

Global Steam Methane Reforming Liquid Hydrogen Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Steam Methane Reforming Liquid Hydrogen market size is expected to reach \$ 849 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global steam methane reforming liquid hydrogen production capacity is 130,000 tons, with production reaching approximately 105,000 tons, with an average global market price of around US\$5,000 per ton. The market gross margin is mainly 15%–25%. Steam Methane Reforming (SMR) Liquid Hydrogen refers to liquefied hydrogen produced through the steam methane reforming process, a widely used industrial method for hydrogen production. In this process, methane—primarily from natural gas—reacts with high-temperature steam in the presence of a catalyst to produce hydrogen and carbon monoxide. The generated synthesis gas then undergoes a water–gas shift reaction to increase hydrogen yield, followed by purification and liquefaction to produce liquid hydrogen. Liquid hydrogen produced via SMR is widely used in industrial hydrogen supply chains, including petroleum refining, ammonia and methanol production, electronics manufacturing, and emerging hydrogen energy applications. Compared with gaseous hydrogen, liquid hydrogen offers higher energy density and more efficient long-distance transportation and storage. Although SMR remains the dominant hydrogen production pathway due to its mature technology and cost advantages, environmental considerations are encouraging the integration of carbon capture technologies and the gradual transition toward low-carbon hydrogen production methods.

The upstream of the steam methane reforming liquid hydrogen industry chain mainly includes natural gas supply, catalysts, reforming reactors, heat exchangers, compressors, purification systems, and liquefaction equipment. It also involves

supporting infrastructure such as cryogenic storage tanks and hydrogen transportation systems. The midstream consists of hydrogen production plants that integrate reforming, gas purification, liquefaction, and storage technologies, representing the core production and processing stage of the industry. The downstream includes industrial users such as oil refineries, chemical plants, semiconductor manufacturing, fuel cell development, and hydrogen refueling infrastructure. In addition, hydrogen logistics, storage, distribution networks, and energy services form an important extension of the industry value chain.

The steam methane reforming liquid hydrogen market continues to play a significant role in the global hydrogen supply landscape. Due to its mature technology, large-scale production capability, and relatively low cost, SMR remains the dominant method of industrial hydrogen production worldwide. Industries such as petroleum refining, chemical manufacturing, and electronics production rely heavily on hydrogen produced through SMR processes.

At the same time, the rapid development of the hydrogen economy is expanding the demand for liquid hydrogen in energy storage, fuel cell vehicles, aerospace applications, and large-scale hydrogen transportation. As hydrogen infrastructure continues to expand, liquefaction and distribution capabilities are becoming increasingly important. However, environmental concerns regarding carbon emissions from conventional SMR processes are encouraging the adoption of carbon capture and storage (CCS) technologies to produce so-called “blue hydrogen.” These technological improvements and the growing demand for hydrogen energy are expected to sustain steady growth in the SMR-based liquid hydrogen market during the coming years.

This report studies the global Steam Methane Reforming Liquid Hydrogen production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Steam Methane Reforming Liquid Hydrogen total production and demand,

2021-2032, (Tons)

Global Steam Methane Reforming Liquid Hydrogen total production value, 2021-2032, (USD Million)

Global Steam Methane Reforming Liquid Hydrogen production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Steam Methane Reforming Liquid Hydrogen consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Steam Methane Reforming Liquid Hydrogen domestic production, consumption, key domestic manufacturers and share

Global Steam Methane Reforming Liquid Hydrogen production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Steam Methane Reforming Liquid Hydrogen production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Steam Methane Reforming Liquid Hydrogen production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Steam Methane Reforming Liquid Hydrogen 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 Air Liquide, Air Products, Chart Industries, ENGIE, HyGear, Ineos, Linde, Matheson Tri-Gas, Reliance Industries, Shell, 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 Steam Methane Reforming Liquid Hydrogen market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Steam Methane Reforming Liquid Hydrogen Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Steam Methane Reforming Liquid Hydrogen Market, Segmentation by Type:

Centralized

Distributed

Global Steam Methane Reforming Liquid Hydrogen Market, Segmentation by Hydrogen State:

Gaseous Hydrogen

Liquid Hydrogen

Global Steam Methane Reforming Liquid Hydrogen Market, Segmentation by Carbon Management:

Conventional SMR

SMR with Carbon Capture

Global Steam Methane Reforming Liquid Hydrogen Market, Segmentation by Application:

Transport

Chemical

Energy

Others

Companies Profiled:

Air Liquide

Air Products

Chart Industries

ENGIE

HyGear

Ineos

Linde

Matheson Tri-Gas

Reliance Industries

Shell

Uniper

Key Questions Answered:

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

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