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Biorefinery Technologies Market By Feedstock Type (Lignocellulosic Biomass, Algae, Others) , By Technology Type (Biochemical Process, Thermochemical Process, Others) By End-Use Industry (Transportation, Chemicals, Energy, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

https://marketpublishers.com/r/B15A8D3A0AE0EN.html
Date: July 2024
Pages: 300
Price: US$ 2,601.00 (Single User License)
ID: B15A8D3A0AE0EN

Abstracts

The biorefinery technologies market was valued at $187.9 billion in 2023, and is projected t%li%reach $476.4 billion by 2033, growing at a CAGR of 9.8% from 2024 t%li%2033.

Biorefinery technologies are processes that convert biomass—such as plant materials, organic waste, and other renewable resources—int%li%a spectrum of valuable products, including biofuels, biochemicals, and bio-based materials, which can serve as sustainable alternatives t%li%traditional fossil-based products. By utilizing advanced biorefinery technologies, industries can contribute t%li%reducing carbon footprints, enhancing energy security, and fostering a circular bioeconomy.

The growth of the global biorefinery technologies market is majorly driven by surge in demand for biofuels and other renewable energy products from biorefineries. A 2021 study by the U.S. Department of Agriculture (USDA) estimates that biorefineries could produce up t%li%50 million tons of biochemicals annually from agricultural residues in the United States alone, which would significantly reduce dependence on petroleum-based chemicals. Moreover, diminishing reserves of fossil fuels and the volatility of oil prices are fostering the growth of the global market. In addition, rise in concerns about waste disposal and the need t%li%minimize environmental impact are encouraging the

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use of organic waste as feedstock in biorefineries. Increase in awareness among consumers about environmental issues is further fostering the demand for eco-friendly, bio-based products, which, in turn, fuels the demand for biorefinery technologies. Furthermore, increase in need t%li%reduce reliance on fossil fuels and enhance energy security foster the market growth. Moreover, many countries, including China, India, the U.S., and the European Union—the largest emitters—are aiming t%li%achieve net zer%li%emissions by 2050. The International Energy Agency estimates that t%li%reach net-zer%li%emissions by 2050, annual global carbon emissions must fall by around 40% by 2030 compared t%li%2020 levels. T%li%help meet this goal, these countries have focused on biorefinery technologies, which is expected t%li%significantly contribute toward the growth of the global market. In addition, many countries have adopted the circular economy approach that focuses on extending the lifecycle of products, minimizing waste, and making the most of resources. The European Union has been a pioneer in promoting circular economy practices through policies and regulations such as the Circular Economy Action Plan, which aims t%li%make Europe a leader in sustainable resource management and waste reduction. Thus, such initiatives significantly promote the use of biorefinery technologies. However, establishing biorefineries requires substantial upfront investment in infrastructure, technology, and R&D. This high capital cost acts as a significant barrier for the market growth. Moreover, despite the environmental benefits, bio-based products often face stiff competition from established fossil fuel-based products, which are cheaper. On the contrary, innovations in biotechnology, such as genetic engineering, enzyme technology, and microbial fermentation, are enhancing the efficiency and scalability of biorefinery processes, which are expected t%li%offer lucrative growth opportunities for the market. The integration of digital technologies, such as IoT, AI, and ML, in biorefinery operations is improving process efficiency, reducing costs, and enhancing product quality, thereby driving market growth.

The global biorefinery technologies market is segmented int%li%feedstock type, technology type, end-use industry, and region. By feedstock type, the market is segregated int%li%lignocellulosic biomass, algae, and others. On the basis of technology type, it is fragmented int%li%biochemical process, thermochemical process, and others. Depending end-use industry, it is segregated int%li%transportation, chemicals, energy, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of feedstock type, the lignocellulosic biomass is expected t%li%dominate

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the market from 2024 t%li%2033.

By technology type, the biochemical process segment is anticipated t%li%lead throughout the forecast period.

Depending end-use industry, transportation is projected t%li%emerge as the leading segment in the biorefinery technologies market throughout the forecast period.

Region wise, Asia-Pacific t%li%likely t%li%maintain its dominance by 2033.

Competition Analysis

Competitive analysis and profiles of the major players in the global biorefinery technologies market include ADM, Valero, Green Plains Inc., NEXBTL Technology, CLARIANT, BP p.l.c., Cargill, Incorporated, Louis Dreyfus Company, Novozymes A/S, and Enerkem. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships t%li%sustain the intense competition and gain a strong foothold in the global market.

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Consumer Buying Behavior Analysis

End user preferences and pain points

Investment Opportunities

Product Benchmarking / Product specification and applications

Upcoming/New Entrant by Regions

Technology Trend Analysis

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific t%li%client's interest

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

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Market share analysis of players at global/region/country level

SWOT Analysis

Key Market Segments

By Feedstock Type

Lignocellulosic Biomass

Algae

Others

By Technology Type

Biochemical Process

Thermochemical Process

Others

By End-Use Industry

Transportation

Chemicals

Energy

Others

By Region

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North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

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South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

ADM

Valero

Green Plains Inc.

NEXBTL Technology

CLARIANT

BP p.l.c.

Cargill, Incorporated

Louis Dreyfus Company

Novozymes A/S

Enerkem

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