



AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL

Biofuture Principles for Post-Covid Recovery and Acceleration

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IEA Bioenergy - GBEP workshop: How can biomass supply for bioenergy deliver multiple benefits and contribute to sustainable development goals?, 15-16 June 2021

About the Biofuture Platform

- A government-led, multi-stakeholder initiative designed to take action on climate change and support the SDGs by promoting international coordination on the sustainable low-carbon bioeconomy.
- Established in November 2016, at the COP 22 climate talks in Marrakesh. Since 2019, the IEA has been the Facilitator. Biofuture Platform Initiative established under the Clean Energy Ministerial (CEM) in September 2020; CEM Biofuture Campaign just launched.

MEMBER COUNTRIES

Argentina • Brazil • Canada • China • Denmark • Egypt • Finland • France • India • Indonesia • Italy • Morocco • Mozambique • Netherlands • Paraguay • Philippines • Portugal • United Kingdom • United States • Uruguay

SUPPORTING ORGANIZATIONS

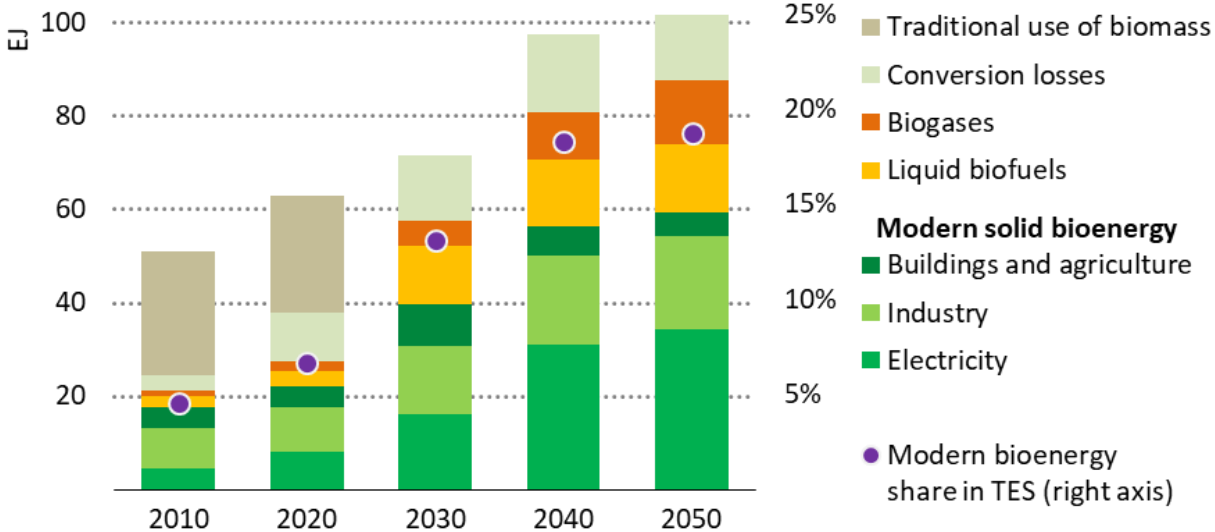


PRIVATE SECTOR PARTNERS



Role of bioenergy in IEA's global Net Zero scenario

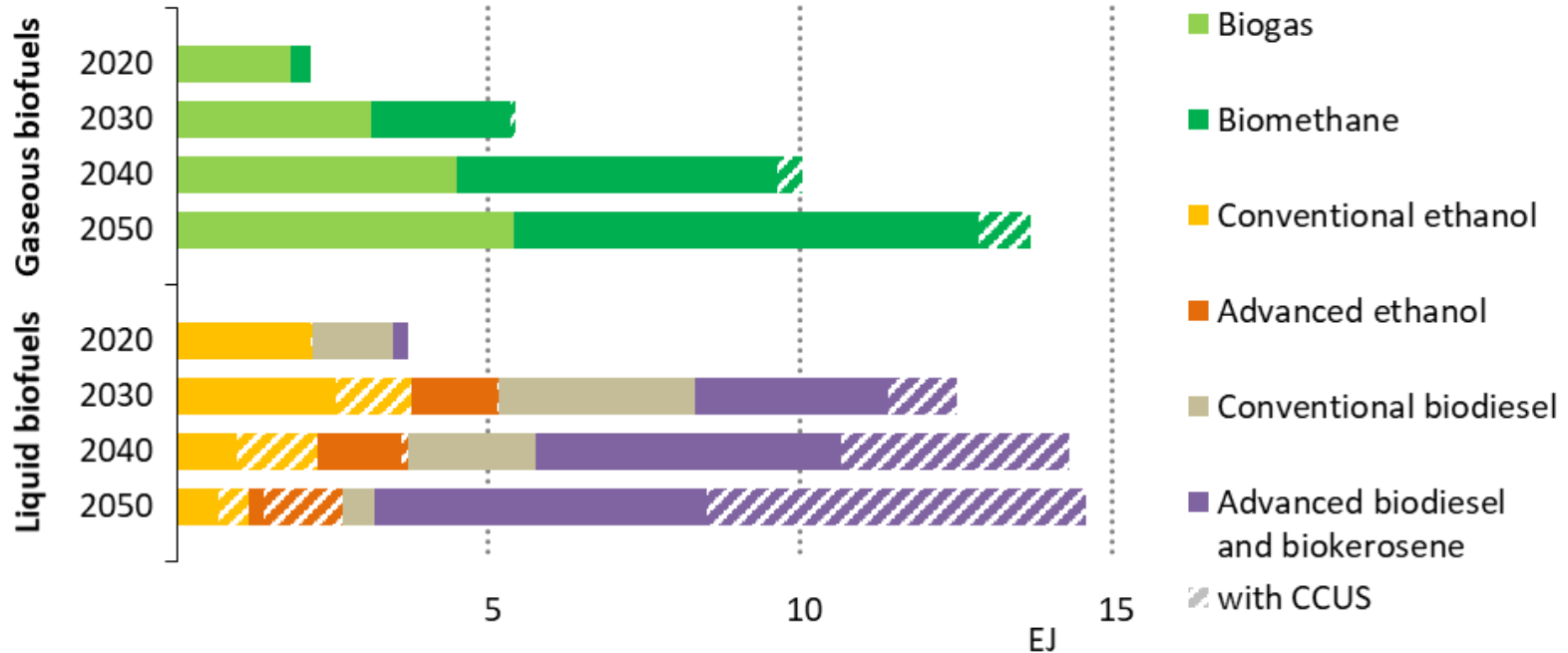
Total bioenergy supply in the IEA's Net Zero by 2050 Roadmap



Modern bioenergy use rises to 100 EJ in 2050, meeting almost 20% of total energy needs and becoming the second largest source of energy supply

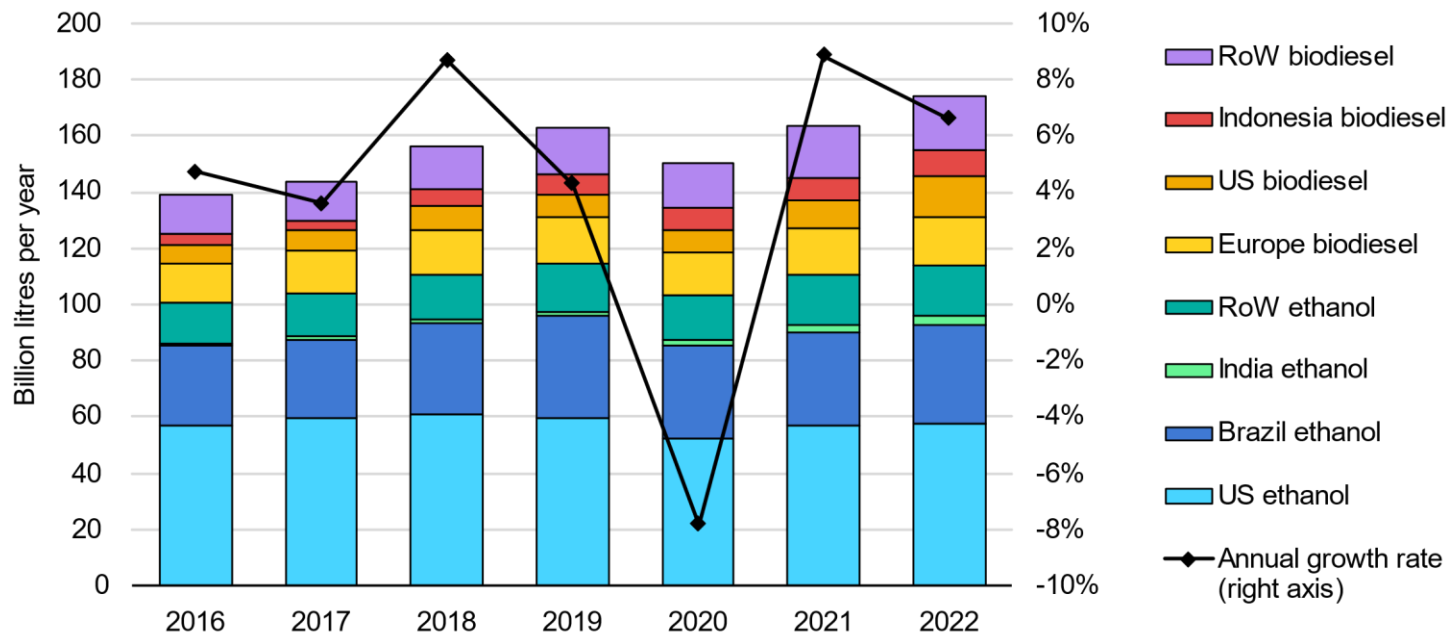
Advanced biofuels are necessary for net zero

Global biofuels production by type and technology in the Net Zero



Advanced liquid biofuel production expands rapidly over the next decade in the Net Zero scenario growing from less than 1% of total biofuel supply in 2020, to almost 45% in 2030 and 90% in 2050

Covid-19: In 2020, biofuels production declined for 1st time in 2 decades

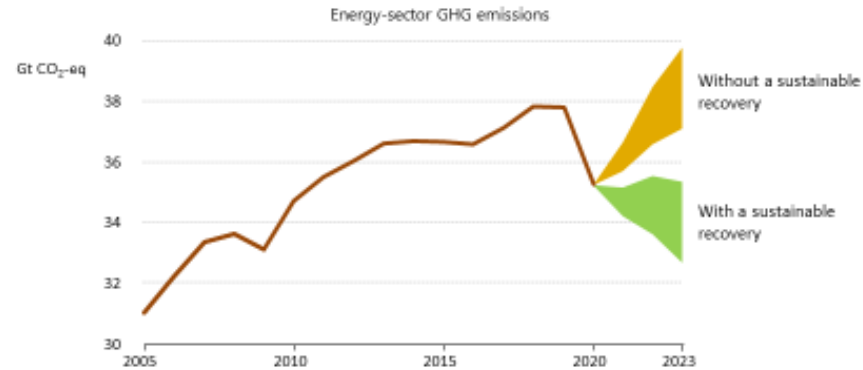


IEA (2021) Renewable Energy Market Update. <https://www.iea.org/reports/renewable-energy-market-update-2021>

Biofuel production in 2020 fell as Covid-19 reduced transport activity, shrinking demand from mandate policies. Low gasoline and diesel prices also challenged the business case for biofuels.

Sustainable recovery opportunities

- IEA's *Sustainable Recovery Plan* (prepared in cooperation with the IMF) includes a set of cost-effective measures in the energy sector. Implementing them in 2021-2023 could:
 - Boost global economic growth by an average of 1.1 percentage points a year
 - Save or create roughly 9 million jobs a year
 - Make 2019 the definitive peak in global emissions
- Bioenergy:
 - One of the most labour-intensive energy industries
 - Employing globally around 3 million people
 - Has the second-largest number of jobs (15-30) created per million dollars of spending



IEA (2020), *Sustainable Recovery*, IEA, Paris
<https://www.iea.org/reports/sustainable-recovery>

Biofuture Platform Five Principles for Post-COVID Bioeconomy Recovery and Acceleration

- 1. Do not backtrack:** Ensure continuity and long-term predictability of bioenergy, biofuels, and bio-based material targets and existing policy mechanisms that have proved successful
- 2. Consider short-term COVID support for producers:** Where appropriate, address short-term challenges for bioenergy and bio-based materials industries in the context of relief packages related to COVID-driven economic losses
- 3. Reassess fossil fuel subsidies:** Take advantage of a low oil price environment to reassess fossil fuel subsidies for a fairer playing field



Biofuture Platform Five Principles for Post-COVID Bioeconomy Recovery and Acceleration (continued)

- 4. Build Back Better with Bio:** Where appropriate, integrate the bioeconomy sector as part of broader recovery programmes, e.g. by requiring bioeconomy investments/targets as part of aid and recovery packages for specific sectors such as transport and chemicals
- 5. Reward sustainability:** Integrate sustainability rewarding mechanisms into policy frameworks, promoting positive externalities in the production and use of bio-based fuels, chemicals and materials



Biofuture Principles: Development and implementation

- The five Principles have the **support** of the **20 Biofuture Platform member countries**, and were developed following **consultations with policymakers, industry experts and international organizations** such as IEA, IRENA and GBEP.
- The Principles are **non-binding and non-prescriptive**, with member countries encouraged to implement them in accordance with broader sustainability initiatives and economic recovery programmes.

Biofuture Principles: Inspired by and inspiring policy design and implementation

A number of countries have already implemented or are considering new policies and targets in line with the Principles., e.g.:

- **Brazil**'s RenovaBio and **Canada**'s Clean Fuels Standard, which incorporate positive externalities of biofuels into market-based mechanisms
- The **US** recently revealed plans for a Higher Blends Infrastructure Incentive Program, to reinforce biofuel distribution infrastructure
- **India** plans to scale up bioenergy use including 20% sustainable ethanol in gasoline by 2030

Some countries have included sustainable fuels in their economic recovery measures, e.g. France announced an important support package to the airline industry, which incorporates sustainable aviation fuel targets.



MISSION: Enable the reduction of GHG emissions and foster a circular economy by showcasing how countries, companies, and consumers can substitute sustainable bio- and waste-based Fuels, Chemicals, and Materials for their fossil equivalents



FOUNDING COUNTRIES:



BIO-BASED SUBSTITUTION CHALLENGE: Signatories aspire to substitute bio- and waste-based Fuels, Chemicals, and Materials for 10% of their fossil carbon equivalent in relevant sectors and products by 2030, relative to a 2019 baseline.



JOINT ACTION: The Campaign enables joint action between the Biofuture Platform, Industry Leaders, NGOs, and the Clean Energy Ministerial community.

Topics include **Feedstock Sustainability, Biomass Availability & Sustainable Finance.**



FOR ADDITIONAL INFORMATION CONTACT THE CAMPAIGN CO-MANAGERS

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