

#P2X4A: From production to application
The yearly international conference on P2X
12./13.10. 2021, Frankfurt a. M.



Working Group
Power-to-X
for Applications

A working group within

A photograph of a man in a dark suit standing at a podium, gesturing with his right hand towards a large audience seated in a conference hall. There are laptops on the podium and a large screen in the background.



Power-to-X for Applications

#P2X4A: From production to application
International P2X Conference

12./13. October 2021

Hydrogen and P2X are in the spotlight as key components of the energy transition and sector integration. Now it is about building and scaling-up applications, and consistently exploiting opportunities. For this, the P2X community now has a high-profile, international presence forum for information, exchange and cooperation, the annual conference #P2X4A: From Production to Application. Venue is the Crowne Plaza Frankfurt.

Day 1 #P2X4A: Focus on production

12.10.2021, moderated by Sebastian Hillebrand, Oliver Wyman

10:30 Welcome and introduction

- » Dr. Uwe Lauber, Chairman, VDMA WG P2X4A
- » Hartmut Rauen, Deputy Executive Director, VDMA
- » Peter Müller-Baum, Managing Director, VDMA WG P2X4A

Keynote

- » Keynote on electrolysis by Prof. Dr. Armin Schnettler, Executive Vice President New Energy Business, Siemens Energy

Plenary session: Production of synthetic hydrocarbons

- » Presentation on e-methane by Dr. Uwe Lauber, CEO, MAN Energy Solutions
- » Presentation on eFuel technology by Nils Aldag, CEO, Sunfire

12:30 Lunch & networking

13:30 Expert sessions

Experts and expert topics in 2 different rooms in parallel

Room 1	Room 2
Peter Gschwend, Danfoss, P2X plants for grid balancing services	Alba Soler Estrella, concawe & Victor Gordillo, Aramco, eFuels
Jens Wulff, Neuman & Esser, Optimization of an Integrated H ₂ Generation, Storage and Distribution System	Dr. Rüdiger Schwarz, EDL Poerner, Industrial Production of Sustainable Aviation Fuel
Dr. Wolfgang Schleifenbaum, Bosch, Hydrogen technologies and robust water purification as an enabler	Dr.-Ing Tim Böltken, INERATEC, CO ₂ -neutral-sustainable eFuels & e- products - fuel distribution and quality in the power-to-liquid process

15:00 Speed networking and coffee break

Meet other experts, exchange business cards, have a coffee

15:30 Speed talk session

- » 4 x 5 minutes of speed talk on P2X solutions

16:00 P2X production project examples

- » Presentation on NorthH2, a green hydrogen centre for north-western Europe, by Jens Müller-Belau, Deutsche Shell Holding
- » Presentation on NEOM in Saudi-Arabia, green fuels and hydrogen, by Dr. Alexander Stubinitzky, Director Business Development Green Fuels & Hydrogen, NEOM Riad

17:00 Wrap-up

- » Peter Müller-Baum and Sebastian Hillebrand
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19:00 Get together

*The get together will also take place in the Crowne Plaza Frankfurt.
It is part of the congress package and meant as a networking event.*

Day 2 #P2X4A: Focus on application

13.10.2021, moderated by Sebastian Hillebrand, Oliver Wyman

9:00 Welcome

- » Peter Müller-Baum and Sebastian Hillebrand

Plenary session: Transport and application of hydrogen and eFuels

- » Presentation on hydrogen transport pipelines by Dr. Daniel Bick, Open Grid Europe
- » Presentation on applications in steel production by ThyssenKrupp - tbc
- » Presentation on P2X applications in the aviation sector by Jan Pechstein, Lufthansa Group

10:45 Meet & greet zones and coffee break

Meet other experts, connect & network, have a coffee

11:30 Focus on P2X safety matters

- » Looking at safety engineering issues by N.N.,
Bundesanstalt für Materialforschung und -prüfung

12:00 Expert sessions

Experts and expert topics in 2 different rooms in parallel

Room 1 Gaseous molecules	Room 2 Liquid / liquified molecules
Dr. Markus K. Becker, Voith Turbo, efficient pipeline transport	N.N., Linde, liquid hydrogen transport - tbc
Stephan Laiminger, INNIO Jenbacher, hydrogen internal combustion engine	Niko Schües, Reederei Laeisz, ammonia carriers & ammonia engines
Alexander Dauensteiner, Viessmann, hydrogen ready boilers & fuel cells	Siegfried Knecht, Airbus, hydrogen for fossil-free, sustainable aviation

13:30 Lunch & networking

14:30 Project examples session

- » Tommi Rintamäki, Wärtsilä (Power-to-gas project)
- » Karl Dums, Porsche (eFuels)
- » Dr. Georg Böttner, Hamburger Hafen und Logistik Aktiengesellschaft

15:30 Outlook

The future of P2X – what can we expect?

- » Future value pools in the H2 economy / opportunities for industrial equipment manufacturers, Dr. Daniel Kronenwett, Oliver Wyman
- » Prof. Dr.-Ing. habil. Roland Dittmeyer, Karlsruhe Institute of Technology

16:30 Wrap-up and conclusion of the event

- » Peter Müller-Baum and Sebastian Hillebrand