

Global PEM Water Electrolysis Iridium Catalyst Market Growth 2026-2032

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Abstracts

The global PEM Water Electrolysis Iridium Catalyst market size is predicted to grow from US\$ 1761 million in 2025 to US\$ 4251 million in 2032; it is expected to grow at a CAGR of 13.5% from 2026 to 2032.

PEM water electrolysis iridium catalysts are iridium-based electrocatalysts used at the anode for the oxygen evolution reaction (OER) in proton exchange membrane (PEM) water electrolysis. The main forms include iridium oxide, iridium black, iridium-ruthenium oxides, doped iridium oxides, and support-supported iridium oxides. They are delivered as powders, inks, coated catalyst layers, or within membrane electrode assemblies (MEAs). The estimated overall gross margin is approximately 45%.

The market is primarily driven by the scaling of PEM electrolyzers and the need to reduce precious metal costs at the anode. PEM systems are characterized by high current density, rapid start-stop capability, and compatibility with variable renewable energy inputs. New green hydrogen projects directly increase demand for MEAs, catalyst-coated membranes (CCMs), and iridium-based OER catalysts. Commercially, the market remains heavily dependent on iridium oxide or iridium-based composites, with buyers focusing on iridium content, specific surface area, crystallography, stability, degradation over cycling, and batch-to-batch consistency.

The key growth challenge is not replacing iridium, but reducing iridium consumption per unit power while maintaining catalyst lifetime. Research and adoption are focusing on low-iridium, ultra-low-iridium, support-supported iridium oxide, and iridium-ruthenium composite systems. Price volatility and concentrated supply of iridium have led buyers to emphasize closed-loop recovery, supply security, and long-term framework agreements. Leading international precious metal suppliers maintain control over high-

end customers and recycling systems, while domestic suppliers are increasing market share through kilogram-scale production, localization validation, and demonstration project deployment.

Short-term market growth is affected by green hydrogen project delays and PEM electrolyzer utilization rates, causing shipment fluctuations. In the medium to long term, policy targets, industrial decarbonization, and large-scale electrolyzer deployment will expand demand. Due to the scarcity of iridium, future competition will focus on low-loading formulations, commercial lifetime data, MEA process compatibility, and precious metal recovery capabilities.

LP Information, Inc. (LPI) ' newest research report, the "PEM Water Electrolysis Iridium Catalyst Industry Forecast" looks at past sales and reviews total world PEM Water Electrolysis Iridium Catalyst sales in 2025, providing a comprehensive analysis by region and market sector of projected PEM Water Electrolysis Iridium Catalyst sales for 2026 through 2032. With PEM Water Electrolysis Iridium Catalyst sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PEM Water Electrolysis Iridium Catalyst industry.

This Insight Report provides a comprehensive analysis of the global PEM Water Electrolysis Iridium Catalyst landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PEM Water Electrolysis Iridium Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PEM Water Electrolysis Iridium Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PEM Water Electrolysis Iridium Catalyst and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PEM Water Electrolysis Iridium Catalyst.

This report presents a comprehensive overview, market shares, and growth opportunities of PEM Water Electrolysis Iridium Catalyst market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Catalyst Powder

Catalyst Ink

Catalyst-Coated Membrane

Catalyst-Coated Electrode

Segmentation by Catalyst Chemistry:

Iridium Oxide Catalyst

Iridium Black Catalyst

Iridium-Ruthenium Oxide Catalyst

Doped Iridium Oxide Catalyst

Supported Iridium Oxide Catalyst

Segmentation by Iridium Content:

High-Iridium Catalyst

Medium-Iridium Catalyst

Low-Iridium Catalyst

Ultra-Low-Iridium Catalyst

Segmentation by Support System:

Unsupported Catalyst

Oxide-Supported Catalyst

Conductive-Oxide-Supported Catalyst

Hybrid-Support Catalyst

Segmentation by Application:

Commercial PEM Electrolyzer Manufacturing

PEM MEA and CCM Manufacturing

Pilot and Demonstration Hydrogen Systems

Catalyst Ink and Coating Process Development

Electrochemical R&D and Benchmarking

Iridium Recovery and Refurbishment

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 analysing the company's coverage, product portfolio, its market penetration.

Heraeus Precious Metals

TANAKA Precious Metals

Umicore

Johnson Matthey

BASF ECMS

Pajarito Powder

3M

Jiping New Energy

Shengshui Technology

American Elements

Key Questions Addressed in this Report

What is the 10-year outlook for the global PEM Water Electrolysis Iridium Catalyst market?

What factors are driving PEM Water Electrolysis Iridium Catalyst market growth, globally and by region?

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

How do PEM Water Electrolysis Iridium Catalyst market opportunities vary by end market size?

How does PEM Water Electrolysis Iridium Catalyst break out by Type, by Application?

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