

Introduction IEA Bioenergy

Central European Biomass Conference

Graz, 18-20 January 2017



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IEA Bioenergy TCP

Technology Collaboration Programme (TCP), functioning within a framework created by IEA

GOAL: Facilitate the commercialisation and market deployment of **environmentally sound, socially acceptable and cost-competitive bioenergy systems** and technologies and to advise policy and industrial decision makers accordingly

Key Role: Independent body to give clear and verified information on bioenergy



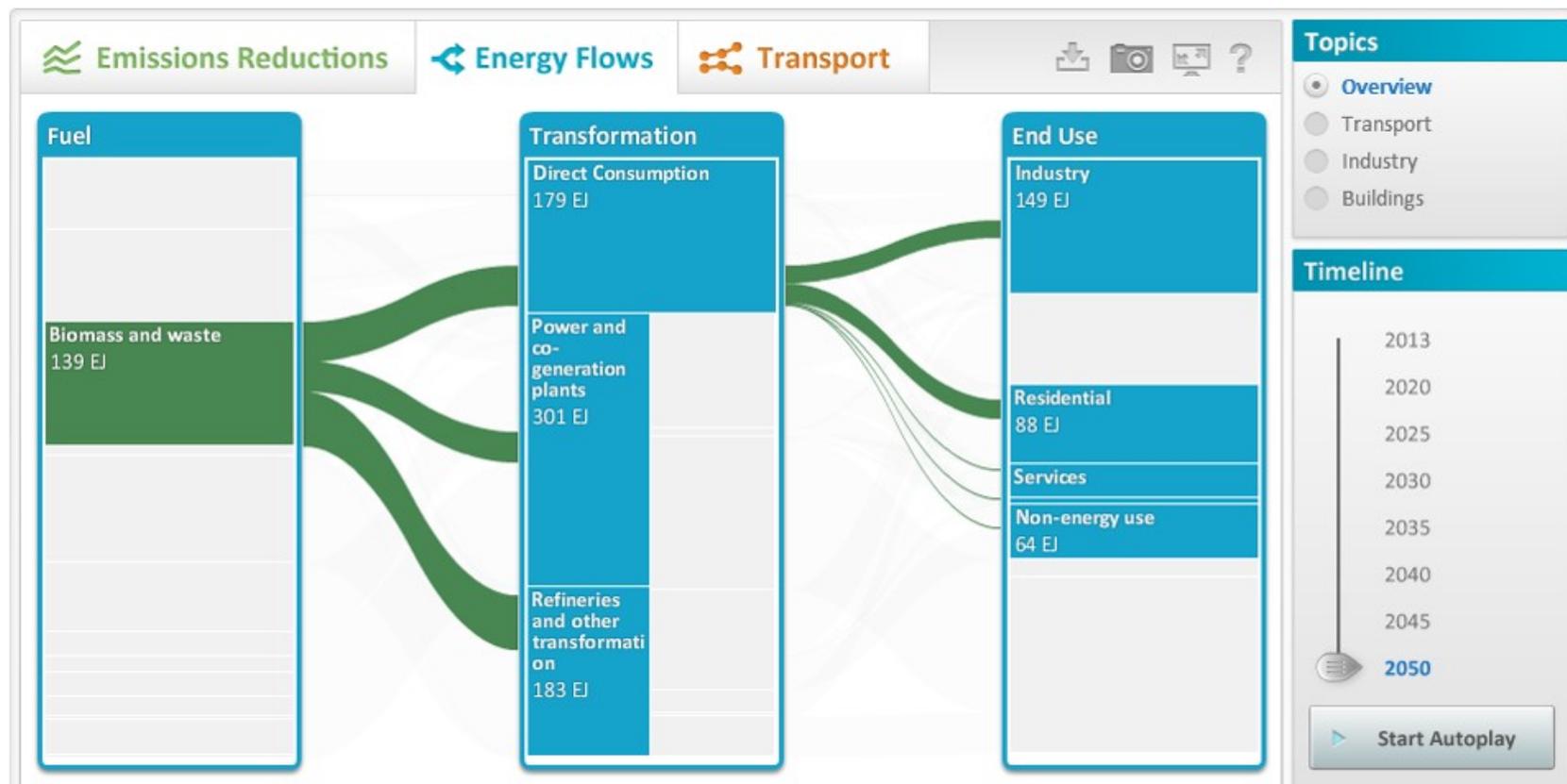
IEA Bioenergy

- Provides an international forum for sharing information and developing best practice on
 - Technology development
 - Non-technical barriers and issues
 - Regulatory and legislative issues
- Produces authoritative information on key strategic issues affecting deployment

Bioenergy in a changing environment

- Bioenergy's significant potential to contribute to future global energy demand
 - It has a role in every energy sector: heat (residential & high temp. process heat), electricity, transport fuel
- Bioenergy's role in the transition to a low carbon economy
- Bioenergy's role in the emerging biobased economy
- Bioenergy's intrinsic interlinkage with the growing demand for food, feed and fibre

Role of biomass in ETP2016

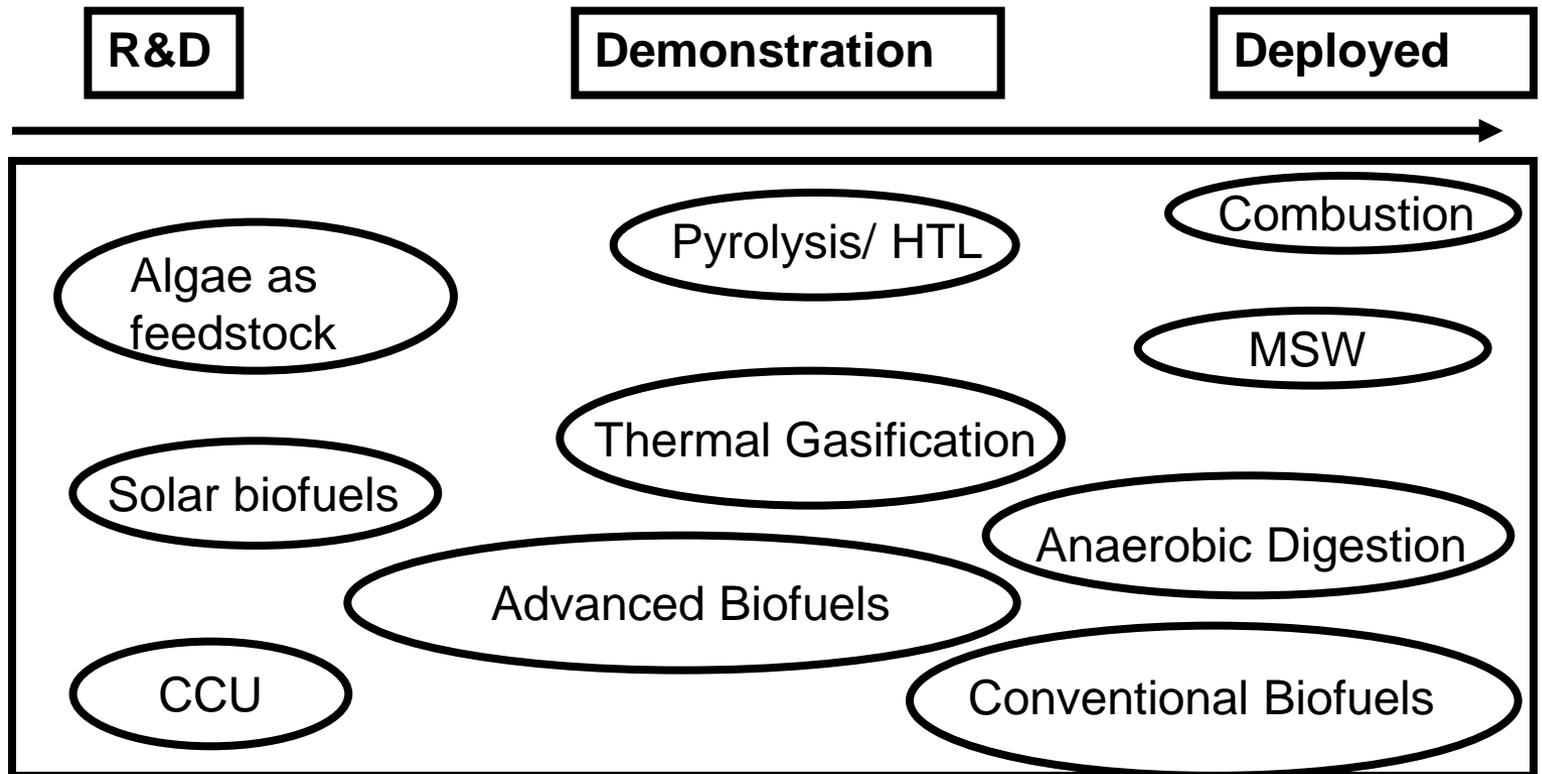


Biomass: 2010: 54 EJ -> 2050: 139 EJ

<http://www.iea.org/etp/explore/>

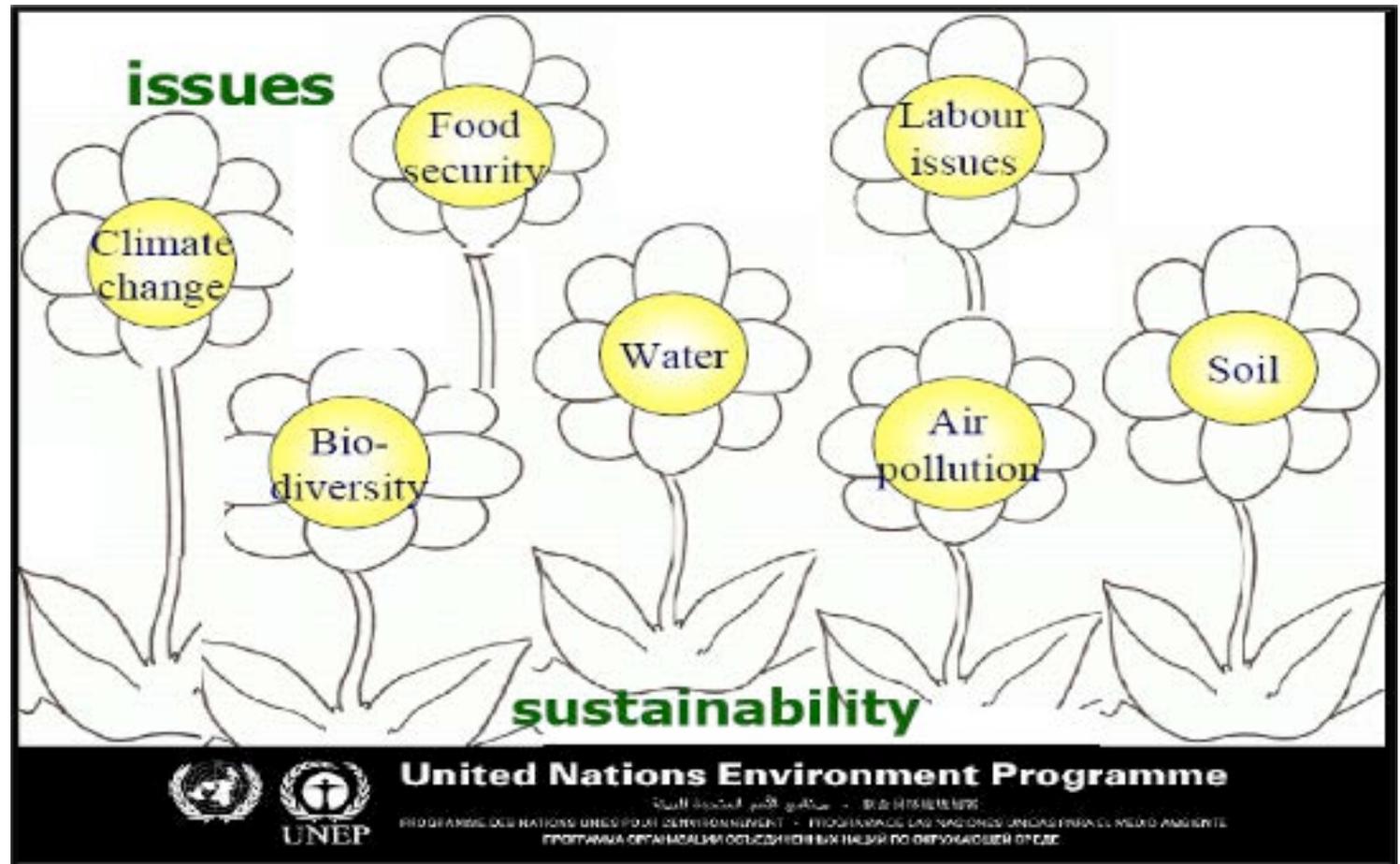
Bioenergy

- *involves a number of technologies which range from fully commercially mature through to those at R&D stage*



Bioenergy

- *deployment raises many issues and non-technical barriers*



IEA Bioenergy: 23 Contracting Parties

EUROPE:

- Austria
- Belgium
- Croatia
- Denmark
- European Commission
- Finland
- France
- Germany
- Ireland
- Italy
- Netherlands
- Norway
- Sweden
- Switzerland
- United Kingdom

ASIA/OCEANIA/AFRICA

- Japan
- Korea
- Australia
- New Zealand
- South Africa

AMERICA'S

- Brazil
- Canada
- United States

IEA Bioenergy TCP

Budget in 2016:

1,9 Million US\$

Tasks: 11

Task participation: 98

Direct participation:

> 200 persons

Tasks

Task 32 - Biomass **Combustion** and Co-firing

Task 33 - **Gasification** of Biomass and Waste

Task 34 - Direct Thermochemical **Liquefaction**

Task 36 - Integrating Energy Recovery into Solid **Waste** Management Systems

Task 37 - Energy from **Biogas**

Task 38 - **Climate Change Effects** of Biomass and Bioenergy Systems

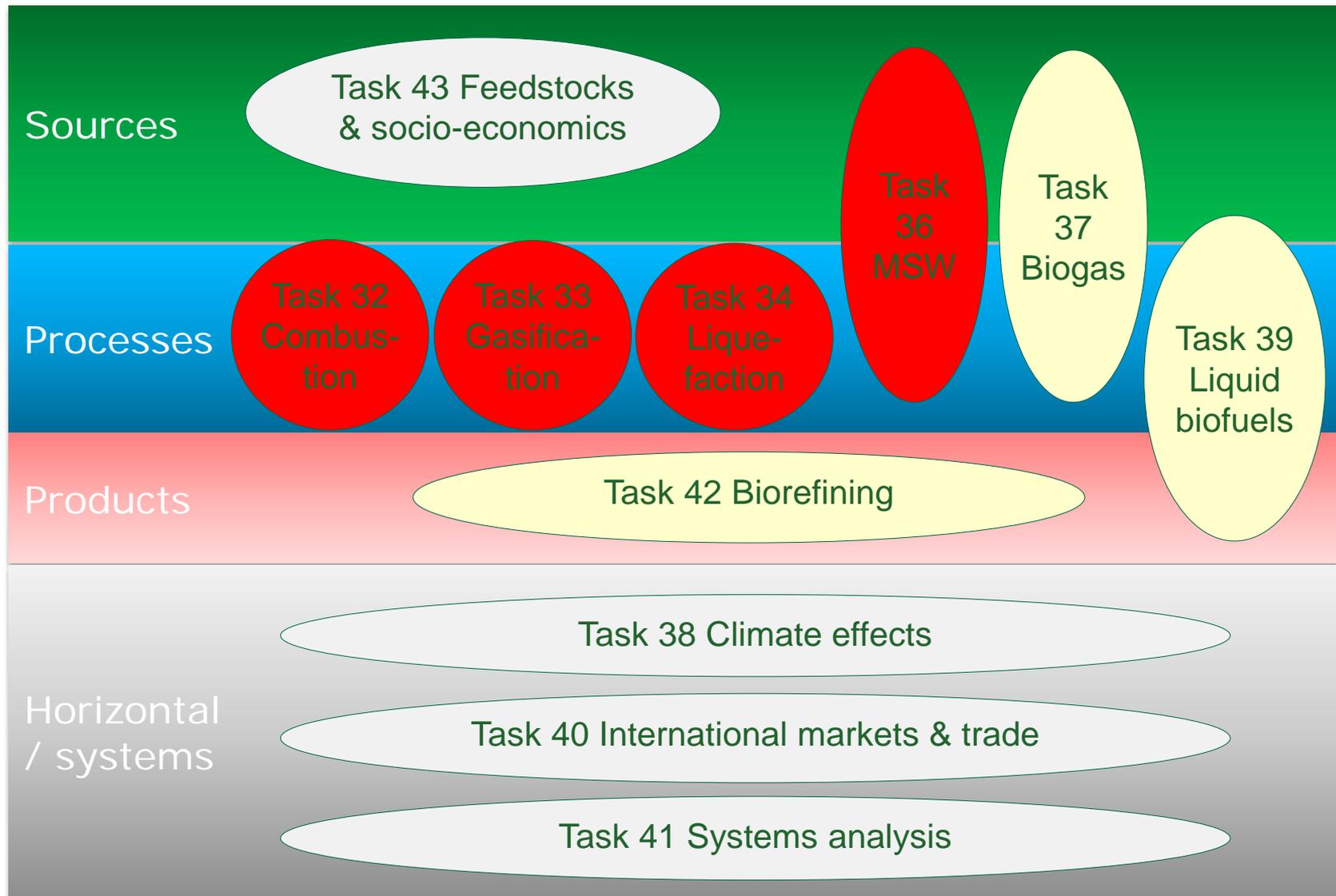
Task 39 - Commercialising Conventional and Advanced **Liquid Biofuels**

Task 40 - Sustainable biomass **markets** and international bioenergy **trade** to support the biobased economy

Task 42 - **Biorefining** in a future BioEconomy

Task 43 - Biomass **Feedstocks** for Energy Markets

Scope



Special projects (Task 41)

- Bio-CCS and Bio-CCUS in climate change mitigation and extended use of biomass raw material
- Bioenergy in balancing the grid & providing storage options
- Bioenergy RES Hybrids
- Contribution to the Bioenergy Roadmap update of IEA

Inter-Task projects

- **Mobilizing** sustainable bioenergy supply chains (*finalized*)
- State of Technology Review – **Algae Bioenergy**
- Fuel **pretreatment** of biomass residues in the supply chain for thermal conversion
- Bioenergy **success stories**
- Measuring, governing and gaining support for **sustainable** bioenergy supply chains

Communication: increased focus on outreach

- Central website <http://www.ieabioenergy.com/>
- Summaries of technical reports
- Position papers
 - e.g. 'Bioenergy for Sustainable Development', joint paper from IRENA, IEA Bioenergy and FAO
- Webinars, next:
 - Algae Bioenergy - 25 January 2017, 4 pm CET
 - The European wood pellet market for small scale heating – 14 March 2017
- Follow us on Twitter (@IEABioenergy)

*Thanks for your
attention*

IEA Bioenergy



Contact Details

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