



IEA Bioenergy Introduction and Task 40 Highlights

Task 40 Deployment of biobased value chains

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Technology Collaboration Programme by lea



IEA Bioenergy

Technology Collaboration Programme (TCP), functioning within a framework created by the **International Energy Agency** (IEA)

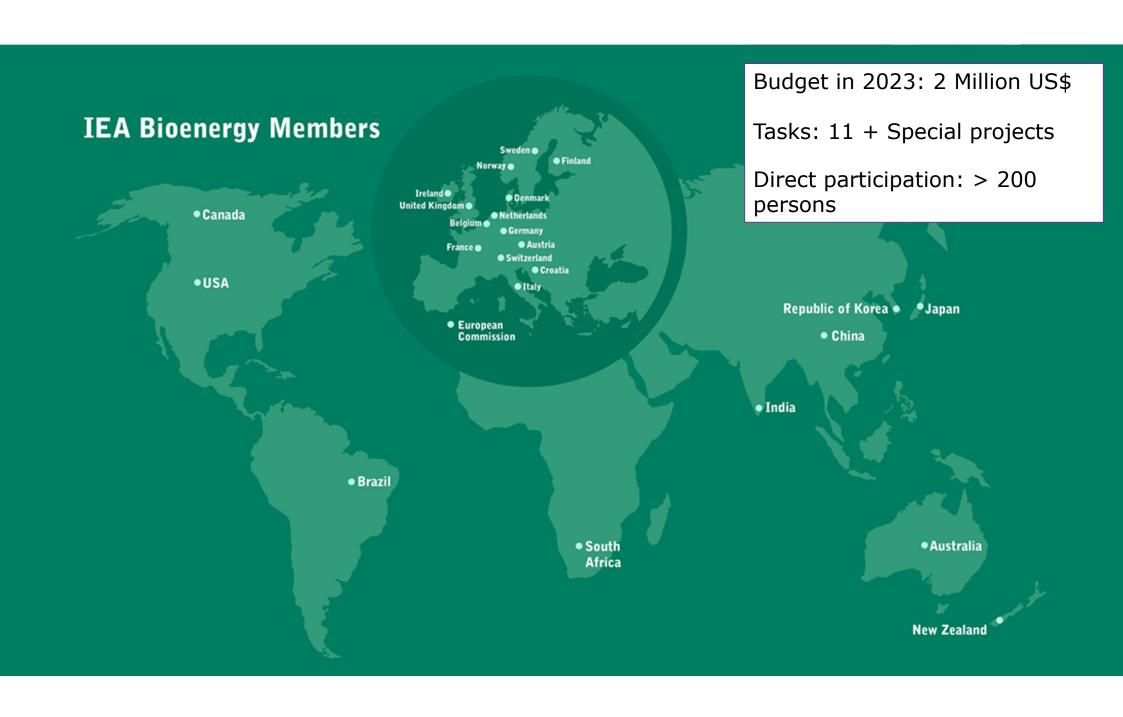
Goal:

- International collaboration and info exchange on bioenergy research, technology development, demonstration, and policy analysis
- Facilitate the commercialization and market deployment of sustainable bioenergy systems
 climate positive, environmentally sound, socially acceptable and cost-competitive (incl. external costs)

Work programme carried out through Tasks, Inter-Task and Special Projects, covering the full value chain from feedstock to final energy product

Currently **24 countries** worldwide plus the European Commission are contracting partners, **11 Tasks in operation**





IEA Technology Collaboration Programme (TCPs)

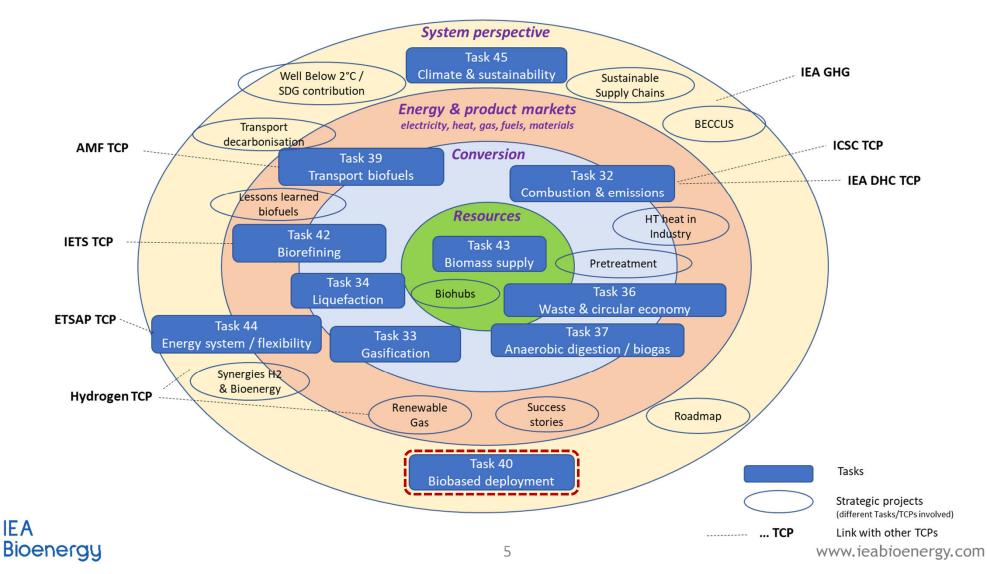
Good to know:

There are TCPs on different energy technologies and energy system considerations (https://www.iea.org/about/technology-collaboration)

- Such as: Renewable Energy (bioenergy, wind, solar, hydropower, geothermal etc.), Industry, Buildings, Transport, Fossil energy, Fusion power, Energy Technology Systems Analysis.
- Currently strong activities to facilitate greater TCP-TCP and/or TCP-IEA collaboration in areas of high priority to IEA members.
- IEA CERT (= Committee on Energy Research and Technology) overlooking the TCP, recently launched a call for TCP Coordination Groups, which are joint thematic initiatives involving different TCPs.
- Currently 6 topics: Carbon Management, Critical minerals, Energy system flexibility, Heat networks, Heat pumps and Hydrogen



Activities in IEA Bioenergy



Task 40 | Deployment of biobased value chains

The future needs sustainable biobased products and markets

- Established in 2003
- Role and mission:
 - clarifying the conditions of deploying biobased value chains considering the longer-term climate and sustainability requirements, and the role of bioenergy and biobased high value co-products in carbon management as part of a future carbon economy.
- Task 40 provides orientation in the field of biomass deployment:
 - How could the transition from currently dominating biomass uses (power plants, heat) towards future uses of biogenic carbon look like?
 - How could the transition from fossil to biobased value chains happen?
- Further infos and publications: https://task40.ieabioenergy.com/







Task 40 | Highlights

- BECCS and BECCU (inter-task)
 - Actual deployment of BECCU/S and BECCU/S projects
 - Task 40 Lead of BECCUS inter-task project
 - Close collaboration with IEA IETS TCP
- Synergies of renewable H2 and biobased value chains deployment (inter-task)
 - Hydrogen from biomass and renewable hydrogen in biobased processes
 - Close collaboration with IEA Hydrogen TCP
- Regional bioenergy markets and transitions (Task project)
 - Analysis of regional biomass mobilization and deployment strategies
 - Focus on mobilization
- Synergies sustainable biobased value chains (Task project)
 - Provide case studies of synergies between food/feed, material and energy uses of biomass



Time for questions?

Thanks for your attention

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