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Advanced Biofuels Market

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Abstracts

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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

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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).

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