

EERA BIOENERGY JOINT PROGRAMME



The European Alliance for excellent research in sustainable bioenergy

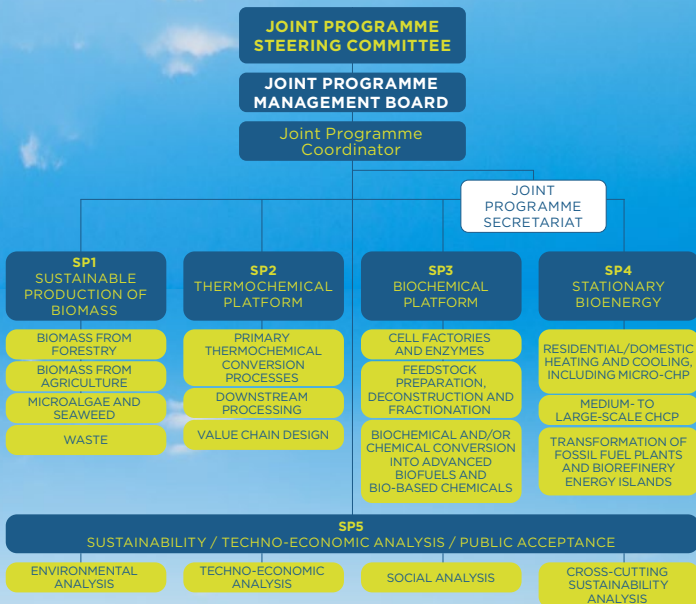
Biobased fuels, power and heat in a circular bioeconomy

Structure

The EERA Bioenergy Joint Programme is integrated by 5 Subprogrammes. Activities on blue biomass production and use are integrated in all of them.

EERA Bioenergy Joint Programme addresses the challenges of the European energy and environment policies from a research and innovation perspective. The main European organisations involved in R&D&I in biobased fuels, power and heat, and bioeconomy are part of EERA Bioenergy.

EERA Bioenergy promotes international co-operation to accelerate the SET-Plan priorities and actions to contribute to the decarbonisation of the energy sector; by assessing R&D&I priorities to accelerate the implementation of biomass technologies in Europe.



Subprogrammes

Subprogramme 1: Sustainable production of biomass

Coordinator: Dr. Wolter Elbersen, from Wageningen University and Research (WUR) wolter.elbersen@wur.nl

Aims at optimizing biomass resources for conversion plants, with the security and flexibility of supply, biomass quality, environmental sustainability, and reducing the costs of biomass feedstocks as the main challenges to be addressed.

Subprogramme 2: Thermochemical Platform

Coordinator: Dr. Jaap Kiel, from ECN part of TNO (Netherlands) kiel@ecn.nl

Aims at increasing the efficiency, sustainability (lower GHG emissions) and cost-competitive production of advanced biofuels and bioenergy carriers from biomass through thermochemical processing. Research areas are identified for the development of primary thermochemical conversion processes, downstream processing and advanced biofuel and intermediate carrier value chains.

Subprogramme 4: Stationary bioenergy

Coordinator: Dr. Julien Blondeau, from Belgian Energy Research Alliance (BERA) Julien.Blondeau@vub.ac.be

Aims at upgrading the development of efficient, flexible, affordable and environmentally friendly heat, power and cooling production from biomass. It covers all plant scales, from small residential/ domestic units to medium- to large-scale bioenergy plants focusing on the conversion of woody biomass, especially important for the residential sector, and low-grade feedstocks/residual streams through combustion and gasification technologies.

Subprogramme 3: Biochemical Platform

Coordinator: Dr. Francisco Gírio, from the National Laboratory of Energy and Geology of Portugal (LNEG) francisco.girio@lneg.pt

Aims at improving the technology and developments in biochemical and chemical processes and technologies for producing advanced biofuels, including jet fuels, and the eventual co-production of other bio-based products in biorefinery approaches from all fractions of lignocellulosic biomasses; the biogas from anaerobic digestion; the syngas obtained from thermochemical biomass and bio-waste processing; and the hydrogen from biological and renewable origin.

Subprogramme 5: Sustainability / Techno-economic analysis / Public acceptance

Coordinator: Dr. Raquel S. Jorge, from the Norwegian University of Science and Technology (NTNU) raquel.s.jorge@ntnu.no

Aims at creating a robust tool to tackle issues like the analysis of the environmental sustainability, based on relevant policy requirements, and the techno-economic analysis of bioenergy technologies and value chains, as they are essential for the successful implementation of Bioenergy.

EERA Bioenergy is open for any organisation actively involved in research and innovation focusing on biobased fuels, power and heat, of the European Union*, to join.

EERA Bioenergy has two categories of members: Full Members and Associate Members.

* Including candidate countries of the European Union or countries associated to the Framework Programme of the European Union.

JOINT PROGRAMME SECRETARIAT

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JOINT PROGRAMME COORDINATOR

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