

Global MEA & PEM Fuel Cell Market Growth 2024-2030

<https://marketpublishers.com/r/G700F11CF9BDEN.html>

Date: January 2024

Pages: 140

Price: US\$ 3,660.00 (Single User License)

ID: G700F11CF9BDEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our LPI (LP Information) latest study, the global MEA & PEM Fuel Cell market size was valued at US\$ 1117 million in 2023. With growing demand in downstream market, the MEA & PEM Fuel Cell is forecast to a readjusted size of US\$ 4200.4 million by 2030 with a CAGR of 20.8% during review period.

The research report highlights the growth potential of the global MEA & PEM Fuel Cell market. MEA & PEM Fuel Cell are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of MEA & PEM Fuel Cell. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the MEA & PEM Fuel Cell market.

A membrane electrode assembly (MEA) is an assembled stack of proton-exchange membranes (PEM) or alkali anion exchange membrane (AAEM), catalyst and flat plate electrode used in fuel cells and electrolyzers. The PEM is sandwiched between two electrodes which have the catalyst embedded in them. The electrodes are electrically insulated from each other by the PEM. These two electrodes make up the anode and cathode respectively.

Proton-exchange membrane fuel cells, also known as polymer electrolyte membrane (PEM) fuel cells (PEMFC), are a type of fuel cell being developed mainly for transport applications, as well as for stationary fuel-cell applications and portable fuel-cell applications. Their distinguishing features include lower temperature/pressure ranges (50 to 100 °C) and a special proton-conducting polymer electrolyte membrane. PEMFCs generate electricity and operate on the opposite principle to PEM electrolysis,

which consumes electricity. They are a leading candidate to replace the aging alkaline fuel-cell technology, which was used in the Space Shuttle.

The global key manufacturers of MEA & PEM fuel cell are Plug Power, Hyundai Mobis, Toyota, Ballard, Cemt and Shenli Hi-Tech, etc., among which the top three manufacturers occupy more than 60%, and the largest manufacturer is Hyundai Mobis at present. The global production of membrane electrodes and PEM fuel cells is mainly distributed in Japan, South Korea, China, North America and other regions, among which the top four regions occupy more than 95% of the market share, and Japan is the largest production region which accounting for almost 30% production market share. In terms of its product categories, the 10KW-100KW specification has the highest market share of over 50%, followed by specifications over 100KW. In terms of its applications, the transportation industry is the biggest application area, with a market share of over 90%?followed by stationary..

Key Features:

The report on MEA & PEM Fuel Cell market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the MEA & PEM Fuel Cell market. It may include historical data, market segmentation by Type (e.g., Below 10KW, 10KW-100KW), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the MEA & PEM Fuel Cell market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the MEA & PEM Fuel Cell market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the MEA & PEM Fuel Cell industry. This include advancements in MEA & PEM Fuel Cell technology, MEA & PEM Fuel Cell new entrants, MEA & PEM Fuel Cell new investment, and other innovations that are shaping

the future of MEA & PEM Fuel Cell.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the MEA & PEM Fuel Cell market. It includes factors influencing customer ' purchasing decisions, preferences for MEA & PEM Fuel Cell product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the MEA & PEM Fuel Cell market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting MEA & PEM Fuel Cell market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the MEA & PEM Fuel Cell market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the MEA & PEM Fuel Cell industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the MEA & PEM Fuel Cell market.

Market Segmentation:

MEA & PEM Fuel Cell market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Below 10KW

10KW-100KW

Above 100KW

Segmentation by application

Transportation

Stationary

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Plug Power

Hyundai Mobis

Toyota

Ballard

Cummins (Hydrogenics)

Panasonic

Cemt

Shenli Hi-Tech

Sinosynergy

Horizon

Nedstack

Vision Group

SHPT

Foresight energy

Sunrise Power

Key Questions Addressed in this Report

What is the 10-year outlook for the global MEA & PEM Fuel Cell market?

What factors are driving MEA & PEM Fuel Cell market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do MEA & PEM Fuel Cell market opportunities vary by end market size?

How does MEA & PEM Fuel Cell break out type, application?

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