

# Global Hydrogen Storage Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hydrogen Storage market size is expected to reach \$ 3355 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032). Hydrogen storage is a crucial yet challenging aspect of the hydrogen economy, as it enables the practical use of hydrogen as a clean energy carrier. Effective storage primarily relies on three technological pathways: high-pressure gaseous storage, which compresses hydrogen in tanks and is widely used for vehicles; cryogenic liquid storage, which cools hydrogen to extremely low temperatures for high density, suitable for aerospace and bulk transport; and solid-state storage, where hydrogen is absorbed into materials like metal hydrides, offering enhanced safety for portable and stationary applications. Key applications include powering fuel cell electric vehicles (FCEVs), providing long-duration energy storage for renewable grids, and serving as a feedstock or fuel in hard-to-abate industrial sectors like steelmaking. Ongoing research focuses on improving the capacity, efficiency, safety, and cost-effectiveness of these storage methods to fully unlock hydrogen's potential in the global transition to sustainable energy. The average gross margin in this industry reached 22.73% in 2025. Asia-Pacific is the largest hydrogen storage market globally, driven by a combination of policy commitment, industrial demand, and manufacturing scale advantages. Countries such as China, Japan, South Korea, and Australia have positioned hydrogen as a strategic energy vector within national decarbonization and energy-security frameworks. China leads in absolute demand, supported by large-scale industrial hydrogen consumption (refining, chemicals, steel) and rapid deployment of hydrogen infrastructure. The country's cost-competitive manufacturing ecosystem accelerates the adoption of compressed gas tanks, large stationary storage systems, and emerging solid-state storage materials. Japan and South Korea focus strongly on hydrogen mobility and energy imports, driving demand for high-pressure storage tanks, liquid hydrogen storage, and advanced safety technologies. Australia plays a strategic role as

a future hydrogen exporter, stimulating investment in large-scale storage solutions linked to production hubs and ports. Overall, Asia-Pacific benefits from strong government subsidies, long-term hydrogen roadmaps, and faster project execution, making it the most dynamic and commercially active hydrogen storage market. High-pressure gaseous storage benefits from proven technology, relatively low system complexity, and strong compatibility with existing hydrogen production, transport, and end-use infrastructure. It is extensively adopted across industrial hydrogen applications, refueling stations, and fuel-cell vehicles, particularly in the form of Type III and Type IV composite cylinders operating at pressures typically ranging from 350 bar to 700 bar. The technology's scalability, standardized safety codes, and declining composite material costs have further reinforced its market leadership, especially in Asia-Pacific and North America, where hydrogen mobility and distributed hydrogen supply systems are expanding rapidly.

This report studies the global Hydrogen Storage demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Storage, 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 Hydrogen Storage that contribute to its increasing demand across many markets.

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

Global Hydrogen Storage total market, 2021-2032, (USD Million)

Global Hydrogen Storage total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Hydrogen Storage total market, key domestic companies, and share, (USD Million)

Global Hydrogen Storage revenue by player, revenue and market share 2021-2026, (USD Million)

Global Hydrogen Storage total market by Type, CAGR, 2021-2032, (USD Million)

Global Hydrogen Storage total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Hydrogen Storage market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hexagon Purus, CIMC Enric, Forvia, Ijlin Hysolus, Chart Industries, Kawasaki Heavy Industries, Toyota, Jiangsu Guofu Hydrogen Energy Equipment, Luxfer, Linde, 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 Hydrogen Storage market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Hydrogen Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Storage Market, Segmentation by Type:

High-pressure Gaseous Hydrogen Storage

Cryogenics Liquid Hydrogen Storage

Solid State Hydrogen Storage

Others

Global Hydrogen Storage Market, Segmentation by Pressure Level:

?350 bar

350?700 bar

Cryogenic Storage

Others

#### Global Hydrogen Storage Market, Segmentation by Storage Capacity:

?5 kg

5?50 kg

?50 kg

#### Global Hydrogen Storage Market, Segmentation by Application:

Automotive & Transportation

Industrial

Power and Energy

Others

#### **Companies Profiled:**

Hexagon Purus

CIMC Enric

Forvia

Iljin Hysolus

Chart Industries

Kawasaki Heavy Industries

Toyota

Jiangsu Guofu Hydrogen Energy Equipment

Luxfer

Linde

INOXCVA

Taylor-Wharton

Faber Industrie

Worthington Cylinders

Calvera Hydrogen

NPROXX

Gardner Cryogenics

Hylium Industries

Whole Win (Beijing) New Energy Technology

### Key Questions Answered

1. How big is the global Hydrogen Storage market?
2. What is the demand of the global Hydrogen Storage market?
3. What is the year over year growth of the global Hydrogen Storage market?
4. What is the total value of the global Hydrogen Storage market?
5. Who are the Major Players in the global Hydrogen Storage market?
6. What are the growth factors driving the market demand?

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