

Global PEM Fuel Cell Catalysts Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G12384A6F8D1EN.html>

Date: January 2024

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: G12384A6F8D1EN

Abstracts

According to our (Global Info Research) latest study, the global PEM Fuel Cell Catalysts market size was valued at USD 310.3 million in 2023 and is forecast to a readjusted size of USD 789.5 million by 2030 with a CAGR of 14.3% during review period.

In a PEM Fuel Cell, hydrogen fuel is oxidized at the anode where electrons are separated from protons on the surface of a precious metal catalyst. The protons pass through the membrane to the cathode side of the cell while the electrons travel in an external circuit, generating the electrical output of the cell. On the cathode side, another precious metal catalyst combines the protons and electrons with oxygen (from the air) to produce water, which is expelled as the only waste product. The fuel cells typically use a platinum catalyst to speed up the reaction at the oxygen electrode. The report studies catalysts used in Proton-exchange membrane fuel cells.

Global core PEM fuel cell catalysts manufacturers include Johnson Matthey, Tanaka and Umicore etc. The top 3 companies hold a share about 64%. Middle East and Africa is the largest market, with a share about 42%, followed by Asia Pacific and Europe with the share about 36% and 18%.

In terms of product, platinum-based is the largest segment, with a share about 90%. And in terms of application, the largest application is transportation with a share about 73%, followed by stationary power and portable power.

The Global Info Research report includes an overview of the development of the PEM Fuel Cell Catalysts industry chain, the market status of Transportation (Platinum-based, Non-platinum), Stationary Power (Platinum-based, Non-platinum), and key enterprises

in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of PEM Fuel Cell Catalysts.

Regionally, the report analyzes the PEM Fuel Cell Catalysts markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global PEM Fuel Cell Catalysts market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the PEM Fuel Cell Catalysts market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the PEM Fuel Cell Catalysts industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Platinum-based, Non-platinum).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the PEM Fuel Cell Catalysts market.

Regional Analysis: The report involves examining the PEM Fuel Cell Catalysts market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the PEM Fuel Cell Catalysts market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to PEM Fuel Cell Catalysts:

Company Analysis: Report covers individual PEM Fuel Cell Catalysts manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards PEM Fuel Cell Catalysts. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Transportation, Stationary Power).

Technology Analysis: Report covers specific technologies relevant to PEM Fuel Cell Catalysts. It assesses the current state, advancements, and potential future developments in PEM Fuel Cell Catalysts areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the PEM Fuel Cell Catalysts market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

PEM Fuel Cell Catalysts 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.

Market segment by Type

Platinum-based

Non-platinum

Market segment by Application

Transportation

Stationary Power

Portable Power

Major players covered

Johnson Matthey

Tanaka

Umicore

Nisshinbo

VINATech

Clariant

BASF

Cataler

Heraeus

ENY-Mobility

Wuhan Himalaya

Kunshan Sunlaite

Ningbo Zhongke

SuZhou Hydrogine Power Technology Co

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PEM Fuel Cell Catalysts product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PEM Fuel Cell Catalysts, with price, sales, revenue and global market share of PEM Fuel Cell Catalysts from 2019 to 2024.

Chapter 3, the PEM Fuel Cell Catalysts competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PEM Fuel Cell Catalysts breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and PEM Fuel Cell Catalysts market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PEM Fuel

Cell Catalysts.

Chapter 14 and 15, to describe PEM Fuel Cell Catalysts sales channel, distributors, customers, research findings and conclusion.

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