

North America 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.

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# **Abstracts**

#### Market Overview

The North America Bio-Butanol Market is set to witness substantial growth from 2024 to 2034, driven by increasing demand for sustainable fuel alternatives, advancements in bio-based chemical production, and rising environmental concerns. The market is projected to grow from USD XXX.XX million in 2024 to USD XX.XX million by 2034, registering a CAGR of XX.XX% over the forecast period. Key growth drivers include:

Growing Demand for Biofuels: Bio-butanol is gaining traction as a sustainable fuel additive due to its higher energy content and lower emissions compared to ethanol.

Rising Adoption in Chemical Manufacturing: Expanding applications in producing acetates, acrylates, and plasticizers are fueling market growth.

Stringent Environmental Regulations: Government policies promoting bio-based chemicals and reducing carbon emissions are supporting industry expansion.



## Definition and Scope of Bio-Butanol

Bio-butanol is a bio-based alcohol produced through the fermentation of biomass sources such as cereal crops, sugarcane bagasse, and waste biomass. It serves as an eco-friendly alternative to petroleum-based butanol and is widely utilized in fuel blending, chemical manufacturing, and various industrial applications. Its lower volatility, high energy density, and compatibility with existing fuel infrastructure make it a preferred biofuel option.

#### Market Drivers

Advancements in Fermentation and Biorefinery Technologies: Innovations in microbial fermentation and biocatalysts are enhancing the efficiency of biobutanol production.

Increasing Investments in Renewable Energy: Growing funding in biofuel R&D and infrastructure development is accelerating market expansion.

Expanding Applications in the Medical and Construction Sectors: The rising use of bio-butanol as a solvent and intermediate in pharmaceutical formulations and coatings is driving demand.

#### Market Restraints

High Production Costs Compared to Petrochemical Butanol: The cost-intensive nature of bio-butanol production remains a challenge for widespread adoption.

Feedstock Supply and Price Volatility: Dependence on biomass sources can lead to fluctuating production costs and supply chain constraints.

Competition from Other Biofuels: Ethanol and biodiesel remain dominant in the biofuel market, posing competition to bio-butanol.

### Opportunities



Development of Advanced Bio-Refineries: Integration of next-generation fermentation and separation technologies can improve yield and cost efficiency.

Growing Adoption in Power Generation: Bio-butanol's high energy content presents opportunities in renewable power generation.

Supportive Government Policies and Incentives: Tax benefits and subsidies for bio-based chemical production can drive market growth.

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

United States: The largest market, supported by robust biofuel policies, advanced chemical manufacturing infrastructure, and growing demand for ecofriendly fuels.

Canada: Increasing investments in renewable energy projects and strong government support for bio-based chemicals are driving market growth.

Mexico: Expanding industrialization and rising interest in sustainable fuel alternatives are contributing to the market expansion.

The North America Bio-Butanol Market is poised for growth, driven by increasing emphasis on sustainable chemical production, technological advancements in biorefining, and expanding industrial applications. Despite challenges related to production costs and feedstock availability, the market presents lucrative opportunities in renewable energy, construction materials, and the medical sector.

## Competitive Landscape

The North America Bio-Butanol Market is characterized by the presence of key players focused on technological advancements, strategic collaborations, and production capacity expansion. Major companies operating in the market include:

Gevo Inc.

Butamax Advanced Biofuels LLC



Green Biologics Ltd.

Cobalt Technologies

Eastman Chemical Company

Cathay Industrial Biotech

METabolic Explorer

Abengoa Bioenergy

GranBio

Lesaffre Group



## **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 Fuels and Green Chemicals
  - 3.1.2. Government Policies and Incentives Promoting Biofuels
  - 3.1.3. Growing Applications in Industrial and Chemical Sectors
- 3.2. Market Restraints
  - 3.2.1. High Production Costs and Limited Commercialization
  - 3.2.2. Availability of Alternative Biofuels and Petrochemical Substitutes
  - 3.2.3. Technological Challenges in Large-Scale Production
- 3.3. Market Opportunities
  - 3.3.1. Advancements in Fermentation Technologies and Production Processes
  - 3.3.2. Expanding Use of Bio-Butanol in Emerging Applications
  - 3.3.3. Increased Investment in Sustainable and Circular Economy Initiatives

#### 4. NORTH AMERICA 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. United States
  - 5.1.1. Market Overview
  - 5.1.2. Market Size and Forecast
  - 5.1.3. Key Trends
  - 5.1.4. Competitive Landscape
- 5.2. Canada
  - 5.2.1. Market Overview
  - 5.2.2. Market Size and Forecast
  - 5.2.3. Key Trends
  - 5.2.4. Competitive Landscape
- 5.3. Mexico
  - 5.3.1. Market Overview
  - 5.3.2. Market Size and Forecast
  - 5.3.3. Key Trends
  - 5.3.4. 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
- 6.2.3. Green Biologics Ltd.
- 6.2.4. Cobalt Technologies
- 6.2.5. Eastman Chemical Company
- 6.2.6. Cathay Industrial Biotech
- 6.2.7. METabolic Explorer
- 6.2.8. Abengoa Bioenergy
- 6.2.9. GranBio
- 6.2.10. Lesaffre Group
- 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 NORTH AMERICA BIO-BUTANOL MARKET



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