

# Global Hydrogen-powered Aircraft Market Growth 2026-2032

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## Abstracts

The global Hydrogen-powered Aircraft market size is predicted to grow from US\$ 99195 million in 2025 to US\$ 188484 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

In 2025, global Hydrogen-powered Aircraft production reached approximately 325 units, with an average global market price of around 312 m usd per unit. Gross margin is about 45%. The cost is 172 m usd per unit, the production is 450 units. Hydrogen-powered aircraft is a new type of green aviation vehicle, which adopts hydrogen as the core energy and is driven by hydrogen fuel cells or hydrogen gas turbine engines. It replaces traditional aviation fuel with near-zero carbon emissions, low noise and low pollution during flight, and can be applied in general aviation, regional passenger transportation and future civil aviation.

**Zero-Carbon Power Replacement:** Using liquid hydrogen (LH2) as fuel, only water vapor is emitted, achieving full-life zero carbon emissions and aligning with the 2050 aviation carbon neutrality goal.

**Core Technology Breakthroughs:** Focusing on LH2 storage & transport, hydrogen fuel cells/turbine engines, and system integration; lightweight hydrogen storage and efficient combustion control are critical.

**Phased Commercialization:** Following the roadmap of UAVs ? regional airliners ? mainline airliners; small aircraft lead by 2030, with 100+ seat models scaling post-2035?

LP Information, Inc. (LPI) ' newest research report, the ?Hydrogen-powered Aircraft Industry Forecast? looks at past sales and reviews total world Hydrogen-powered

Aircraft sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydrogen-powered Aircraft sales for 2026 through 2032. With Hydrogen-powered Aircraft sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrogen-powered Aircraft industry.

This Insight Report provides a comprehensive analysis of the global Hydrogen-powered Aircraft landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydrogen-powered Aircraft portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrogen-powered Aircraft market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrogen-powered Aircraft and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydrogen-powered Aircraft.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrogen-powered Aircraft market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Cargo Aeroplane

Passenger Plane

#### Segmentation by Storage:

Liquid Hydrogen Storage Aircraft

Gaseous Hydrogen Storage Aircraft

### Segmentation by Power:

Hydrogen Fuel Cell Aircraft

Hydrogen Combustion Engine Aircraft

### Segmentation by Application:

For Military

For Civilian

### This report also splits the market by region:

#### Americas

United States

Canada

Mexico

Brazil

#### APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Airbus

Boeing

COMAC

AVIC

AECC

Rolls-Royce

Safran

Pratt & Whitney

GKN Aerospace

Deutsche Aircraft

Mitsubishi Heavy Industries

Kawasaki Heavy Industries

Honda

Korea Aerospace Industries (KAI)

Hyundai Motor Company

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen-powered Aircraft market?

What factors are driving Hydrogen-powered Aircraft market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hydrogen-powered Aircraft market opportunities vary by end market size?

How does Hydrogen-powered Aircraft break out by Type, by Application?

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