

Bioeconomy Austria

Perspectives for the new EU Bioeconomy Strategy

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Dr. Michael LoschCoordinator for Bioeconomy
DG Agriculture and Rural Development

New Bioeconomy Strategy – a driver for green growth



- Position the EU in the rapidly expanding bioeconomy market
- **s**ignificant growth potential in bio-based materials, biomanufacturing, biochemicals, and agri-biotech sectors
- reduce our reliance on fossil fuels and improve the economic perspectives of our rural areas

Competitiveness Compass, January 2025



- improve resource efficiency and to tap the significant growth potential of biobased materials substituting fossil-based materials, and related industries.
- reduce dependencies on imported raw materials.
- lay down priorities for manufacturing and using biomaterials, and for retaining them as long as possible in the economy

Clean Industrial Deal, February 2025



- diversification of value streams and valorisation of farm residues
- strengthening the **role of primary producers** in the value chain and generating new jobs in the **rural areas**
- reducing dependencies on imported raw materials and **fertilisers** with **recycled nutrients**

Vision for Agriculture and Food, February 2025



Interplay with other policy areas

Industrial Decarbonisation Accelerator Act

Biotech Act

Circular Economy Act

Life Science Strategy **Bioeconomy Strategy**

Start up and Scale up Strategy

Ocean Pact



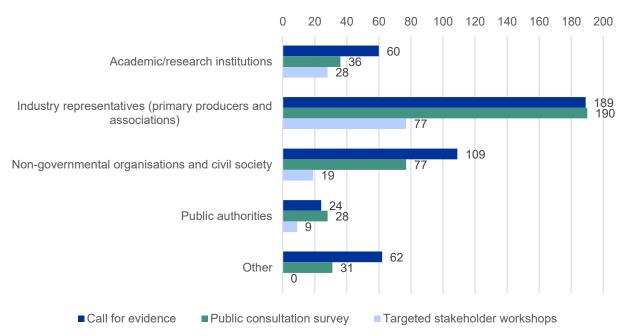






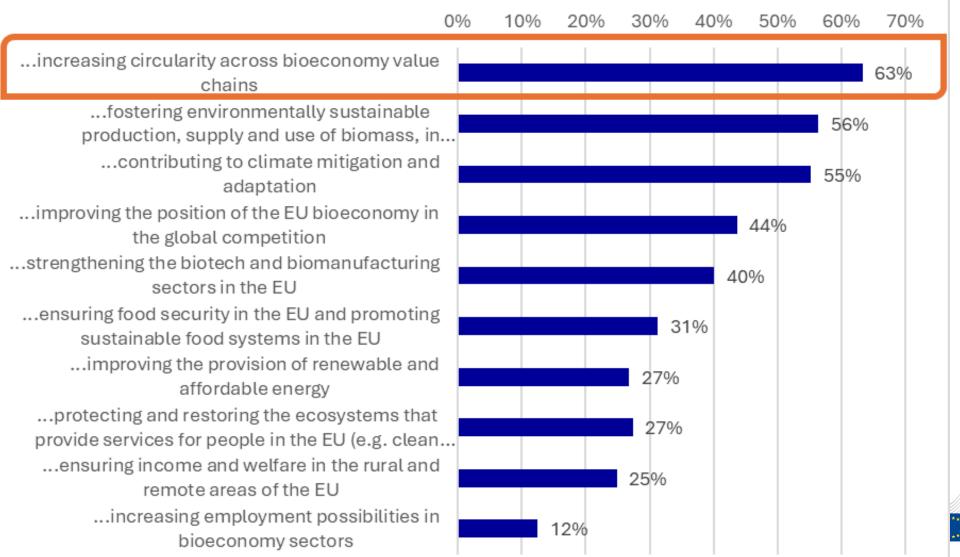
Consultation activities: Big interest of industry and NGO's







What should be the main objectives of the new EU Bioeconomy Strategy (multiple answers possible)?



Main challenges raised per pillar of the Bioeconomy Strategy

Innovation & investment

- Innovation gaps and scaling challenges, for ex. from R&D to industrial applications
- Regulatory barriers, for ex. complexity & fragmentation of regulations acros EU
- Market barriers, for ex. unfair competition from fossil-based products



Level-playing field for lead markets

- Creating market demand & enhancing biomass use efficiency
- Cascading principle prioritisation of highvalue applications
- Improving waste management
- Importance of regional collaboration



Sustainable Supply

- Sustainability criteria and certification
- Competition for biomass and land use
- Complex sustainability frameworks & traceability requirements
- Lack of sustainable supply



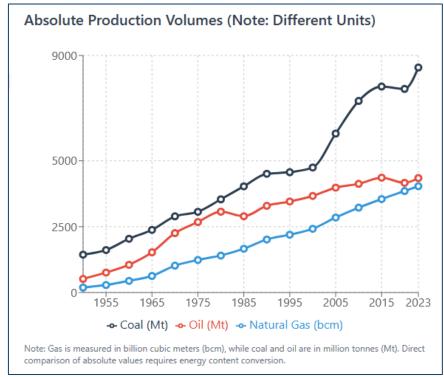
EU's Global Leadership

- Importance of international partnerships and trade
- EU should position itself as a global leader in green diplomacy and bioeconomy, with more active role in international forums

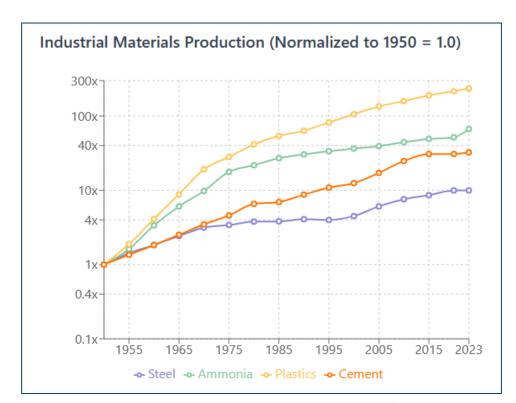


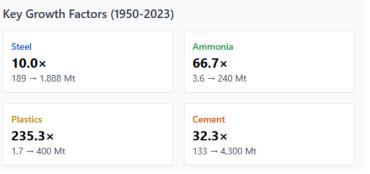


Global development of fossil-based Energy and Materials









Source:

Prof. Reinhold W. Lang, 2025 based a.o. on Vaclav Smil, How the World Really Works, May 2022

Biomass Production and Use in the EU 2022

TOTAL EU BIOMASS USE: 1.14 billion tons dry matter



How have biomass supply and use changed over 2012-2022?

Overall +6% of biomass supply & use between 2012-2022



Food and feed use almost stable



Supply of domestic wood increased:

+16% harvest removals, +13% industrial by-products



Wood use increased: +8% for material; +11% for energy

Use of biowaste increased: +26% for material; +24% for energy



Source: JRC 2025

Domestic supply: **1.18 billion ton** dry matter Net imports: **0.02 billion ton dry** matter

FISHERIES <0.5%

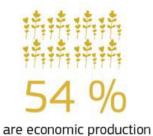


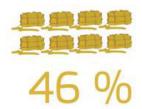
New JRC Biomass Report – June 2025



EU-27 agricultural biomass production

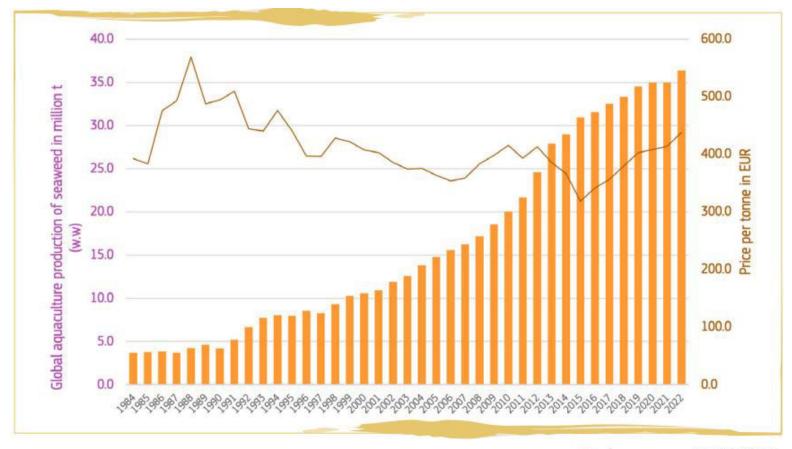
Total annual agricultural biomass production in the EU-27: 921 Mt D.M. yr^{-1}





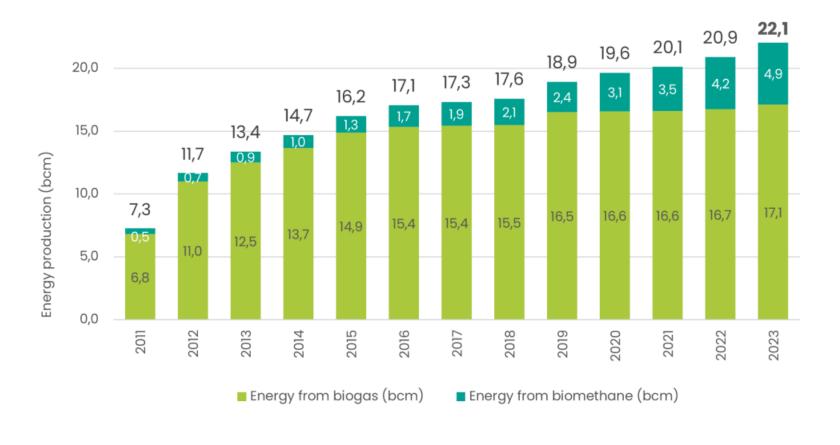
are residues

Algae play an important role in marine ecosystems contributing to the global primary production and supporting complex food webs in the coastal zone. At the same time, algae biomass is a valuable resource for Europe, mainly for the food and chemical industries.



Data source: FAO 2024.

Biogas and Biomethane in Europe



REPowerEU target 35 bcm of biomethane in 2030

EBA data for 2023:

4.9 bcm/52 TWh of biomethane in approx 1,550 plants

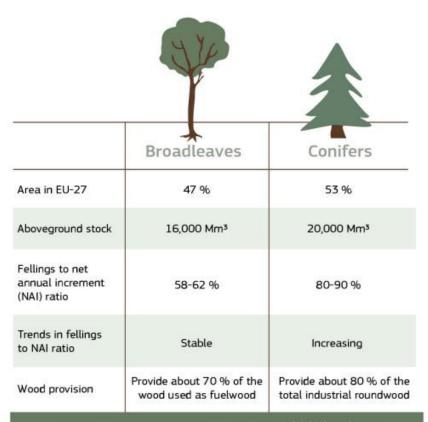
17.1 bcm/182 TWh of biogas in approx. 20,000 plants (EU, UK, NOR, CH)

Source: European Biogas Association (EBA), Statistical Report 2024

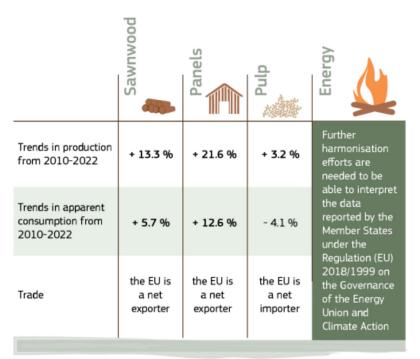


Forestry production and uses

Broadleaves and conifers in EU-27 forests



Forest biomass uses in the EU-27



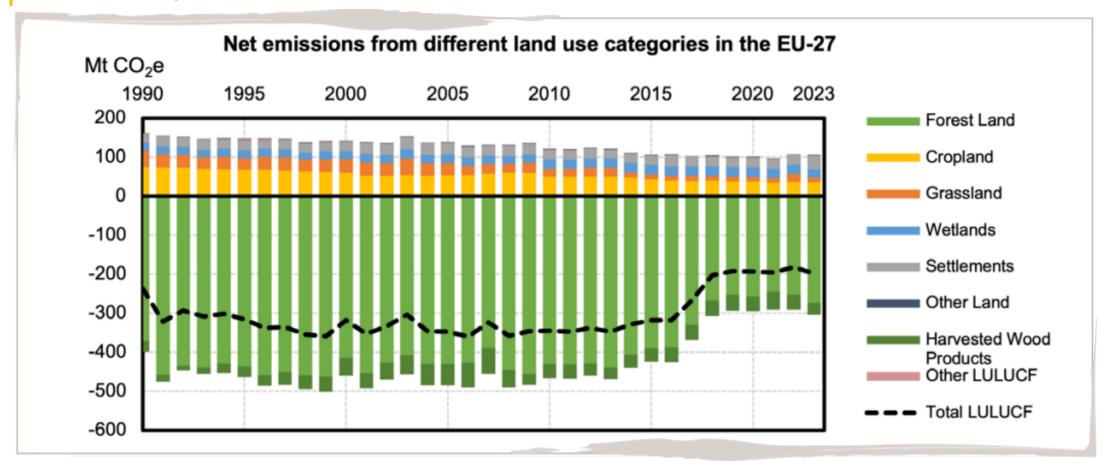


Source: JRC Biomass Report 2025

Roundwood production has been, on average, **slightly above**500 Mm³ U.B. the last 5 years of reporting



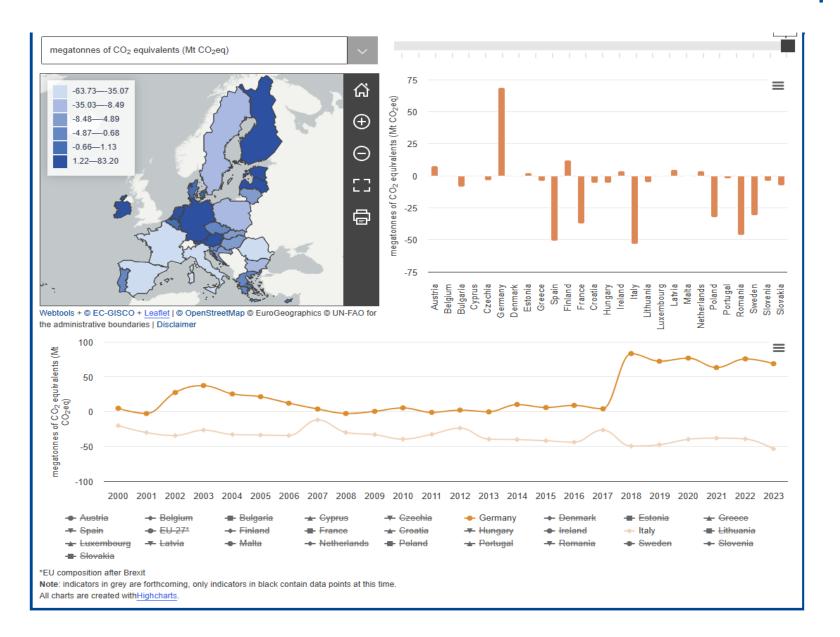
Development of Carbon Sink



Source: JRC own elaboration, based on data from EEA (2025).



Net GHG Emissions LULUCF – a differentiated picture

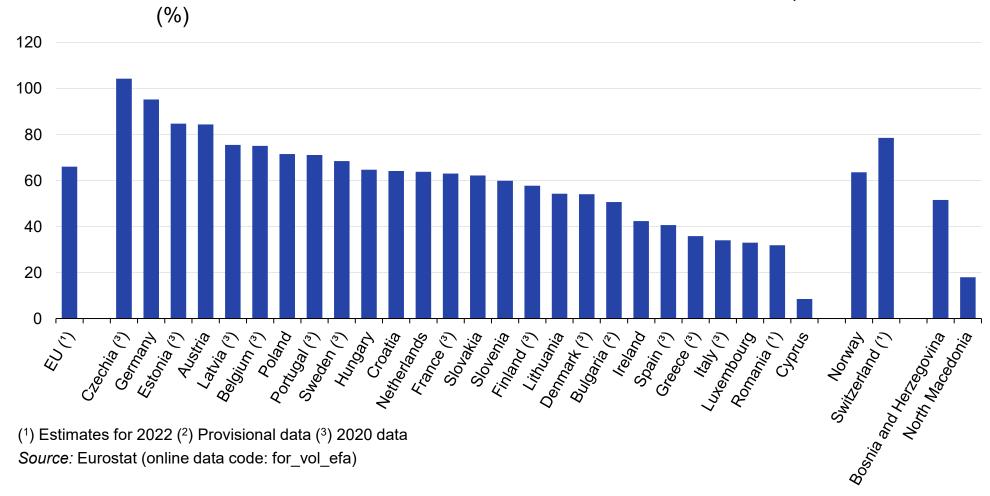


Knowledge Centre
for Bioeconomy:
https://knowledge4
policy.ec.europa.eu/
bioeconomy/monito
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Forest-based Biomass Potential – Harvesting Rates

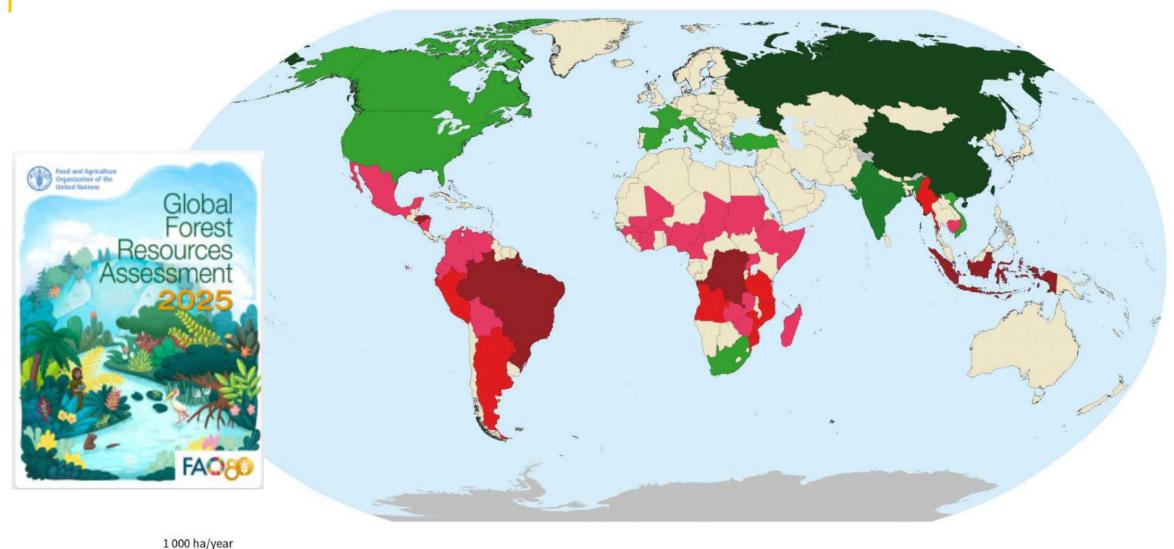
Share of timber removals to net increment in EU forests, 2022



European Commission

New FAO Global Forest Resources Report

FIGURE 5. Annual forest area net change, by country and area, 1990-2025



Small changes: >±50

Net loss: ■>501

Objectives and scope of the new Bioeconomy Strategy

Enhance long-term competitiveness of the EU economy and strategic resilience

Ensure industrial leadership in addressing climate change, biodiversity loss and pollution

Lead in the emerging bio-based economy, build new market-based business models and drive innovation

Secure internationally competitive **sustainably supplied biomass** and sustainable production of biological resources for food, materials, energy and services

Create green jobs, new income opportunities for farmers and foresters and prospering rural areas

Pillar I - From Lab to Fab, priorities for scaling-up

Pillar II – Developing lead markets for more value from less biomass

Pillar III - Securing the competitive and sustainable supply of biomass

Pillar IV - Positioning the EU in the rapidly expanding international market

EU Bioeconomy potential Lead Markets

Key sectors for sustainable supply markets

- Agriculture and food sectors
- Forestry
- Blue Biomass
- Chemical industry

Creating demand for more value from less resources

- Construction and buildings materials sector
- Chemicals industry (biopolymers, biofertilizers) and its downstream users
- Packaging sector
- Textiles and fibres industry
- Fertilisers and plant protection products



EU CAP Network workshop 'Circular bioeconomy – valorisation of forest by-products' Kouvola, Finland 26-27 March 2025

Aim of the workshop was to explore:

- innovative approaches to wood processing and utilising forestry by-products: logging and sawmill-residues, conifer needles, tannins, resins, etc.
- advanced integration of forest biomass in energy systems (biochar, syngas), biorefineries, bioplastics and biobased chemicals

80 participants from 23 Member States, including forest owners, researchers, advisors, industry, and others

https://eu-cap-network.ec.europa.eu

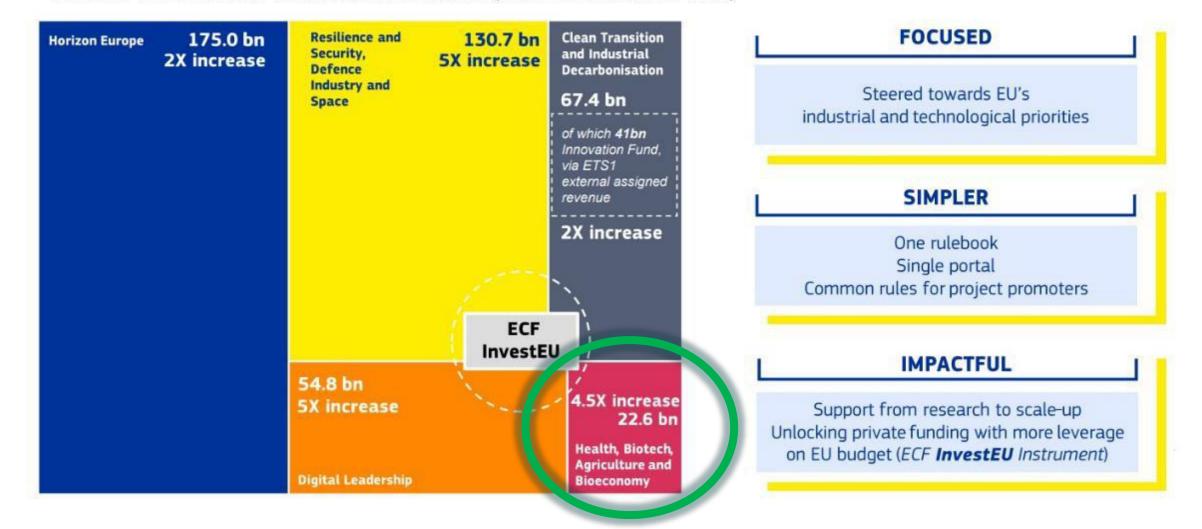
Focus Groups and workshops in next work programme July 2025-June 2026:

- "Innovative and sustainable ways to strengthen the role of farmers in revitalising the European wool value chain" (FG)
- "Forestry and forest health: new and emerging pests and diseases" (FG)
- "Innovative on-farm energy production systems" (FG)



European Competitiveness Fund

A EUR 451 billion to boost innovation (incl. Innovation Fund)



Thank You!

