



# EUROPEAN HYDROGEN FORUM

*Kick-starting the EU hydrogen industry to achieve the EU climate goals*

26 - 27 November 2020

Online Event

THURSDAY, 26 NOVEMBER

**09:00 - 09:05** Welcome and moderation

Bart Biebuyck, Executive Director, Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

**09:05 - 09:15** Opening Remarks

Kadri Simson, European Commissioner for Energy

**09:15 - 09:25** Opening Remarks

Valerie Bouillon-Delporte, Chair of the FCH JU Governing Board, President of Hydrogen Europe

**09:25 - 09:40** How to speed up the path to Clean Hydrogen commercial viability

Martin Tengler, Lead Hydrogen Analyst, BloombergNEF

**09:40 - 10:30** Ministerial Round Table: Hydrogen and the recovery plans

Introductory Speech & moderation by Thierry Breton, European Commissioner for the Internal Market

- Andreas Feicht, State Secretary at the Federal Ministry for Economic Affairs and Energy, Germany
- João Pedro Matos Fernandes, Minister of Environment and Climate Action, Portugal
- Teresa Ribera, Deputy Prime Minister and Minister for the Ecological Transition, Spain
- Agnès Pannier-Runacher, Minister delegate for Industry, France
- Michael Dithmer, State Secretary for Industry, Denmark

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## 10:30 - 10:45 Keynote Speech

Frans Timmermans, Executive Vice-President of the European Commission responsible for the European Green Deal

## 10:45 - 11:00 Smart Talk: “Clean Hydrogen, climate neutrality and energy efficiency: what is the right mix?”

Stefaan Vergote, Adviser to the Director for Climate Strategy (DG CLIMA), European Commission

of Ad van Wijk, Professor Future Energy Systems, TU Delft, Netherlands

## 11:00 - 12:00 Panel discussion: Clean hydrogen for a green recovery

introduced and moderated by Ditte Juul Jørgensen, Director-General for Energy (DG ENER), European Commission

Panel members:

- The Hydrogen Valley perspective: Nienke Homan, Regional Minister for Energy Transition (a.o.), Province of Groningen, The Netherlands
- ITRE Committee perspective: Cristian-Silviu Buşoi, MEP, Chair of ITRE Committee
- The Renewables perspective: Francesco Starace, Chief Executive Officer, ENEL
- The Climate perspective: William Todts, Executive Director, Transport & Environment
- The Society perspective: Imke Lübbecke, Head of Climate & Energy, European Policy Office, World Wildlife Fund for Nature
- The Employment perspective: Luca Visentini, General Secretary, European Trade Union Confederation

## 12:00 - 12:25 Smart Conversation: “430€ billion invested in Hydrogen by 2030 - in what?”

Ditte Juul Jørgensen, Director-General for Energy (DG ENER), European Commission  
Marc Lemaitre, Director-General, Directorate General for Regional and Urban Policy  
Jorgo Chatzimarkakis, Secretary General, Hydrogen Europe

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**12:25 - 13:25 Panel discussion: European Clean Hydrogen Alliance - Vision and way ahead**  
introduced and moderated by Thierry Breton, European Commissioner for Internal Market

Panel members: 6 CEOs representing the clean hydrogen ecosystem

- Henrik Poulsen, CEO of Ørsted
- Marco Alverà, CEO of Snam
- Per Ekdunge, Vice president Powercell Sweden and CEO Powercell Germany
- Gabrielle Gauthey, CEO Carbon Neutrality Businesses, Total
- Manon van Beek, CEO of TenneT
- Konstantinos Xifras, CEO of DEPA

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**13:25 - 13:50 Break**

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**13:50 - 14:00 Message from the European Parliament**

Jens Geier, MEP, Rapporteur for “A Hydrogen Strategy for a Climate-neutral Europe”,  
ITRE Committee

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**14:00 - 14:15 Smart Talk: “What are the key areas for using hydrogen in decarbonisation?”**

Interview by Kerstin Jorna, Director-General for Internal Market, Industry,  
Entrepreneurship and SMEs (DG GROW), European Commission  
of Wendel Trio, Director, Climate Action Network Europe (CAN)

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**14:15 - 14:30 Smart Talk: “How to get green hydrogen from the place of production to the place of use”**

Interview by Tudor Constantinescu, Principal Adviser to the Director General for Energy,  
European Commission  
of Paul Hodson, Head of Unit for Energy Storage, Joint Research Centre of the European  
Commission

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## 14:30 - 14:40 Introductory Speech

Mariya Gabriel, European Commissioner for Innovation, Research, Culture, Education and Youth

## 14:40 - 15:45 Panel discussion: R&I to support and boost the development of the EU Hydrogen economy

introduced and moderated by Jean-Eric Paquet, Director-General for Research and Innovation (DG RTD), European Commission

Panel members:

- Christian Ehler, Member of the European Parliament
- Herald Ruijters, Director "Investment, Innovative and Sustainable Transport", DG MOVE, European Commission
- Marta Maroño, Senior Researcher, CIEMAT
- Jon-Andre Løkke, Chief Executive Officer, NEL
- Patrícia Vasconcelos, Chief Executive Officer, CaetanoBus
- Laurent Antoni, President, Hydrogen Europe Research

## 15:45 - 16:00 Smart Talk: "From Start-up to Shooting Star in 5 years!"

Interview by Patrick Child, Deputy Director-General for Research and Innovation (DG RTD), European Commission  
of Daniel Teichmann, Chief Executive Officer, Hydrogenious

## 16:00 - 17:10 Panel discussion: Financing Hydrogen projects

introduced and moderated by Kerstin Jorna, Director-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), European Commission

Panel members:

- Thierry Lepercq, Founder, Soladvent
- Johannes Lübking, Principle Advisor, Recovery and Resilience Task Force, Secretariat-General, European Commission
- Peter van Ees, Banker Renewable Energy, ABN AMRO
- Kees Koolen, Investor, Founder of Koolen Industries
- Shiva Dustdar, Head of Innovation Finance, European Investment Bank

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**17:10 - 17:25 Smart Talk: “What can we learn from the European Batteries Alliance?”**

Interview by Maive Rute, Deputy Director-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), European Commission

of Diego Pavia, Director, KIC INNO Energy

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**17:25 - 17:35 Wrap-up of the first day**

Kerstin Jorna, Director-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), European Commission

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**17:35 - 18:15 Virtual cocktail tables**

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FRIDAY, 27 NOVEMBER

Open for members of the European Clean Hydrogen Alliance ONLY

**09:30- 09:35**    **Opening Remarks**

Slawomir Tokarski, Director, Industrial Policy and Innovation, DG GROW, European Commission

**09:35 - 09:40**    **Welcome and moderation**

Jorgo Chatzimarkakis, Secretary General, Hydrogen Europe

**09:40 - 09:50**    **Important Projects of Common European Interest (IPCEI) on Hydrogen**

Demos Spatharis, Head of Unit for R&D&I, IPCEI and environment, DG COMP, European Commission

**09:50 - 10:00**    **National Calls for Expression of Interest - Status**

Christian Weinberger, Hydrogen Coordinator, DG GROW, European Commission

**10:00 - 10.10**    **ETS Innovation Fund - Status**

Christian Holzleitner, Head of Unit for Finance for Innovation, DG CLIMA, European Commission

**10:10 - 10:20**    **Question & Answer Session**

**10:20 - 12:30**    **Hydrogen projects in the pipeline**

Moderated by Christian Weinberger, Hydrogen Coordinator, DG GROW, European Commission

- Integrated European projects
- Clean Hydrogen Alliance Members' proposals (see Annex)

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12:30 - 13:00 Break

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13:00 - 13:50 Panel discussion on Setting-up the Roundtables of the Clean Hydrogen Alliance

Moderated by Mark Nicklas, Head of Unit, Industrial Strategy and Value Chains, DG GROW, European Commission

- Jorgo Chatzimarkakis, Secretary General, Hydrogen Europe
  - Walburga Hemetsberger, Chief Executive Officer, Solar Power Europe
  - Jan Ingwersen, General Director, European Network of Transmission System Operators for Gas (ENTSOG)
  - Petr Dolejsi, Director, European Automobile Manufacturers' Association (ACEA)
  - Willem Huisman, Senior Representative at Cefic
  - Giles Dickson, Chief Executive Officer, WindEurope
  - Federica Sabbati, Secretary General, European Heating Industry (EHI)
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13:50 - 14:00 Break

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14:00 - 17:00 Parallel sessions and Matchmaking exercise in B2Match

**Session A** Hydrogen projects in the pipeline (continuation of the morning session - see Annex)

Moderated by Christian Weinberger, Hydrogen Coordinator, DG GROW, European Commission

**Session B** Investors pitching (see Annex)

Introduced by Mark Nicklas, Head of Unit, Industrial Strategy and Value Chains, DG GROW, European Commission

Moderated by William Stevens, Founder, Tech Tour

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## 17:00 - 17:30 Final takeaways - Closing Panel discussion

Moderated by Slawomir Tokarski, Director, Industrial Policy and Innovation, DG GROW, European Commission

Panel members:

- William Stevens, Founder, Tech Tour
- Tudor Constantinescu, Principal Adviser to the Director-General for Energy
- Jorgo Chatzimarkakis, Secretary General, Hydrogen Europe
- Bart Biebuyck, Executive Director, Fuel Cells and Hydrogen Joint Undertaking (FCH JU)





## ANNEX

Selected Projects and Investors to pitch during 27<sup>th</sup> of November (Hydrogen Alliance Day)

### 10:20 – 12:30 Hydrogen projects in the pipeline (5 min. pitch per project)

- **Production of +1MWe FC power plants**, Hydrogene de France (HDF)
- **H2 Hub**, Port of Rotterdam, Gasunie
- **NEOSOLAR2H - CSP to H2**, INTECSA
- **eH2 for FlexMethanol**, BSE Methanol
- **Airport H2 Hub**, Airbus
- **HRS and compressors**, Maximator Hydrogen GmbH
- **Electrolyser Giga factory**, McPhy
- **Biomass-Syngas-H2**, ETGAS AS
- **Shunting locomotive new/retrofit to H2**, Operail
- **H2ColdChain - H2 Refrigerated semi-trailer**, Chereau
- **Project HyTrucks**, Air Liquide Group
- **Membrane for H2 separation in gas grid**, ONTRAS, DBI, GRT, DVGW, ENERTRAG
- **Rainbow Unhycorn - H2 Ecosystem**, PFA
- **H2 in ceramic industry**, Spanish Ceramic Cluster

### 14:00 – 17:00 Parallel Session A: Hydrogen projects in the pipeline (5 min. pitch per project – continuation)

- **HyFor - Steel prototype for DRI on H2**, Primetals
- **High power density Power Conversion Unit**, FRIEM
- **H2 cell recycling center**, Royal Bees Recycling, Rank Progress Group
- **Alkaline Electrolysers' RD&I**, John Cockerill
- **H2 EU-ROPAX ferry**, DFDS
- **Production of SO reversible electrolysers**, Schlumberger, Genvia
- **HyGreen - H2 Ecosystem**, Engie, AirLiquide, dlva
- **Lacq Hydrogen - ES-FR integrated PtP project**, Teréga consortium
- **Hot2Grid - 10MW steam SOE**, Verbund Thermal Power, SunFire
- **FC StackPack for road mobility**, Symbio

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- **High pressure (onboard) STORAGE for mobility**, Faurecia
- **GREENH2F - Production of green ammonia**, IBERDROLA, FERTIBERIA
- **Green H2 production and storage (salt cavern)**, VNG, ONTRAS, Uniper, Terrawatt, DBI
- **H2 Ecosystem**, Eesti Energia AS
- **eFuels for Denmark**, Ørsted
- **HYNOVI - Decarbonising the cement industry (CCS to eMethanol)**, Hynamics
- **GET H2 Nukleus - green h2 for repurposed gas grid**, RWE Generation SE
- **H2 Ecosystem in Port of Sines**, EDP, ENGIE, GALP REN, MARTIFER, VESTAS
- **Surface engineering processes for fuel cell and electrolysis components**, VON ARDENNE GmbH
- **Convert SMR to bio-methane+CCS for eFuels**, PKN Orlen
- **Production of "circular H2" by gasification of wastes (syngas)**, NextChem, Maire Tecnimont group
- **HYDROMITE: first larger-scale pilot plant of H2 from natural gas and biogas**, Hydrogenius
- **High efficiency gas turbine able to run on 100% H2**, Aurelia Turbines Oy
- **Large green H2 production and storage coupled with CAES for maximum load factor**, Corre Energy BV
- **Production of synthetic fuels (kerosene)**, Norsk e-Fuel AS, Sunfire
- **H2 drones**, SKYCORP OÜ
- **Steel DRI with clean H2**, Thyssenkrupp Steel Europe AG
- **Containerized Fuel Cell Power Plant for Industry (APEX)**, Proton Motor Fuel Cell GmbH
- **Green H2 for CCGT power plant, glass industry and mobility**, Turbogas, Engie

## 14:00 – 17:00 Parallel Session B: Investors Pitching (5 min. pitch per investor)

- **Overview of European Investment Bank**
- **European Institute of Technology, Accelerator Centre**
- **Corporate**
  - Enagas
  - Acciona
  - Soladvent
- **Venture Capital**
  - btov Partners
  - AP Ventures
  - Capricorn Partners
- **Private equity/later stage:**
  - Marguerite
  - Energy Impact Partners (EIP)
  - APG Asset Management

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- **Banks:**

- ABN Amro
- Bayerische Landesbank
- Bryan, Garnier & Co.