

Joint workshop by the International Energy Agency and the European Commission

Electrofuels

Date: Monday 10 September 2018

Venue: Room JDE 52, European Committee of the Regions

[Rue Belliard/Belliardstraat 101, 1040 Brussels](#)

Summary

The International Energy Agency (IEA) and European Commission (EC) are organizing a comprehensive workshop on electrofuels scheduled for September 10 2018 in Brussels (Belgium). This workshop is supported by the Alternative Renewable Transport Fuels Forum (ART Fuels Forum) and five IEA Technology Collaboration Programmes (TCP): Bioenergy, Hydrogen, Clean and Efficient Combustion, Advanced Fuel Cells, and Advanced Motor Fuels.

The goal of this workshop is to discuss the potential role of electrofuels in a decarbonizing energy sector despite existing barriers from high production costs and uncertain sustainability performance.

The event will focus on four main topics:

1. Strategic relevance and potential of electrofuels amidst emerging variable renewable generation capacity with low costs
2. Production pathways, cost developments, and usage options for electrofuels
3. The sustainability of electrofuels with respect to key indicators such as life cycle emissions and land use requirements
4. Implications for low carbon transport scenarios, policy developments, and the work plan of the IEA Technology Collaboration Programmes.

The format of the workshop aims to facilitate dialogue among the participants to exchange expert opinions on the included topics. The agenda combines presentations, panel discussions, and structured discussions involving participants from academia, industry, governments, and NGOs.

The workshop is open to any interested participant, within the limits of room availability.



IEA Bioenergy



AGENDA

- 8:30 **Registration & Welcome**
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- 9:00 **Introduction and overview of the agenda**
Dr Kyriakos Maniatis, Principal Administrator, DG ENER, EC
Pierpaolo Cazzola, Transport Analyst, IEA
Opening
Tudor Constantinescu, Principal Adviser to Director General DG ENER, EC
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- 9:15 **Introductory keynote speech**
Cédric Philibert, Senior Analyst in the Renewable Energy Division, IEA
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- 9:30-10:45 **Session 1 – Electrofuel production pathways and costs**
Chair: *Dr Kyriakos Maniatis*, Principal Administrator, DG ENER, EC
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- Hydrogen**
Paul Lucchese, Chair, IEA Hydrogen TCP
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- Ammonia**
Professor Bill David, Professor of Chemistry, University of Oxford
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- Liquid hydrocarbons**
Karl Hauptmeier, Head of Products, Sunfire
-
- Liquid hydrocarbons**
Dr Jitka Hrbek, Senior Scientist, Vienna University of Technology, IEA Bioenergy Task 33
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- Methane**
Eelco Dekker, Managing Director, Conker
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- 10:45-11:15 **Session 2 – Costs and benefits: How do electrofuels compare with other options?**
Chair: *Dr Kyriakos Maniatis*, Principal Administrator, DG ENER, EC
Dr Jens Perner, Associate Director, Frontier Economics
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- Adrian O’Connell*, Scientific Officer, European Commission Joint Research Centre
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- 11:15-11:45 **Coffee break**
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11:45-12:45 **Q&A for sessions 1 & 2**

Chair: *Dr Kyriakos Maniatis*, Principal Administrator, DG ENER, EC

12:45-14:00 **Lunch break**

14:00-15:00 **Session 3 – Usage of electrofuels**

Chair: *Cédric Philibert*, Senior Analyst in the Renewable Energy Division, IEA

Road

Dr Ilkka Hannula, Principal Investigator, VTT Technical Research Centre of Finland Ltd

Shipping

Dr Carlo Raucci, Principal Consultant, University Maritime Advisory Services

Aviation

Dr Arne Roth, Lead of Alternative Fuels, Bauhaus Luftfahrt

Power and Industry

Andreas ten Cate, Director International Business Development, ISPT

15:00-16:00 **Q&A for session 3**

Chair: *Cédric Philibert*, Senior Analyst in the Renewable Energy Division, IEA

16:00-16:30 **Coffee break**

16:30-17:30 **Panel – What's next?**

Chair: *Pierpaolo Cazzola*, Transport Analyst, IEA

Denis Thomas, Board Member, Hydrogen Europe

Laura Buffet, Manager Clean Fuels, Transport & Environment

Dr Magnus Lindgren, Chair, IEA Advanced Motor Fuels TCP

Morna Cannon, Head of Maritime 2050 Environment Strategy, UK Department for Transport

Paula Abreu Marques, Head of Unit, DG ENER, EC

17:30 **End of meeting**