



# International organisations on sustainable energy innovation towards a well-below 2°C world

Fabian Schipfer

23.04.2020 – Energy Tech Meetup & Venture Café Tokyo

## About the speaker



Fabian Schipfer, Mag. Dr.

### Research focus:

- Market introduction and diffusion of bioenergy & bioeconomy technologies
- Techno-economic assessment of biomass-to-end-use chains
- Scenario modelling
- Inter- & transdisciplinary research
- Vertical farming

<https://orcid.org/0000-0001-6732-6919>



Picture: Karlsplatz, Wien. Fyona A. Hallé [https://commons.wikimedia.org/wiki/File:Wien,\\_Karlskirche\\_und\\_TU.jpg](https://commons.wikimedia.org/wiki/File:Wien,_Karlskirche_und_TU.jpg)

## TASKS

- 32 Biomass Combustion
- 33 Gasification of Biomass and Waste
- 34 Direct Thermochemical Liquefaction
- 36 Material and Energy valorisation of waste in a Circular Economy
- 37 Energy from Biogas
- 39 Commercialising Conventional and Advanced Transport Biofuels from Biomass and Other Renewable Feedstocks
- 40 Deployment of biobased value chains
- 42 Biorefining in a Circular Economy
- 43 Sustainable biomass supply integration for bioenergy within the broader bioeconomy
- 44 Flexible Bioenergy and System Integration
- 45 Climate and Sustainability Effects of Bioenergy within the broader Bioeconomy
- ITP Inter-Task Projects
- SP Special Projects

## LATEST UPDATES

- IEA Bioenergy News Bulletin – March 2020
- New Publication – IEA Bioenergy Task 37 (Energy from Biogas) – Country Report Summaries 2019
- Bioeconomy: the missing link to connect the dots in the EU Green Deal
- New IEA report: Outlook for biogas and biomethane: Prospects for organic growth
- New Publication – Compare and contrast global transport biofuels policies – 2018-2019 Update of Implementation Agendas Report
- IEA Bioenergy Webinar – Biobased chemicals – a 2020 status update
- New Publication – Bio-Based Chemicals – a 2020 Update
- PRESS RELEASE – IEA Bioenergy publishes a new report on the potential for advanced biofuels cost reduction
- New Publication – Advanced Biofuels – Potential for Cost Reduction
- IEA Bioenergy to launch a new report on the potential for advanced biofuels cost reduction

## TWITTER

### Tweets by @IEABioenergy

**IEA Bioenergy** @IEABioenergy

#Bioeconomy offers a great opportunity 2 address the past failure of the economy 2 value nature & #biodiversity. Forest owners & industry generating enough income from a profitable bioeconomy would be in a better position 2 reinvest in biodiversity. Learn more [bit.ly/2JhkMrQ](https://bit.ly/2JhkMrQ)

Figure 1. The layers of Sustainable Development Goals that form the basis for a circular bioeconomy strategy. Source: Azote Images for Stockholm Resilience Centre.

18h

IEA Bioenergy Retweeted

Embed

View on Twitter



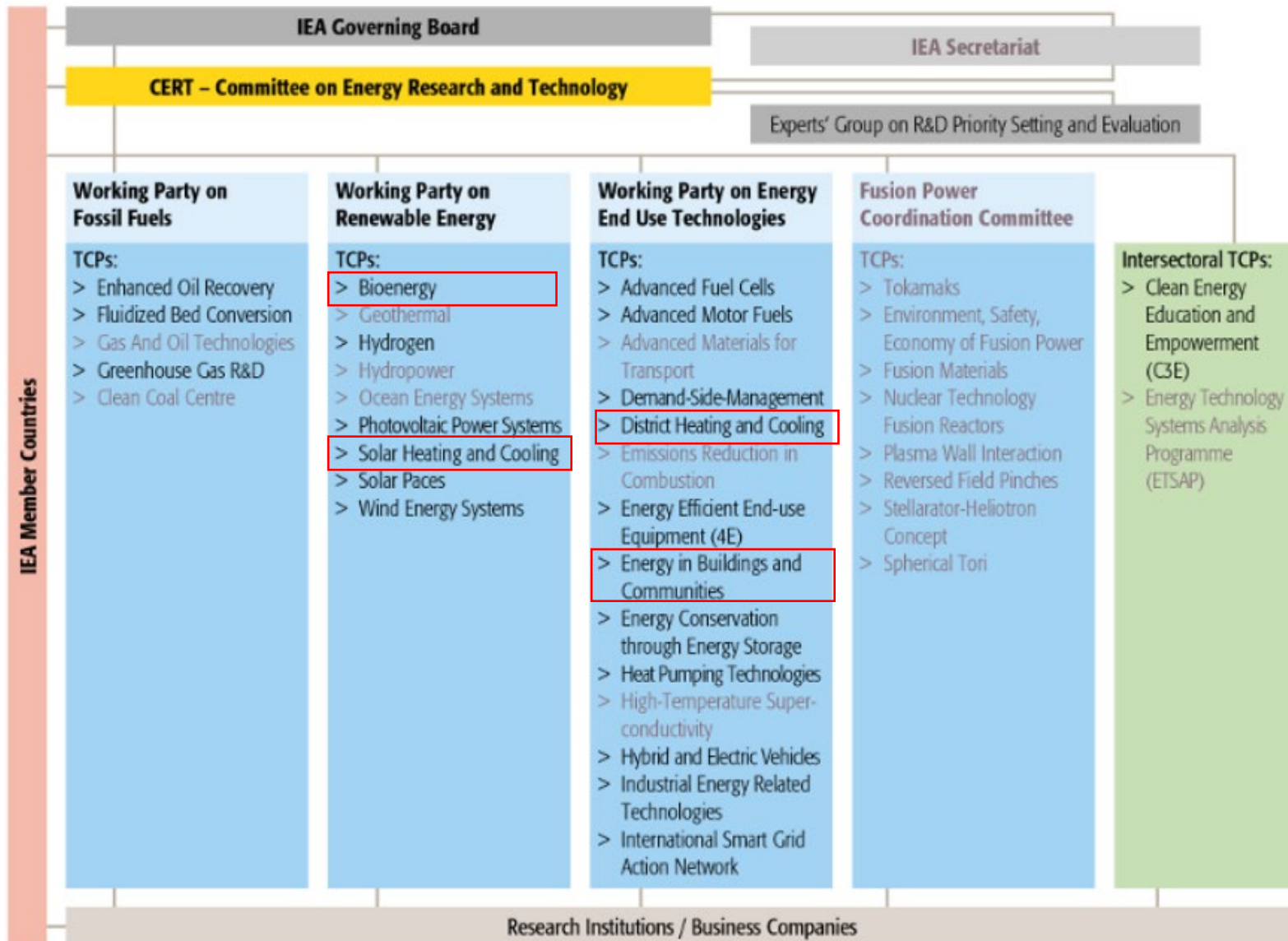
The image is a screenshot of the IEA Bioenergy website. At the top, there is a navigation bar with the IEA Bioenergy logo on the left and links for 'Innovation', 'Member Login', and a search bar on the right. Below this is a green header with a list of menu items: 'Home', 'About', 'Network Table', 'Events', 'Publications', 'Resources', 'Tools', and 'Contact Us'. The main content area is divided into three columns. The first column, titled 'TASKS', lists various project areas with circular icons, including 'Biomass Combustion', 'Gasification of Biomass and Waste', 'Direct Thermochemical Liquefaction', 'Industrial and waste-to-energy', 'Energy from land', 'Commercial Advanced Thermochemical Biomass and Food Waste', 'Deployment', 'Bio-refining', 'Sustainable biomass supply integration for bioenergy within the broader bio-economy', 'Flexible Bioenergy and System Integration', 'Climate and Sustainability Effects of Bioenergy within the broader Bio-economy', 'Joint Task Projects', and 'Special Projects'. The second column, titled 'LATEST UPDATES', features a list of recent publications and reports, each preceded by a green circular icon. The third column, titled 'TWITTER', shows a tweet from the IEA Bioenergy account, which includes a colorful circular infographic. A white text box with a black border is overlaid on the middle of the page, containing the text 'Each task:' followed by a bulleted list of roles: 'Scientific country representative', 'Optional: Industry representative', and 'Government authorities send representatives', with a sub-bullet for 'EU Member States, JP, US, CA, AU ... now China'.

**Each task:**

- Scientific country representative
- Optional: Industry representative
- Government authorities send representatives
  - EU Member States, JP, US, CA, AU ... now China



# OECD Organisation for Economic Co-operation and Development



▶ **OSCE / IEA**



▶ **UN** (United Nations)

- Division for Sustainable Development Goals (DSDG) -> UN Energy (2004)
- IAEA (International Atomic Energy Agency)
- UNFCCC (Framework Convention on Climate Change)
- IMF (International Monetary Fund)
- FAO (Food & Agriculture Organization)



▶ **IRENA** – International Renewable Energy Agency since 2009,



▶ **SE4All** (Sustainable Energy For All) based on UN Sustainable Energy for All initiative 2011



▶ **REN21**  
Members: Inter-governmental organisations, NGOs, Industry Associations, Governments, Academia



▶ Many more international, regional and national, inter-governmental, non-governmental, collaborations on specific topics e.g. *International Energy Forum (IEF)*, *GBEP*, *BioFuture Platform*, *EurObserv'ER*, *EREC*, *World Energy Council*

Thank you for your attention!

Fabian Schipfer

[schipfer@eeg.tuwien.ac.at](mailto:schipfer@eeg.tuwien.ac.at)

