



Green Hydrogen Innovation Congress 2024

Accelerating the global hydrogen market
through regional cooperation

Wednesday, 29 May 2024

International Congress Center Dresden



Program

Welcome

Time to join the hydrogen bandwagon!



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

Since our first GHIC in November 2022, the efforts to supply European industry with clean and green solutions for energy and mobility based on hydrogen have been fostered widely. The Free State of Saxony has intensified his efforts to provide industrial scale solutions for multiple hydrogen use cases. Within an Important Project of Common European Interest (IPCEI) we will allocate more than 100 million Euros in electrolyser technology, pipeline expansion and the production of green aviation fuels.

On national and European level, tenders have been opened for long term purchase agreements by the Leipzig based Hint. Co. A company that will – in close collaboration with the European Energy Exchange (EEX) and the European Hydrogen Bank – lead to a supply of up to 20 million tons of hydrogen and to the European market. In this context we face an enormous attention to solutions and innovations in the field of green hydrogen technologies.

The Saxon State Ministry of Economic Affairs, Labour and Transport (SMWA) is hosting the GHIC 2024 and welcomes the guest regions Poland and Scotland to discuss and leverage efforts to enhance the green energy transition for Europe and the world.

May the Green Hydrogen Innovation Congress 2024 provide you with inspiring talks and practical conception for the next steps.

Yours

Martin Dulig

Saxon State Minister of Economic Affairs,
Labour and Transport



The Saxon metropolis of Dresden welcomes the participants of the 2nd Green Hydrogen Innovation Congress 2024 on 29 May.

One day. 370 participants. The full focus on green hydrogen.

Welcome to the second "Green Hydrogen Innovation Congress" (GHIC 2024) taking place in Dresden, the capital of the Free State of Saxony. The Free State is one of the hotspots in Europe to set up and scale up a green hydrogen economy.

Guided by the motto "Accelerating the global hydrogen market through regional cooperation" the international congress will focus on the entire hydrogen value chain showcasing that regions are the key places for the implementation of national and European hydrogen strategies.

Find out about the latest developments in hydrogen technology and business, meet the leading hydrogen players and follow exciting discussions by decision-makers, experts and practitioners on the topics of sustainable production, efficient transport and innovative applications of green hydrogen.

The hybrid event and the parallel Green Hydrogen Innovation Market will create space for networking and cooperation between regional innovation drivers in a dynamic global environment.

Agenda

08:30

Registration and coffee

09:00

Welcome and official opening

- Martin Dulig, Saxon State Minister for Economic Affairs, Labour and Transport (SMWA) and Deputy Minister-President

09:15

Keynote: Green hydrogen's importance for energy supply and industry in Germany

- Michael Kellner, Parliamentary State Secretary of the Federal Ministry for Economic Affairs and Climate Action

09:25

Impulse talk: Ready for the ramp-up?

- Cornelia Müller-Pagel, Head of Green Gases, VNG AG

09:30

Panel discussion: Joint forces or solo runs: Which road to success for Europe's hydrogen industry?

- Michael Kellner, Parliamentary State Secretary of the Federal Ministry for Economic Affairs and Climate Action
- Cornelia Müller-Pagel, Head of Green Gases, VNG AG
- Tatiana Marquez Uriarte, Member of the Cabinet of the Commissioner, DG Energy, European Commission

- Dr Nils Geißler, Head of Energy and Climate Protection Department at the Saxon State Ministry for Energy, Climate Protection, Environment and Agriculture
- Holger Kittelmann, Head of Sales Hydrogen Plants, Linde Engineering Dresden

10:20

Coffee break @ Green Hydrogen Innovation Market

10:50

Impulse talk: Financing Europe's green future

- Nicola Beer, Vice President, European Investment Bank

10:55

Panel discussion: How can we leverage finance to achieve our green hydrogen ambitions?

- Nicola Beer, Vice President, European Investment Bank
- Markus Exenberger, Executive Director, H2Global Foundation
- Peter Mock, Specialist Commodity Indices, European Energy Exchange AG
- Dr Christian Storost, Head of Division 'International Hydrogen Ramp-up', Federal Ministry for Economic Affairs and Climate Action

11:35

Regional forum: How to successfully position regions in the European and global hydrogen market?

- Martin Dulig, Saxon State Minister for Economic Affairs, Labour and Transport (SMWA) and Deputy Minister-President
- Bengt Berg, MdB, Deputy Spokesperson, Climate Protection and Energy Working Group of the SPD Parliamentary Group
- Dr Alexandra Stein, European Hydrogen Envoy at the Scottish Government
- Petr Mervart, Plenipotentiary of the Minister of Industry and Trade for Hydrogen Technologies, Ministry of Industry and Trade, Czechia
- Uwe Zischkale, Head of Department Energy, Sustainability and Structural Change, Ministry of Science, Energy, Climate Protection and the Environment of Saxony-Anhalt

12:15

Lunch @ Green Hydrogen Innovation Market

- **Speaker's Corner** (from 12:45 pm)
Moderation: Anne Dreysel, Research Adviser, DLR Project Management Agency
 - Sebastian Becker, Co-Founder & CEO, refuel.green consulting & technologies GmbH
 - Uwe Pahl CTO, AMBARtec AG
 - Andreas Bauer, Hydrogen Scout Leipzig, HYPOS e.V.
 - Stefan Herzberg, Managing Director, GHPower Germany GmbH

13:30

Hydrogen in Saxony – A cinematic tour through the landscape of innovation

13:40

Upscaling green hydrogen production – What are the key challenges and drivers?

Best practice examples from Saxony

- Dr Christopher Frey, Head of Regulatory Affairs, Sunfire GmbH
- Daniel Kosel, Head of Project Development, LEAG

14:25

Transition to sessions

14:30

Parallel sessions

- **Session 1 – Hydrogen infrastructure** (main stage)
Moderation: Johannes Wege, Managing Director, HYPOS e.V.
 - Carolin Tamaske, Regulatory and Public Affairs, ONTRAS Gastransport GmbH
 - Dr Olga Naumov, Senior Manager Technology and Innovation Projects, L-Group
 - Dr Jörg Dickert, Assetmanagement Gas, SachsenNetze GmbH
 - Martyn Tulloch, Head of Energy System Integration, Net Zero Technology Centre, Scotland
 - Marek Elert, Manager at Energy Transition Division, GAZ-SYSTEM, Poland
- **Session 2 – Import and industrial application of hydrogen** (second stage)
Moderation: Frederik Wewetzer, Technical Advisor, Saxon Hydrogen Competence Centre (KH2)
 - Carl Wuppermann, Head of Commercial for Europe, Protium Green Solutions Europe, UK
 - Martin Kisza, Head of Communication, Svevind Energy Group
 - Chiara Caccamo, Research Manager, SINTEF Energy Research, Norway

15:25

Coffee break @ Green Hydrogen
Innovation Market

15:50

Parallel sessions

- Session 3 – Hydrogen mobility (second stage)
Prof Thomas von Unwerth, Managing Director Institute for Automotive Research, Chemnitz University of Technology
 - Dr Rüdiger Schwarz, Head of Strategic Communications PtX Projects, EDL Anlagenbau GmbH
 - Hanno Balzer, Managing Director of HH2E Plant Thierbach GmbH
 - Yash Dongre, Strategy Manager, HiiROC Ltd, Scotland
 - Szymon Płoński, Lower Silesian Hydrogen Valley, Poland
- Session 4 – Innovation Forum Green Hydrogen (main stage)
Moderation: Radosław Żydok, Vice President, Lower Silesian Hydrogen Valley
 - Prof Jakub Kupecki, Director, Institute of Power Engineering – National Research Institute, Poland
 - Tobias Hofmeister, Head of Prototyping, Flexergy Ltd., Scotland
 - Dr Volker Wannack, Head of "Blockchain in the energy industry", Blockchain Competence Center Mittweida (BCCM)
 - Jonathan Osswald, Master of Blockchain & Distributed Ledger Technologies, Blockchain Competence Center Mittweida (BCCM)
 - Prof Gotthard Wolf, Director of Foundry Institute, Technische Universität Bergakademie Freiberg

16:45

Wrap up of parallel sessions

- Johannes Wege, HYPOS e.V.
- Frederik Wewetzer, KH2
- Prof Thomas von Unwerth, Chemnitz University of Technology
- Radosław Żydok, Lower Silesian Hydrogen Valley

16:55

Farewell

- Thomas Kralinski, State Secretary at the Saxon State Ministry for Economic Affairs, Labour and Transport

17:00

Standing reception and networking

20:00

End of congress

Green Hydrogen Innovation Congress 2022



Speakers



Cornelia Müller-Pagel

Head of Green Gases, VNG AG

09:25 **Impulse talk**

09:30 **Panel discussion**



Jürgen Pfeiffer

Moderation



Tatiana Marquez Uriarte

Member of the Cabinet of the Commissioner, DG Energy, European Commission

09:30 **Panel discussion**



Martin Dulig

Saxon State Minister of Economic Affairs, Labour and Transport

09:00 **Official opening**

11:35 **Regional forum**



Dr Nils Geißler

Head of Energy and Climate Protection Department at the Saxon State Ministry for Energy, Climate Protection, Environment and Agriculture

09:30 **Panel discussion**



Michael Kellner

Parliamentary State Secretary of the Federal Ministry for Economic Affairs and Climate Action

09:15 **Keynote**

09:30 **Panel discussion**



Holger Kittelmann

Head of Sales Hydrogen Plants, Linde Engineering Dresden

09:30 **Panel discussion**



Nicola Beer

Vice President, European Investment Bank

10:50 Impulse talk

10:55 Panel discussion



Bengt Bergt

MdB, Deputy Spokesperson, Climate Protection and Energy Working Group of the SPD Parliamentary Group

11:35 Regional forum



Markus Exenberger

Executive Director, H2Global Foundation

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Dr Alexandra Stein

European Hydrogen Envoy at the Scottish Government

11:35 Regional forum



Peter Mock

Senior Specialist Commodity Indices,
European Energy Exchange AG

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Petr Mervart

Plenipotentiary of the Minister of Industry and Trade for Hydrogen Technologies, Ministry of Industry and Trade, Czechia

11:35 Regional forum



Dr Christian Storost

Head of Division 'International Hydrogen Ramp-up',
Federal Ministry for Economic Affairs and Climate Action

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Uwe Zischkale

Head of Department Energy, Sustainability' and Structural Change, Ministry of Science, Energy', Climate Protection and the Environment of Saxony-Anhalt

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Anne Dreysel

Research Adviser, DLR Project Management Agency

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(Moderation)



Stefan Herzberg

Managing Director, GHPower Germany GmbH (tbc)

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Sebastian Becker

Co-Founder & CEO, refuel.green consulting
& technologies GmbH

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Dr Christopher Frey

Head of Regulatory Affairs, Sunfire GmbH

13:40 **Best practice examples from Saxony**



Uwe Pahl

CTO, AMBARtec AG

12:45 **Speakers Corner**



Daniel Kosel

Head of Projects, LEAG

13:40 **Best practice examples from Saxony**



Andreas Bauer

Hydrogen Scout Leipzig, HYPOS e.V.

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Johannes Wege

Managing Director, HYPOS e.V.

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(Moderation)

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Carolin Tamaske

Regulatory and Public Affairs,
ONTRAS Gastransport GmbH

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Senior Manager Technology and Innovation Projects,
L-Group

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Manager at Energy Transition Division, GAZ-SYSTEM, Poland

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Technical Advisor,
Saxon Hydrogen Competence Centre (KH2)

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Head of Commercial for Europe,
Protium Green Solutions Europe, UK

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Research Manager, SINTEF Energy Research, Norway

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Yash Dongre

Strategy Manager, HiiROC Ltd, Scotland

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Prof Thomas von Unwerth

Managing Director Institute for Automotive Research,
Chemnitz University of Technology

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16:45 **Wrap up of parallel sessions**



Szymon Płoński

Lower Silesian Hydrogen Valley, Poland

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Dr Rüdiger Schwarz

Head of Strategic Communications PtX Projects,
EDL Anlagenbau GmbH

15:50 **Parallel sessions:** Session 3 – Hydrogen mobility



Radosław Żydok

Vice President, Lower Silesian Hydrogen Valley

15:50 **Parallel sessions:** Session 4 –
Innovation Forum Green Hydrogen
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16:45 **Wrap up of parallel sessions**



Hanno Balzer

Managing Director of HH2E Plant Thierbach GmbH

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Prof Jakub Kupecki

Director, Institute of Power Engineering –
National Research Institute, Poland

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Bergakademie Freiberg

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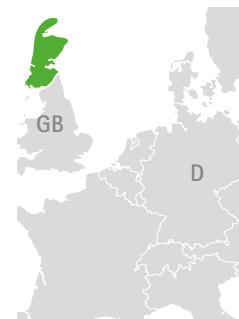
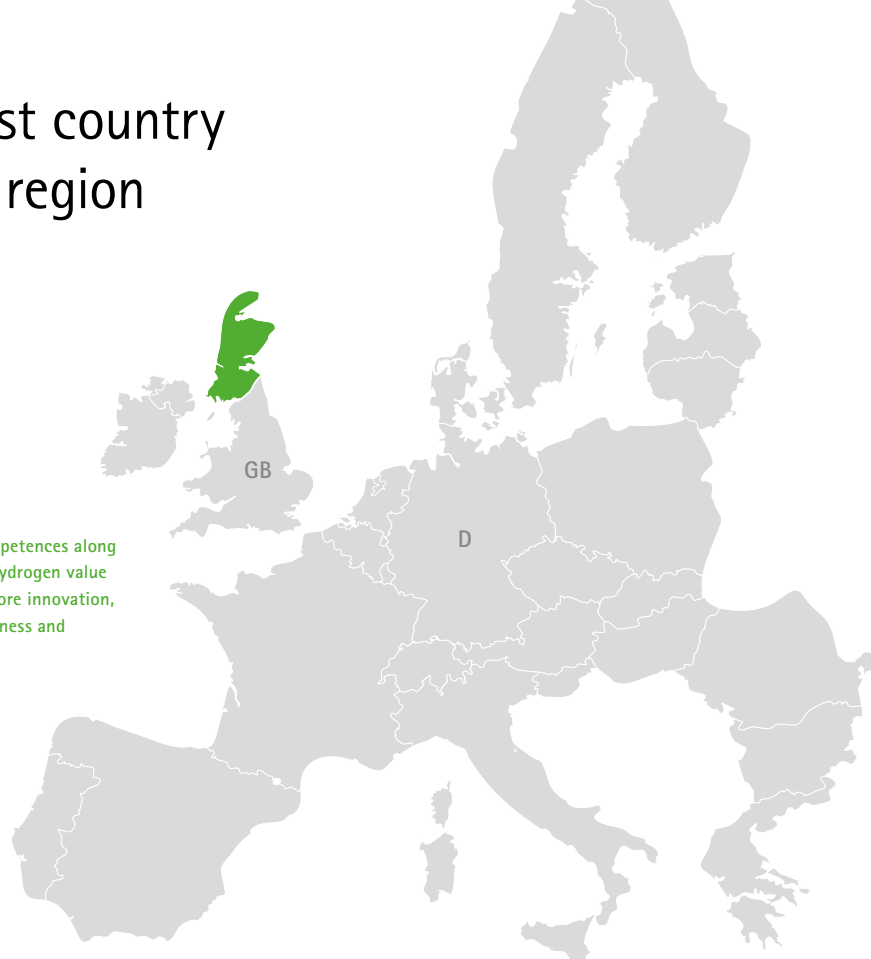
Thomas Kralinski

State Secretary at the Saxon State Ministry
for Economic Affairs, Labour and Transport

16:55 **Farewell**

Guest country and region

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



Scotland

- Official language: English, Scottish Gaelic, Scots
- Area: 77.910 km²
- Population: approx. 5.4 million

Scotland (Great Britain)

The Scottish Government aims for Scotland play a central role as a trusted and reliable trading partner in securing Europe's future energy supply and accelerating the global transition to net zero. Scotland has the resources, people and ambition to become an important producer of reliable, competitive and sustainable hydrogen, delivering 5GW of renewable and low-carbon hydrogen by 2030 and 25GW by 2045. With its extensive renewable resources and geographical proximity, Scotland is well placed to ensure the long-term security of supply of green hydrogen in Northern Europe. Scotland currently has a total potential offshore wind capacity for over 40 GW and the ambition to growth in onshore wind, marine and solar capacity. In Orkney, for example, the world's first hydrogen is generated from tidal energy.

The Scottish Government-funded Hydrogen Backbone Link project (HBL) has investigated the potential to connect major energy hubs in North East Scotland to the European Hydrogen Backbone, e.g. via Emden or Wilhelmshaven in Germany, either by repurposing and optimising existing pipeline infrastructure or through developing new infrastructure. Besides pipelines, multiple options exist, including marine vessel transportation of liquid hydrogen, green ammonia, green methanol or Liquid Organic Hydrogen carrier (LOHC), to export at varying scales and requirements.

Accordingly, Scotland aims to continue to develop bilateral and multilateral relationships over the coming years to promote regional cooperation and understanding, and to raise awareness of the northern region's green hydrogen potential among potential EU importers.

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