

# FUELS OF THE FUTURE



DIGITAL &  
INTERNATIONALLY  
NETWORKED!

## 18<sup>th</sup> International Conference for Renewable Mobility

FUELS OF THE FUTURE 2021

18<sup>th</sup> – 22<sup>th</sup> January 2021,  
daily 9:00 hours – 17:30 hours, CET (Berlin)

[www.fuels-of-the-future.com](http://www.fuels-of-the-future.com)

Organiser:

Supported by:



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Your registration

### Participation Fee

The participation fee for the **18<sup>th</sup> International Conference “Fuels of the Future 2021”** is **plus the applicable value added tax** and includes participation in all 5 days of the event or 15 sessions:

570,00 €	Early bird rate for booking until 30.11.2020
750,00 €	for booking from 01.12.2020
370,00 €	member tariff (BBE, UFOP, VDB, BDB <sup>®</sup> and Fachverband Biogas)
270,00 €	Representatives from federal and state ministries
70,00 €	students (free admission on presentation of a valid student card)
70,00 €	free press (free admission on presentation of a valid press card)

### Registration & Invoicing

After registration you will receive a confirmation of registration by e-mail. After receiving the confirmation of registration you are registered for the conference. **The invoice will be sent to you at the beginning of January 2021. The statutory value added tax at the time of performance shall apply. As of January 2021, the current rate is 19%.** Please transfer the participation fee upon receipt of the invoice, quoting the invoice number. You will receive the access data for the digital sessions after receipt of payment at least 5 days before the event.

### Participation list

If you have given your consent during registration that your first name, surname and company affiliation can be published on a list of participants, we have noted this. This consent can be revoked at any time, provided that the Bundesverband Bioenergie (BBE) is informed in writing.

### Cancellation

A processing fee of € 50,00 will be charged if you cancel your participation by 05/01/2021 (only by mail to kastner@bioenergie.de). If you cancel after the 05/01/2021 the full participation amount is due. Please give your full name, address and invoice number in case of a calculation. Alternatively, you can appoint a substitute participant without additional costs.

[www.fuels-of-the-future.com/en/agb-2](http://www.fuels-of-the-future.com/en/agb-2)

## Dear colleagues,

We find ourselves in very turbulent and challenging times at present.

First and foremost, of course, the current coronavirus crisis must be mentioned in this context; its impact affects all of us, making itself felt in our daily lives, both in the professional and private sphere, and also making it necessary to adopt a different format for “Fuels of the Future 2021”, our 18<sup>th</sup> International Conference on Renewable Mobility.

Given all the difficulties in planning conferences and events caused by COVID-19, the organisers have decided that the “Fuels of the Future 2021” conference will be held as a digital event rather than the face-to-face event originally scheduled for 18<sup>th</sup> and 19<sup>th</sup> January 2021 in Berlin.

**The conference motto is therefore: “Fuels of the Future 2021 – digitally & internationally networked”!**

The “Fuels of the Future 2021” conference will be held as a **5-day event series** from **18<sup>th</sup>–22<sup>nd</sup> January 2021**. There will be three sessions on each day of the conference. There’s one particular advantage to this digital format: it will allow you to participate in all the conference sessions. The digital conference will be held in two languages (German-English), just as it usually is.

The organisers’ primary concerns in taking this decision are to play our part in sharing responsibility for containing the COVID-19 pandemic and, in particular, to ensure that the conference participants, speakers and moderators will feel safe and at ease throughout the entire event. Furthermore,

we wish to ensure participants do not need to put themselves in a situation whose potential risks we cannot assess in full at present. We hope that you will understand this decision and are confident that we will once again be able to offer you a very attractive platform with a host of new information, fascinating topics and discussions in the digital-format **“Fuels of the Future 2021” conference**.

These turbulent times also confront us in the political environment for renewable mobility and in terms of substantive developments.

Despite all the efforts undertaken, to date the transport sector in Germany, Europe and worldwide has made practically no contribution to climate protection. Both higher power-to-weight ratios in the vehicle fleet and an increase in road-based freight transport have more than cancelled out technological efficiency gains and greenhouse gas savings.

Defossilisation of the transport sector is a central challenge, not least in view of its macroeconomic importance. At the same time, climate protection is already running out of time in the light of the greenhouse gas budget still available globally if we are to meet the 1.5-degree target. The European Commission’s “Green Deal” therefore envisages raising the climate protection target by 2030 from the current 40 percent to 50 to 55 percent.

The resulting enormous pressure to act on climate protection requires prioritisation of what can be achieved in the commitment period using which measures. The climate protection policy pursued by the current

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German EU Council Presidency should also be directed towards this objective.

In its programme, the German government has set the goal of working towards “climate-friendly, sustainable and affordable mobility”. The biofuel industry associations welcome this stated aim and underline the need for openness to various potential technologies, underscoring too that biofuels’ sustainably available potential must also be taken into account to meet national climate protection targets. Without biofuels, greenhouse gas emissions in the transport sector in 2018 would have been approximately 9.5 million tonnes CO<sub>2</sub>-equivalent higher.

Achieving the 2030 target under the Climate Change Act requires a massive reduction in greenhouse gas emissions for the transport sector. However, developments in the transport sector have so far run counter to this goal. Since other promising measures such as e-mobility, hydrogen and other electricity-based fuels will only start to have a tangible impact on climate protection after 2030, over the next 10 years sustainable biofuels will be the means of choice for greenhouse gas reduction in the transport sector, especially in the existing vehicle fleet.

A wide range of challenges and tasks must therefore be tackled to ensure decisive progress on renewable mobility and mitigating climate change. As a national and international discussion platform, the “Fuels of the Future 2021” conference picks up on these central questions about the future of mobility. Take an active part in

this future-oriented discussion on decarbonisation of the transport sector – it’s a global challenge.

**I look forward to welcoming you to the conference, this time in a digital format!**

**Artur Auernhammer, MP**

Chairman of the Board,  
German Bioenergy Association



**MONDAY, 18/01/2021**

**DIGITAL CONFERENCE DAY 1 (SESSIONS 1,2+3)**

<b>1</b>	Climate protection – are we running out of time?	10:00 – 12:30
<b>2</b>	Transposition of European provisions into national law (RED II, FQD, etc.)	13:30 – 15:30
<b>3</b>	New aspects of sustainability	16:00 – 18:00

**TUESDAY, 19/01/2021**

**DIGITAL CONFERENCE DAY 2 (SESSIONS 4,5+6)**

<b>4</b>	E-fuels – competitiveness of PtX fuels today and tomorrow	9:00 – 11:00
<b>5</b>	Bioethanol – recognising and using its potential	11:30 – 13:30
<b>6</b>	Biodiesel – research ensures continuing market presence	14:30 – 16:30

**WEDNESDAY, 20/01/2021**

**DIGITAL CONFERENCE DAY 3 (SESSIONS 7,8+9)**

<b>7</b>	Biomethane as a fuel: gaseous, liquid and sustainable!	9:00 – 11:00
<b>8</b>	The potential of biomass between dream and reality	11:30 – 13:30
<b>9</b>	Biofuels from waste and residues	14:30 – 16:30

**THURSDAY, 21/01/2021**

**DIGITAL CONFERENCE DAY 4 (SESSIONS 10,11+12)**

<b>10</b>	Advanced alternative fuels – technology options and investments	9:00 – 11:00
<b>11</b>	Biofuels in shipping	11:30 – 13:30
<b>12</b>	Biofuels in aviation	14:30 – 16:30

**FRIDAY, 22/01/2021**

**DIGITAL CONFERENCE DAY 5 (SESSIONS 13,14+15)**

<b>13</b>	Biofuels in agriculture and forestry	9:00 – 11:00
<b>14</b>	Biomethane international: legal framework, incentives, success stories	11:30 – 13:30
<b>15</b>	International biofuel trade	14:30 – 16:30

All times in CET (Central European Time)



# 18<sup>th</sup> International Conference for Renewable Mobility

18<sup>th</sup> – 22<sup>th</sup> JANUARY 2021



## Series of online events with 15 sessions

- Participate via PC, laptop, tablet or smartphone
- Chat function: During the session you can ask your questions in the chat
- Digital coffee & lunch break:  
Presentation + exchange from and with gold sponsors

According to your conference booking you will receive your access information for the conference at least 5 days before the event

SESSION

1

## Climate protection – are we running out of time?

10:00 – 12:30 HOURS

### Moderation:

Elmar Baumann, German Biofuels Industry Association e. V. (VDB)

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### Biofuels as part of sustainable mobility

Artur Auernhammer, MP, Chairman of the Board, German Bioenergy Association e. V. (BBE)

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### The importance of alternative fuels in the Federal Government's climate protection program 2030

Andreas Scheuer, Federal Minister for Transport and Digital Infrastructure (BMVI)

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### From biofuels, e-fuels to the e-car – which climate protection priorities does the vehicle industry set in implementing alternative fuels and drive strategies?

Hildegard Müller, German Association of the Automotive Industry e. V. (VDA)

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### Climate protection in road transport – who pays? Appraisal of national and EU biofuels policy

Karsten Schulze, CEO, General German Automobile Association e. V. (ADAC)

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### Climate protection's surprisingly simple mathematics – what are we waiting for?

Prof. Dr.-Ing. Thomas Willner, Hamburg University of Applied Sciences (HAW Hamburg)

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### Discussion

After the presentations:

- Answering your questions from the chat

**12:30 HOURS – 13:30 HOURS**

**DIGITAL LUNCH BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS**

SESSION

2

## Transposition of European provisions into national law (RED II, FQD, etc.)

13:30 – 15:30 HOURS

### Moderation:

Stefan Walter, German Bioethanol Industry Association (BDB<sup>e</sup>)

### Importance of e-fuels and biofuels for transposition of RED II into national law

N.N.

### Alternative fuels to attain German climate goals – what are the volumes required?

Elmar Baumann, German Biofuels Industry Association e.V. (VDB)

### Presentation of a regulatory proposal for market introduction of electricity-based renewable fuels on the basis of crediting of emission reductions against fleet emissions from fuels placed on the market

Werner Diwald, Chairman of the Board, German Hydrogen and Fuel Cell Association e.V. (DWV)

### Creating a regulatory framework for renewable fuels – cross-sectoral switch of energy taxes to a CO<sub>2</sub> reference basis

Prof. Dr. Christian Küchen, German Petroleum Industry Association e.V. (MWV)

### Discussion

After the presentations:

- Answering your questions from the chat

Your registration

15:30 HOURS – 16:00 HOURS

DIGITAL COFFEE BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS

SESSION

3

## New aspects of sustainability

16:00 – 18:00 HOURS

### Moderation:

Frank Brühning, German Biofuels Industry Association e.V. (VDB)

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### Agrivoltaics – an opportunity for agriculture and energy transition

Simon Gruber, Fraunhofer Institute for Solar Energy Systems ISE

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### What innovations does RED II bring for sustainability?

Peter Jürgens, REDcert GmbH

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### Sustainable fuels for logistics. Status. Perspectives. Solutions.

Dr. Henrik von Storch, Deutsche Post DHL Group

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### Provision of sustainably obtained lignocellulose – containing biomass from bush-wood from Namibia to produce BTL fuels

Dr. Rainer Schrägle, Technologica GmbH / Frank Gschwender, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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### Discussion

After the presentations:

- Answering your questions from the chat

**18:00 HOURS**

**END OF CONFERENCE DAY 1**

SESSION

4

## E-fuels – competitiveness of PtX fuels today and tomorrow

9:00 – 11:00 HOURS

### Moderation:

Dr. Franziska Müller-Langer, German Biomass Research Centre (DBFZ)

### Comparative appraisal of Power-to-X processes for provision of fuels from renewable sources

Dr. Siegfried Bajohr, DVGW Research Centre at the Engler-Bunte Institute of the Karlsruhe Institute of Technology (KIT)

### Role of electrofuels in the decarbonisation of road transport

Dr. Ilkka Hannula, VTT Technical Research Centre of Finland

### Supply chains for e-fuels from abroad to Germany

Johannes Daum, NOW GmbH, National Organisation Hydrogen and Fuel Cell Technology

### Biobased fuels and e-fuels – competition or synergy?

Dr. Ulf Neuling, Hamburg University of Technology, Institute of Environmental Technology and Energy Economics

### Discussion

After the presentations:

- Answering your questions from the chat

Your registration

**11:00 HOURS – 11:30 HOURS**

**DIGITAL COFFEE BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS**

SESSION

5

## Bioethanol – recognising and using its potential

11:30 – 13:30 HOURS

### Moderation:

Christine Kroke, German Bioethanol Industry Association e.V. (BDB<sup>e</sup>)

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### Investigation of fuels for combustion and diesel engines under RDE test conditions with series vehicles

Anja Singer, Coburg University of Applied Sciences

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### Ageing and mixing behaviour of alcohols in gasoline and diesel

Karin Brendel, OWI Science for Fuels gGmbH

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### Ethanol blended gasoline: Positive impacts on emissions and health

Dr. Steffen Mueller, UIC Energy Resources Center

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### Upgrading of bioethanol to biobutanol – high value chemicals and jet fuel

Dr. Kapil Lokare, Founder/Adviser

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### Discussion

After the presentations:

- Answering your questions from the chat

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**13:30 HOURS – 14:30 HOURS**

**DIGITAL LUNCH BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS**

SESSION



## Biodiesel – research ensures continuing market presence

14:30 – 16:30 HOURS

### Moderation:

Prof. Dr. Jürgen Krahl, President, Ostwestfalen-Lippe University of Applied Sciences and Arts (TH OWL)

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### Biodiesel as an integral component of future-oriented diesel fuels

Martin Unglert, Coburg University of Applied Sciences

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### Digital fuel twins – options for climate protection

Prof. Dr. Thomas Schulte, Future Energy Institute (iFE), Ostwestfalen-Lippe University of Applied Sciences and Arts (TH OWL)

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### Aging products in middle distillates containing FAME as blend components

Dr. Klaus Lucka, TEC<sub>4</sub>Fuels

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### 15 years of UFOP project funding – presentation of selected results

Dieter Bockey, Union for the Promotion of Oil and Protein Plants (UFOP) / Prof. Dr. Jürgen Krahl, Ostwestfalen-Lippe University of Applied Sciences and Arts (TH OWL)

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### Discussion

After the presentations:

- Answering your questions from the chat

**16:30 HOURS – 17:30 HOURS**

**DIGITAL COFFEE BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS**

**17:30 HOURS** END OF CONFERENCE DAY 2

Your registration

SESSION

7

## Biomethane as a fuel: gaseous, liquid and sustainable!

9:00 – 11:00 HOURS

### Moderation:

Alexey Mozgovoy, German Biogas Association e. V.

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### Biomethane, bio-LNG, hydrogen – comparing green gases in transport

Dr. Claus Bensen, E.ON Bioerdgas GmbH

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### Decarbonization of the transport sector through bio-LNG

Jan Müller/Raoul Koenig, Shell

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### Routes to bio-LNG – evaluation of facility concepts and feedstocks

Michael Kraleman, 3N-Kompetenzzentrum, Lower Saxony

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### Climate champion, biomethane: latest technologies and innovative applications for the future

Stefan Laumann, EnviTec Biogas AG

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### Discussion

After the presentations:

- Answering your questions from the chat

**11:00 HOURS – 11:30 HOURS**

**DIGITAL COFFEE BREAK + PRESENTATION AND  
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SESSION

8

## The potential of biomass between dream and reality

11:30 – 13:30 HOURS

### Moderation:

Birger Kerckow, Agency for Renewable Resources (FNR)

### Biomass potentials of biogenic residues, by-products and wastes in Germany – what we do know and what we do not know

André Brosowski, German Biomass Research Centre (DBFZ)

### Consultation process on RED II Annex IX

Sébastien Haye, E4tech

### Latest developments in global harvests and markets

Wienke von Schenck, AMI Akademie

### Emerging trends of European biofuel feedstocks under RED II

Sophie Barthel, Argus Media

### Discussion

After the presentations:

- Answering your questions from the chat

Your registration

**13:30 HOURS – 14:30 HOURS**

**DIGITAL LUNCH BREAK + PRESENTATION AND  
EXCHANGE FROM AND WITH GOLD SPONSORS**

SESSION



## Biofuels from waste and residues

14:30 – 16:30 HOURS

### Moderation:

Detlef Evers, Waste-Based Fuels Association (MVaK)

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### National transposition of RED II and the Federal Climate Protection Act in terms of waste-based biofuels

Michael Fiedler-Panajotopoulos, Waste-Based Fuels Association (MVaK)

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### Waste-to-fuel: a case study of Europe's circular economy pioneer

Matt Stone, PRIMA Markets

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### The best for climate protection and consumers: UCO becomes UCOME

Dr. Axel Ingendoh, inaChem GmbH

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### B15 in Portugal. For a higher contribution to climate protection through road transport

Luís Manuel Ventura Serrano, Politecnico de Leiria

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### Discussion

After the presentations:

- Answering your questions from the chat

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**16:30 HOURS – 17:30 HOURS**

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**17:30 HOURS** END OF CONFERENCE DAY 3

SESSION

10

## Advanced alternative fuels – technology options and investments

9:00 – 11:00 HOURS

### Moderation:

Prof. Dr. Thomas Willner, Hamburg University of Applied Sciences (HAW Hamburg)

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### Renewable fuels and chemicals for the transport and industry sector – energy transition – an industry perspective and own developments

Dr. Armin Günther, Air Liquide Engineering & Construction

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### Advanced fuels for the existing fleet – results from the reFuels project

Prof. Dr. Nicolaus Dahmen, Institute of Catalysis Research and Technology (IKFT)

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### ReOil – the utilization of post-consumer/industrial plastics for future fuels

Wolfgang Hofer, OMV Downstream GmbH

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### Fast pyrolysis from biomass residues – a commercial update

Mark Richters, BTG Bioliquids BV

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### Discussion

After the presentations:

- Answering your questions from the chat

Your registration

**11:00 HOURS – 11:30 HOURS**

**DIGITAL COFFEE BREAK + PRESENTATION AND  
EXCHANGE FROM AND WITH GOLD SPONSORS**

SESSION

11

## Biofuels in shipping

11:30 – 13:30 HOURS

### Moderation:

Prof. Dr. Bert Buchholz, Rostock University, CIMAC Deutschland President

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### The fuel challenge in shipping – safer, smarter, greener

Dr. Fabian Kock, DNV GL - Maritime

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### The benefits of rapeseed oil as an option of alternative marine fuel

Jon Bernodusson, Subject Leader, Research & Development, Iceland Transport Authority

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### Marine fuels from pyrolysis of bio-waste and esterified with higher alcohols – the project „PyroMar“

Dr. Ulrike Schümann, Rostock University

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### IDEALFUEL – renewable maritime fuels with lignin as a feedstock

Dr. Wilfried Plum, OWI Science for Fuels gGmbH

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### Discussion

After the presentations:

- Answering your questions from the chat

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**13:30 HOURS – 14:30 HOURS**

DIGITAL LUNCH BREAK + PRESENTATION AND  
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SESSION

12

## Biofuels in aviation

14:30 – 16:30 HOURS

### Moderation:

Dr. Frank Köster, EnergieAgentur.NRW

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### Sustainable fuels made from biobased residues – FlexJet and ToSynFuel

Prof. Dr. Andreas Hornung, Fraunhofer UMSICHT

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### Sustainable aviation fuel: Approval, fuel design and climate impact reduction

Dr. Patrick Le Clercq, German Aerospace Center e.V. (DLR)

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### Green Deal and Corona: What is the way forward for climate protection in aviation?

Uta Maria Pfeiffer, German Aviation Association e.V. (BDL)

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### Sustainable aviation fuels – What? How much? When?

Siegfried Knecht, Aviation Initiative for Renewable Energy in Germany e. V. (AIREG)

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### Discussion

After the presentations:

- Answering your questions from the chat

**16:30 HOURS – 17:30 HOURS**

DIGITAL COFFEE BREAK + PRESENTATION AND  
EXCHANGE FROM AND WITH GOLD SPONSORS

**17:30 HOURS** END OF CONFERENCE DAY 4

Your registration

SESSION

13

## Biofuels in agriculture and forestry

9:00 – 11:00 HOURS

### Moderation:

Prof. Dr. Peter Pickel, John Deere GmbH & Co. KG

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### Rollout of alternatively powered tractors – potential for preventing CO<sub>2</sub> and fulfillment of energy demand till 2030

Dr. Axel Kunz, John Deere GmbH & Co. KG, Mannheim

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### Adjustment of the Bavarian state farms towards renewable fuels in the scope of the Bavarian climate protection programme

Dr. Werner Ortinger / Dr. Christoph Härle, Bavarian State Ministry of Food, Agriculture and Forestry

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### Alternative drive systems for agriculture

Dr. Edgar Remmele, Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ) / Henning Eckel, Association for Technology and Structures in Agriculture e. V. (KTBL)

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### Test rig testing of a DEUTZ NRMM engine with rapeseed oil fuel and optimisation of operating and emission performance by the design of experiments

Robert Altmann, Ostbayrische Technische Hochschule Regensburg (OTH)

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### Discussion

After the presentations:

- Answering your questions from the chat

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### 11:00 HOURS – 11:30 HOURS

DIGITAL COFFEE BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS

SESSION

14

## Biomethane international: legal framework, incentives, success stories

11:30 – 13:30 HOURS

### Moderation:

Alexey Mozgovoy, German Biogas Association e. V.

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### European legislation and incentives for biomethane

Harmen Dekker, European Biogas Association

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### Green gases as the key to decarbonisation of the transport sector

Thomas Härdtl, bmp greengas GmbH

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### Bio-LNG as a commercial fuel in the Netherlands

Karin Jansen, Rolande LNG B. V.

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### Major US market drivers: Biomethane project development

Patrick Serfass, American Biogas Council

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### Discussion

After the presentations:

- Answering your questions from the chat

Your registration

**13:30 HOURS – 14:30 HOURS**

**DIGITAL LUNCH BREAK + PRESENTATION AND EXCHANGE FROM AND WITH GOLD SPONSORS**

SESSION

15

## International biofuel trading

14:30 – 16:30 HOURS

### Moderation:

Torsten Weidemann, German Bioethanol Industry Association (BDB®)

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### The US role in the global ethanol market – now and In the future

Mike Dwyer, Agri Associates

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### Ethanol markets of the future – focus on Asia

Geraldine Gilmartin, Green Pool Commodities

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### Market outlook biofuels from waste

Jean-Lous Kindler, ways2h

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### European Green Deal's impact on EU biofuel outlook (2020 – 2050)

Cornelius Claeys, Stratas Advisors

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### Discussion

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### Conference farewell

After the presentations:

- Answering your questions from the chat

**16:30 HOURS**

**END OF CONFERENCE**



## Your possibility of a sponsor partnership

Companies and organisations who would like to market their commitment to the biofuel sector and renewable mobility to the public and target groups can support the conference as partners and present their activities at the conference.

### The presentation supports to:

- Establish business contacts
- Improve the information base and boost acceptance of your products and services
- Showcase your progressive approach and technical know-how
- Ensure public awareness of your leading market position in biofuels and renewable mobility
- Provide a far-reaching impact vis-à-vis a specialised international audience and in the trade press
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## Your Conference Participation



Further detailed information  
as well as contact persons and  
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### Participation offer



## Your Contact



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