

Workshop in the frame of the Horizon 2020 project Heat-to-Fuel

# Heat-to-Fuel interfaces to advanced Power-to-Gas and Power-to-Liquids Technologies (e-fuels)

## AGENDA

### Digital workshop

First day: Monday, the 8<sup>th</sup> of March 2021, 09:00-12:00

Second day: Tuesday, the 9<sup>th</sup> of March 2021, 09:00-12:40

### Programme of the first workshop day

**Monday, the 8<sup>th</sup> of March 2021**

#### 09:00 Keynotes

Heat-to-Fuel: Beyond state-of-the-art fuel production with highly efficient PtL integration option.

DI Dr. Richard Zweiler,  
CEO, GET GmbH

E-fuels prospects – Where are we (heading to)?

Dipl.-Ing. Patrick Schmidt,  
Senior Consultant, LBST GmbH

BtL and PtL, differences and similarities at technical level

Prof. Dr. Reinhard Rauch,  
Professor, KIT

BtL and PtX into the framework of EU policies on biofuels

Prof. Dr. David Chiaramonti,  
President, RECORD

#### 10:20 Session: Hydrogen Production

Large scale PEM-Electrolysis and Sector Coupling

Ilona Dickschas,  
Siemens Energy (New Energy Business)

Production of Renewable Hydrogen and Syngas via High-Temperature Electrolysis

Dr. Oliver Posdziech,  
Head of Large Systems Development, Sunfire GmbH

KEROGREEN,  
towards CO<sub>2</sub> neutral chemicals and fuels

Prof. Dr. Richard van de Sanden,  
Group Leader PSFD, DIFFER

Aqueous phase reforming for the production of H<sub>2</sub> from biorefinery waste waters: technological challenges and perspectives

Prof. Samir Bensaid, Professor, POLITO

**11:40** **Wrap up and discussion of the first workshop day** *Prof. Dr. Reinhard Rauch, Professor, KIT*

**12:00** **End of workshop day 1**

*Programme of the second workshop day*

*Tuesday, the 9<sup>th</sup> of March 2021*

**09:00** **Session: Carbon Capture**

The Global Carbon Cap – A Legislation for Cost Efficient CO<sub>2</sub> Reduction

Dr. Hermann Pengg,  
Managing Director, Audi e-gas  
Betreiberesellschaft m.b.H.

Solid Sorbent Technology for post-combustion CO<sub>2</sub> capture

Dr. Joana Tsou,  
Shell Global Solutions  
International B.V.

Direct Air Capture (DAC) – Closing the carbon cycle with E-Fuels from air

André Bechem,  
Senior Product Engineer,  
Climeworks

**10:00** **Session: Fuel Production**

Last flexible methanation in an advanced power-to-gas system

Dr. Alfred Friedacher,  
Director of R&D, Christof  
Industries Austria GmbH

CO<sub>2</sub> gasification for the production of synthetic biofuels

Dr. Anna Mauerhofer, Post-doc,  
Dr. Stefan Müller, Senior  
Scientist, ICEBE, Vienna University  
of Technology

Milli-structured Heat Exchangers Reactors for Power to X applications

Geneviève Geffraye,  
Senior Scientist, CEA  
Arwa Adel,  
Project manager, Khimod Alcen

Production of biofuel's precursors from HTL of industrial residues

Dr. Andrea Rizzo, Technical  
director, RECORD

## 11:20 Session: *Demonstration projects*

Results of the European PtG demonstration project STORE&GO

Dr. Frank Graf, Head of Division Gas Technology, DVGW Research Center at Engler-Bunte-Institut of KIT

Multimegawatt high-temperature electrolyser to generate green hydrogen for production of high-quality biofuels

Julie Mougin,  
Head of Hydrogen Technologies Laboratory, CEA

Linking of b-fuel and e-fuel production –  
Simmeringer Haide Research Hub

Dr. Teresa Schubert,  
Senior Specialist Research & Development, Wien Energie GmbH

## 12:20 Closing remarks

*Wrap up and discussion*

***Prof. Dr. Reinhard Rauch,  
Professor, KIT***

## 12:40 End of workshop

The attendance of the workshop is free of charge.

Participants are kindly requested to register at <https://www.heattofuel.eu/efuels-workshop/>

In case of questions please contact [efuels@heattofuel.eu](mailto:efuels@heattofuel.eu)