



Green Hydrogen Innovation Congress 2022

Regional innovators as trailblazers
for a European green hydrogen economy

Wednesday, 2nd November 2022
Congress Center Leipzig



Programme

Welcome



Martin Dulig

- Since 2018: SPD's Commissioner for Eastern German Affairs
- Since 2014: Saxon State Minister for Economic Affairs, Labour and Transport
- Since 2014: Deputy Prime Minister of the Free State of Saxony
- 2009 – 2021: Chairman of the SPD Saxony
- 2007 – 2014: SPD group chairman in the Saxon State Parliament
- Since 2004: Member of the Saxon State Parliament

Seize the Momentum Today!

The Free State of Saxony aims to play a leading role in the pioneering field of green hydrogen, as both a supplier and user of technology. If we are to succeed in this endeavor, it is crucial to bring together those who operate in this field at an early stage and look beyond regional borders. Our very first "Green Hydrogen Innovation Congress" provides the impetus we need to do this. Alongside even closer collaboration with European countries and regions, namely the Czech Republic, Flanders (Belgium), and North Brabant (the Netherlands), the Saxon State Ministry of Economic Affairs is providing participating companies, research and public institutions, networks, and associations with a platform to exchange ideas and experience and share expertise and technology.

This year I have traveled to Flanders, Scotland, and Canada, and I have also been in discussions with our neighbors, the Czech Republic and Poland. These meetings have shown that there is great interest in Saxony's expertise in hydrogen. We now need to seize this momentum and leverage Saxony's know-how to help transform the European economy. The opportunities for creating new jobs and ensuring a clean, safe, and affordable supply of energy are enormous, particularly if we look at things on a European level and move forward together.

I hope the congress is a fruitful and informative experience for everyone and wish you all every success!

Yours

Martin Dulig

Saxon State Minister of Economic Affairs,
Labour and Transport



The Saxon metropolis of Leipzig welcomes the participants of the Green Hydrogen Innovation Congress 2022 on 2 November.

One day. 400 participants. The full focus on green hydrogen.

Welcome to the first international "Green Hydrogen Innovation Congress 2022 – Regional innovators as trailblazers for a European green hydrogen economy". The hybrid expert and networking event is hosted by the Saxon State Ministry of Economic Affairs, Labour and Transport (SMWA) and aims at the professional exchange and supra-regional cooperation of industry, trade, transport, science and society in the fast-evolving field of "green hydrogen". Innovative solutions and best practices from Saxony and European guest regions will be presented to an international audience and their transferability will be jointly discussed in order to enable a rapid market ramp-up and thus support the decarbonisation efforts in all sectors. In this way, the congress contributes to strengthening regional cooperation for a competitive Europe of the future.

Agenda

08:30

Registration and coffee

09:30

Official opening

- Martin Dulig, Saxon State Minister of Economic Affairs, Labour and Transport

09:45

Welcome address: Green hydrogen as national energy strategy

- Carsten Schneider, Minister of State for East Germany and Equivalent Living Conditions, Berlin

09:50

Keynote: Building a market for green hydrogen – Where do businesses benefit?

- Andreas Rupieper, Managing Director, ITM Linde Electrolysis GmbH, Dresden

10:00

Panel discussion: The common European mission – How to establish green hydrogen as a key technology for a climate-neutral economy?

- Bart Biebuyck, Executive Director, Clean Hydrogen Joint Undertaking, Brussels
- Dr. Gerd Lippold, State Secretary, Saxon State Ministry for Energy, Climate Protection, Environment and Agriculture, Dresden

- Frank Mehlow, Head of Strategic Business Development, Lausitz Energie Kraftwerke AG (LEAG), Cottbus
- Andreas Rupieper, Managing Director, ITM Linde Electrolysis GmbH, Dresden
- Veronika Vohlídková, Director, Legislation and Strategy, Member of the Board, Czech Hydrogen Technology Platform (HYTEP)

10:50

Coffee break

11:20

Regional forum: How can supra-regional cooperation best support the implementation of regional green hydrogen strategies?

- Martin Dulig, Saxon State Minister of Economic Affairs, Labour and Transport
- Jan Jambon, Minister-President of the Government of Flanders, Flemish Minister for Foreign Policy, Culture, Digitization and Facilities
- Petr Mervart, Plenipotentiary of the Minister of Industry and Trade for Hydrogen Strategy, Czech Republic
- Anne-Marie Spierings, Minister for Energy, Circular Economy and Environment, North Brabant

12:00

Study presentation: New value creation potential arising from hydrogen – An overview of Saxon actors, hydrogen technologies and job opportunities

- Prof. Dr. Thomas von Unwerth, Head of the Department of Advanced Powertrains, Chemnitz University of Technology

12:15

Tour de Saxe: Best practice examples and innovative green hydrogen solutions

- Region Leipzig:
 - Christoph Friedrich, Group Development; Dr. Olga Naumov, Senior Manager for Technology Projects, Leipziger Group
 - Paul Bruns, Business Development Manager Hydrogen, FAUN Viatic GmbH/ENGINIUS, Grimma
- Region Chemnitz/Plauen/Zwickau:
 - Kevin Günther, Sales Manager PtX, Chemieanlagenbau Chemnitz GmbH (CAC)
- Region Meißen/Dresden:
 - Dr. Jutta Matreux, Site Manager, Wacker Chemie AG, Nünchritz
 - Bernd Fischer, Head of Project Management new rolling mill, ESF Elbe-Stahlwerke Feralpi GmbH, Riesa
- Region Lausitz:
 - Frank Mehlow, Head of Strategic Business Development, Lausitz Energie Kraftwerke AG (LEAG), Cottbus
 - Dr. Sebastian Schmidt, Project Coordinator, Hydrogen Lab Görlitz

13:00

Lunch

14:00

Live demonstration: Green hydrogen in different markets – Challenges and solutions

- Car manufacturing in Germany
 - Dr. Stefan Fenchel, Project Manager of the "Green Plant", BMW Group, Leipzig
- Microgrids in South Africa
 - Dr. Ulrike Beyer, Head of TaskForce Hydrogen@IWU; Esther Ascheri, Project Team Member Hydrogen Tryout Areal, Fraunhofer Institute for Machine Tools and Forming Technology IWU, Chemnitz
 - Prof. Dr.-Ing. Markus Michael, CEO; Dr.-Ing. Franziska Lehmann, Head of Project Management and Controlling, Texulting GmbH, Chemnitz

14:30

Transition to parallel sessions

14:45

Parallel sessions

- Session 1 – Generation
 - Moderation: Dr. Frances Zedler, CEO, Energy Saxony e.V., Dresden
 - Emilio Manrique Ambriz, Business Development Manager, Holst Centre, Eindhoven
 - Dr. Nigel Holmes, CEO, Scottish Hydrogen and Fuel Cell Association
 - Herrn Michael Kluge, Senior Director Aviation Affairs, European Air Transport Leipzig GmbH
 - Adwin Martens, Managing Director, WaterstofNet, Belgium/Netherlands
 - Katja Mattner, Head of Grants & Subsidies, Sunfire GmbH, Dresden
 - Dr. Rüdiger Schwarz, Head of Strategic Communications PtX Projects, EDL Anlagenbau GmbH, Leipzig

• Session 2 – Infrastructure

Moderation: Gert Müller-Syring, CEO, DBI Gas- und Umwelttechnik GmbH, Leipzig

- Dr. Jörg Dickert, Assetmanagement, SachsenNetze GmbH, Dresden
- Thomas Holstein, Corporate Development, ONTRAS Gastransport GmbH, Leipzig
- Dipl.-Ing Dirk Hünlich, Head of Process Management/Support, Mitteldeutsche Netzgesellschaft Strom mbH, Kabelsketal/Saxony-Anhalt
- Dr. Lukáš Janura, Department of Economic Analysis, Czech Ministry of Industry and Trade
- Gérard Kimus, Managing Director Fluxys Deutschland GmbH and Fluxys TENP GmbH, Düsseldorf
- Dr. Olga Naumov, Senior Manager for Technology Projects, Leipziger Group

• Session 3 – Mobility & Logistics

Moderation: Prof. Dr. Thomas von Unwerth, Head of the Department of Advanced Powertrains, Chemnitz University of Technology

- Markus Kordel, Project Leader, Institute of Vehicle Concepts; Alexander Wimmer, Research Associate, Institute of Engineering Thermodynamics, German Aerospace Center (DLR), Stuttgart
- Frank Röbler, CEO, MoviaTec GmbH, Leipzig
- Hartmut Schimmel, Manager Chassis Development, FES GmbH Fahrzeug-Entwicklung Sachsen, Zwickau
- Prof. Dr. Thomas von Unwerth, Steering Group, Hydrogen Innovation Center, Chemnitz

15:45

Coffee break

16:15

Trade session: How to kick-start the global trade of green hydrogen?

- Timo Bollerhey, CEO, HINT.CO, Leipzig Managing Director, H2Global Advisory GmbH, Hamburg
- Dr. Christine Falken-Grosser, Head of Division for Bilateral Energy Cooperation, Federal Ministry for Economic Affairs and Climate Action, Berlin
- Daniel Wragge, Director Political and Regulatory Affairs, European Energy Exchange AG, Leipzig

17:00

Panel discussion: What are the future prospects for green hydrogen technologies?

- Dr. Mark Boneschanscher, Managing Director, Eindhoven Institute for Renewable Energy Systems (EIRES)
- Dr. Luigi Crema, Member of the Board, Hydrogen Europe Research, Brussels Director, Centre Sustainable Energy, Fondazione Bruno Kessler (FBK)
- Werner Diwald, Chairman, German Hydrogen and Fuel-Cell Association (DWW), Berlin
- Stephan Garabet, CFO, Sunfire GmbH, Dresden
- Prof. Dr. Mario Ragwitz, Director, Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG, Cottbus

17:45

Wrap up and farewell

18:00

Standing reception and networking

19:00

End of congress

Parallel exhibition

08:30–19:00

Exhibitors

- AMBARTec AG
- BMW AG, Plant Leipzig
- Chemieanlagenbau Chemnitz GmbH (CAC)
- FAUN Viatic GmbH/ENGINIUS
- FES GmbH Fahrzeug-Entwicklung Sachsen
- Fraunhofer Center for International Management and Knowledge Economy IMW
- Fraunhofer Institute for Electronic Nano Systems ENAS
- Fraunhofer Institute for Machine Tools and Forming Technology IWU
- German Aerospace Center (DLR), Institute of Vehicle Concepts, Institute of Engineering Thermodynamics
- Günsel Fördertechnik und Fahrzeugbau GmbH
- Helmholtz-Zentrum Dresden-Rossendorf e.V.
- HYPOS – Hydrogen Power Storage & Solutions East Germany e.V.
- ICM – Institut Chemnitzer Maschinen- und Anlagenbau e.V.
- Innovation Cluster »Wasserstoffland Sachsen«
- Institut für Luft- und Kältetechnik gemeinnützige Gesellschaft mbH
- LHyVE
- Mitteldeutsche Flughafen AG
- Mitteldeutsche Netzgesellschaft Gas mbH
- SAACKE GmbH
- Saxony Trade & Invest
- SITEC Industrietechnologie GmbH
- TU Bergakademie Freiberg
- TU Dresden, Institute of Process Engineering and Environmental Technology
- VNG AG
- WasserstoffNet

Speakers



Andreas Rupieper

Managing Director,
ITM Linde Electrolysis GmbH, Dresden

09:50 **Keynote**

10:00 **Panel discussion**



Jürgen Pfeiffer

Moderation



Bart Biebuyck

Executive Director, Clean Hydrogen Joint Undertaking,
Brussels

10:00 **Panel discussion**



Martin Dulig

Saxon State Minister of Economic Affairs,
Labour and Transport

09:30 **Official opening**

11:20 **Regional forum**



Dr. Gerd Lippold

State Secretary, Saxon State Ministry for Energy,
Climate Protection, Environment and Agriculture, Dresden

10:00 **Panel discussion**



Carsten Schneider

Minister of State for East Germany and
Equivalent Living Conditions, Berlin

09:45 **Welcome address**



Frank Mehlow

Head of Strategic Business Development, Lausitz Energie
Kraftwerke AG (LEAG), Cottbus

10:00 **Panel discussion**

12:15 **Tour de Saxe** Region Lausitz



Veronika Vohlídková

Director, Legislation and Strategy, Member of the Board,
Czech Hydrogen Technology Platform (HYTEP)

10:00 **Panel discussion**



Jan Jambon

Minister-President of the Government of Flanders,
Flemish Minister for Foreign Policy, Culture, Digitization
and Facilities

11:20 **Regional forum**



Petr Mervart

Plenipotentiary of the Minister of Industry and Trade for
Hydrogen Strategy, Czech Republic

11:20 **Regional forum**



Anne-Marie Spierings

Minister for Energy, Circular Economy and Environment,
North Brabant

11:20 **Regional forum**



Prof. Dr. Thomas von Unwerth

Head of the Department of Advanced Powertrains,
Chemnitz University of Technology
Steering Group, Hydrogen Innovation Center, Chemnitz

12:00 **Study presentation**

14:45 **Parallel sessions:** Session 3 – Mobility & Logistics
(Moderation)



Christoph Friedrich

Group Development, Leipziger Group

12:15 **Tour de Saxe:** Region Leipzig



Dr. Olga Naumov

Senior Manager for Technology Projects, Leipziger Group

12:15 **Tour de Saxe:** Region Leipzig

14:45 **Parallel sessions:** Session 2 – Infrastructure



Paul Bruns

Business Development Manager Hydrogen,
FAUN Viatec GmbH/ENGINIUS, Grimma

12:15 **Tour de Saxe:** Region Leipzig



Kevin Günther

Sales Manager PtX,
Chemieanlagenbau Chemnitz GmbH (CAC)

12:15 **Tour de Saxe:** Region Chemnitz/Plauen/Zwickau



Dr. Jutta Matreux

Site Manager, Wacker Chemie AG, Nünchritz

12:15 **Tour de Saxe:** Region Meißen/Dresden



Bernd Fischer

Head of Project Management new rolling mill,
ESF Elbe-Stahlwerke Feralpi GmbH, Riesa

12:15 **Tour de Saxe:** Region Meißen/Dresden



Dr. Sebastian Schmidt

Project Coordinator, Hydrogen Lab Görlitz

12:15 **Tour de Saxe:** Region Lausitz



Dr. Stefan Fenchel

Project Manager of the "Green Plant", BMW Group, Leipzig

14:00 **Live demonstration:** Car manufacturing
in Germany



Dr. Ulrike Beyer

Head of TaskForce Hydrogen@IWU, Fraunhofer Institute
for Machine Tools and Forming Technology IWU, Chemnitz

14:00 **Live demonstration:** Microgrids in South Africa



Esther Ascheri

Project Team Member Hydrogen Tryout Areal,
Fraunhofer Institute for Machine Tools and Forming
Technology IWU, Chemnitz

14:00 **Live demonstration:** Microgrids in South Africa



Prof. Dr.-Ing. Markus Michael

CEO, Texulting GmbH, Chemnitz

14:00 **Live demonstration:** Microgrids in South Africa



Dr.-Ing. Franziska Lehmann

Head of Project Management and Controlling,
Texulting GmbH, Chemnitz

14:00 **Live demonstration:** Microgrids in South Africa



Dr. Frances Zedler

CEO, Energy Saxony e.V., Dresden

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Emilio Manrique Ambriz

Business Development Manager, Holst Centre, Eindhoven

14:45 **Parallel sessions:** Session 1 – Generation



Nigel Holmes

CEO, Scottish Hydrogen and Fuel Cell Association

14:45 **Parallel sessions:** Session 1 – Generation



Michael Kluge

Senior Director Aviation Affairs, European Air Transport
Leipzig GmbH

14:45 **Parallel sessions:** Session 1 – Generation



Adwin Martens

Managing Director, WaterstofNet, Belgium/Netherlands

14:45 **Parallel sessions:** Session 1 – Generation



Katja Mattner

Head of Grants & Subsidies, Sunfire GmbH, Dresden

14:45 **Parallel sessions:** Session 1 – Generation



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Head of Strategic Communications PtX Projects,
EDL Anlagenbau GmbH, Leipzig

14:45 **Parallel sessions:** Session 1 – Generation



Gert Müller-Syring

CEO, DBI Gas- und Umwelttechnik GmbH, Leipzig

14:45 **Parallel sessions:** Session 2 – Infrastructure
(Moderation)



Dr. Lukáš Janura

Department of Economic Analysis, Czech Ministry of
Industry and Trade

14:45 **Parallel sessions:** Session 2 – Infrastructure



Dr. Jörg Dickert

Assetmanagement, SachsenNetze GmbH, Dresden

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Managing Director Fluxys Deutschland GmbH
and Fluxys TENP GmbH, Düsseldorf

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Corporate Development, ONTRAS Gastransport GmbH,
Leipzig

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Project Leader, Institute of Vehicle Concepts,
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Dipl.-Ing Dirk Hünlich

Head of Process Management/Support, Mitteldeutsche
Netzgesellschaft Strom mbH, Kabelsketal/Saxony-Anhalt

14:45 **Parallel sessions:** Session 2 – Infrastructure



Alexander Wimmer

Research Associate, Institute of Engineering Thermo-
dynamics, German Aerospace Center (DLR), Stuttgart

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Frank Rößler

CEO, MoviaTec GmbH, Leipzig

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Manager Chassis Development,
FES GmbH Fahrzeug-Entwicklung Sachsen, Zwickau

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16:15 **Trade session**



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Federal Ministry for Economic Affairs and Climate Action,
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16:15 **Trade session**



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17:00 **Panel discussion**



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Director, Centre Sustainable Energy, Fondazione Bruno
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Werner Diwald

Chairman, German Hydrogen and Fuel-Cell
Association (DWV), Berlin

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The next edition of the

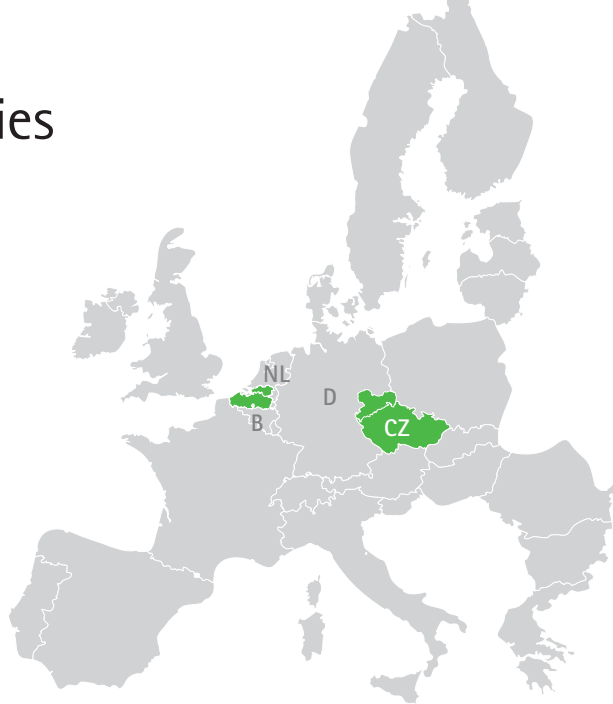
Green Hydrogen Innovation Congress

will take place in 2024.

We look forward
to welcoming you again.

Guest countries and regions

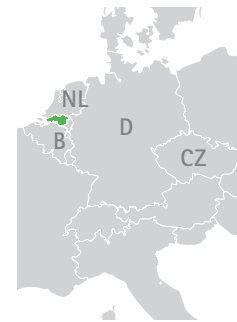
Joining competences along the entire hydrogen value chain for more innovation, competitiveness and resilience



- Flanders**
- Official language: Dutch
 - Area: 13,624 km²
 - Population: approx. 6.6 million

Flanders (Belgium)

Flanders is fast on its way to become a European hydrogen hub. So it is no surprise, Flanders is home to a unique ecosystem of companies and research institutes active in the complete hydrogen value chain. The port of Antwerp is Europe's largest chemical cluster and the second largest in the world with a large demand for hydrogen. The transmission system operator Fluxys is constructing a hydrogen network to connect hydrogen supply and demand in the industrial clusters and to connect Flanders to Europe. Multiple production projects are ongoing in the port areas and via the LNG terminal in Zeebrugge, the import of green hydrogen and its derivatives will become possible. Flanders has developed its own hydrogen strategy, offers support for hydrogen R&D projects, subsidies for hydrogen vehicles and refuelling infrastructure and participates in the hydrogen IPCEI with a support of 125 million euro.



- North Brabant**
- Official language: Dutch
 - Area: 5,082.06 km²
 - Population: approx. 2.5 million

Province of North Brabant (Netherlands)

The Province of North Brabant represents the administrative layer between the national government and the local municipalities. The provincial administration takes initiatives on an economic, social and cultural level and coordinates actions. The Province of North Brabant is an enterprising, innovative and successful Dutch region in Europe and a wonderful place to live. High tech and high touch are inseparable. The close collaboration between the Brabant partners, in national and international networks, stimulates the further development of innovation and entrepreneurship. North Brabant is centrally positioned between the port cities of Rotterdam and Antwerp and the German Ruhr area. It has an international reputation as a European top region for innovation and knowledge with an inspiring business climate. North Brabant has the ambition to maintain and enhance this leading position.



- Czech Republic**
- Official language: Czech
 - Area: 78,866 km²
 - Population: approx. 10.5 million

Czech Republic

The Czech Republic, a landlocked country in the heart of Europe, is currently undergoing an energy transition and has therefore developed in 2021 the Czech hydrogen strategy with a clear vision: A path towards climate neutrality by 2050 and a smooth transition of the economy to low-carbon technologies. The Czech Republic's natural gas transmission network is important for meeting Europe's energy needs and will also be important for low-carbon hydrogen in the future. With four specific goals the Czech hydrogen strategy sets clear targets for the introduction of hydrogen – beginning with the transport, chemical industry, over hard to abate industrial sectors, to electricity, heating, and housing sector in the future. Specific conditions for renewables make the production of low-carbon hydrogen challenging. However, the Czech Republic as a very industrial country can rely on a long tradition of machinery industry and offer clever solutions abroad.

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Saxon State Ministry
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Wilhelm-Buck-Strasse 2 | 01097 Dresden
Tel. +49 (0)351 564-80600
presse@smwa.sachsen.de
www.smwa.sachsen.de

Editorial office

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for Economy, Labour and Transport

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