

Forum Agenda | What to expect in 2022

2-Day in-person hybrid event in London, continuing to build progress from COP26: Connecting and engaging hydrogen leaders, investors and policymakers from across the world in an in-person and online format to unify a global hydrogen value chain

2022 Themes

- ✚ Taking Action on Hydrogen commitments: Progress from COP26
- ✚ Hydrogen's role in the transition to clean energy
- ✚ Standardizing Hydrogen production with respects to grey, blue and green Hydrogen
- ✚ Policy required to ensure an efficient transition
- ✚ Scaling up of Hydrogen production and renewable energy to enable growing Hydrogen economies
- ✚ Public and commercial investment to facilitate infrastructure and connect the Hydrogen value chain
- ✚ The difficulties and possibilities surrounding mass production and transport of Hydrogen
- ✚ Hydrogen valleys: concept and where applicable
- ✚ Decarbonisation of heavy industry
- ✚ Hydrogen in the future of mass transport
- ✚ The transition from oil and gas including the importance of just transition

Session 1 - The Role of Hydrogen in the Clean Energy Transition

Policy and technology innovation have the power to build global clean energy industries. With a global energy sector in flux, the versatility of hydrogen is attracting stronger interest from a diverse group of governments and companies.

9:00

Opening Remarks

9:05

Welcome Address

What is the role of hydrogen in the energy transition and what can be done to facilitate its integration?

Countries across the world are looking to hydrogen to play a key role in the transition to clean energy. It's a complex role, part of a highly integrated supply chain, with myriad touch points; from the potential to utilise excess renewable electricity, as a replacement in our natural gas pipelines and in fuel cells in heavy vehicles. By 2050, hydrogen could form a significant part of

the energy mix in a decarbonised energy system. And, given the current high cost of fossil fuels, hydrogen may finally be reaching competitiveness.

9:15

Opening Keynote

9:25

Panel Discussion: The role of governments in ensuring hydrogen can deliver as a part of the clean transition energy mix

There is currently unprecedented political momentum surrounding hydrogen, with the number of policies and projects around the world expanding rapidly. Support is coming from governments that both import and export energy, and many are working towards establishing a role for hydrogen in their long-term energy strategies. What we need are policies that create sustainable markets for clean hydrogen, especially to reduce emissions from fossil fuel-based hydrogen, and which underpin investments by suppliers, distributors and users.

10:10

Climate Leaders Live

10:30

Government Insight Keynote

10:40

MORNING BREAK

Day 1 | Wednesday 20 April 2022

Session 2 - Hydrogen Production & Supply

11:15

Market Insight: Global supply chains

11:25

Keynote

11:35

Climate Leaders Live

11:55

Panel Discussion: Localised production vs. import from country with oversupply of renewables

Natural gas is currently the primary source of hydrogen production, accounting for around three quarters of the annual global hydrogen production of around 70 million tonnes. With declining costs for solar PV and wind generation, building electrolyzers at locations with excellent renewable resource conditions could become a low-cost supply option for hydrogen. However, this opens up issues around the transmission and distribution costs of transporting hydrogen and fuel security.

12:25

Climate Leaders Live

12:45

Keynote

12:55

Networking Lunch

Day 1 | Wednesday 20 April 2022

Session 3 – Finance, Funding & Investment

14:00

Market Insight: Current low levels of investment in renewables, what can be done to attract investment to hydrogen projects?

14:10

Keynote

14:20

Climate Leaders Live

11:55

Panel Discussion: Funding and investment opportunities

15:05

Climate Leaders Live

15:25

Afternoon Break

Day 1 | Wednesday 20 April 2022

Session 4 - Infrastructure

15:50

Climate Leaders Live

16:10

Innovation Insight

The cost, feasibility and carbon footprint of transporting hydrogen, is one of the important barriers to overcome to gain a clear view of what a hydrogen economy will look like. Identify the key technologies and methods (methane/ammonia + cracking/compressed hydrogen) and explore comparisons between future shipping scenarios.

16:20

Panel Discussion: How can governments and the private sector work together to deliver the infrastructure needed?

While many users now have hydrogen-ready appliances and the cost of producing hydrogen is falling, in Europe the likely bottle neck will be the lack of terminals and a distribution network. How will infrastructure developments keep up with projections in demand? Can we repurpose gas grids? What is the role of ports and terminals?

16:55

Keynote / Interview: Japanese case study on LNG and lessons learned for hydrogen infrastructure

17:10

Day 1 Closing Remarks

17:15

End of Day 1

Day 2 | Wednesday 21 April 2022

Session 5 - Standards, certification and thresholds for “clean” hydrogen

9:00

Opening Remarks

9:05

Market Insight: Defining standards for the hydrogen rainbow and exploring their international application

9:15

Panel Discussion: the case for blue hydrogen in transition vs. straight to green hydrogen

10:00

Climate Leaders Live

10:20

Keynote

10:30

MORNING BREAK

Day 2 | Wednesday 21 April 2022

Session 6 - Demand side: Heavy Industry

11:00

Market Insight

There is a strong case for the application of hydrogen as a decarbonisation fuel for heavy industry, with fewer alternatives and fossil fuels getting more expensive, hydrogen is becoming competitive.

11:10

Keynote

11:20

Panel Discussion: Users including, refineries, chemical industry, steel & power generation, debate the pros and cons of hydrogen in an industrial environment

12:05

Climate Leaders Live

12:25

Keynote

12:35

Networking Break

Day 2 | Wednesday 21 April 2022

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Climate Leaders Live

12:25

Keynote

12:35

Networking Break

Day 2 | Wednesday 21 April 2022

Session 7 - Demand side: Heavy Transportation

13:45

Innovation Insight: expanding hydrogen in transport through fleets, freight and corridors.
Powering vehicles through the growing competitiveness of fuel-cells.

14:00

Keynote

14:10

Panel Discussion: AFIR: co-ordinating the roll out of hydrogen refuelling stations within the EU's
Alternative Fuels Infrastructure Regulation (AFIR)

14:55

Climate Leaders Live

15:15

Keynote

15:30

Afternoon Break

Day 2 | Wednesday 21 April 2022

Session 8 - Demand side: Heat for Buildings

15:45

Panel Discussion: Sharing lessons learned from pilots across Europe and discussing next steps
on the road to hydrogen in heat

16:30

Keynote

16:40

Closing Remarks

16:45

Afternoon Break