

Europe Bio-Butanol Market Size, Share, Trends & Analysis by Application (Acetates, Biofuel, Acrylates, Plasticizers, Glycol Ethers, Others), by Raw Material (Cereal Crops, Sugarcane Bagasse, Waste Biomass, Others), by End-Use Industry (Transportation, Construction, Medical, Power Generation, Others) and Region, with Forecasts from 2024 to 2034.

<https://marketpublishers.com/r/EEB5F259B9C2EN.html>

Date: February 2025

Pages: 180

Price: US\$ 3,680.00 (Single User License)

ID: EEB5F259B9C2EN

Abstracts

Market Overview

The Europe Bio-Butanol Market is poised for significant growth from 2024 to 2034, driven by increasing demand for sustainable bio-based chemicals, stringent environmental regulations, and growing adoption of biofuels. Bio-butanol, an advanced biofuel and chemical intermediate, is gaining traction as a renewable alternative to petroleum-based butanol due to its lower carbon footprint and compatibility with existing fuel infrastructure. The market is projected to grow at a robust compound annual growth rate (CAGR) of XX.XX% over the forecast period, reaching USD XX.XX billion by 2034 from USD XX.XX billion in 2024. The key market drivers include:

Rising Demand for Biofuels – Increasing focus on reducing greenhouse gas emissions and dependence on fossil fuels is driving bio-butanol adoption as a blending component in gasoline.

Government Policies and Incentives – Supportive policies, including renewable energy targets, carbon credit programs, and financial incentives for bio-based product development, are fostering market expansion.

Growing Applications in the Chemical Industry – Bio-butanol is widely used as a feedstock in the production of acetates, acrylates, plasticizers, and glycol ethers, benefiting from the shift toward sustainable chemicals.

Advancements in Fermentation Technology – Innovations in fermentation processes, including the use of genetically modified microorganisms and optimized biomass conversion techniques, are enhancing production efficiency and cost-effectiveness.

Definition and Scope of Bio-Butanol

Bio-butanol is an alcohol derived from biomass sources such as cereal crops, sugarcane bagasse, and waste biomass through fermentation. It serves as a biofuel and chemical intermediate, offering superior energy content compared to ethanol and improved compatibility with existing fuel systems. The market is categorized based on application (acetates, biofuel, acrylates, plasticizers, glycol ethers, and others), raw material (cereal crops, sugarcane bagasse, waste biomass, and others), and end-use industry (transportation, construction, medical, power generation, and others).

Market Restraints

High Production Costs – The cost of bio-butanol production remains higher than conventional butanol due to raw material costs, process inefficiencies, and capital investment requirements.

Feedstock Availability and Competition – Limited availability of sustainable biomass feedstocks and competition with food and other bio-based products may impact supply stability and pricing.

Infrastructure and Distribution Challenges – Despite its compatibility with existing fuel systems, large-scale adoption of bio-butanol requires infrastructure investments and supply chain development.

Opportunities

Expansion in Green Chemical Applications – Increasing focus on sustainable chemicals is driving demand for bio-butanol as a key ingredient in bio-based

coatings, adhesives, and solvents.

Rising Investments in Biorefineries – Growing investments in bio-refineries across Europe are enhancing production capacities and technological advancements in bio-butanol manufacturing.

Emerging Markets in Eastern Europe – Rapid industrialization and favorable government policies in Eastern European countries present lucrative growth opportunities for bio-butanol producers.

Market Segmentation Analysis

By Application

Acetates

Biofuel

Acrylates

Plasticizers

Glycol Ethers

Others

By Raw Material

Cereal Crops

Sugarcane Bagasse

Waste Biomass

Others

By End-Use Industry

Transportation

Construction

Medical

Power Generation

Others

Regional Analysis

Germany: A key market due to strong government support for biofuels, advanced chemical manufacturing infrastructure, and growing sustainability initiatives in the industrial sector.

France: Increasing adoption of bio-based chemicals, coupled with stringent environmental regulations, is driving bio-butanol demand in the country.

United Kingdom: The UK market is benefiting from investments in renewable energy, biofuel blending mandates, and advancements in biomass conversion technologies.

Italy & Spain: Growing construction and transportation sectors, along with favorable policies supporting biofuel integration, are fueling market growth.

Rest of Europe: Countries in Eastern and Northern Europe are witnessing rising interest in bio-based industries, supported by EU funding and sustainability programs.

The Europe Bio-Butanol Market is set for steady expansion, driven by advancements in bio-based fuel technologies, increasing regulatory support, and the growing shift toward sustainable chemicals. While production costs and feedstock limitations remain challenges, the market presents significant opportunities through green chemical applications, infrastructure investments, and expansion in emerging European markets.

Competitive Landscape

Key players in the Europe Bio-Butanol Market include:

Gevo, Inc.

Butamax Advanced Biofuels LLC (BP-DuPont Joint Venture)

Cathay Industrial Biotech

Green Biologics Ltd.

Eastman Chemical Company

METabolic EXplorer

Celtic Renewables Ltd.

Bioenergy International

Solvay S.A.

BASF SE

Contents

1. INTRODUCTION

- 1.1. Definition of Bio-Butanol
- 1.2. Scope of the Report
- 1.3. Research Methodology

2. EXECUTIVE SUMMARY

- 2.1. Key Findings
- 2.2. Market Snapshot
- 2.3. Key Trends

3. MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Rising Demand for Bio-Based and Sustainable Fuels
 - 3.1.2. Increasing Adoption of Bio-Butanol in the Transportation Sector
 - 3.1.3. Government Policies and Regulations Supporting Bio-Based Products
 - 3.1.4. Advancements in Fermentation and Production Technologies
 - 3.1.5. Other Market Drivers
- 3.2. Market Restraints
 - 3.2.1. High Production Costs Compared to Conventional Butanol
 - 3.2.2. Limited Availability of Raw Materials for Bio-Butanol Production
 - 3.2.3. Infrastructure Challenges in Biofuel Distribution
 - 3.2.4. Other Market Restraints
- 3.3. Market Opportunities
 - 3.3.1. Expansion of Bio-Refineries in Europe
 - 3.3.2. Increasing Investments in Biofuel Research and Development
 - 3.3.3. Rising Demand for Green Solvents in Chemical and Medical Applications
 - 3.3.4. Growth in Waste Biomass Utilization for Bio-Butanol Production
 - 3.3.5. Other Market Opportunities

4. EUROPE BIO-BUTANOL MARKET ANALYSIS

- 4.1. Market Size and Forecast (2024-2034)
- 4.2. Market Share Analysis by:
 - 4.2.1. Application

- 4.2.1.1. Acetates
- 4.2.1.2. Biofuel
- 4.2.1.3. Acrylates
- 4.2.1.4. Plasticizers
- 4.2.1.5. Glycol Ethers
- 4.2.1.6. Others
- 4.2.2. Raw Material
 - 4.2.2.1. Cereal Crops
 - 4.2.2.2. Sugarcane Bagasse
 - 4.2.2.3. Waste Biomass
 - 4.2.2.4. Others
- 4.2.3. End-Use Industry
 - 4.2.3.1. Transportation
 - 4.2.3.2. Construction
 - 4.2.3.3. Medical
 - 4.2.3.4. Power Generation
 - 4.2.3.5. Others
- 4.3. Value Chain Analysis
- 4.4. SWOT Analysis
- 4.5. Porter's Five Forces Analysis

5. REGIONAL MARKET ANALYSIS

- 5.1. Germany
 - 5.1.1. Market Overview
 - 5.1.2. Market Size and Forecast
 - 5.1.3. Key Trends
 - 5.1.4. Competitive Landscape
- 5.2. United Kingdom
 - 5.2.1. Market Overview
 - 5.2.2. Market Size and Forecast
 - 5.2.3. Key Trends
 - 5.2.4. Competitive Landscape
- 5.3. France
 - 5.3.1. Market Overview
 - 5.3.2. Market Size and Forecast
 - 5.3.3. Key Trends
 - 5.3.4. Competitive Landscape
- 5.4. Italy

- 5.4.1. Market Overview
- 5.4.2. Market Size and Forecast
- 5.4.3. Key Trends
- 5.4.4. Competitive Landscape
- 5.5. Spain
 - 5.5.1. Market Overview
 - 5.5.2. Market Size and Forecast
 - 5.5.3. Key Trends
 - 5.5.4. Competitive Landscape
- 5.6. Rest of Europe
 - 5.6.1. Market Overview
 - 5.6.2. Market Size and Forecast
 - 5.6.3. Key Trends
 - 5.6.4. Competitive Landscape

6. COMPETITIVE LANDSCAPE

- 6.1. Market Share Analysis of Key Players
- 6.2. Company Profiles of Key Players
 - 6.2.1. Gevo, Inc.
 - 6.2.2. Butamax Advanced Biofuels LLC (BP-DuPont Joint Venture)
 - 6.2.3. Cathay Industrial Biotech
 - 6.2.4. Green Biologics Ltd.
 - 6.2.5. Eastman Chemical Company
 - 6.2.6. METabolic EXplorer
 - 6.2.7. Celtic Renewables Ltd.
 - 6.2.8. Bioenergy International
 - 6.2.9. Solvay S.A.
 - 6.2.10. BASF SE
- 6.3. Recent Developments and Innovations
- 6.4. Strategic Initiatives

7. FUTURE OUTLOOK AND MARKET FORECAST

- 7.1. Market Growth Prospects
- 7.2. Technological Trends and Innovations
- 7.3. Investment Opportunities
- 7.4. Strategic Recommendations

8. KEY INSIGHTS AND REITERATION OF MAIN FINDINGS

9. FUTURE PROSPECTS FOR THE EUROPE BIO-BUTANOL MARKET

I would like to order

Product name: Europe Bio-Butanol Market Size, Share, Trends & Analysis by Application (Acetates, Biofuel, Acrylates, Plasticizers, Glycol Ethers, Others), by Raw Material (Cereal Crops, Sugarcane Bagasse, Waste Biomass, Others), by End-Use Industry (Transportation, Construction, Medical, Power Generation, Others) and Region, with Forecasts from 2024 to 2034.

Product link: <https://marketpublishers.com/r/EEB5F259B9C2EN.html>

Price: US\$ 3,680.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EEB5F259B9C2EN.html>