

Global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Market Growth 2026-2032

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Abstracts

The global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market size is predicted to grow from US\$ 51.46 million in 2025 to US\$ 400 million in 2032; it is expected to grow at a CAGR of 33.7% from 2026 to 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.

United States market for Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Magnesium-Based Solid-State Hydrogen Storage and Transportation

Vehicles is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles players cover Hydro Magnesium, McPhy Energy, GKN Hydrogen, Kobe Steel, Ltd., L3Harris, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles Industry Forecast' looks at past sales and reviews total world Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles sales for 2026 through 2032. With Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles industry.

This Insight Report provides a comprehensive analysis of the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles 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 Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pure Magnesium-Based Type

Magnesium-Alloy Type

Composite Magnesium-Based Material Type

Segmentation by Format:

Trailer Type

Semi-Trailer Type

Vehicle-Mounted Modular Type

Containerized Type

Segmentation by Hydrogen Release Method:

External-Heating Hydrogen Release Type

Waste-Heat-Coupled Hydrogen Release Type

Integrated Thermal-Management Hydrogen Release Type

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

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.

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 Addressed in this Report

What is the 10-year outlook for the global Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market?

What factors are driving Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market growth, globally and by region?

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

How do Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles market opportunities vary by end market size?

How does Magnesium-Based Solid-State Hydrogen Storage and Transportation Vehicles break out by Type, by Application?

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