

Global Hydrogen Liquefaction Unit Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogen Liquefaction Unit market size is expected to reach \$ 909 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

A Hydrogen Liquefaction Unit is an integrated system used to convert gaseous hydrogen into liquid hydrogen through compression, pre-cooling, cryogenic heat exchange, expansion refrigeration, and ortho-para hydrogen conversion. As liquid hydrogen offers a much higher volumetric energy density than gaseous hydrogen, hydrogen liquefaction units are widely used in hydrogen storage and transportation, hydrogen refueling infrastructure, aerospace, electronic specialty gases, cryogenic engineering, and large-scale hydrogen energy projects. The system typically consists of compressors, heat exchangers, expanders, cold boxes, ortho-para converters, cryogenic valves, control systems, and liquid hydrogen storage tanks, requiring advanced cryogenic materials, energy-efficiency optimization, safety protection, and high operational reliability. In 2025, global Hydrogen Liquefaction Unit production reached approximately 2611 Units, with an average global market price of around 227 k USD/Unit. The production capacity for Hydrogen Liquefaction Unit in 2025 was approximately 2800 Units. The typical gross profit margin for Hydrogen Liquefaction Unit between 20% and 40%.

The Hydrogen Liquefaction Unit market is mainly driven by the development of the hydrogen energy value chain, growing demand for liquid hydrogen storage and transportation, fuel-cell mobility, aerospace cryogenic fuel applications, and large-scale green hydrogen projects. As hydrogen use expands across energy, industrial, and transportation sectors, conventional high-pressure gaseous hydrogen storage and transport face limitations in long-distance distribution, large-scale storage, and high-purity hydrogen supply, increasing interest in liquid hydrogen as a high-density storage

solution. However, hydrogen liquefaction involves high technical barriers, significant energy consumption, high capital investment, and strict safety and cryogenic engineering requirements. As a result, demand is mainly concentrated among industrial gas companies, cryogenic equipment suppliers, and large energy infrastructure projects. In the future, the market is expected to grow steadily with the expansion of liquid hydrogen logistics networks, green hydrogen hubs, aerospace applications, and heavy-duty transportation use cases.

This report studies the global Hydrogen Liquefaction Unit production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Hydrogen Liquefaction Unit total production and demand, 2021-2032, (Units)

Global Hydrogen Liquefaction Unit total production value, 2021-2032, (USD Million)

Global Hydrogen Liquefaction Unit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hydrogen Liquefaction Unit consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrogen Liquefaction Unit domestic production, consumption, key domestic manufacturers and share

Global Hydrogen Liquefaction Unit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hydrogen Liquefaction Unit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hydrogen Liquefaction Unit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hydrogen Liquefaction Unit 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 Linde Engineering, Air Liquide, Chart Industries, Air Products, GenH2 Discover Hydrogen, Plug Power, Kawasaki Heavy Industries, Iwatani, Hylium Industries, Sumitomo Seika Chemicals, 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 Liquefaction Unit market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Hydrogen Liquefaction Unit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Liquefaction Unit Market, Segmentation by Type:

Cryogenic Hydrogen

Pressure Swing Adsorption (PSA)

Membrane Separation

Global Hydrogen Liquefaction Unit Market, Segmentation by Processing Capacity:

Large Industrial Grade

Medium Regional Grade

Small Laboratory Grade

Global Hydrogen Liquefaction Unit Market, Segmentation by Equipment Form:

Stationary Type

Mobile Type

Global Hydrogen Liquefaction Unit Market, Segmentation by Application:

Hydrogen Storage and Transportation

Mobility and Refueling

Aerospace

Industrial Gas and Chemical Industry

Others

Companies Profiled:

Linde Engineering

Air Liquide

Chart Industries

Air Products

GenH2 Discover Hydrogen

Plug Power

Kawasaki Heavy Industries

Iwatani

Hylium Industries

Sumitomo Seika Chemicals

Zhongke Fuhai Technology

Jiangsu Guofu Hydrogen Energy Equipment

Key Questions Answered:

1. How big is the global Hydrogen Liquefaction Unit market?
2. What is the demand of the global Hydrogen Liquefaction Unit market?
3. What is the year over year growth of the global Hydrogen Liquefaction Unit market?
4. What is the production and production value of the global Hydrogen Liquefaction Unit market?
5. Who are the key producers in the global Hydrogen Liquefaction Unit market?
6. What are the growth factors driving the market demand?

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