

Global MEA & PEM Fuel Cell Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global MEA & PEM Fuel Cell market size is expected to reach \$ 4021.2 million by 2029, rising at a market growth of 19.2% CAGR during the forecast period (2023-2029).

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..

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.

This report studies the global MEA & PEM Fuel Cell production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MEA & PEM Fuel Cell, 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 MEA & PEM Fuel Cell that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MEA & PEM Fuel Cell total production and demand, 2018-2029, (MW)

Global MEA & PEM Fuel Cell total production value, 2018-2029, (USD Million)

Global MEA & PEM Fuel Cell production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MW)

Global MEA & PEM Fuel Cell consumption by region & country, CAGR, 2018-2029 & (MW)

U.S. VS China: MEA & PEM Fuel Cell domestic production, consumption, key domestic manufacturers and share

Global MEA & PEM Fuel Cell production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (MW)

Global MEA & PEM Fuel Cell production by Type, production, value, CAGR, 2018-2029, (USD Million) & (MW)

Global MEA & PEM Fuel Cell production by Application production, value, CAGR, 2018-2029, (USD Million) & (MW).

This reports profiles key players in the global MEA & PEM Fuel Cell 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, Hyundai Mobis, Toyota, Ballard, Cummins (Hydrogenics), Panasonic, Cemt, Shenli Hi-Tech and Sinosynergy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World MEA & PEM Fuel Cell market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) 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 MEA & PEM Fuel Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEA & PEM Fuel Cell Market, Segmentation by Type

Below 10KW

10KW-100KW

Above 100KW

Global MEA & PEM Fuel Cell Market, Segmentation by Application

Transportation

Stationary

Others

Companies Profiled:

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 Answered

1. How big is the global MEA & PEM Fuel Cell market?
2. What is the demand of the global MEA & PEM Fuel Cell market?
3. What is the year over year growth of the global MEA & PEM Fuel Cell market?
4. What is the production and production value of the global MEA & PEM Fuel Cell market?
5. Who are the key producers in the global MEA & PEM Fuel Cell market?
6. What are the growth factors driving the market demand?

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