

FUELS OF THE FUTURE



15th International Conference on renewable mobility

FUELS OF THE FUTURE 2018

22. – 23.01.2018 | Berlin

www.fuels-of-the-future.com

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MONDAY, 22/01/2018

REGISTRATION: MAIN ENTRANCE CITYCUBE/MESSEDAMM ENTRANCE

PANEL 1 – ROOM A6

Renewable mobility in Europe

10:00 – 13:00 HOURS

PANEL 2 – ROOM A6Panel discussion – perspectives for
renewable mobility up until 2030

14:00 – 15:30 HOURS

PANEL 3 – ROOM A6Future of the combustion engine:
Revolution in drive systems and fuels

16:15 – 18:30 HOURS

EVENT ROOM ON **LEVEL 1** IN THE CITYCUBE – ROOM **A6**Bioenergy evening reception at **19:00 hours** on the exhibition
grounds in Hall 4.2.

TUESDAY, 23/01/2018

PANEL 4 – PARALLEL FORUMS

- A** Biodiesel..... ROOM **M1–M3**
- B** Bioethanol..... ROOM **M4–M5**
- C** Power-to-X..... ROOM **M6–M7**
- D** Biomethane ROOM **M8**

09:00 – 11:00 HOURS

PANEL 5 – PARALLEL FORUMS

- A** Development status of alternative fuels . ROOM **M1–M3**
- B** Biofuels in shipping and aviation ROOM **M4–M5**
- C** Electromobility ROOM **M6–M7**
- D** International biomethane ROOM **M8**

11:30 – 13:30 HOURS

PANEL 6 – PARALLEL FORUMS

- A** Analysis and implementation of sustainable and renewable mobility in the transport sector in the EU by 2030..... ROOM **M1–M3**
- B** Biofuel trade ROOM **M4–M5**
- C** Biofuel in agriculture and forestry..... ROOM **M6–M7**

14:30 – 16:30 HOURS

PARALLEL FORUMS ON **LEVEL 3** IN THE CITYCUBE –
ROOMS **M1–M8**

Ladies and Gentlemen,

the Paris climate accord stipulates limiting global warming to 2°C, or possibly to 1.5°C. In order to achieve this goal, the world needs to stop the increase of greenhouse gas emissions by 2020 and reduce them by 60% by 2050 as compared to 2010. It's an ambitious goal representing a colossal challenge for the global economy. How can these goals be achieved without placing restrictions on the transport and movement of global trade and individual mobility?

Germany is already forging ahead with the 2050 climate protection plan. The Federal Ministry of Transport has also laid important foundations by pursuing an early initiative to develop a mobility and fuel strategy and organise the accompanying specialist dialogue.

The future direction of EU Member States in reducing emissions from transport will be of crucial importance. Some of the Member States as well as industry associations in Brussels and at a national level have criticised the Commission's proposal to renew the November 2016 Renewable Energy Directive: The agriculture and bioenergy sector believe that a much higher contribution to climate protection can be made in transport than is defined in the proposal by the Commission. A reliable policy at both the national and European level is required here so that investors can increase climate protection in transport under stable framework conditions and competitive conditions.

The need for greater climate protection in the transport sector has been the subject of heated debate ever since it became public that the emission values of diesel vehicles were falsified, as well as with different and also conflicting proposals being made in the 2017 federal election campaign. Such subjects have included higher energy taxes, driving bans in inner city areas, banning the combustion engine, more state support for electromobility, overhead lines for trucks and much more. Climate protection targets in transport can only be achieved, however, if an open-minded approach to technology is taken and all available options for reducing greenhouse gas emissions are exploited. This also includes the statutory regulation already introduced in Germany, which calls for the reduction of climate-damaging emissions of fuels and the replacement of fossil fuels with renewable energies.

The progressive diversification of drive technologies as well as the development and market introduction of alternative fuels is a challenge, but also the key to achieving climate protection targets in the transport sector. As a result, the development and market opportunities for new drive technologies will be a major focus of the 2018 conference agenda.

The international conference 'Fuels of the Future' is one of the most important European forums for discussing current issues revolving around our future mobility with alternative fuels and drive technologies. We look forward to the wide range of lectures on the latest technological developments and hope you have you an insightful time at the conference.

Kind regards,

Artur Auernhammer,
Member of the German Bundestag
Chairman of the Board BBE



Panel 1:

Renewable mobility in Europe

ROOM A6

Moderation: Stephan Arens, German Association for the Promotion of Oil and Protein Plants, UFOP

10:00

Biofuels for climate protection and renewable mobility
Artur Auernhammer, Member of the German Bundestag, Chairman of the Board of the German Bioenergy Association, BBE

10:20

Biofuels in the mobility and fuel strategy of the Federal Government of Germany

N.N., Federal Ministry for Transport and Digital Infrastructures (BMVI)

10:40

Biofuels in Europe until 2030 and beyond

Bas Eickhout, Member of the European Parliament

11:00

Renewable Mobility in Europe – differences on the point of view between the industry and the policy makers

Kyriakos Maniatis, Directorate-General for Energy, European Commission

11:20

The future role and requirements for biofuels and renewable mobility from the perspective of the automotive industry

Erik Jonnaert, European Automobile Manufacturers' Association (ACEA)

11:40

From multimodality to robotaxi – what do we need to transform the energy sector on the road?

Tobias Kuhnimhof, German Aerospace Center (DLR)

Panel 1:

Renewable mobility in Europe

ROOM A6

12:00

Discussion

13:00

Lunch break

Panel 2:

Panel discussion – perspectives for renewable mobility up until 2030

ROOM A6

14:00 – 15:30

Renewable mobility and perspectives until 2030

Moderation: Sonja van Renssen, energy post

- Bas Eickhout, Member of the European Parliament
- Erik Jonnaert, European Automobile Manufacturers' Association (ACEA)
- Kyriakos Maniatis, Directorate-General for Energy, European Commission
- N.N., Federal Ministry for Transport and Digital Infrastructures (BMVI)
- Marijana Petir, Member of the European Parliament
- Norbert Schindler, German Bioethanol Industry Association, (BDB^e)

15:30

Coffee break

Panel 3:

Future of the combustion engine: Revolution in drive systems and fuels

ROOM A6

Moderation: Professor (assoc.) Uwe Lahl, Head of Department in the Ministry of Transport Baden-Württemberg

16:15

Perspectives for the revolution in drive systems and fuels in the transformation of the energy sector

Professor (assoc.) Uwe Lahl, Head of Department in the Ministry of Transport Baden-Württemberg

16:35

The future of the combustion engine – future developments from a scientific viewpoint

Professor Gennadi Zikoridse, University of Applied Sciences Dresden

16:55

Pros and cons of combustion engines from the viewpoint of the WWF

Michael Schäfer, WWF Deutschland

17:15

Revolution in drive systems and fuels from the automotive industry's viewpoint

Dr Joachim Damasky, German Association of the Automotive Industry (VDA)

17:35

What is more likely to come – Biofuels or PtX-Fuels?

Dr Max Kofod, Shell Global Solutions

17:55

Discussion

18:30

End of the first conference day

19:00 Bioenergy evening reception

on the exhibition grounds in hall 4.2

(free admission for all conference participants)

Panel 4: Parallel forum A



Biodiesel research – presentation of selected planned projects

ROOM M1 – M3

Moderation: Professor Jürgen Krahle, President of the Ostwestfalen-Lippe University of Applied Sciences, Chairman of the UFOP Expert Commission 'Biofuels and renewable resources'

09:00

Use of biodiesel (B100) in agricultural machinery with the emission level EU VI

Dr Volker Wichmann, University of Rostock

09:20

Studies on the interactions between fuels and fuel-carrying vehicle components in plug-in hybrid vehicles

Simon Eiden, Oel-Wärme-Institut gGmbH

09:40

Development of an on-board sensor system for the early detection of deposit formations in biodiesel-containing fuels

Jens Staufenbiel, Technology transfer centre for automotive technology, University of Applied Sciences Coburg

10:00

Ageing process of diesel exhaust gas catalytic converters powered by biofuels (Rapid Cat Ageing)

Felix Link, University of Leipzig

10:20

Biodiesel: Past and future – elemental load of exhaust after-treatment systems and new parameters – the standard beyond

Dr Richard Wicht, German association for biodiesel quality management, AGQM

10:40

Discussion

11:00

Coffee break

Panel 4: Parallel forum B

Bioethanol



ROOM M4 – M5

Moderation: Carola Wunderlich, German Bioethanol Industry Association, BDB^e

09:00

Real emissions of a flexible fuel vehicle powered by ethanol-containing fuels

Maximilian Frankl, Technology and Support Centre Straubing (TFZ)

09:20

Production of Bio-ETBE made from bioethanol and renewable isobutene

Ronan Rocle, Global Bioenergies

09:40

Emission reduction potentials of ethanol-containing petrol fuels (E5, E10, E20) – studies on CO₂ emissions and particulate matter emissions in real driving

Professor Bernhard Geringer, Marcus Szikora, Vienna University of Technology

10:00

2G biorefineries – realisation times in Europe

Melich Dietrich Seefeldt, Novozymes AS

10:20

Discussion

11:00

Coffee break

Panel 4: Parallel forum C

Power-to-X



ROOM M6 – M7

Moderation: Dr Franziska Müller-Langer,
German Biomass Research Centre, DBFZ

09:00

Electricity-based fuels as a link between the electricity
and transport sectors

Alexander Tremel, Siemens AG

09:20

Power-to-liquids – current status and next steps

Sebastian Becker, sunfire GmbH

09:40

Technology for the production of synthetic petrol

Stephan Schmidt, Chemieanlagenbau Chemnitz GmbH

10:00

Comparison of climate impact of drive systems:
fossil fuels, bio, PtX or battery

Horst Fehrenbach, Axel Liebich, IFEU Institute for Energy
and Environmental Research Heidelberg

10:20

Renewable fuels – system comparison BtX and PtX

Karin Naumann, German Biomass Research Centre, DBFZ

10:40

Discussion

11:00

Coffee break

Panel 4: Parallel forum D

Biomethane in the transport sector in Germany

D

ROOM M8

Moderation: Dr Claudius da Costa Gomez,
German Biogas Association, FvB

09:00

Biomethane: Cornerstone for climate protection in transport?
Frank Bonaldo, Federal Ministry for Economic Affairs and
Energy (BMWi)

09:20

Potential of biomethane mobility
Johan Grope, Institute of Biogas, Waste Management
and Energy

09:40

Biomethane in Germany – status quo from a market
player's point of view
Marcel Leue, Arcanum Energy Management GmbH

10:00

Climate-neutral local traffic in Augsburg – biomethane
buses in use
Dr Walter Casazza, Stadtwerke Augsburg Holding GmbH

10:20

Discussion

11:00

Coffee break

Panel 5: Parallel forum A

Development of alternative fuels



ROOM M1 – M3

Moderation: Professor Thomas Willner,
University of Applied Sciences Hamburg

11:30

Conclusions of the final report 'Building up the future'
by the European Commission's Sub-Group on Advanced
Biofuels (SGAB)

Ingvar Landälv, Sub-Group on Advanced Biofuels (SGAB)

11:50

Challenges and opportunities of future fuels for the decar-
bonisation of the transport sector – a view of the industry

Dr Armin Günther, Air Liquide Global E&C Solutions
Germany GmbH

12:10

Importance of liquid alternative fuels for climate protection –
a ProcessNet position paper

Professor Thomas Willner, University of Applied Sciences
Hamburg

12:30

Advanced biofuels – a contribution to the energy system
transformation?!

Dr Thomas Kuchling, Andrey Awgustov, Hendrik Wollm-
erstädt, Professor Sven Kureti, Technical University of
Bergakademie Freiberg

12:50

Development and perspectives of the bioliq® process

Professor Nicolaus Dahmen, Karlsruhe Institute of
Technology (KIT)

13:10

Discussion

13:30

Lunch break

Panel 5: Parallel forum B

Biofuels in shipping and aviation

A white circular logo containing a bold, orange letter 'B'.

ROOM M4 – M5

Moderation: Lars Schulze-Beusingsen,
EnergyAgency.NRW

11:30

Road map for the introduction of biofuels into Europe's
aviation industry

Sierk de Jong, Utrecht University, The Netherlands

11:50

Economic and ecological perspectives on the performance
of alternative fuels in the aviation industry

Robert Malina, University of Hasselt, Belgium/
Massachusetts Institute of Technology, USA

12:10

Focus on sustainable biofuels in shipping

Sjors Geraedts, GoodFuels Marine, The Netherlands

12:30

Potential and challenges for drop-in biofuels in the
shipping industry

Claus Felby, University of Copenhagen, Denmark

12:50

Discussion

13:30

Lunch break

Panel 5: Parallel forum C

Electromobility



ROOM M6 – M7

Moderation: Bernhard Strohmayr,
German Renewable Energy Federation (BEE)

11:30

Electromobility as a field of action for the industry and economic policy

Birgit Hofmann, Federal Ministry for Economic Affairs and Energy (BMWi)

11:50

Integrate e-mobility across sectors

Marie-Luise Martin, Digital Energy Solutions GmbH & Co. KG

12:10

Charging infrastructure – status and experiences from the 1st year of the funding directive on charging infrastructure in Germany

Johannes Pallasch, NOW GmbH

12:30

Electromobility strategy of Volkswagen AG

Olaf Schilgen, Volkswagen AG

13:10

Discussion

13:30

Lunch break

Panel 5: Parallel forum D



Biomethane in the transport sector – an international perspective

ROOM M8

Moderation: Professor Dr Daniela Thrän,
Helmholtz centre for environmental research, UFZ

11:30

Incentives for the European biomethane market:
European Renewable Gas Registry
Attila Kovacs, European Biogas Association, EBA

11:50

Best Practice 1: Biomethane in Holland – a success story?
Pelle Schlichting, Orange Gas NL, The Netherlands

12:10

Best Practice 2: Cross-border trade with biomethane –
experiences and outlook
Zoltan Elek, Landwärme GmbH

12:30

Gas for Climate – The role of gas in a low carbon economy
Daan Peters, Ecofys – a Navigant Company

12:50

Global mobility with biomethane:
an international perspective
Frank Hofmann, German Biogas Association, FvB

13:10

Discussion

13:30

Lunch break

Panel 6: Parallel forum A



Analysis and implementation of sustainable and renewable mobility in the transport sector in the EU by 2030

ROOM M1 – M3

Moderation: Elmar Baumann,
Association of the German Biofuels Industry (VDB)

14:30

Analysis of the potential economic effects of change towards electromobility

Dr Patrick Plötz, the Fraunhofer Institute for System and Innovation Research (ISI)

14:50

ARAL Study – 2017 vehicle sales trends – is the change only taking place in the mind or at the dealership too?

Dr Ruprecht Brandis, BP Europa SE

15:10

Sustainable and renewable mobility:

Point of view of the industry

N.N., Neste

15:30

Implementation of the Renewable Energy and Fuel Quality Directives in the UK

Verena Leckebusch, Department for Transport,
United Kingdom

15:50

Innovative fuel options for the technology-oriented design of the mobility of tomorrow

Alexander Holle, EnergyAgency.NRW

16:10

Discussion

16:30

End of conference

Panel 6: Parallel forum B

Bioenergy and fuel trade

B

ROOM M4 – M5

Moderation: Dietrich Klein,
German Bioethanol Industry Association, BDB^e

14:30

10 year outlook of global biofuel markets and agricultural feedstocks

Marcel Adenäuer, Organisation for Economic Co-operation and Development (OECD)

14:50

IEA outlook: Development of conventional and advanced biofuels in the world market

Pharoah Le Feuvre, International Energy Agency (IEA)

15:10

Global biofuel trade: Intercontinental trade flows

Christine Ancker, Argus Media

15:30

Biofuel trade and the shift to an international low carbon fuel economy

Matthew Stone, PRIMA

15:50

Sustainability certification post 2020 – changes and challenges

Peter Jürgens, REDcert GmbH

16:10

Discussion

16:30

End of conference

Panel 6: Parallel forum C

Biofuels in agriculture and forestry



ROOM M6 – M7

Moderation: Dr Edgar Remmele,
Technology and Support Centre Straubing (TFZ)

14:30

Exhaust after-treatment and operational safety of plant oil-powered agricultural technology
Johannes Ettl, Technology and Support Centre Straubing (TFZ)

14:50

First experiences with the use of biomethane in tractors
Klaus Senghaas, CNH Industrial Deutschland GmbH

15:10

Injection behaviour of modern common-rail injection systems powered by vegetable oil fuels
Robert Altmann M.Sc., Alexander Koder M.Sc.,
Professor Hans-Peter Rabl, East Bavarian Technical University, OTH Regensburg

15:30

The oat principle for agricultural machinery
Christoph Hänel, Agricultural cooperative Bergland Clausnitz

15:50

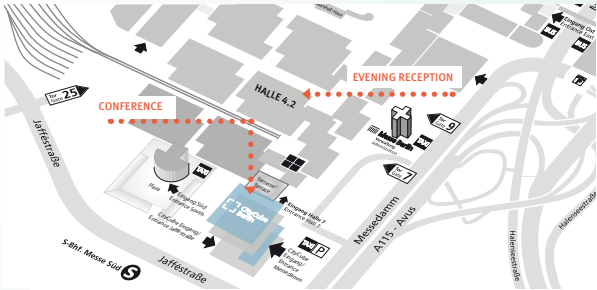
Discussion

16:30

End of conference

Venue location

CityCube Berlin
 Messedamm 22
 14055 Berlin
 Tel.: +49(0)30 3038-0
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It is also possible to leave luggage for a fee in the cloakroom on the event grounds.

How to get to CityCube Berlin:

Berlin Central Rail Station, Zoologischer Garten or Charlottenburg
 S-Bahn 5 – heading towards Spandau – stop Messe Süd
 S-Bahn 7 – heading towards Potsdam rail station – stop Westkreuz
 S-Bahn 75 – heading towards Westkreuz – stop Westkreuz

Rail station Berlin Spandau

S-Bahn 5 to stop Messe Süd

Inner-city

S-Bahns and U2 – heading towards Ruhleben – stop Kaiserdamm

Airport Berlin Tegel

Bus X9 or Bus 109 – heading towards Zoologischer Garten – stop S-Jungfernheide. Then change to S-Bahn 42 – heading towards Westend – stop Messe Nord/ICC

Airport Berlin Schönefeld

RB (regional rail) – heading towards Nauen or RE (regional express) – heading towards Dessau – stop Charlottenburg rail station (continue with S-Bahn to Westkreuz)

Arriving by car

Guidance system “Messegelände” at the A 10-turn off (Berliner Ring) “Nuthetal”, “Oranienburg”, “Schönefelder Kreuz” and “Pankow” leading directly to the city motorways A 111, A 115 and A 100 to the intersection “Funkturn” – exit “Messegelände” – multi-storey car park situated directly at the CityCube.

Accompanying exhibition

Companies and associations successfully involved in the renewable mobility sector or which plan to enter the market have the opportunity to present themselves to the specialist public with an information stand thanks to the Congress. The Trade Congress has become firmly established over the years and is regarded as pioneering for European development. Exhibitors can advertise their products and services in the foyer and find their target group at this “market place”. Gold and silver partners also have the opportunity to present themselves in the conference folder and media (website, sponsor board, break screen etc.) with the company logo as a partner to the Trade Congress. Please contact the conference office via phone +49(0)228 8100222 or Email hartmann@bioenergie.de.

Hotel recommendations

We have reserved a limited number of rooms in hotels of various categories for this event. The keyword for the booking is “Fuels of the Future”

Lindner Hotel Am Ku'damm

Kurfürstendamm 24
10719 Berlin

Tel.: +49(0)30 8182 51 12 5
www.lindner.de

Single room business € 119.00
Double room business € 158.00
(Breakfast included)

Available until 25.12.2017

art'otel berlin kudamm

Lietzenburger Str. 85
10719 Berlin

Tel.: +49(0)30 4005 57 70 0
www.artotels.com

Art Room Single € 99.00
Art Room Double € 109.00
(Breakfast included)

Available until 25.12.2017

Hotel Ibis Berlin Messe

Messedamm 10
14057 Berlin

Tel.: +49(0)30 3039 30
www.ibishotel.com

Single room standard € 130.00
Double room standard € 161.00
(Breakfast included)

Available until 25.12.2017

Ringhotel Seehof Berlin

Lietzensee-Ufer 11
14057 Berlin

Tel.: +49(0)30 3200 21 54
www.hotel-seehof-berlin.de

Single Room – early bird € 122.80
Double Room – early bird € 150.40
(Breakfast included)

Available until 23.12.2017

Should you have any further questions regarding these room allotments or have any other requests about room reservations, please contact TopSelect GmbH: Tel.: +49(0)89 628346-30

Organisation

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Participation fee

The participation fee for the Trade Congress “Fuels of the Future 2018” is (including break drinks, lunch buffet, evening event and presentations on a USB stick):

€ 690.00	early booker rate until 30.11.2017
€ 890.00	normal rate from 01.12.2017
€ 490.00	for members of the BBE, UFOP, VDB, BDB ^e and Fachverband Biogas
€ 190.00	for students (with valid identification of study)
Free	Press (with valid press identification)

All prices plus statutory value added tax.

Registration

Please register with enclosed card or online at:
www.fuels-of-the-future.com

You will receive an invoice as a binding participation confirmation. Please transfer the invoice amount after billing with indication of the invoice number. By transferring the amount, you will be automatically registered to attend.

Cancellation

A processing fee of € 50.00 euros will be charged if you cancel your participation by 17.01.2018 (only in writing). If you cancel after the 18.01.2018 the full participation amount is due. Please give your full name, address and invoice number in case of a cancellation. Alternatively, you can appoint a substitute participant without additional costs.

Note

Simultaneous interpreting German-English is offered. The presentations are available for downloading in English or German after the Congress from the 29.01.2018 on **www.fuels-of-the-future.com** for Congress participants. The organiser reserves the right to make programme changes for an urgent reason.

Extract of topics:

Framework conditions for the renewable mobility of the future

The role of biofuels within climate protection and the development of renewable mobility. Mobility and fuel strategy of the Federal Government of Germany. What perspectives does EU policy offer renewable mobility up until 2030 and beyond? Renewable mobility in Europe – differences in the perceptions of political decision-makers and the industry. From multimodality to robotaxi – what do we need to transform the energy sector on the road?

Future of combustion engines: Revolution in drive systems and fuels

What are the development prospects for a drive and fuel revolution in the energy sector? What are the prospects for science, the automotive industry and civil society?

Market-established biofuels

Biodiesel, bioethanol, vegetable oils – what market developments are to watch? What technological optimisations can we expect? Presentation of various research project results in the field of biodiesel. Emission reduction potentials of ethanol-containing petrol fuels. Outlook on trade and market development and the availability of raw materials for biofuels.

Electromobility

Future of electromobility: Electric drives combined with internal combustion engines or pure electric drives? What is the state of the infrastructure expansion for nationwide deployment of electromobility?

Biomethane and power-to-X

What are the opportunities and obstacles for biofuels made from biomethane? What are the synergies between power-to-gas and biomethane production? How has biomethane developed compared to international standards? Comparison of climate impact of drive systems: fossil fuels, bio, PtX or battery.

New biofuels

What are the prospects of producing biofuel by recycling carbon? What are the technical challenges of recycling waste into biofuels? Importance of liquid alternative fuels for climate protection and the evolution of the market.

Parallel forums

Over the course of a two-day conference, market developments, current research results and practical experience experiences with market-proven and new biofuels will be presented in 13 forums and a panel discussion. Once again, we are expecting more than 500 international participants.