

Europe Second Generation Biofuels Market Size study, by Type (Cellulosic Ethanol, Biodiesel, Bio Butanol, Others), by Feedstock (Simple Lignocellulose, Complex Lignocellulose, Syngas, Algae, Others), by Process (Biochemical Process, Thermochemical Process), by Application (Transportation, Power Generation, Others) and Country Forecasts 2022-2032

<https://marketpublishers.com/r/E58CECB6F969EN.html>

Date: July 2024

Pages: 200

Price: US\$ 6,250.00 (Single User License)

ID: E58CECB6F969EN

Abstracts

Europe Second Generation Biofuels Market is valued approximately USD 2.05 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 26.52% over the forecast period 2024-2032. Second generation biofuels uses feedstocks such as agricultural residues (corn stover, wheat straw), forestry residues (wood chips, sawdust), energy crops (switchgrass, miscanthus), and organic waste (municipal solid waste, landfill gas) to produce liquid transportation fuels including ethanol, biodiesel, and renewable diesel. These biofuels are thought to be more sustainable than first-generation alternatives because they don't compete with food production and often have fewer greenhouse gas emissions. The Europe Second Generation Biofuels Market has been experiencing several trends, driven by factors such as advances in biotechnology, biochemical processes, and biomass conversion technologies. These trends in the Europe Second Generation Biofuels Market, help in continued growth during the forecast period, 2024-2032.

Environmental concerns and the imperative to mitigate climate change are significant drivers fueling the demand for second-generation biofuels in Europe. With heightened awareness of the adverse effects of greenhouse gas emissions on the environment,

there is a growing urgency to transition to cleaner, renewable energy sources. Second-generation biofuels offer a promising solution by significantly reducing lifecycle carbon emissions compared to fossil fuels. By utilizing non-food biomass feedstocks such as agricultural residues, forestry residues, and waste materials, these biofuels contribute to minimizing environmental degradation and conserving natural resources. Moreover, they align with the European Union's renewable energy targets and regulatory frameworks, such as the Renewable Energy Directive (RED), which mandate increased use of renewable fuels to combat climate change. As a result, the Europe Second Generation Biofuels Market is poised for further growth as governments, industries, and consumers increasingly prioritize sustainable energy solutions. For instance, in June 2022, Clariant, an innovative and sustainable specialty chemical company, announced that it had formed the first commercial cellulosic ethanol at its sunliquid production plant in Podari, Romania. However, high production costs and fluctuating oil prices can impact the economic attractiveness of biofuels, these factors can stifle market growth during the forecast period 2024-2032.

The key countries considered for the Europe Second Generation Biofuels market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the dominating regional market. Germany has ambitious renewable energy targets and strict environmental regulations aimed at reducing greenhouse gas emissions. Policies such as the Renewable Energy Sources Act (EEG) and the National Climate Protection Plan prioritize the use of biofuels to achieve these goals, driving demand for second-generation biofuels. Germany's strong industrial base and well-developed infrastructure provide a conducive environment for the growth of the biofuels market. Established biofuel producers, research institutions, and engineering firms collaborate to develop and commercialize second-generation biofuel technologies, leveraging the country's infrastructure and expertise. For instance, in February 2022, BDI-BioEnergy International GmbH signed a contract with Renewable Energy Group to upgrade two biodiesel plants in Germany by connecting an innovative feedstock pretreatment technology to process wastes oils and fats. The market in the UK, on the other hand, is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:

Clariant AG
Fiberight Ltd
INEOS Group
?rsted A/S
Drax Group
Company 6

Company 7
Company 8
Company 9
Company 10

The detailed segments and sub-segment of the market are explained below:

By Type

Cellulosic Ethanol
Biodiesel
Bio Butanol
Others

By Feedstock

Simple Lignocellulose
Complex Lignocellulose
Syngas
Algae
Others

By Process

Biochemical Process
Thermochemical Process

By Application

Transportation
Power Generation
Others

By Region:

Europe
UK
Germany
France
Spain
Italy
ROE

Years considered for the study are as follows:

Europe Second Generation Biofuels Market Size study, by Type (Cellulosic Ethanol, Biodiesel, Bio Butanol, Othe...

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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