle East & Africa

Table 50. Global Hydrogen eVTOL Revenue Forecast by Type (2025-2031)

Table 51. Global Hydrogen eVTOL Revenue Forecast by Application (2025-2031)

List Of Figures

LIST OF FIGURES

- Figure 1. Hydrogen eVTOL Picture
- Figure 2. Global Hydrogen eVTOL Revenue Market Share by Type in 2031
- Figure 3. Multi-Rotor
- Figure 4. Composite Wing
- Figure 5. Tilt Rotor
- Figure 6. Tilt Duct
- Figure 7. Others
- Figure 8. Hydrogen eVTOL Revenue Market Share by Application in 2031
- Figure 9. Logistics Picture
- Figure 10. Medical Picture
- Figure 11. Travel Picture
- Figure 12. Emergency Picture
- Figure 13. Others Picture
- Figure 14. Global Hydrogen eVTOL Market Size, (USD Million): 2025 VS 2031
- Figure 15. Global Hydrogen eVTOL Revenue and Forecast (2025-2031) & (USD Million)
- Figure 16. Hydrogen eVTOL Market Drivers
- Figure 17. Hydrogen eVTOL Market Restraints
- Figure 18. Hydrogen eVTOL Market Trends
- Figure 19. Victrex Recent Developments and Future Plans
- Figure 20. Solvay Recent Developments and Future Plans
- Figure 21. Evonik Recent Developments and Future Plans
- Figure 22. Zypeek Recent Developments and Future Plans
- Figure 23. Kingfa Recent Developments and Future Plans
- Figure 24. Jusep Recent Developments and Future Plans
- Figure 25. H2Fly Recent Developments and Future Plans
- Figure 26. Joby Recent Developments and Future Plans
- Figure 27. Alaka'i Recent Developments and Future Plans
- Figure 28. Global Hydrogen eVTOL Revenue Market Share by Region (2025-2031)
- Figure 29. Global Hydrogen eVTOL Revenue Market Share by Region in 2031
- Figure 30. North America Hydrogen eVTOL Revenue (USD Million) and Growth Rate (2025-2031)
- Figure 31. Europe Hydrogen eVTOL Revenue (USD Million) and Growth Rate (2025-2031)
- Figure 32. Asia-Pacific Hydrogen eVTOL Revenue (USD Million) and Growth Rate (2025-2031)

Figure 33. South America Hydrogen eVTOL Revenue (USD Million) and Growth Rate (2025-2031)

Figure 34. Middle East & Africa Hydrogen eVTOL Revenue (USD Million) and Growth Rate (2025-2031)

Figure 35. Global Hydrogen eVTOL Market Share Forecast by Type (2025-2031)

Figure 36. Global Hydrogen eVTOL Market Share Forecast by Application (2025-2031)

Figure 37. Methodology

Figure 38. Research Process and Data Source

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