

# Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market size is expected to reach \$ 385 million by 2032, rising at a market growth of 31.7% CAGR during the forecast period (2026-2032).

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 studies the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles and provides market

size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles total production and demand, 2021-2032, (Units)

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles total production value, 2021-2032, (USD Million)

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles domestic production, consumption, key domestic manufacturers and share  
Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnesium-Based Solid-State Hydrogen Storage and

Transportation Vehicles market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market, Segmentation by Type:

Pure Magnesium-Based Type

Magnesium-Alloy Type

Composite Magnesium-Based Material Type

## Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market, Segmentation by Format:

Trailer Type

Semi-Trailer Type

Vehicle-Mounted Modular Type

Containerized Type

## Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market, Segmentation by Hydrogen Release Method:

External-Heating Hydrogen Release Type

Waste-Heat-Coupled Hydrogen Release Type

Integrated Thermal-Management Hydrogen Release Type

## Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market, Segmentation 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

## Companies Profiled:

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.

### **Key Questions Answered:**

1. How big is the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market?
2. What is the demand of the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market?
3. What is the year over year growth of the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market?
4. What is the production and production value of the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market?
5. Who are the key producers in the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market?
6. What are the growth factors driving the market demand?

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