

Global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market size was valued at US\$ 16.02 million in 2025 and is forecast to a readjusted size of US\$ 113 million by 2032 with a CAGR of 27.8% during review period.

A solid-state hydrogen storage fuel cell passenger vehicle is a passenger vehicle that uses a fuel cell system as its main power source or range-extending power source and stores onboard hydrogen in a solid-state hydrogen storage system. Such vehicles typically use metal hydrides, magnesium-based hydrides, TiFe-based alloys, AB₅/AB₂ hydrogen storage alloys, or other solid hydrogen storage materials to reversibly absorb and release hydrogen under relatively low pressure and controlled thermal conditions. The released hydrogen is then supplied to a fuel cell stack to generate electricity for the traction motor and battery system. A complete vehicle system usually includes solid-state hydrogen storage tanks or modules, a fuel cell stack, hydrogen supply components, thermal management, a traction battery, electric drive units, a vehicle control unit, hydrogen safety monitoring, crash protection, and energy management software. Compared with conventional 70MPa compressed-hydrogen FCEVs, solid-state hydrogen storage vehicles emphasize low-pressure safety, high volumetric hydrogen density, long-duration storage stability, and potential integration with fuel-cell waste heat. However, they also face challenges in material weight, hydrogen release rate, heat management, system cost, packaging, and vehicle-level energy efficiency.

In 2025, the global production volume of solid-state hydrogen storage fuel cell passenger vehicles projected to reach 180 units, with an average price of \$86,500 per vehicle and an average gross margin of 8.5%.

Based on our research, solid-state hydrogen storage fuel cell passenger vehicles should not be treated as equivalent to the broader fuel cell passenger vehicle market. The currently available or semi-commercial passenger FCEVs, including Toyota Mirai, Hyundai NEXO, Honda CR-V e:FCEV, and BMW iX5 Hydrogen demonstrators, mainly rely on compressed hydrogen storage rather than solid-state hydrogen storage. Solid-state storage offers potential advantages in low-pressure safety, stable hydrogen storage, high volumetric density, and thermal coupling with fuel cell waste heat, but it also faces major challenges in system weight, heat management, hydrogen release rate, cost, packaging, and vehicle-level efficiency. Therefore, this study adopts a narrow scope and counts only demonstration passenger vehicles, prototypes, and small-batch vehicles equipped with solid-state hydrogen storage systems.

From a supply perspective, the number of companies directly involved in the combination of passenger vehicle, fuel cell system, and solid-state hydrogen storage remains very limited. The low-pressure room-temperature solid-state hydrogen storage fuel cell MPV shown in China in 2025, developed by SAIC Motor, Shanghai Hydrogen Propulsion Technology, and related partners, is one of the clearest public examples of this category. Solid-state hydrogen storage suppliers such as GRIMAT, Hydrexia, HBank Technologies, Tellus Materials, GKN Hydrogen, GRZ Technologies, and H2planet have relevant storage-device or metal-hydride system capabilities, but most are not passenger vehicle OEMs. Traditional FCEV companies such as Toyota, Hyundai, Honda, BMW, Mercedes-Benz, GAC, and Great Wall Motor have fuel cell vehicle platforms, but their public passenger vehicle technologies are still primarily based on compressed hydrogen.

From a demand perspective, early demand is likely to come from government-backed demonstrations, research validation, hydrogen industry zones, regional pilot programs, low-pressure safety demonstrations, and automaker technology development rather than mass-market retail customers. Passenger vehicles impose strict requirements on vehicle weight, cabin space, range, refueling convenience, cost, and reliability. Solid-state storage systems are still disadvantaged in weight and thermal management, which limits their near-term suitability for mass-market sedans and SUVs. The more realistic early applications are likely to be MPVs, SUVs, demonstration fleets, or range-extended fuel cell passenger vehicles where system packaging and operating patterns can be better controlled.

From a technology perspective, two architectures are most plausible. One uses the fuel cell as the main onboard power-generation system, with the solid-state storage unit

supplying hydrogen and the battery handling transient power demand. The other uses a fuel cell range-extender architecture, where the traction battery provides most driving power and the fuel cell maintains state of charge or extends range. The latter may be more practical in early demonstrations because it can reduce required fuel cell power, improve thermal integration, and lower total system cost. The 2025 Chinese demonstration MPV reportedly uses a 50kW fuel cell system and coordinates cabin heating with hydrogen release thermal demand, illustrating why thermal system integration is central to this vehicle category.

From a risk perspective, this market faces both FCEV passenger vehicle uncertainty and solid-state storage technology uncertainty. Passenger FCEVs remain constrained by hydrogen station density, hydrogen price, vehicle cost, and competition from battery electric vehicles. Solid-state storage adds further challenges in material mass, cost, hydrogen release kinetics, standardization, certification, and long-term durability. Metal hydride systems are technically mature in some stationary and specialty applications, but conventional systems are often too heavy and costly for mainstream light-duty passenger vehicles. Over the long term, solid-state hydrogen storage fuel cell passenger vehicles are more likely to develop as a specialized demonstration and safety-focused niche before any broader commercialization becomes realistic.

This report is a detailed and comprehensive analysis for global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SAIC Motor, Shanghai Hydrogen Propulsion Technology, GRIMAT Engineering Institute, Hydrexia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Metal Hydride Storage

Magnesium-based Hydride Storage

TiFe-based Alloy Storage

AB5/AB2 Alloy Storage

Complex Hydride Storage

Other

Market segment by Power

Below 30kW

30–60kW

60–100kW

100–150kW

Above 150kW

Other

Market segment by Application

Government Demonstration

Hydrogen Industry Park Mobility

Public-sector Fleet

Technology Validation

Low-pressure Safety Demonstration

Regional Pilot Operation

Other

Major players covered

SAIC Motor

Shanghai Hydrogen Propulsion Technology

GRIMAT Engineering Institute

Hydrexia

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle, with price, sales quantity, revenue, and global market share of Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle from 2021 to 2026.

Chapter 3, the Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle.

Chapter 14 and 15, to describe Solid-State Hydrogen Storage Fuel Cell Passenger Vehicle sales channel, distributors, customers, research findings and conclusion.

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