GREEN HYDROGEN FORUM | WEDNESDAY, MAY 11 – FRIDAY, MAY 13, 2022

WEDNESDAY, MAY 11, 2022

Green Hydrogen: Policy Enabled Market

The opening session is outlining the frame and set-up of the 3 day program and the speaker highlights. The economic efficiency of hydrogen and its significance for Germany and Europe will be discussed by government bodies and industry associations. They share their visions and increasingly the concrete steps towards materialization, and how the political support will enable the market. It will also be illustrated how hydrogen can increase the resilience of the energy system by reducing imports of fossil fuels and diversifying the supplier countries, and how to establish cooperation and joint infrastructure development with renewable energy rich countries.

10:30am – 10:40am	Welcome and Introduction	Felicia Mester	Manager, Energy and Production Policy, Hydrogen Europe
10:40am – 11:00am	Hydrogen will make EU's Energy Supply More Resilient	Jorgo Chatzimarkakis	Chief Executive Officer, Hydrogen Europe
11:00am – 11:20am	Hydrogen, Economic Efficiency, Significance for Germany and Europe	Prof. Dr. Veronika Grimm	Chair of Economic Theory, Friedrich-Alexander-University Erlangen-Nürnberg
11:20am – 11:40am	H2Europe – The Hydrogen Union	Werner Diwald	Chairman of the Board, German Hydrogen and Fuel Cell Association
11:40am – 12:00pm	H2 Pipelines, Connections of Africa and the Arabian Peninsula to Europe	Cornelius Matthes	Chief Executive Officer, Dii Desert Energy
12:00pm – 12:30pm	Summary/Q&A		

Industrial/Product Live Pitches

	Moderation	Gesche Maass	Conference Manager, Solar Promotion GmbH
1:00pm – 1:10pm	Application-based Technology Review of Hydrogen Production	Marc-André Micke	Senior Sales Manager – Energy Transition, AEG Power Solutions
1:10pm – 1:20pm	Sensitive Vacuum Automation – A Technology	Alexander Detke	Technical Sales, H-TEC SYSTEMS GmbH
1:20pm – 1:30pm	PV und Batteriespeicher ermöglichen Grünen Wasserstoff (German)	Matthias Giller	Sales Manager EPC & Distribution, Intilion GmbH
1:30pm – 1:45pm	Emission-free Stationary and Mobile Hydrogen Fuel Cell Solutions	Stephan Laistner	Business Development Manager Hydrogen, SFC Energy AG

Electrolyser-FuelCell-Hydrogen Technologies – From Research to Lighthouses

This session presents the Clean Hydrogen Joint Undertaking and Hydrogen Europe's Lighthouse Initiative to highlight Europe's path from research and innovation to GW scale lighthouses. Europe's industrial stance is analysed in comparison to other international actors on the level of Intellectual Property, showing strengths and areas for catch-up in the hydrogen ecosystem.

02:00pm – 02:05pm	Welcome and Introduction	Olivier Bucheli	President, European Electrolyser & Fuel Cell Forum (EFCF)
02:05pm – 02:25pm	The Clean Hydrogen Partnership Joint Undertaking	Aguilo Rullan Antonio	(Clean Hydrogen JU) Clean Hydrogen Partnership
02:25pm – 02:45pm	The Lighthouse Initiative	Andrea Zaccardi	Green Hydrogen Manager, Hydrogen Europe
02:45pm – 03:05pm	Global Patent Trends in the Hydrogen Industry – Who is Leading the Way?	Christian Metzger	Patent Attorney, Realpatent Patentanwälte Partnerschaft mbB
03:05pm – 03:30pm	Study "Steel from Solar Energy"	Grzegorz Pawelec	Director, Intelligence, Hydrogen Europe

Panel Discussion: Green Hydrogen Manifesto: What does it take to Industrialize?

The third session offers a top-class panel discussion. At the Green Hydrogen Forum 2021, the „Green Hydrogen Manifesto" with 12 focussed demands to policy makers and governments was signed by over 100 companies and organizations. Speakers of the previous sessions will debate the status of the implementation and further required actions to get hydrogen to industrial scale to enable the circular economy and full decarbonization. The audience can raise questions to the experts to challenge their visions and learn about the path forward.

04:00pm – 05:00pm	Felicia Mester (Moderator), Manager, Energy and Production Policy, Hydrogen Europe
	Jorgo Chatzimarkakis, Chief Executive Officer, Hydrogen Europe
	Prof. Dr. Veronika Grimm, Chair of Economic Theory, Friedrich-Alexander-University Erlangen-Nürnberg
	Cornelius Matthes, Chief Executive Officer, Dii Desert Energy

THURSDAY, MAY 12, 2022

H2 Infrastructure

A hydrogen economy at scale will complement the renewable sector to build a resilient energy system. Is an entire re-built required, or can existing assets contribute to an accelerated transition? What infrastructure exists and what will be further required? The speakers' organizations develop infrastructure projects to offer green H2 at economical costs and present opportunities and challenges. Expect real-world answers and a look at upcoming investments.

10:30am – 10:40am	Welcome and Introduction	Olivier Bucheli	President, European Electrolyser & Fuel Cell Forum (EFCF)
10:40am – 11:00am	Eastern Europe, the Mediterranean and Middle East - Opportunity and Requirements for a Resilient Energy System	Dr. Kristin Westphal	Executive Director Analysis & Research, H2Global Stiftung
11:00am – 11:20am	The European Gas Grid - Asset to Accelerate the Hydrogen Economy	Dr. James Watson	Secretary General, Eurogas
11:20am – 11:40am	Salt Caverns for Hydrogen Storage – Pillar of a Resilient Hydrogen Economy	Pierre Besnier	Business Developement, Solvay
11:40am – 12:00pm	H2 fine Logistics: APEX Hydrogen Hub Delivering true Sector Coupling	Mischa Paterna	Managing Director, Hydrogen Energy Cluster Mecklenburg-Vorpommern
12:00pm– 12:20pm	PV-optimised Dimensioning of On-Site Electrolysis (Application Scenario Transportation)	Richard B. Schuster	Product Management Hydrogen Solutions, Fronius International GmbH
12:20pm – 12:30pm	Q&A Round		

Industrial/Product Live Pitches

	Moderation	Michael Spirig	CEO, European Electrolyser & Fuel Cell Forum (EFCF)
1:00pm – 1:10pm	A Year-round Electricity Storage System for Buildings	Dr. Henrik Colell	Vice President Strategy & Founder, HPS Home Power Solutions GmbH
1:10pm – 1:25pm	Wasserstoffmobilität mit 100% Erneuerbaren Energien (German)	Johannes Brock	Teamleitung Key Account Management, GP JOULE Hydrogen GmbH
1:25pm – 1:40pm	Power Electronics for Green H2 Production	Harkaitz Ibaiondo	H2 Business Unit Director, Ingeteam Power Technology S.A.
1:40pm – 1:55pm	Optimal Power Supply Systems for Electrolyzer Applications	Fabian Jochem	Head of Strategy, SMA Solar Technology AG

H2 Enabling Grid Flexibility and Renewable Sources

Green Hydrogen requires Green Energy, mostly electricity. Should electricity be produced for the mere production of hydrogen? To what extent can hydrogen enable to up-take of RES and rugidise the overall energy system? The coupling of the electricity and gas sector is a key for the domestic production of green hydrogen. Pioneering projects will be presented to share experiences and discuss bottlenecks on the level of regulation, public acceptance and further optimization potentials.

02:00pm – 02:05pm	Welcome and Introduction	Prof. Dr. Christoph Imboden	Head Research IIT, Head Competence Center Business Engineering CC BE, Lucerne University
02:05pm – 02:25pm	Bottelnecks and Solutions of the Electricity Grid	Tanaka Mbavarira	MSc. Business Engineering, Research Associate, Lucerne University
02:25pm – 02:45pm	Decentralized Green Hydrogen and Sector Coupling: Opportunities and Challenges	Dr. Eva Schmid	Director Hydrogen and Synthetic Energy Carriers, German Energy Agency (dena)
02:45pm – 03:05pm	EU Energy Transition – The ETIP SNET Roadmap for Flexibility	Norela Constantinescu	Head of Section Innovation, ETIP SNET and Entso-E
03:05pm – 03:25pm	Hydrogen as Enabler for Net Zero Sector Coupling	Niclas Ege	Project Manager Business Development, Everfuel

Panel Discussion: The European Hydrogen Mix – 50 Shades of Green?

This panel discussion will focus on which Hydrogen Mix takes to create a robust hydrogen economy. What does the „Green Hydrogen Manifesto" call for? How much import, how much domestic H2 is needed? How will the necessary infrastructure conversion and expansion work, and how will it interact with the electricity industry - physically but also in terms of price. Experts from the previous sessions will debate on the shades of the „Green" of Hydrogen and also answer challenging questions from the audience.

04:00pm – 05:00pm	Moderator: Christian Weinberger, Strategy Adviser, hydrogen-advisers.eu
	Kerstin Andreae, Chairwoman of the General Executive Management Board, BDEW German Association of Energy and Water Industries
	Werner Diwald, Chairman of the Board, German Hydrogen and Fuel Cell Association
	Bronagh O`Hagan, Communications Director, Eurogas
	Dr. Kristin Westphal, Executive Director Analysis & Research, H2Global Stiftung

FRIDAY, MAY 13, 2022

Sektoren und Anwendungen für Brennstoffzellen – Mobilität

Die Umsetzung einer klimafreundlichen Mobilität im Straßenverkehr mit grünem Wasserstoff erfordert klare Orientierungen für die Akteure entlang der gesamten Wertschöpfungskette. Welche Herausforderungen im Verkehrssektor bestehen derzeit, um gleichermaßen den notwendigen Beitrag zum Klimaschutz und die Versorgungssicherheit der Mobilität zu gewährleisten? In der DWV: Session: Fuel Cells Driving Transportation – Wasserstoff-Mobilität im Straßenverkehr" diskutieren die Teilnehmenden über Rahmenbedingungen und marktwirtschaftliche Anreize, um die Markteinführung von Brennstoffzellenfahrzeugen im Straßenverkehr inkl. der erforderlichen Tankinfrastruktur zu fördern.
Diese Session wird zusammen mit dem DWV (Deutscher Wasserstoffverband) organisiert. (Session partly in Englisch)

10:30am – 10:40am	Willkommen & Einführung	Werner Diwald	Vorstandsvorsitzender, Deutscher Wasserstoff- und Brennstoffzellen-Verband e.V.
10:40am – 10:50am	Impulsvortrag	Ministerialdirektorin Dr. Ulrike Wolf-Prexel	Bayerisches Staatsministerium für Wirtschaft, Landesentwicklung und Energie
10:50am – 11:00am	Impulsvortrag	Sprecher wird noch bestätigt	BMDV
11:00am – 11:10am	Rolle des grünen Wasserstoffs in Energie und Mobilität	Dr. Tobias Christoph Brunner	Geschäftsführer, HYNERGY GmbH
11:10am – 11:20am	Impulsvortrag	Berhard Wasner	CEO, Paul Nutzfahrzeuge GmbH
11:20am – 11:30am	Impulsvortrag	Sprecher wird noch bestätigt	IVECO
11:30am – 12:00pm	Podiumsdiskussion/F&A		
12:00pm – 12:20pm	Truck Power: Battery or Fuel Cell or Both (English)	Marco Männlein	Head of Alternative Propulsions, IVECO
12:20pm – 12:40pm	The World's First Hydrogen Cargo Ship with Green Hydrogen (English)	Bjørn Holsen	Senior Vice President for New Business, Statkraft

Industrial/Product Live Pitches

	Moderation	Sabine Kloos	Project Manager, Solar Promotion GmbH
1:00pm – 1:10pm	Use of Electrolysers for Ancillary Service	Nicolas Chouleur	Partner, Everoze
1:10pm – 1:20pm	Power to the People – How Local Hydrogen Production Stabilizes our Energy System	Dr. Markus Ostermeier	Chief Executive Office, Ostermeier H2ydrogen Solutions GmbH
1:20pm – 1:30pm	Flexible use of an Electrolyser as a Means to Balance the Grid	Willem de Vries	New Business Developer, GoenlEven – Zone – Energy
1:30pm – 1:40pm	The Business Case for Green Hydrogen Produced from Energy Storage	Minh Koi Le	Lead Analyst, Rystad Energy

How to Get Suitable Conditions from Banks and Insurance Companies

This session is organised together with VDE. Improving bankability and insurability for renewable energy products, processes and projects as well as the transferability to hydrogen technologies will be discussed. Experiences, lessons learnt and success stories from other related fields such as PV, wind and batteries will be presented. Not everything can simply be transferred to the hydrogen value chain, but approaches and pressures for action become visible step by step.

02:00pm – 02:10pm	Moderation and Introduction	Burkhard Holder	Managing Director, VDE Renewables GmbH
02:10pm – 02:40pm	Insurability & Bankability of Emerging Technology	Patrick Hinze	Head of Green Tech Solutions (Emerging), Munich RE
02:40pm – 03:10pm	Criteria from the Perspective of Investors and Banks	Rudolf Hilti	Founder & CEO, RHEINEST – The System Change Foundation
03:10pm – 03:40pm	Improving Bankability and Insurability for Renewable Energy Products, Processes and Projects	Stefan Garche	Head of Hydrogen Technologies, VDE Renewables GmbH
03:40pm – 03:50pm	Forum Closure	Olivier Bucheli	President, European Electrolyser & Fuel Cell Forum (EFCF)

SUPPORTERS:

PROGRAM PARTNER