

Advanced Biofuels Market

Market Report (4 weeks) | 2025-07-01 | 0 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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).

Table of 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	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 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

Advanced Biofuels Market

Market Report (4 weeks) | 2025-07-01 | 0 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-20"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com