TCP on Bioenergy (Bioenergy TCP)

The aim of the Bioenergy TCP is to increase knowledge and understanding of bioenergy systems in order to facilitate the commercialisation and market deployment of environmentally sound, socially acceptable, and cost-competitive, low-carbon bioenergy systems and technologies, and to advise policy and industrial decision makers accordingly.

Main areas of work

- Enabling bioenergy to provide substantial contributions to future global energy demand
- Stimulating the development and application of innovative bioenergy technologies for heating, electricity and transportation sectors
- Exploring global opportunities for increased sustainable biomass production in agricultural and forestry systems, as well as sustainable landscape management

Key activities and accomplishments (2017-2018)

- Measuring, governing and gaining support for sustainable bioenergy supply chains and related technologies
- Bio-CCS and bio-CCUS solutions for climate change mitigation
- Integrating bioenergy and other renewables in hybrid systems
- Analyzing biomass pre-treatment options to diversify the supply base

Municipal wastewater plant in Enköping, Sweden, with water storage ponds and (behind the ponds) willow fields that are used as vegetation filters, the harvested willow fuelling an adjacent power plant - (Photo: Pär Aronsson, SLU)

Priorities and projects (2019 – 2020)

- Demonstrating the key role of bioenergy in a decarbonising world
- Embedding bioenergy into the broader bioeconomy
- Incorporating the reliability of bioenergy in energy systems
- Enabling the development and application of innovative technologies
- Developing advanced biofuels for mobility
- Developing sustainable biomass supply chains

Multilateral collaborations

- Collaborations with the Biofuture Platform, the *below50* initiative, and IRENA
- Letter of co-operation with the Global Bioenergy Partnership (GBEP)
- Memorandum of Understanding with the Food and Agriculture Organisation (FAO)
- Ongoing collaboration with the TCP on Advanced Motor Fuels (AMF TCP)
- Interest in collaboration with the TCP on Greenhouse Gas R&D (GHG TCP) on Bio-CC(U)S, and with the ETSAP TCP and other renewable energy-related TCPs on the complementary roles of bioenergy and other renewables in future energy systems

Renewable Energy

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United Kingdom


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Why should your organisation become a member of the Bioenergy TCP?

Acceleratedbioenergy deploymentis urgently needed across all end-uses, notably in the transport sector where consumption is required to triple by 2030. The Bioenergy TCP provides a science-based platform for international collaboration and information exchange in bioenergy research, technology development, demonstration, and policy analysis, as well as development of networks and dissemination activities.

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