

Global Biorefinery Market Size study & Forecast, by Feedstock (Starch & Sugar Crops, Energy Crops, Organic & Agricultural Residues, Multifeedstock, Others), by Process (Biochemical Processes, Chemical Processes, Mechanical/ Physical Processes, Thermochemical Processes, Multiprocess), by Product (Energy, Chemicals, Materials, Others) and Regional Analysis, 2022-2029

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Abstracts

Global Biorefinery Market is valued at approximately USD 41.88 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 8.6% over the forecast period 2022-2029. A biorefinery is a facility that uses machinery and procedures for converting biomass into fuels, electricity, chemicals, materials, food, and animal feed. It is an environmentally friendly way to transform biomass into a variety of bio-based goods and bioenergy. A biorefinery produces a variety of compounds by fractionating an initial raw material into several intermediates, such as carbohydrates, proteins, and triglycerides, which can then be processed into products with added value. Cascading phase is the name given to this stage of refining. The growing investments in the infrastructure needed to set up biorefineries have boosted in response to the rising need for clean energy fuels. Accordingly, the increase in demand for biofuels and bio-based polymers, coupled with rapid industrialization and urbanization are the prominent factors that are boosting the demand for biorefinery across the globe.

The rising number of regulatory policies for environmental protection to bolster investments is acting as a catalyzing factor for market growth across the globe. The current version of the National Policy on Biofuels, which was first released in 2009, was

adopted by the Union Cabinet in May 2018. The programme aims to move towards the indicative goal of attaining a 20% blending of fossil-based fuels with biofuels by 2030. In addition, the International Energy Agency (IEA Bioenergy) estimates that in 2019, renewable energy made up 12% of the nation's overall energy supply in the U.K. and that 60% of that energy came from biomass. In addition, the UK's Total Energy Supply (TES) from biomass in 2019 totaled 572 PJ (petajoules). Thus, these aforementioned factors are likely to boost the market demand at a substantial rate. Moreover, the high depletion rate of fossil fuels, as well as the increasing technological advancements and related investments in biorefinery market are presenting various lucrative opportunities over the forecasting years. However, the increase in requirement of high initial capital investments, along with the variable and high cost of feedstock are challenging the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Biorefinery Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. The Asia Pacific dominated the market in terms of revenue, owing to the high production and usage of biofuel and the rising number of government policies. Whereas, Europe is expected to grow with the highest CAGR during the forecast period, owing to factors such as rising government expenditure on bioenergy development initiatives, as well as increasing focus on sustainable energy development and reducing its carbon footprint in the market space.

Major market players included in this report are:

Honeywell International Inc.

Chempolis

Sekab

Ørsted A/S

IES BIOGAS srl

AB HOLDING SPA

Zea2 Bioworks

UPM Global

Neste

BTS Biogas Srl/GmbH

Recent Developments in the Market:

In September 2022, AFYREN announced the opening of its first sizable factory, AFYREN NEOXY in Carling Saint-Avold, France. The announcement was made on the Chemesis business platform. Carboxylic acids are directly obtained from sugar beet co-

products through purification, extraction, and fermentation to offer a low-carbon substitute.

In June 2022, Fintoil and Neste Engineering Solutions chose Emerson automation software and solutions to maximize the operational performance of their Hamina-Kotka biorefinery. Advanced biofuels and biochemical feedstocks are produced at the factory in Finland, which will aid in lowering emissions and dependence on fossil fuels.

Global Biorefinery Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Feedstock, Process, Product, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Feedstock:

Starch & Sugar Crops

Energy Crops

Organic & Agricultural Residues

Multifeedstock

Others

By Process:

Biochemical Processes

Chemical Processes

Mechanical/ Physical Processes
Thermochemical Processes
Multiprocess

By Product:

Energy
Chemicals
Materials
Others

By Region:

North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

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