

Global Biorefinery Market Size, Status and Forecast 2020-2026

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Abstracts

Biorefinery is the sustainable processing of biomass into a spectrum of marketable products and energy. In this process, agriculture waste, Plant-based starch and lignocellulosic materials are used to produce all kinds of chemicals, fuel and bio-based materials. Biorefinery can be a facility, a process, a plant, or even a cluster of facilities. A main driver for the establishment of biorefineries is the sustainability aspect. All biorefineries should be assessed for the entire value chain on their environmental, economic, and social sustainability covering the whole life cycle (construction—operation—dismantling). This assessment should also take into account the possible consequences due to the competition for food and biomass resources, the impact on water use and quality, changes in land-use, soil carbon stock balance and fertility, net balance of GHGs, impact on biodiversity, potential toxicological risks, and energy efficiency.

Successful market implementation of integrated biorefineries requires reliable processing units combined with environmentally acceptable and economically profitable production chains. Development and implementation of the biorefinery concept should include crop cultivation and the selection of crops that maximize full chain performance. Further biorefinery improvement is expected to generate more feedstocks, technologies, and coproducts, inevitably offering all kinds of economic opportunities. Research and development will speed up agricultural and rural development, increase industrial development, and open existing and newly created markets. It can be foreseen, however, that biorefinery technologies will develop gradually over time, because the more fractions are obtained the more markets should be served. All these markets dictate that raw materials and intermediates are available at a rather constant supply and therefore prices. The built up of this raw material supply will take time. Biorefineries can provide a significant contribution to sustainable development, generating added value to sustainable biomass use and producing a range of biobased

products (food, feed, materials, chemicals, fuels, power, and/or heat) at the same time. This requires optimal biomass conversion efficiency, thus minimizing feedstock requirements while at the same time strengthening economic viability of (e.g., agriculture, forestry, chemical and energy) market sectors. As biomass availability is limited, it should be used efficiently, effectively producing materials and energy in multi-purpose biorefineries. The perceived conflict between energy and food production can be allayed by developing technologies based on lignocellulosic materials but it was discussed before that this currently results in a much higher BCI. Biorefining requires further innovation but offers opportunities to all economic sectors. Building a biobased economy can help to overcome present difficulties while laying the foundation of an environmentally benign industry.

One of the key prerequisites of a successful biorefinery is to invite key stakeholders from separate backgrounds (agriculture/forestry, transportation fuels, chemicals, energy, etc.) to discuss common processing topics, foster necessary R&D trajectories and stimulate deployment of developed technologies in multi-disciplinary partnerships. Optimal economic and environmental performance can be further guaranteed by linking the most promising biobased products, that is, food, feed, (fiber-based) added-value materials and (functionalized and platform) chemicals with bioenergy production. Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the Biorefinery market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting production and demand, by creating supply chain and market disruption, and by its financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the Biorefinery industry.

Based on our recent survey, we have several different scenarios about the Biorefinery YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ 44340 million in 2019. The market size of Biorefinery will reach xx in 2026, with a CAGR of xx% from 2020 to 2026.

With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global Biorefinery market to

help players in achieving a strong market position. Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global Biorefinery market in terms of revenue.

Players, stakeholders, and other participants in the global Biorefinery market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on revenue and forecast by each application segment in terms of revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Biorefinery market, covering important regions, viz, North America, Europe, China, Japan, Southeast Asia, India and Central & South America. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, UAE, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of revenue for the period 2015-2026.

Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of the global Biorefinery market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on revenue by the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020.

On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global Biorefinery market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global Biorefinery market.

The following players are covered in this report:

Abengoa Bioenergy Corp

Pacific Ethanol

Neste Oil OYJ

Renewable Energy Group Inc

UOP LLC

Valero Energy Corp

...

Biorefinery Breakdown Data by Type

Biochemical

Thermochemical

Biorefinery Breakdown Data by Application

Bulk chemicals

Biomaterial

Biofuel

Pharmaceuticals and food additives

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