
THE EUROPEAN

E-FUELS

CONFERENCE

6-7 NOVEMBER 2019 // MUNICH, GERMANY

KEY TOPICS

- E-Fuels Market Overview
- Exploring the E-fuel Industry Response to Policy & Regulations in This Sector
- E-Fuels as a Positive Disruptor for the Automotive and Trucking Transportation Sector
- Latest Technological Innovation Advances in the Industry
- Assessing the Potential of E-Fuels for the Maritime Industry
- The Challenge of E-Fuel Production Costs
- Sustainable Electricity Logistics for the Creation of E-Fuels
- Successful E-Fuel Plant Case Study
- The Importance of CO₂ Sourcing and Usage in the E-Fuel Production Process
- Evaluating the Potential of E-Fuels for Aviation

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The European E-Fuels Conference

6th & 7th
November
2019

Munich, Germany

Europe has set itself goals to ensure a sustainable future and stop global warming. Part of this is using renewable energy to create carbon negative fuels for a variety of industries, such as automotive and aviation.

The European E-Fuels Conference will discuss required policies and regulations for the e-fuels industry, analysis of the market, how e-fuels can help meet climate change demands as well as the latest technology developments for the creation of e-fuels.

The conference will bring together distinct and influential stakeholders from the value chain to discuss the latest challenges and developments making an impact on the industry.

Join us in Munich, Germany for two days of exchanging perspectives, learning and excellent networking opportunities with your peers.



Who Will Be Attending?

- ◆ Technical, Strategic & Business Development Executives from E-fuel Producers
- ◆ Oil Refiners
- ◆ Chemical Companies
- ◆ Process Technology Providers
- ◆ Policy & Regulatory bodies
- ◆ Automotive & Aviation Industries
- ◆ Consultants & Investors

Speaking Opportunities

If you would like to be considered as a speaker, for a 20-30mins presentation, at the event please submit an abstract for consideration to:

Justine Matthys

+44 20 3141 062

jmatthys@acieu.net

Opportunities to Meet your Target Audience



Showcase your technologies to the industry, with opportunities to demonstrate the capabilities of your latest products and services.

Companies can gain direct access to our senior level audience and have an increased level of visibility and exposure through branding and networking at the conference. This will allow you to attract new business and forge lasting commercial relationships.

For information on available commercial opportunities, please contact:

Karol Lewicki

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Registration Is Simple

If you would like to register for this event or wish to find out more information, please contact:

Marcin Janecki

+48 (0) 61 646 7047

mjanecki@acieu.net

DAY 1

Wednesday 6th November 2019

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**



Dr. Carola Kantz
Deputy Managing Director
VDMA P2X4A

09:15 **SESSION ONE**
E-Fuels Market Overview: Key Developments & Perspectives

NBC Progressing Strongly Towards Successful Construction of the First Commercial E-Fuel Plant

- In search of the best processes & most cost efficient production
- Solid fast track construction
- E-Fuels looking to be an attractive market going forward



Gunnar Holen
CEO
Nordic Blue Crude AS

Refinery 2050 Case: Opportunities and Challenges for E-Fuels Integration

- E-fuel integration in refineries: opportunities and challenges
- E-fuels production costs: import vs. domestic production
- Policy proposal towards the initial introduction of e-fuels into the market



Daniel Leuckx
Policy Executive
Fuels Europe



Alba Soler
Research Executive
Concawe

10:30 **PANEL DISCUSSION**
Exploring the E-fuel Industry Response to Policy & Regulations

- Evaluating and discussing the impact of the RED II
- Exploring a level playing field in the regulations and policy for the production and costs of biofuels and e-fuels
- The need for an aligned and defined roadmap for the market development of e-fuels

Bernd Kuepker
Policy Officer, Renewables and CCS
Policy
European Commission



Dr. Theodor Goumas
CEO
Exergia S.A.



Stefan Siegemund
Head of Division Renewable
Energies & Mobility
German Energy Agency (dena)

11:15 **MORNING REFRESHMENTS**

11:45 **SESSION TWO**
The Challenge of E-Fuel Production Costs

The Future Cost of Electricity-Based Synthetic Fuels

- E-Fuel production: make at home or buy from abroad?
- Incentivising e-fuel production through dedicated policy support
- Sharing technology learning cost



Dr. Matthias Deutsch
Project Manager
Agora Energiewende

Production Costs of E-Fuels - a 2050 Outlook

- How can the issues of high production costs be solved by producing e-fuels in countries with a potential for competitive green power
- Potential locations (technical challenges and cost estimates)
- Production costs in light of current and potential future regulatory environments
- Benefits for European and domestic climate goals



Prof. Christian Küchen
General Director
German Petrol Industry Association

The Business Model to start now: Norsk e-Fuel

- Balanced technology mix including Co-Electrolysis, Electrolysis, Reverse Water-Gas Shift and DAC
- Industrial system integration with performance warranty
- Norwegian-European partnership
- Integration of key technology, EPC, local competence, refining, finance and government

Carl Berninghausen
Founder & CEO
Sunfire



13:35 LUNCH

14:35 SESSION THREE

E-Fuels as a Positive Disruptor for the Automotive and Trucking Transportation Sector

Volvo Trucks - Sustainable Transport with Renewable Fuels

- Meeting future CO2 legislation with increasing demand of transport
- Reducing the use of fossil fuels
- Alternative fuels at Volvo



Monica Johansson
Principal Fuel & Energy Analyst
Volvo Group

Sustainable Mobility: Future Powertrain & E-fuels

- Set the scene for transport 2030
- Toyota 2050 environmental challenge for sustainable mobility
- Challenges for sustainable mobility
- Toyota future vision to address sustainable mobility including low carbon fuels



Dorothee Lahaussois
Technology trends Analysis Manager
Fuels & Energy
Toyota Motor Europe Technical Centre

15:50 AFTERNOON REFRESHMENTS

16:20 SESSION FOUR

Latest Technological Innovation Advances in the Industry

In Focus: The Current Status of the Electrolysis Industry

- Market transformation
- Technology transformation
- Lessons learned and future challenges

Arnaud de Lhoneux
Regional Business
Development Manager
Hydrogenics



Swedish Hydrogen Development Center and Associated Projects

- Development of a new Swedish knowledge and test bed platform for large-scale electrolysis and hydrogen applications in the industry

- Overcoming challenges in commercializing electrolysis technologies and renewable hydrogen applications & the value of neutral evaluation and demonstration on a larger scale
- Integration of electro-fuel processes in the Swedish pulp and paper industry - potential estimations, case studies & profitability assessments



Anna-Karin Jannasch
Industrial Transformation Senior
Researcher
RISE Research Institutes of Sweden

17:35 CONFERENCE PRESENTATION

Assessing the Potential of E-Fuels for the Maritime Industry

E-Fuels for Shipping: Challenges and Opportunities

- Describing marine e-fuel alternatives and production cost estimates
- Comparing e-fuels with other future alternative marine fuels
- Presenting future cost-effective fuel mix for the shipping sector and the potential role of e-fuels
- Under what circumstances (electricity price, electrolyzer investment cost etc) would marine e-fuels be cost-competitive?



Maria Grahn
Director of Energy
Chalmers University of Technology

18:20 CLOSE OF DAY ONE

DAY 2

Thursday 7th November 2019

08:30 REGISTRATION & COFFEE

09:00 CHAIRMAN'S OPENING REMARKS



Dr. Carola Kantz
Deputy Managing Director
VDMA P2X4A

09:05 SESSION FIVE

Sustainable Electricity Logistics for the Creation of E-Fuels

The Project HySynGas: Production of SNG with Green Electricity

- Green SNG - why is this an option?
- Technical and economical concepts of the project HySynGas
- What is needed for market roll-out



Dr. Oliver Weinmann
Managing Director
Vattenfall Europe Innovation GmbH

In 2030 Electricity in Denmark will be Almost 100% Based on Renewables

- Carbon capture from biogas and flue gas
- Production of bio-methane, bio-methanol and bio-crude oil by PtX
- Utilization of all excess energies in the system to reduce costs



Erik C. Wormslev
Director Innovation
NIRAS

Landmarks for Navigating the Cliffs of E-fuel Sustainability

- E-fuels' sustainability performance can be outstanding, but needs to be safeguarded
- Renewable electricity and ways to prove it
- The different shades of green (grey and black) of CO2 point sources
- Water use in a vulnerable world



Patrick Schmidt
Sustainable Energy & Transport
Ludwig-Bolkow-Systemtechnik GmbH

10:55 MORNING REFRESHMENTS

11:25 CONFERENCE PRESENTATION E-gas Plant Case Study: Decarbonization of the Transport Sector

- Introduction to Audi e-fuels
- Life cycle analysis for different vehicle types
- Key figures of the e-gas plant
- Experiences in operation
- Upgrade projects and new e-fuels



Tolga Akertek
Plant Manager, Audi e-gas plant
AUDI AG

12:10 CONFERENCE PRESENTATION Enhance the Production of E-Fuels Thanks to Green Hydrogen: An Overview of ENGIE Lab CRIGEN Activities

- Leverage green hydrogen versatility for the conversion of CO2
- Different fuels considered
- Assessment of different synthesis routes from process engineering and techno-economic assessment perspectives
- C2FUEL: A demonstration project from industrial CO2 to the production of fuels to be tested in real engines



Pierre Olivier
Research Engineer (PhD)
ENGIE Lab CRIGEN

12:45 CONFERENCE PRESENTATION Power-to-Methanol in Small-Scale Application

- Acceptance in maritime and road vehicle sectors
- Technique of the Power-based fuel production
- Markets, existing and future



Christian Schweitzer
Managing Director
bse Engineering Leipzig GmbH

13:25 LUNCH

SESSION SEVEN Evaluating the Potential of E-Fuels for Aviation

14:25 Electrofuels for Aviation: How to Deliver

- Electrofuels are the most promising mitigation for option given growing demand & lack of alternative strategies such as electrification
- Important safeguards needed to ensure that such fuels deliver the promised mitigation options, safeguards which are not yet in place
- Electrofuels will remain more expensive than jet fuel for the foreseeable future, meaning uptake is unlikely without strong government action - either at national or EU level
- Such action must be a priority for the new Commission



Andrew Murphy
Manager, Aviation
Transport & Environment

14:50 Flightpath 2050: Meeting Aviation's Climate Targets with Powerfuels

- Powerfuels enable sustainable production of renewable jet fuel at large scale
- Production costs need to be cut by industrial projects
- Proper sustainable assessments are a key element to justify the scaling of PtL fuels
- The production of clean fuels offers additional advantages regarding air quality and climate impact



Valentin Batteiger
Lead Alternative Fuels
Bauhaus Luftfahrt

15:15

The Opportunity of Using E-Fuels in the Aviation Industry

- The options to decarbonize the aviation industry are very limited, SAF is the only real option to decarbonize the sector in the short to medium term
- SkyNRG is working on multiple pilots, with partners, to showcase SAF production by using CCU/E-Fuel pathways
- SkyNRG aims to build future commercial plants on E-Fuel technology, through its Direct Supply Line (DSL) structure



Oskar Meijerink
Business Development Manager
SkyNRG

15:40

PANEL Q&A

16:00

CHAIRMAN'S CLOSING REMARKS



Dr. Carola Kantz
Deputy Managing Director
VDMA P2X4A

16:05

END OF CONFERENCE & AFTERNOON REFRESHMENTS

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+48 (0)61 646 7047

mjanecki@acieu.net

<http://www.acius.net>

Postal Address:
10 Gough Square, London, EC4A 3DE

Registration Is Simple

Conference (Includes Documentation Packet)
20th & 21st January 2016

£1,695
(Excl. VAT)

Documentation Packet Only

£470.00

Please Note.

Members and customers of all supporting organisations are entitled to a discount off their conference package.

For more information please call +48 (0)61 646 7047

Documentation Packet Available

We are selling The European E-Fuels Conference papers at just £440 (+£30 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

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