

# **Blue Hydrogen Market Size, Share & Trends Analysis Report By Application (Chemical, Refinery, Power Generation), By Transportation Mode (Pipeline, Cryogenic Liquid Tankers), By Technology, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 3 Business Days

### **Blue Hydrogen Market Summary**

The global blue hydrogen market size was estimated at USD 5.43 billion in 2024 and is projected to reach USD 12.88 billion by 2030, growing at a CAGR of 13.0% from 2025 to 2030. A combination of environmental regulations, technological advancements, and the increasing demand for cleaner energy alternatives is propelling the market.

One of the primary drivers is the growing commitment to reducing carbon emissions worldwide. Governments and industries are setting ambitious net-zero targets, leading to investments in low-carbon hydrogen production. Blue hydrogen, derived from natural gas but with carbon capture and storage (CCS) technology, presents an attractive option for transitioning away from traditional fossil fuels while maintaining affordability and efficiency.

The expanding application of hydrogen across various industries. Sectors such as transportation, refining, and chemical manufacturing are increasingly looking to hydrogen as a sustainable fuel and feedstock. With hydrogen-powered fuel cells gaining traction in electric vehicles and heavy-duty transport, the demand for blue hydrogen is expected to rise sharply. Additionally, the steel and cement industries, notorious for their high carbon emissions, are exploring hydrogen as a cleaner alternative to conventional

production methods.

## Global Blue Hydrogen Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global blue hydrogen market report based on technology, application, transportation mode, and region:

Technology Outlook (Volume, Kilo Tons; Revenue, USD Million, 2018 - 2030)

Steam Methane Reforming

Gas Partial Oxidation

Auto Thermal Reforming

Transportation Mode Outlook (Volume, Kilo Tons; Revenue, USD Million, 2018 - 2030)

Pipeline

Cryogenic Liquid Tankers

Application Outlook (Volume, Kilo Tons; Revenue, USD Million, 2018 - 2030)

Chemicals

Refinery

Power Generation

Others

Regional Outlook (Volume, Kilo Tons; Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

## Europe

Germany

France

UK

Italy

Spain

Russia

## Asia Pacific

China

India

Japan

South Korea

Australia

## Central & South America

Brazil

Columbia

Paraguay

Middle East & Africa

UAE

Saudi Arabia

Egypt

South Africa

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