

# Hydrogen Electrolyzer Market Report: Trends, Forecast and Competitive Analysis

<https://marketpublishers.com/r/HFEC7D914FA8EN.html>

Date: February 2023

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: HFEC7D914FA8EN

## Abstracts

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### Hydrogen Electrolyzer Market Trends and Forecast

The future of the hydrogen electrolyzer market looks promising with opportunities in the ammonia, methanol, refinery, electronics, energy, transport, metal production & fabrication, pharma & biotech, food & beverage, and glass industries. The global hydrogen electrolyzer market is expected to grow with a CAGR of 23% to 25% from 2023 to 2028. The major drivers for this market are increasing popularity of hydrogen energy, implementation of stringent government norms to protect the environment by reducing pollution, and surging investment to develop the industrial sector globally.

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below. To learn the scope, benefits, companies researched and other details of the global hydrogen electrolyzer market report, please download the report brochure.

### Hydrogen Electrolyzer Market by Segment

The study includes a forecast for the global hydrogen electrolyzer market by product type, capacity, outlet pressure, application, and region, as follows:

Hydrogen Electrolyzer Market by Product Type [Value (\$B) Shipment Analysis from 2017 to 2028]:

Proton Exchange Membrane (PEM) Electrolyzer

Alkaline Electrolyzer

Solid Oxide Electrolyzer

Hydrogen Electrolyzer Market by Capacity [Value (\$B) Shipment Analysis from 2017 to 2028]:

Low ( 1mW)

o 1 – 10 mW

10 – 20 mW

Above 20 mW

Hydrogen ElectrolyzerMarket by Outlet Pressure [Value (\$B) Shipment Analysis from 2017 to 2028]:

Low ( 40 Bar)

Hydrogen Electrolyzer Market by Application [Value (\$B) Shipment Analysis from 2017 to 2028]:

Ammonia

Methanol

Refinery Industry

Electronics

Energy

Power to Gas

Transport

Metal Production & Fabrication

Pharma & Biotech

Food & Beverages

Glass Industry

Others

Hydrogen Electrolyzer Market by Region [Value (\$B) Shipment Analysis from 2017 to 2028]:

North America

Europe

Asia Pacific

The Rest of the World

#### List of Hydrogen Electrolyzer Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies hydrogen electrolyzer companies cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the hydrogen electrolyzer companies profiled in this report include.

Siemens

Toshiba

Cummins

McPhy Energy

Nel Hydrogen

H-tec Systems

ITM Power

Green Hydrogen Systems

H2B2 Electrolysis Technologies

Plug Power

## Hydrogen Electrolyzer Market Insights

Lucintel forecasts that alkaline water electrolyzer will remain the largest segment over the forecast period due to its efficiency to operate in high temperature and pressure. Clean hydrogen is produced using an alkaline water electrolyzer and distributed to various end uses in order to reduce carbon emissions.

Transport is expected to remain the largest segment due to growing need to reduce carbon emissions in the atmosphere, which is set to drive the demand for hydrogen and considered to be a clean alternative fuel.

APAC will remain the fastest growing region due to countries such as South Korea, Japan and Australia, are rolling out green hydrogen projects to increase carbon-free energy production and develop alternative energy sources.

## Features of the Hydrogen Electrolyzer Market

Market Size Estimates: Hydrogen electrolyzer market size estimation in terms of value (\$B)

Trend and Forecast Analysis: Market trends (2017-2022) and forecast (2023-2028) by various segments and regions.

**Segmentation Analysis:** Hydrogen electrolyzer market size by various segments, such as by product type, capacity, outlet pressure, application, and region.

**Regional Analysis:** Hydrogen electrolyzer market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

**Growth Opportunities:** Analysis on growth opportunities in different by product type, capacity, outlet pressure, application, and regions for the hydrogen electrolyzer market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape for the hydrogen electrolyzer market.

**Analysis of competitive intensity of the industry based on Porter's Five Forces model.**

## FAQ

**Q1. What is the hydrogen electrolyzer market size?**

**Answer:** The global hydrogen electrolyzer market is expected to reach an estimated \$xx billion by 2028.

**Q2. What is the growth forecast for hydrogen electrolyzer market?**

**Answer:** The global hydrogen electrolyzer market is expected to grow with a CAGR of 23% to 25% from 2023 to 2028.

**Q3. What are the major drivers influencing the growth of the hydrogen electrolyzer market?**

**Answer:** The major drivers for this market are increasing popularity of hydrogen energy, implementation of stringent government norms to protect the environment by reducing pollution, and surging investment to develop the industrial sector globally.

**Q4. What are the major segments for hydrogen electrolyzer market?**

**Answer:** The future of the hydrogen electrolyzer market looks promising with

opportunities in the ammonia, methanol, refinery, electronics, energy, transport, metal production & fabrication, pharma & biotech, food & beverage, and glass industries.

Q5. Who is the key hydrogen electrolyzer companies?

Answer: Some of the key hydrogen electrolyzer companies are as follows:

Siemens

Toshiba

Cummins

McPhy Energy S. A

Nel Hydrogen

H-tec Systems

ITM Power

Green Hydrogen Systems

H2B2 Electrolysis Technologies

Plug Power Inc

Q6. Which hydrogen electrolyzer segment will be the largest in future?

Answer: Lucintel forecasts that alkaline water electrolyzer will remain the largest segment over the forecast period due to its efficiency to operate in high temperature and pressure. Clean hydrogen is produced using an alkaline water electrolyzer and distributed to various end uses in order to reduce carbon emissions.

Q7. In hydrogen electrolyzer market, which region is expected to be the largest in next 5 years?

Answer: APAC will remain the fastest growing region due to countries such as South

Korea, Japan and Australia, are rolling out green hydrogen projects to increase carbon-free energy production and develop alternative energy sources.

Q8. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the hydrogen electrolyzer market by product type (polymer electrolyte membrane (PEM) electrolyzer, alkaline water electrolyzer, and solid oxide electrolyzer), capability (Low ( 1mW) [1 – 10 mW, 10 – 20 mW, and Above 20 mW]), outlet pressure (Low (>10 bar), Medium (150 bar – 40 bar), and High (> 40 bar), application (ammonia, methanol, refinery industry, electronics, energy, power to gas, transport, metal production & fabrication, pharma & biotech, food & beverages, and glass industry) and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

For any questions related to hydrogen electrolyzer market or related to hydrogen electrolyzer companies, hydrogen electrolyzer market size, hydrogen electrolyzer market share, hydrogen electrolyzer analysis, write Lucintel analyst at email: [helpdesk@lucintel.com](mailto:helpdesk@lucintel.com). We will be glad to get back to you soon.

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