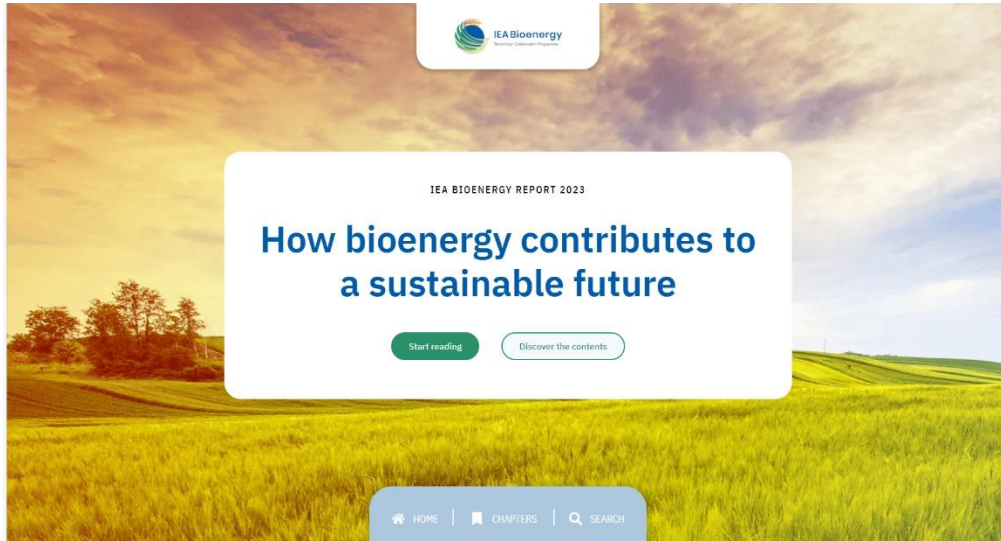




IEA Bioenergy
Technology Collaboration Programme



Introduction to IEA Bioenergy

www.ieabioenergyreview.org

Dina Bacovsky, Chair

Polish TCP Co-ordination Day, 23/03/2023

The IEA Bioenergy Technology Collaboration Programme (TCP) is organised under the auspices of the International Energy Agency (IEA) but is functionally and legally autonomous. Views, findings and publications of the IEA Bioenergy TCP do not necessarily represent the views or policies of the IEA Secretariat or its individual member countries.

IEA Bioenergy

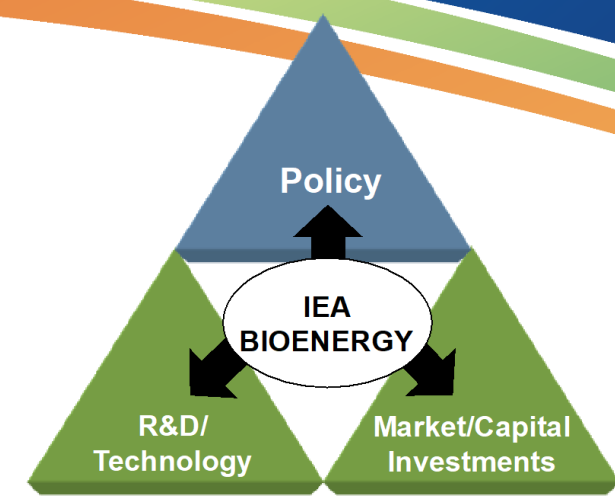
Technology Collaboration Programme (TCP), functioning within a framework created by the International Energy Agency (IEA)

Goal:

- International **collaboration** and **info exchange** on bioenergy research, technology development, demonstration, markets, 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)

25 members: *14 European countries (including Norway) + EC, USA, Canada, Brazil, India, China, Japan, Korea, Australia, New Zealand, South Africa*

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



Bioenergy ...

- is the largest source of renewable energy today
- is **versatile**: heat, power, transport services
- provides substantial **GHG emission savings** if done responsibly
- diversifies energy sources and improves **energy supply security**
- provides **income** through regional biomass supply chains

but

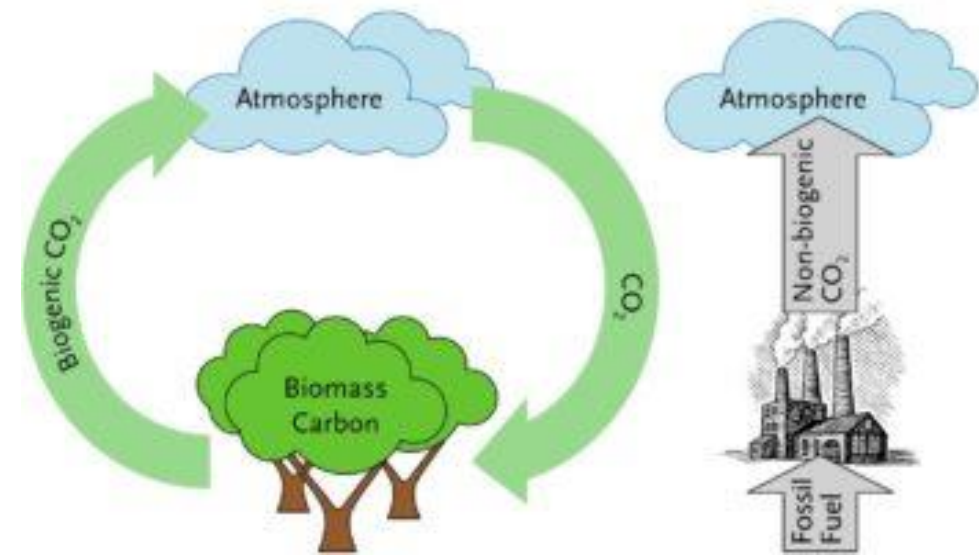
- cannot achieve decarbonisation of our energy system on its own

⇒ complements other renewable energy sources & increases in energy efficiency & reductions in energy demand

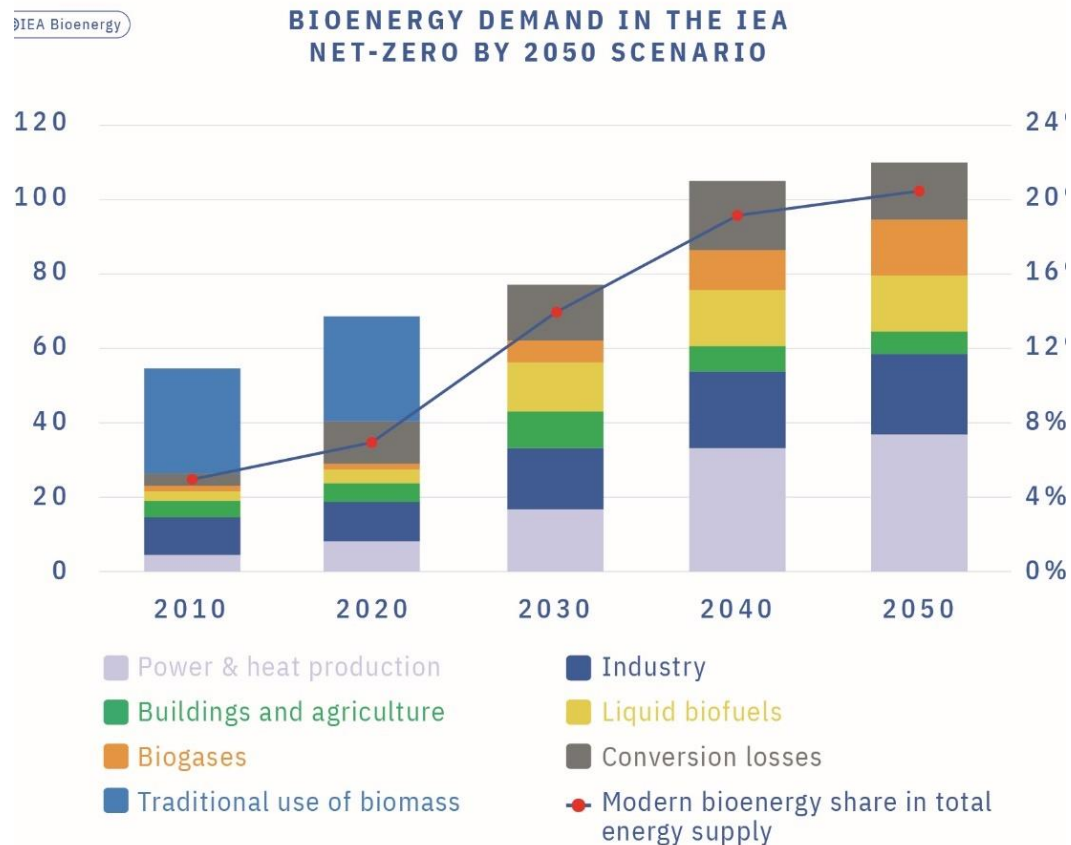
Contribution to climate change mitigation

Bioenergy contributes to climate change mitigation when:

- Biomass is grown **sustainably** (*from sustainably managed landscapes*) and/or based on **waste/residues**
- **Converted** to energy products **efficiently** (often together with other biobased products)
- Used to **displace fossil fuels**
- **Bio-CCS/CCU** can add to that

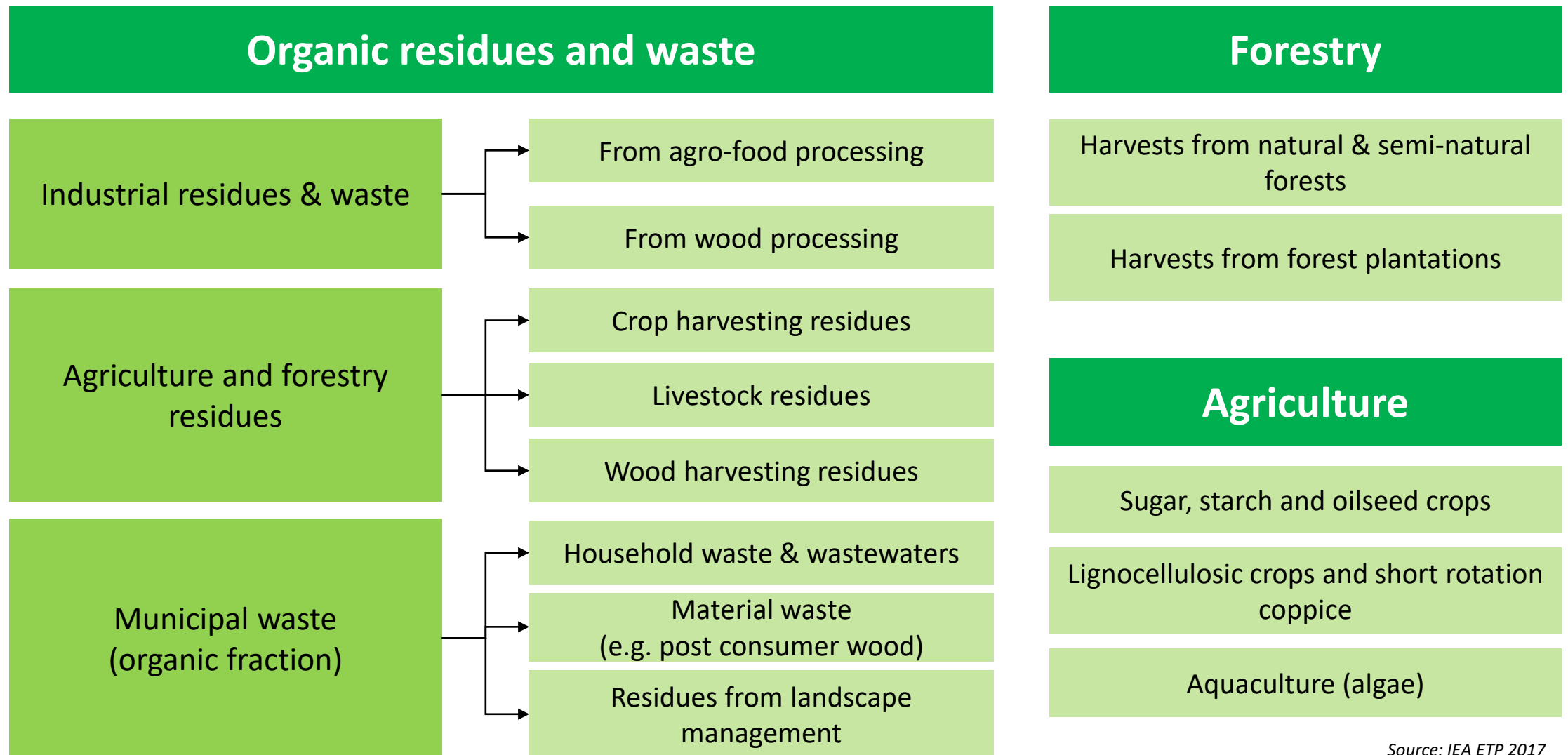


Towards ,net zero‘ - important role of bioenergy



- bioenergy provides one-fifth of energy supply in IEA’s net-zero by 2050 scenario
- Traditional use of biomass to be phased out as soon as possible
- Modern bioenergy supply to triple from 2020 to 2050 (*partly replacing traditional use*)
- All decarbonisation scenarios have increased deployment of sustainable bioenergy
- Negative emissions through BECCS

Multiple sources of biomass - *for energy & biobased economy*



Source: IEA ETP 2017

Sustainability is key

Sustainable forest management
Sustainable agricultural practice
Sustainable landscape management

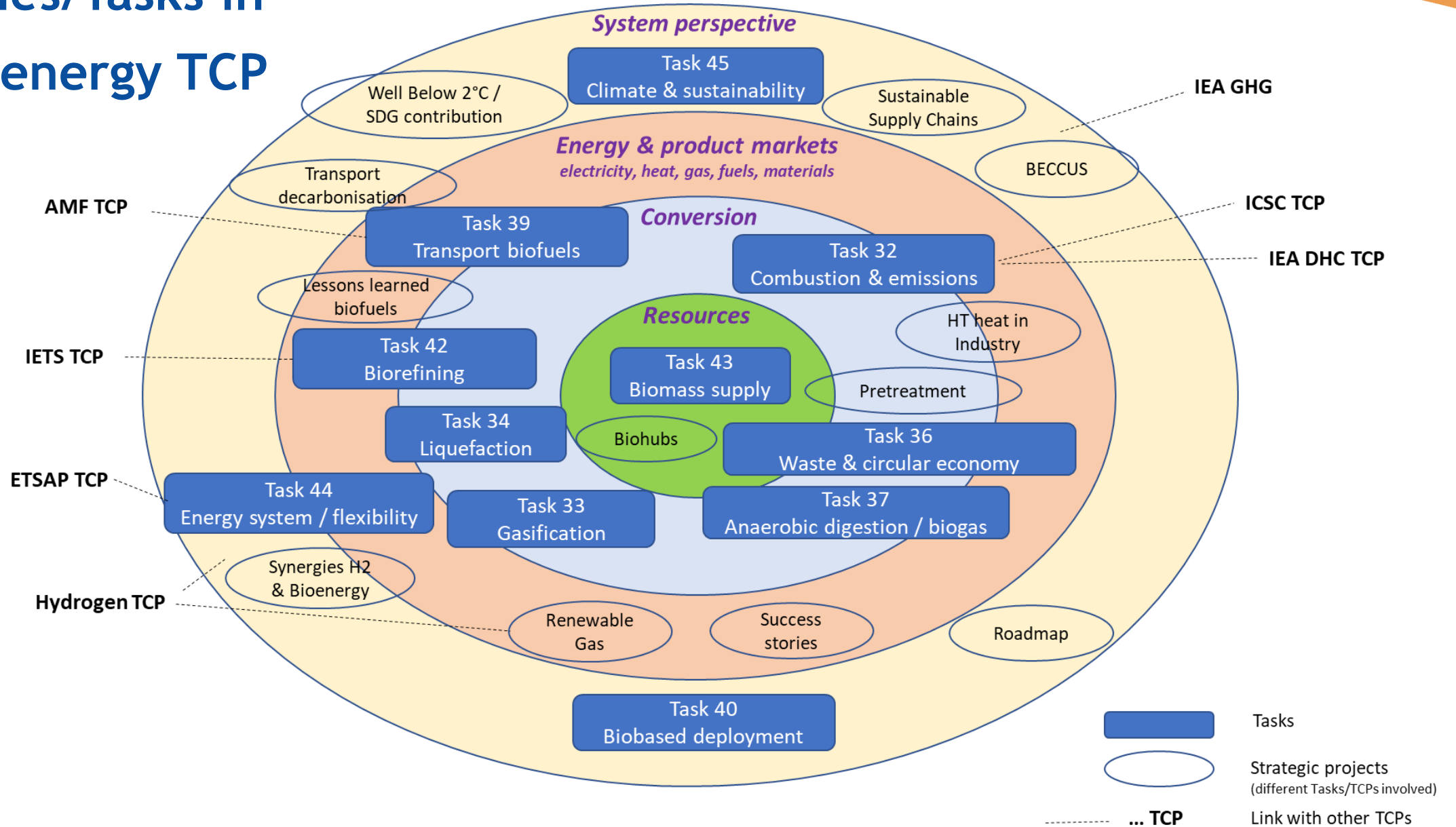


- Biodiversity safeguards
- Attention for carbon sinks, preserving carbon stocks
- Healthy soils (nutrients & organic matter)
- Social opportunities are part of sustainability

Waste treatment & valorisation

+ food/feed & higher value materials have higher priority than energy

Activities/Tasks in IEA Bioenergy TCP



Membership fees

The total cost of the TCP is shared by all members, allowing a reasonable price for an excellent output. The cost details are as follows:

- Each member pays a fixed annual contribution of US\$6,700 to cover the ExCo administration (Secretariat, fund administration, website, Newsletter, etc.)
- In addition, each member chooses the Tasks it will join (at least one). The annual cost for each Task ranges from US\$15,000 to US\$18,500

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