

# Advanced Biofuels Market

<https://marketpublishers.com/r/A0533E003608EN.html>

Date: June 2026

Pages: 0

Price: US\$ 4,950.00 (Single User License)

ID: A0533E003608EN

## Abstracts

Upcoming research reports. Delivery timeline: 4 weeks

The advanced biofuels market is expected to grow from USD 17.19 billion in 2025 to USD 26.12 billion by 2030, with a CAGR of 8.7% during 2025–2030. Advanced biofuels are the fuels produced from non-edible biomass feedstock with low environmental consequences, such as deforestation and land use competition with food production. The global focus on greenhouse gas emission reductions and lesser reliance on fossil fuels to fight climate change continually pushes the demand for advanced biofuels. To achieve carbon reduction objectives, various countries have prioritized cleaner alternatives and other policies to encourage biofuel use, such as blending mandates and tax incentives.

Based on the fuel type segment, the advanced biofuels market has been categorized as cellulosic ethanol, biodiesel, renewable diesel, biogas, bioDME, and others. Cellulosic ethanol is driven by the growing demand to decrease dependence on food-based feedstocks and reduce land-use conflicts. By utilizing agricultural residues and non-food crops, it presents a more sustainable and efficient alternative to traditional biofuels. Biodiesel can be produced from diverse feedstock, such as vegetable oils and animal fats whereas renewable diesel is driven by its ability to comply with the existing existing diesel infrastructure and its superior performance in reducing emissions. Biogas supports the need for effective waste management solutions while addressing landfill methane emissions. The demand for renewable diesel is proliferating around the globe. The major reasons driving the renewable diesel market are the focus on reducing carbon emissions, growth in the transportation industry, tax credits for renewable diesel by different governments, and increasing investments.

Based on the generation segment, the advanced biofuels market has been segmented as second generation and third generation. The second and third generation biofuels

are more sustainable, thus preventing conflict with food production over land and water resources. The second generation biofuels are produced from second-generation feedstocks such as cellulose, lignin, agricultural residues, and dedicated energy crops. This contributes to reducing fears surrounding food security and competition for land use, thereby branding them as a more sustainable alternative with lesser impacts on the environment as compared to conventional biofuels. Alongside this are third-generation biofuels, with high yields of biofuel outside the food chain, easier to produce and swiftly substituting vegetable oils. Algal-based biofuels are gaining attention since there is much land and water that is not capable of eradicating these algae because some forms of algae have clear advantages over plants for biofuel because they can be cultivated in unsuitable lands for food and do not require fresh water for growth.

Some of the players operating in the Advanced biofuels market include Neste (Finland), Valero (US), Chevron (US), and Gevo (US).

## Contents

### **1 INTRODUCTION**

- 1.1. OBJECTIVE OF THE STUDY
- 1.2. MARKET DEFINITION
  - 1.2.1. INCLUSIONS AND EXCLUSIONS
- 1.3. MARKET SCOPE
  - 1.3.1. MARKET SEGMENTATION
  - 1.3.2. REGIONAL SCOPE
- 1.4. YEARS CONSIDERED
- 1.5. CURRENCY
- 1.6. LIMITATIONS
- 1.7. STAKEHOLDERS

### **2 RESEARCH METHODOLOGY**

- 2.1. RESEARCH DATA
- 2.2. MARKET BREAKDOWN AND DATA TRIANGULATION
  - 2.2.1. SECONDARY DATA
    - 2.2.1.1. KEY DATA FROM SECONDARY SOURCES
  - 2.2.2. PRIMARY DATA
    - 2.2.2.1. KEY DATA FROM PRIMARY SOURCES
    - 2.2.2.2. KEY INDUSTRY INSIGHTS
    - 2.2.2.3. BREAKDOWN OF PRIMARY INTERVIEWS
- 2.3. MARKET SIZE ESTIMATION
  - 2.3.1. BOTTOM-UP APPROACH
  - 2.3.2. TOP-DOWN APPROACH
  - 2.3.3. DEMAND SIDE ANALYSIS
    - 2.3.3.1. ASSUMPTIONS FOR DEMAND SIDE ANALYSIS
    - 2.3.3.2. DEMAND SIDE CALCULATION
  - 2.3.4. SUPPLY SIDE ANALYSIS
    - 2.3.4.1. ASSUMPTIONS FOR SUPPLY SIDE ANALYSIS
    - 2.3.4.2. SUPPLY SIDE CALCULATION
- 2.4. FORECAST

### **3 EXECUTIVE SUMMARY**

### **4 PREMIUM INSIGHTS**

## **5 MARKET OVERVIEW**

### 5.1. INTRODUCTION

### 5.2. MARKET DYNAMICS

#### 5.2.1. DRIVERS

#### 5.2.2. RESTRAINTS

#### 5.2.3. OPPORTUNITIES

#### 5.2.4. CHALLENGES

### 5.3. TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESS

### 5.4. SUPPLY/VALUE CHAIN ANALYSIS

### 5.5. ECOSYSTEM/MARKET MAP

### 5.6. CASE STUDY ANALYSIS

### 5.7. TECHNOLOGY ANALYSIS

### 5.8. PATENT ANALYSIS

### 5.9. TRADE ANALYSIS

### 5.10. INVESTMENT & FUNDING SCENARIO

### 5.11. KEY CONFERENCES & EVENTS IN 2025

### 5.12. REGULATORY LANDSCAPE

#### 5.12.1. REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### 5.12.2. REGULATORY FRAMEWORK

### 5.13. PORTER'S FIVE FORCES ANALYSIS

### 5.14. KEY STAKEHOLDERS AND BUYING CRITERIA

#### 5.14.1. KEY STAKEHOLDERS IN BUYING PROCESS

#### 5.14.2. BUYING CRITERIA

## **6 ADVANCED BIOFUELS MARKET, BY GENERATION**

(Value (USD Million) – 2020, 2021, 2022, 2023, 2024, 2025 – 2030)

### 6.1. INTRODUCTION

### 6.2. SECOND GENERATION

### 6.3. THIRD GENERATION

### 6.4. FORTH GENERATION

## **7 ADVANCED BIOFUELS MARKET, BY PROCESS**

(Value (USD Million) – 2020, 2021, 2022, 2023, 2024, 2025 – 2030)

### 7.1. INTRODUCTION

7.2. BIOCHEMICAL

7.3. THERMOCHEMICAL

## **8 ADVANCED BIOFUELS MARKET, BY FUEL TYPE**

(Value (USD Million) - 2020, 2021, 2022, 2023, 2024, 2025 – 2030)

8.1. INTRODUCTION

8.2. CELLULOSIC ETHANOL

8.3. RENEWABLE DIESEL

8.4. BIODIESEL

8.5. BIODME

8.6. BIOGAS

8.7. OTHERS

## **9 ADVANCED BIOFUELS MARKET, BY END USE**

(Value (USD Million) - 2020, 2021, 2022, 2023, 2024, 2025 – 2030)

9.1. INTRODUCTION

9.2. TRANSPORTATION

9.3. AVIATION

9.4. OTHER END USE

## **10 ADVANCED BIOFUELS MARKET, BY REGION**

(Value (USD Million ) - 2020, 2021, 2022, 2023, 2024, 2025 – 2030)

10.1. INTRODUCTION

10.2. NORTH AMERICA

10.2.1. BY GENERATION

10.2.2. BY FUEL TYPE

10.2.3. BY END USE

10.2.4. BY PROCESS

10.2.5. BY COUNTRY

10.2.5.1. US

10.2.5.1.1. BY FUEL TYPE

10.2.5.2. CANADA

10.2.5.3. MEXICO

10.3. ASIA PACIFIC

10.3.1. BY GENERATION

10.3.2. BY FUEL TYPE

- 10.3.3. BY END USE
- 10.3.4. BY PROCESS
- 10.3.5. BY COUNTRY
  - 10.3.5.1. CHINA
    - 10.3.5.1.1. BY FUEL TYPE
  - 10.3.5.2. INDIA
  - 10.3.5.3. INDONESIA
  - 10.3.5.4. REST OF ASIA PACIFIC
- 10.4. EUROPE
  - 10.4.1. BY GENERATION
  - 10.4.2. BY FUEL TYPE
  - 10.4.3. BY END USE
  - 10.4.4. BY PROCESS
  - 10.4.5. BY COUNTRY
    - 10.4.5.1. UK
      - 10.4.5.1.1. BY FUEL TYPE
    - 10.4.5.2. FRANCE
    - 10.4.5.3. GERMANY
    - 10.4.5.4. REST OF EUROPE
- 10.5. ROW
  - 10.5.1. BY GENERATION
  - 10.5.2. BY FUEL TYPE
  - 10.5.3. BY END USE
  - 10.5.4. BY PROCESS
  - 10.5.5. BY COUNTRY
    - 10.5.5.1. BRAZIL
      - 10.5.5.1.1. BY FUEL TYPE
    - 10.5.5.2. ARGENTINA
    - 10.5.5.3. OTHER COUNTRIES

## **11 COMPETITIVE LANDSCAPE**

- 11.1. KEY PLAYER STRATEGIES OVERVIEW
- 11.2. MARKET EVALUATION FRAMEWORK
- 11.3. MARKET SHARE ANALYSIS OF KEY PLAYERS, 2023
- 11.4. REVENUE ANALYSIS, 2020-2024
- 11.5. COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023
  - 11.5.1. STARS
  - 11.5.2. EMERGING LEADERS

- 11.5.3. PERVASIVE PLAYERS
- 11.5.4. PARTICIPANTS
- 11.5.5. COMPANY FOOTPRINT: KEY PLAYERS, 2023
  - 11.5.5.1. Company Footprint
  - 11.5.5.2. Region Footprint
  - 11.5.5.3. Type Footprint
- 11.6. COMPETITIVE SCENARIO AND TRENDS

## **12 COMPANY PROFILES**

- 12.1. NESTE
  - 12.1.1. Business Overview
  - 12.1.2. Products & Services
  - 12.1.3. Recent Developments
  - 12.1.4. MnM View
    - 12.1.4.1. Key strategies/right to win
    - 12.1.4.2. Strategic choices made
    - 12.1.4.3. Weaknesses/competitive threats
- 12.2. GEVO
- 12.3. VALERO
- 12.4. ABENGOA
- 12.5. BORREGAARD AS
- 12.6. VERSALIS S.P.A.
- 12.7. VIRENT, INC.
- 12.8. CHEVRON
- 12.9. ALGENOL
- 12.10. WILMAR INTERNATIONAL

## **13 APPENDIX**

- 13.1. INSIGHTS OF INDUSTRY EXPERTS
- 13.2. DISCUSSION GUIDE
- 13.3. KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 13.4. CUSTOMIZATION OPTIONS
- 13.5. RELATED REPORTS
- 13.6. AUTHOR DETAILS

## I would like to order

Product name: Advanced Biofuels Market

Product link: <https://marketpublishers.com/r/A0533E003608EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A0533E003608EN.html>