Hydrogen TCP updates *(since December 2021)*

Don’t forget to follow us on Twitter ([@IEA_Hydrogen](https://twitter.com/IEA_Hydrogen)) and LinkedIn ([IEA Hydrogen TCP](https://linkedin.com/company/iea-hydrogen-tcp)) to be up to date with all our activities!

### Task Updates

#### NEW OPEN TASKS!

**Task 43: Safety and RCS of Large Scale Hydrogen Energy Applications**

At our last 89th ExCo Meeting, the ExCo approved the implementation of Task 43 on Safety and RCS of Large Scale Hydrogen Energy Applications. The Kick-off Meeting took place on June 27th.

Task 43 section on the website will soon be ready.

Stay tuned for more

**Task 42 - Underground Hydrogen Storage**

51 organizations, represented by +100 experts, are part of this Task. Their expertise and expected contributions were presented in five intensive and well-attended subtask kick-off meetings. The lead positions for subtasks A to E are now fulfilled by ten enthusiastic experts with different backgrounds from universities, research institutes and industry.

1st International Summer School on Underground Hydrogen Storage was hosted by TU Delft from 11-14 July.

Learn more
Task 41 - Data and Modelling
Task 41 has recently published a blog entry with new inputs from the Task.

Learn more

Task 40 - Energy Storage and Conversion based on hydrogen
Task 40 has submitted 7 reviews to Progress in Energy, IOP Publishing:
- 4 articles are online in the final version,
- 1 as an accepted manuscript,
- 2 are currently under revision/review:

Learn more

- Metallic and complex hydride-based electrochemical storage of energy (article)
- Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties (article)
- Hydride-based thermal energy storage (article)
- Hydrogen storage in complex hydrides: past activities and new trends (article)
- Research and development of hydrogen carrier-based solutions for hydrogen compression and storage (manuscript)

Tasks in definition
Tasks in definition Renewable Hydrogen, Offshore Hydrogen Production, Hydrogen from Nuclear Energy, and Hydrogen Export value Chains are currently in the Project Definition Phase and they are still open for new Expressions of Interest from experts.

Two new Tasks in definition have started the Project Definition Phase this June: “Hydrogen Certification” and “Natural Hydrogen”, calls for Expressions of Interest will be launched soon.

The work definition for a new task on Hydrogen from Nuclear Energy has been discussed and exchanged during three virtual brainstorming meetings in end-March and April 2022. It gathers over 60 experts worldwide, interested to get involved and make that subject progressing. It was reported during the Hydrogen TCP ExCo Meeting in May. The next process is now to confirm the Task participants and quickly get the Kick Off meeting.

Learn more

Member Updates
- **Austria** presented its hydrogen strategy in June 2022, with includes measures for replacing fossil-generated hydrogen with green hydrogen or building up 1 GW of electrolysis capacity. [Learn more.]
- **Belgium** approves the creation of a Hydrogen Specialisation Center and Test Facility. [Learn more.]
- **Denmark.** The Danish Government launched the Power-to-X strategy at the beginning of 2022 for the production and use of green hydrogen in hard-to-abate sectors like shipping and aviation as well as heavy road transport and industry. [Learn more.]
- **European Commission** presented on 18 May 2022 the REPowerEU Plan, to rapidly reduce dependence on Russian fossil fuels and accelerate the green transition. [Learn more.]
- **Germany.** Steelmaker Salzgitter AG reports a record efficiency of 84%
for green hydrogen production using the world’s largest SOEC electrolyzer (720kW) from the Dresden-based company Sunfire. Learn more.

- **Norway.** Enova supports hydrogen projects in the maritime sector with 1.12 billion NOK. Learn more.

- **NOW GmbH** launched a new website with information on fuel cell and hydrogen RCS topics and also published an authorization guide for hydrogen refuelling stations. Learn more.

- **Spain.** His Majesty the King inaugurates Iberdrola’s green hydrogen plant in Puertollano, the largest for industrial use in Europe. Learn more.

- **The Netherlands.** The cabinet presented a draft Climate Policy Programme to achieve at least 55% CO2 reduction by 2030, with a purchase obligation for hydrogen from renewable sources in the industry from 2026 and various subsidy options to scale-up electrolysis. Learn more.

- **The United Kingdom** doubled its hydrogen production ambition to 10GW by 2030, ahead of opening its £240m Net Zero Hydrogen Fund for applications from projects in April and in advance of opening the first allocation round for electrolytic projects under its Hydrogen Business Model and Net Zero Hydrogen Fund. Learn more.

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**Publications**

- **Document repository** updated with relevant IEA Network documents
- Check our Blog with summaries of our latest events

You can access all publications here.

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**Events**

**Hydrogen Online Workshop**

On the 3rd of March took place the Hydrogen Online Workshop in which Paul Lucchese presented "How to overcome the main hurdles for massive hydrogen deployment"

Learn more

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From May 16th to 18th, Madrid celebrated the EHEC 2022. The Hydrogen TCP presented in two parallel sessions and coordinated and chaired Plenary session 2 "Towards the Hydrogen Economy, Where we are. What we need"

Learn more

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**Hydrogen 2022 - Reuters**

On the 9th of June, Paul Lucchese participated in the second panel of Ammonia and International Agreements in the roundtable "International Collaboration in Shaping the Hydrogen Economy". The Hydrogen TCP collaborated in the event as an insight partner.
Our Technical Secretariat Coordinator presented in Panel 5 "Technology Challenges" how the Hydrogen TCP is the key to international R&D collaboration to face and solve the challenges of the hydrogen value chain, during the World PtX Summit, Marrakech, 22nd-24th June.

**World P-t-X Summit**

A joint international workshop co-organized between International Atomic Energy Agency (IAEA), IEA Hydrogen TCP and Commissariat à l’énergie atomique et aux énergies alternatives (CEA) has taken place in Aix-en-Provence from 22nd to 24th of June.

**International Workshop on the Role of Low Carbon Hydrogen for a Net Zero Energy System - Aix-en-Provence, France**

The Hydrogen TCP participated in the World Hydrogen Energy Conference celebrated in Istanbul from 26th to 30th of June. Our participation was in Parallel Session 10 - Room 4, Track 16, presenting "The International Energy Agency’s Hydrogen Technology Collaboration Programme for WHEC 2022”

**World Hydrogen Energy Conference (WHEC 2022)**

Stay tuned for all the news about our partner events in 2022... check out our calendar!

Hydrogen TCP Executive Committee Meetings:

- The **89th ExCo Meeting** took place in Madrid and online on May 16-17.
90th ExCo Meeting
September 27, 28 and 29 from 12:00 to 14:00 CEST

*Only ExCo Members and invited Observers can participate in the ExCo Meeting

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