

Global Green Hydrogen Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Green Hydrogen market size will reach 3,462.76 Million USD in 2025 and is projected to reach 39,309.96 Million USD by 2032, with a CAGR of 41.49% (2025-2032). Notably, the China Green Hydrogen market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Green hydrogen refers to hydrogen produced through a process that utilizes renewable energy sources, such as wind, solar, or hydropower, to split water molecules into hydrogen and oxygen through electrolysis. Unlike conventional methods of hydrogen production that rely on fossil fuels and emit carbon dioxide, green hydrogen production is considered environmentally friendly and sustainable. Electrolysis, the key technology behind green hydrogen, involves passing an electric current through water to break it down into hydrogen and oxygen. The electricity used in this process is sourced from renewable energy, ensuring that the overall production cycle has a minimal carbon footprint. Green hydrogen is gaining attention as a clean energy carrier and a potential solution for decarbonizing various sectors, including industry, transportation, and energy storage, contributing to global efforts to transition towards a low-carbon and sustainable energy future.

The major global manufacturers of Green Hydrogen include Proton On-Site, 718th Research Institute of CSIC, Teledyne Energy Systems, Hydrogenics, Nel Hydrogen,

Suzhou Jingli, Beijing Zhongdian, McPhy, Siemens, TianJin Mainland, Idroenergy Spa, Toshiba Energy Systems and Solutions Corporation, Erredue SpA, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Green Hydrogen. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Green Hydrogen market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Green Hydrogen market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Green Hydrogen industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Green Hydrogen Include:

Proton On-Site

718th Research Institute of CSIC

Teledyne Energy Systems

Hydrogenics

Nel Hydrogen

Suzhou Jingli

Beijing Zhongdian

McPhy

Siemens

TianJin Mainland

Idroenergy Spa

Toshiba Energy Systems and Solutions Corporation

Erredue SpA

Green Hydrogen Product Segment Include:

Alkaline (ALK) Electrolyzer

Proton Exchange Membrane (PEM) Electrolyzer

Green Hydrogen Product Application Include:

Wind Energy

Solar Energy

Biomass

Others

Chapter Scope

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