



IEA Bioenergy  
Technology Collaboration Programme



in collaboration with



# BIOMASS AND HYDROGEN: ALLIES FOR NET ZERO

May 15th, 2025

IEA Headquarters,  
9 rue de la Fédération, Paris, France

9:00 - 9:30 Registration and Coffee

9:30 - 10:15 Opening Session and Welcome

**Opening Remarks by IEA representative.** *Paolo Frankl (TBC)*

**Overview of Hydrogen TCP and IEA Hydrogen Coordination Group.** *Paul Lucchese, Hydrogen TCP Chair*

**Overview of Bioenergy TCP and the workshop's objectives.** *Mark Brown, Bioenergy TCP Chair*

**Role of Biofuels and Hydrogen in Clean Energy Transitions.** *Ilkka Hannula, IEA*

10:15 - 12:15 Session 1: Biohydrogen Production

*Potential roles of biohydrogen on the way to decarbonization. Opportunities and challenges*

**Status quo, promising concepts and role of hydrogen and bioenergy concepts.** *Christiane Hennig, DBFZ (Germany)*

**Opportunities and challenges with hydrogen produced via biomass gasification.** *Prof. Joakim Lundgren, Luleå University of Technology (Sweden).*

**Conversion of biomass into H<sub>2</sub> and C – Hycamite business case.** *Laura Rahikka, Hycamite (Finland)*

**Conversion of wastes into H<sub>2</sub> and C – Indeloop business case.** *Danica Malikovic, Indeloop (Croatia)*

**Conversion of biomass into H<sub>2</sub> and C.** *Haffner Energy (France) [invited] / Hydrogen Europe (TBC)*

*Moderated panel discussion, with interactive Q&A session*

*Biomass and H<sub>2</sub> separation techniques: Ernesto Simon, Tecnicas Reunidas (Spain)*

12:15 - 13:30 Lunch Break

13:30 - 15:30 Session 2: Interplay of Bioenergy and Hydrogen Systems

*Integrating H<sub>2</sub> in biomass processing and e-fuels production; environmental, socio-economic and regulatory aspects*

**Synergies of integrating hydrogen in biomass conversion processes - Opportunities and challenges.** *Axel Funke, Karlsruhe Institute of Technology (Germany)*

**Environmental and climate impacts (LCA) of biomass based hydrogen and advanced biofuels production chains – trade-offs and synergies.** *Prof. Martin Junginger, Utrecht University (The Netherlands)*

**Production of SAF e-methanol.** *Juan González, Iberian Energy Storage Research Center - CIAEE (Spain)*

**E-fuels.** *Nadia Cerone – ENEA (Italy)*

**Large-scale Swedish bio-electro-SAF-project: project status, main challenges and what is required to mitigate them.** *Therese Nylander - SCA/Biorefinery Östrand (Sweden)*

*Moderated panel discussion, with interactive Q&A session*



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15:30 - 16:00 Workshop Closure

- *Summary of discussions*
- *Outline of next steps*

16:00 - 16:30 Wrap-up of Day 1 (Internal)

16:30 Coffee Break

19:00 Workshop Dinner (optional for networking)