

Meeting the scale of ambition **The Advanced Biofuels Coalition Calls to Action**

Advanced Biofuels are critical to reaching Net Zero

Advanced biofuels are sustainable as they are produced from waste and residues and are a critical solution for replacing fossil fuels in the transition to European climate neutrality. Advanced biofuels are drop-in replacements for fossil fuels being used in existing engines, heating technologies or industrial applications not suitable for electrification. This means that individuals, businesses, and industries across Europe can switch to using advanced biofuels in a seamless and cost-effective way, on the transition to Net Zero.

Europe can become a world leader in advanced biofuel production

There is over 1 billion litres of Advanced Biofuels production capacity in Europe¹. While the market is growing, it remains an untapped potential that needs to be accelerated. The Advanced Biofuels Coalition applauds the European Commission's rapid introduction of regulations to force the integration of low-carbon fuels into the market. However, we believe that Europe is at risk of losing the race as the frontrunner in advanced biofuels production, compared to other aspiring bioeconomy leaders such as the United States and China, where substantial financial incentives are in place to encourage biofuel production. Resulting in the EU economy missing out on the benefits of a globally competitive and innovative advanced biofuels value chain.

Research² for the EU Commission found that by working with industry, with successful research & development and attainment of the 2050 EU targets, advanced biofuels could achieve 330 million tonnes of net emissions savings in replacing fossil fuels, significantly improving energy security and provide a market volume of 1.6% of EU's GDP. This would result in a net increase of more than 100,000 jobs, contributing to the competitiveness in Europe, while promoting the sustainable transformation of EU's economies based on a circular bioeconomy.

By working together, we can accelerate the scaling of the advanced biofuels production capacity and value chain in Europe. In order to meet the scale of ambition, we need to work with the European Institutions to:

1. Strengthen the business case for advanced biofuels investment
2. Provide long-term, regulatory certainty to support advanced biofuels deployment
3. Create a competitive and coherent framework for the EU to be a world leader in sustainable, advanced biofuels as part of a Europe-wide network of biorefineries serving fuels and chemical markets alike

1. Strengthen the business case for advanced biofuels investment

By working collectively with industry, investors, and policy makers, we need to identify and develop a regulatory framework to drive further investments into the advanced biofuels sector, examples of which include:

- Carry out a review of green finance & de-risking measures in Europe
- Reflect on lessons which can be learnt from other markets, for example the positive impact loan guarantees are having for advanced biofuels production in the United States
- Implement a taxation scheme that encourages the production and uptake of advanced biofuels

¹ JRC, Clean Energy Technology Observatory: Advanced biofuels in the European Union – 2022 Status Report on Technology Development, Trends, Value Chains and Markets

² [Ecroys, Research and Innovation Perspective of the mid- and long-term Potential for Advanced Biofuels in Europe](#)

- Enhance EU funding and explore how state aid process could be improved to assist investments into advanced biofuel production

2. Provide long-term, regulatory certainty to support advanced biofuels deployment

In order to achieve a strong, investable business case, long-term certainty is non-negotiable for industry. In Europe we have built strong foundations with the Renewable Energy Directive (RED) and initiatives such as ReFuel Aviation & FuelEU Maritime. However, as we face a cliff edge of uncertainty post 2030, EU policy makers should:

- Develop a long-term stable framework and dedicated targets for advanced biofuels to 2040 and beyond, in hard-to-abate sectors such as transport, industry and heating
- Consider dedicated sub-mandate targets for advanced biofuels, not shared with e-fuels, in FuelEU Maritime and ReFuel Aviation as part of its 2026/27 review
- Ensure there is stability with Annex IX (a) feedstocks, any growth in the list should result in a growth in sub-mandates to mitigate the risk to the current project pipeline
- Require that National Energy & Climate Plans (NECPs) include strategies to scale up the production and uptake of advanced biofuels, in order to meet targets set out in RED III

3. Create a competitive framework for the EU to be a world leader in sustainable, advanced biofuels as part of a Europe-wide network of biorefineries serving fuels and chemical markets alike.

The IEA states that global advanced biofuel production needs to expand, with the share of biofuels produced from feedstocks such as waste and residues increasing to 40% of total biofuel demand by 2030. This is a huge opportunity for Europe's transition, ramping up biorefineries at scale and fostering the largest advanced biofuels and chemicals producers in the world. Accelerating the transformation would make the EU a world leader in sustainable materials and mobility. To do this, policy makers must:

- Take a technology-neutral approach when developing climate legislation, to ensure all renewable solutions are on the table
- Create a clear, long term regulatory framework that takes into account large scale ambition in other countries, with a view to attract investments in Europe
- Work in partnership with industry and investors to understand how to make Europe a more attractive place to invest

About the Advanced Biofuels Coalition

The Advanced Biofuels Coalition is committed to progressing the expansion of advanced biofuel production and uptake across hard-to-abate sectors in Europe. The coalition represents organisations across the whole advanced biofuels value chain, from companies carrying out commercial production today, the enabling supply chain and those investing in the future production pipeline.

Learn more at www.advancedbiofuelscoalition.eu/