

# Global PEM Electrolyzer Market 2023-2029

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## Abstracts

PEM (Proton Exchange Membrane) electrolyzer is a type of electrolyzer that uses a solid polymer electrolyte membrane to split water into hydrogen and oxygen using an electric current. The process is known as electrolysis, and it is a key technology for producing hydrogen as a clean and renewable energy source. PEM electrolyzers have several advantages over other types of electrolyzers, including high efficiency, fast response times, and low operating temperatures. The solid polymer electrolyte membrane used in PEM electrolyzers allows for faster reaction times and higher efficiency, as it reduces the amount of energy lost as heat. Additionally, the low operating temperatures of PEM electrolyzers make them more efficient and safer to operate than other types of electrolyzers. The global PEM electrolyzer market is anticipated to increase by USD 890.0 million till 2029 at an average annual growth of 36.24 percent as per the latest market estimates.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global PEM electrolyzer market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the material type, end user, and region. The global market for PEM electrolyzer can be segmented by material type: platinum, iridium, others. Among these, the platinum segment was accounted for the highest revenue generator in 2022. PEM electrolyzer market is further segmented by end user: refining, energy, ammonia, methanol, transportation, others. The ammonia segment is estimated to account for the largest share of the global PEM electrolyzer market. Based on region, the PEM electrolyzer market is segmented into: Asia-Pacific, Europe, North America, RoW (Rest

of World). Europe held the largest share of the global PEM electrolyzer market in 2022 and is anticipated to hold its share during the forecast period.

### Market Segmentation

By material type: platinum, iridium, others

By end user: refining, energy, ammonia, methanol, transportation, others

By region: Asia-Pacific, Europe, North America, RoW (Rest of World)

The market research report covers the analysis of key stake holders of the global PEM electrolyzer market. Some of the leading players profiled in the report include Siemens Energy AG, Cummins, Inc., Nel ASA, Plug Power, Inc., Hitachi Zosen Corporation, Teledyne Energy Systems, Inc., Elogen, ITM Power plc, Ningbo VET Energy Technology Co., Ltd., Elchemtech Co., Ltd., Beijing SinoHy Energy Co., Ltd., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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### Scope of the Report

To analyze and forecast the market size of the global PEM electrolyzer market.

To classify and forecast the global PEM electrolyzer market based on material type, end user, region.

To identify drivers and challenges for the global PEM electrolyzer market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global PEM electrolyzer market.

To identify and analyze the profile of leading players operating in the global PEM electrolyzer market.

### Why Choose This Report

Gain a reliable outlook of the global PEM electrolyzer market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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Teledyne Energy Systems, Inc.  
Elogen  
ITM Power plc  
Ningbo VET Energy Technology Co., Ltd.  
Elchemtech Co., Ltd.  
Beijing SinoHy Energy Co., Ltd.  
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