

Global Electrolysis for Hydrogen Production Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Electrolysis for Hydrogen Production market size is expected to reach \$ 16550 million by 2029, rising at a market growth of 56.6% CAGR during the forecast period (2023-2029).

Nowadays, 96% of the global hydrogen produced comes from the use of fossil fuels (i.e., natural gas, oil); whereas production from water electrolysis represents only 4%. Indeed, the cost of hydrogen production by using fossil fuels is smaller than water electrolysis given that current electrolyzers are quite expensive and the cost of electricity as well. However, hydrogen production based on fossil fuels, namely gray hydrogen, suffers from lower purity and higher generation of greenhouse gases. To face the intensive use and depletion of fossil fuels to respond to hydrogen demands, water electrolysis supplied by renewable energy sources (e.g., wind turbine, photovoltaic) is considered an attractive and promising alternative. Renewable energy sources combined with water electrolysis come within the scope of the development of environmentally friendly hydrogen production pathways to substitute current hydrogen production based on pollutant fuels. Water electrolysis can produce hydrogen at high gas purity but features high cost (electrolyzer, electricity) and lower energy efficiency due to a high specific energy consumption. For this reason, energy efficiency, cost of electricity, and water electrolysis systems remain major concern to the development of water electrolysis process at a large scale. The water electrolysis process consists of using electricity coming from the power grid or renewable energy sources to split pure water into hydrogen and oxygen. The global market for water electrolysis for hydrogen production was estimated at US\$ 689.98 million in the year 2022, is projected to reach a revised size of US\$ 20.93 billion by 2029.

This report studies the global Electrolysis for Hydrogen Production production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electrolysis for Hydrogen Production, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electrolysis for Hydrogen Production that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electrolysis for Hydrogen Production total production and demand, 2018-2029, (Units)

Global Electrolysis for Hydrogen Production total production value, 2018-2029, (USD Million)

Global Electrolysis for Hydrogen Production production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Electrolysis for Hydrogen Production consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Electrolysis for Hydrogen Production domestic production, consumption, key domestic manufacturers and share

Global Electrolysis for Hydrogen Production production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Electrolysis for Hydrogen Production production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Electrolysis for Hydrogen Production production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Electrolysis for Hydrogen Production 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 Plug Power Inc., The 718th research institute of CSIC, LONGi Green Energy Technology Co., Ltd., ThyssenKrupp

AG, Cockerill Jingli Hydrogen, Nel ASA, Sungrow Power Supply Co., Ltd., Beijing SinoHy Energy Co., Ltd. and Cummins Inc., 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 Electrolysis for Hydrogen Production market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Electrolysis for Hydrogen Production Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electrolysis for Hydrogen Production Market, Segmentation by Type

Alkaline Electrolyzer

PEM Electrolyzer

Solid Oxide Electrolyzer

Others

Global Electrolysis for Hydrogen Production Market, Segmentation by Application

Chemical Industry

Power to Gas

Hydrogen Refueling Station

Power Industry

Electronics and Semiconductor

Steel Plant

Others

Companies Profiled:

Plug Power Inc.

The 718th research institute of CSIC

LONGi Green Energy Technology Co., Ltd.

ThyssenKrupp AG

Cockerill Jingli Hydrogen

Nel ASA

Sungrow Power Supply Co., Ltd.

Beijing SinoHy Energy Co., Ltd.

Cummins Inc.

TianJin Mainland Hydrogen Equipment Co., Ltd.

Siemens

Yangzhou Zhongdian Hydrogen Production Equipment Co., Ltd.

Hydrogen Pro

Sany Hydrogen Energy Co., Ltd.

McPhy Energy S.A.

Shandong SAIKESAI Hydrogen Energy Co., Ltd.

Kohodo Hydrogen Energy Co. Ltd

CPU Hydrogen Power Technology (Suzhou) Co., Ltd.

H2B2

ShaanXi HuaQin New Energy Technology Co., Ltd.

Sunfire GmbH

Teledyne Energy Systems, Inc.

Jiangsu Guofu Hydrogen Energy Equipment Co, Ltd.

Key Questions Answered

1. How big is the global Electrolysis for Hydrogen Production market?

2. What is the demand of the global Electrolysis for Hydrogen Production market?
3. What is the year over year growth of the global Electrolysis for Hydrogen Production market?
4. What is the production and production value of the global Electrolysis for Hydrogen Production market?
5. Who are the key producers in the global Electrolysis for Hydrogen Production market?

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