

# Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6BF23486792EN.html>

Date: May 2026

Pages: 108

Price: US\$ 3,480.00 (Single User License)

ID: G6BF23486792EN

## Abstracts

According to our (Global Info Research) latest study, the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market size was valued at US\$ 54.12 million in 2025 and is forecast to a readjusted size of US\$ 385 million by 2032 with a CAGR of 31.7% during review period.

Magnesium-based solid-state hydrogen storage and transportation vehicles are specialized vehicles that integrate hydrogen storage, transportation, release, and thermal management systems, using magnesium-based solid-state hydrogen storage materials as the core hydrogen carrier. They are used to safely and densely store and transport hydrogen energy under normal temperature and pressure or medium-low pressure conditions, and release hydrogen on demand at the hydrogen-using end. These vehicles achieve 'solid-state hydrogen storage and gaseous hydrogen supply' by forming reversible metal hydrides with magnesium or magnesium alloys. Compared to high-pressure gaseous or cryogenic liquid storage and transportation methods, they feature high volumetric energy density, good safety, and low leakage risk, making them suitable for medium- and long-distance hydrogen logistics, industrial hydrogen distribution, and distributed hydrogen supply scenarios.

In 2025, the global production of magnesium-based solid-state hydrogen storage and transportation vehicles was 80 units, with an average price of US\$650,000 per vehicle.

This report is a detailed and comprehensive analysis for global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles
- 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Hydro Magnesium, McPhy Energy, GKN Hydrogen, Kobe Steel, Ltd., L3Harris, Hydrexia, Hyundai Motor Group, Shanghai Hydrexia Energy Technology Co., Ltd., CIMC Enric Holdings Limited, Beijing Youyan Engineering Technology Research Institute Co., Ltd., etc.

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

## **Market Segmentation**

Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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

Pure Magnesium-Based Type

Magnesium-Alloy Type

Composite Magnesium-Based Material Type

### Market segment by Format

Trailer Type

Semi-Trailer Type

Vehicle-Mounted Modular Type

Containerized Type

### Market segment by Hydrogen Release Method

External-Heating Hydrogen Release Type

Waste-Heat-Coupled Hydrogen Release Type

Integrated Thermal-Management Hydrogen Release Type

#### Market segment by Application

Hydrogen Transport from Production Plants to Refueling Stations

In-Park Hydrogen Distribution

Distributed Hydrogen Supply Systems

Backup Hydrogen Source Transport

Hydrogen Demonstration Projects

#### Major players covered

Hydro Magnesium

McPhy Energy

GKN Hydrogen

Kobe Steel, Ltd.

L3Harris

Hydrexia

Hyundai Motor Group

Shanghai Hydrexia Energy Technology Co., Ltd.

CIMC Enric Holdings Limited

Beijing Youyan Engineering Technology Research Institute Co., Ltd.

Anhui DeepMg Hydrogen Technology Co., Ltd.

Jiangsu Huamei Times Technology Co., Ltd.

Dalian Fude Jinyu New Energy Co., Ltd.

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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles, with price, sales quantity, revenue, and global market share of Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles from 2021 to 2026.

Chapter 3, the Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles.

Chapter 14 and 15, to describe Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles sales channel, distributors, customers, research findings and conclusion.

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