

Sustainable Catalysts Market Size, Share & Trends Analysis Report By Product (Heterogeneous, Homogeneous, Biocatalysts/Enzymatic Catalysts), By Application (Petrochemical & Refining, Chemical Synthesis), By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The global sustainable catalysts market size was estimated at USD 4.88 billion in 2024 and is projected to reach USD 12.29 billion by 2033, growing at a CAGR of 10.9% from 2025 to 2033. The industry is driven by the accelerating global shift toward green chemistry and decarbonization.

Stringent environmental regulations and the transition to low-carbon industrial operations are pushing manufacturers to adopt eco-friendly catalyst solutions that minimize waste, energy consumption, and hazardous by-products. Industries such as chemicals, refining, and polymers are actively integrating sustainable catalysts to meet emission targets and improve process efficiency. Another major driver is the rising demand for renewable and bio-based feedstocks, which require specialized catalytic systems. Sustainable catalysts, such as biocatalysts, recyclable metals, and non-toxic materials, enable the production of green fuels, bio-based polymers, and sustainable chemicals, aligning with the circular economy model. This shift is supported by government initiatives and R&D investments promoting carbon neutrality and sustainable manufacturing.

Additionally, advancements in nanocatalysis, single-atom catalysts, and hybrid catalyst systems are expanding the performance capabilities of sustainable catalysts. These technologies enhance activity, selectivity, and reusability, enabling industries to achieve

higher output with reduced environmental impact. The combination of technological innovation and regulatory momentum continues to propel market growth globally.

Furthermore, the increasing focus on sustainability and green chemistry is reshaping adhesive formulations, creating new opportunities for silane-modified polymers (Biocatalysts/Enzymatic Catalysts), water-based polyurethane, and silicone-based systems. Manufacturers are investing in the development of low-VOC, solvent-free, and bio-based adhesives to comply with tightening environmental regulations across Europe and North America. In addition, the growth of chemical synthesis automation and advanced manufacturing technologies has driven the use of sustainable catalysts in electronic assemblies, consumer goods, and renewable energy components. Collectively, these factors underscore a structural shift in material joining solutions, positioning sustainable catalysts as a key enabler of innovation and performance in high-growth end-use industries.

Global Sustainable Catalysts Market Report Segmentation

This report forecasts volume & revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2033. For this study, Grand View Research has segmented the global sustainable catalysts market report based on product, application, and region:

Product Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Heterogeneous

Homogeneous

Biocatalysts/Enzymatic Catalysts

Application Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Petrochemical & Refining

Chemical Synthesis

Environmental Catalysis

Renewable Energy

Polymer & Plastic Recycling

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

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