

Global Metal Hydride Hydrogen Storage Market Growth 2026-2032

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Abstracts

The global Metal Hydride Hydrogen Storage market size is predicted to grow from US\$ 586 million in 2025 to US\$ 887 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

Metal hydride hydrogen storage is a hydrogen storage technology that utilizes the reversible chemical reaction between hydrogen and certain metals or alloys to form metal hydrides. Under appropriate temperature and pressure conditions, hydrogen molecules dissociate into atoms on the metal surface and diffuse into the crystal lattice to form stable hydrides. When heated or depressurized, the hydrogen can be released again, enabling a reversible hydrogen storage and release process.

Typical hydrogen storage materials include rare-earth-based alloys (AB₂ type), titanium- or zirconium-based alloys (AB₂ type), magnesium-based alloys (MgH₂ systems), and complex hydride materials. Key technologies involve alloy composition design, hydrogen absorption and desorption kinetics optimization, powder structural stabilization, cycle durability improvement, and thermal management and sealing design of hydrogen storage systems.

Upstream suppliers mainly include rare-earth metals, magnesium, titanium, and other alloy material providers, as well as powder metallurgy and material processing companies. Downstream applications include hydrogen storage systems for fuel cells, hydrogen energy storage and transportation equipment, distributed energy systems, and research hydrogen storage devices. The overall industry gross margin generally ranges from 30% to 55%, positioning it within the hydrogen energy storage and transportation technology segment.

Global hydrogen storage capacity in metal hydrides is projected to reach 112 tons in 2025, with an average price of \$5,350 per kilogram.

United States market for Metal Hydride Hydrogen Storage 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 Metal Hydride Hydrogen Storage 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 Metal Hydride Hydrogen Storage is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Metal Hydride Hydrogen Storage players cover GKN Hydrogen, GRZ Technologies, Hydrexia, Hensoldt Nexeya, MetHydor, 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 ?Metal Hydride Hydrogen Storage Industry Forecast? looks at past sales and reviews total world Metal Hydride Hydrogen Storage sales in 2025, providing a comprehensive analysis by region and market sector of projected Metal Hydride Hydrogen Storage sales for 2026 through 2032. With Metal Hydride Hydrogen Storage sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metal Hydride Hydrogen Storage industry.

This Insight Report provides a comprehensive analysis of the global Metal Hydride Hydrogen Storage 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 Metal Hydride Hydrogen Storage portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metal Hydride Hydrogen Storage market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metal Hydride Hydrogen Storage 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 Metal Hydride Hydrogen Storage.

This report presents a comprehensive overview, market shares, and growth opportunities of Metal Hydride Hydrogen Storage market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

AB₂-Type Hydrogen Storage Alloy

AB₂-Type Hydrogen Storage Alloy

Magnesium-Based Hydrogen Storage Material

Complex Hydride Material

Segmentation by Storage Condition:

Low-Temperature Low-Pressure Type

Medium-Temperature Medium-Pressure Type

High-Temperature Hydrogen Storage Type

Segmentation by System Form:

Powder-Based Hydrogen Storage System

Modular Hydrogen Storage Tank

Stationary Hydrogen Storage Device

Segmentation by Application:

Hydrogen Fuel Cell Systems

Hydrogen Storage and Transportation Equipment

Distributed Energy Systems

Scientific Research and Experimental Systems

Others

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.

GKN Hydrogen

GRZ Technologies

Hydrexia

Hensoldt Nexeya

MetHydor

Japan Steel Works

Hydrogen Components

Ergenics

Horizon Fuel Cell Technologies

VET Energy

Rubri Energy

H2planet

Key Questions Addressed in this Report

What is the 10-year outlook for the global Metal Hydride Hydrogen Storage market?

What factors are driving Metal Hydride Hydrogen Storage market growth, globally and by region?

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

How do Metal Hydride Hydrogen Storage market opportunities vary by end market size?

How does Metal Hydride Hydrogen Storage break out by Type, by Application?

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