Hydrogen TCP updates (since July 2022)

Don’t forget to follow us on Twitter (@IEA_Hydrogen) and LinkedIn (IEA Hydrogen TCP) to be up to date with all our activities!

Task Updates

NEW OPEN TASKS!

Task 44 - Hydrogen from Nuclear Energy

At the last 91st ExCo Meeting, the ExCo approved the implementation of Task 44 on Hydrogen from Nuclear Energy. This Task aims to identify and provide analysis on the development of Hydrogen production from Nuclear Energy. Task is not defined to promote Nuclear Energy but to identify in what situation and according to which conditions, nuclear energy could be one of the solutions to the massive production of hydrogen and consequently of high value products with the optimized synergy of the use of renewables energies.

Task 44 section on the website will soon be ready.

Stay tuned for more

Task 43 - Safety and RCS of Large Scale Hydrogen Energy Application

Hydrogen Council has recently completed a detailed analysis of safety and regulatory topics that are critical for significant market share penetration of hydrogen energy technologies. These critical topics included large-scale compressed and liquid hydrogen systems, safety culture and management systems, uniform methodologies for safety distances and
Task 42 - Underground Hydrogen Storage

This task is supported by 54 industrial, technical, academic, and governmental organizations that are dedicated to realizing and implementing Underground Hydrogen Storage (UHS) as a technically, economically, environmentally, and societally viable technology in the future sustainable energy system. Can learn more about the recent activities and the outlook for 2023 in the latest TCP-Task42 newsletter. Besides the 2022 International Summer School on Underground Hydrogen Storage at TU-Delft and the TCP-Task42 workshop at the premises of the Clean Hydrogen Partnership, we have also contributed to the Australian Industry Workshop on Hydrogen Storage at Curtin University. It is expected to publish the first UHS Technology Monitor Report in Q1 of 2023. There is a LinkedIn Group to join to stay updated on the Task activities and to receive the next newsletters.

Task 41 - Data and Modelling

In 2017 there were fears that energy professionals would not appreciate the hydrogen opportunity due to shortcomings in modeling. As the industry stands in 2023 it is clear that modeling, including the IEA’s reports on hydrogen, is no longer a constraint. Everyone now appreciates that “electricity is almost everything, and for everything else, there is clean hydrogen”.

A Final Report for Task 41 is planned for approval and publication by 31 March 2023.

- The journal article, “A taxonomy of models for investigating hydrogen energy systems”, was published in the October 2022 issue of Renewable and Sustainable Energy Reviews.

- The collaboration with IEA ETSAP resulted in the online copy of the final report for this work: available as of August 2022, find it here.

Task 40 - Energy Storage and Conversion based on hydrogen

Task 40 summarized their work during the first 3-year period in a journal collection of IOP Progress in Energy.
Tasks in definition

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

Learn more

Member Updates

- **China.** The Chinese government released a plan for the development of hydrogen energy for the 2021-2035 period as the country races toward its carbon peaking and neutrality goals. Learn more.

- **Denmark.** Renewable energy firm Orsted intends to invest in a large-scale facility in Denmark to produce green hydrogen, considered a cornerstone of the shift to cleaner energy. Learn more.

- **European Commission** approved on 21 September 2022 under EU State aid rules, a second Important Project of Common European Interest (‘IPCEI’) to support research and innovation, the first industrial deployment and construction of relevant infrastructure in the hydrogen value chain. Learn more.

- **Germany.** The German government has launched a 900-million-euro auction scheme for green hydrogen imports. The idea of the so-called H2 Global mechanism is to procure the fuel on the world market and sell it within the EU to the highest bidder. Learn more.

- **Italy.** During the 2nd half of 2022, the Italian Government funded a big program: The IPCEI Hy2Tech and Hy2Use programs, with 10 industrial projects and 2 R&I projects presented by research organizations. Learn more.

- **Japan.** The Ministry of Economy, Trade, and Industry (METI) and the New Energy and Industrial Technology Development Organization (NEDO) held the Fifth Hydrogen Energy Ministerial Meeting, in cooperation with the International Energy Agency (IEA), as a part of Tokyo GX week, on September 26, 2022. Learn more.

- **New Zealand.** 2022 saw the first actual deployment of hydrogen vehicles for heavy-duty freight applications and the rollout of the first fuelling stations towards a wider network to support the deployment of FC heavy vehicles. Learn more.
Norway. Equinor and RWE have agreed to work together to jointly develop large-scale value chains for low-carbon hydrogen, building on the partnership between Norway and Germany. Learn more.

Portugal. The Minister for Infrastructures and Housing, Pedro Nuno Santos, headed the ceremony concerning the signing of the Memorandum of Understanding among the partners comprising the H2Sines.RDAM Project, which aims at developing a Green Hydrogen logistic maritime corridor connecting the ports of Sines and Rotterdam. Learn more.

Spain. The Green Hydrogen Hub (H2Green La Isla) in Seville aims to contribute to the reduction of CO2 emissions, and it will be a pioneer and reference project that will contribute significantly to the hydrogen roadmap and the deployment of the sector in Andalusia. Learn more.

The Netherlands. Seven hydrogen projects in the Netherlands have received a subsidy of almost €800 million from the second wave of Hydrogen Important Projects of Common European Interest (IPCEIs). 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.

Publications

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

You can access all publications here.

Events

**G7 Hydrogen Action Pact Workshop, organized by IRENA**

On the 7th of July took place the G7 Hydrogen Action Pact Workshop via online where Paul Lucchese, Hydrogen TCP Chair, presented “Hydrogen TCP work on safety and certification”.

Learn more

**Clean Hydrogen Mission Workshop R&I: Opportunities, Challenges and Way Ahead**

Hydrogen TCP Chairman, Paul Lucchese, delivered the talk “Main challenges for rapid hydrogen deployment” in the frame of the Clean Hydrogen which was celebrated throughout August 4th.

Learn more

"Hydrogen Economy Development in Ukraine"

On August 4th the TCP Technical Secretariat Coordinator, Marina
Holgado, held an online potency presenting the TCP.

The State Agency on Energy Efficiency and Energy Saving of Ukraine together with the business community “Energy Club” hold a series of highly specialized professional discussions on ways to develop the hydrogen economy in Ukraine.

IEA Transport Coordination Group Meeting 2022
Paul Lucchese, chair of the Hydrogen TCP, delivered a general update on the Hydrogen TCP’s status in the annual meeting held at the International Energy Agency in Paris on the 6th of September.

IEA Hydrogen TCP Task 40
María Pilar Argumosa Martínez, Spanish ExCo Representative, explained at Task 40 in-person meeting the Spanish contribution to the Hydrogen TCP, on the 21st of September in Madrid.

“Clean Hydrogen: A Call for Action”
Paul Lucchese participated in the second panel of the side event “Clean Hydrogen: A Call for Action” in the Global Clean Energy Action Forum which took place on the 22nd of September in Pittsburgh.

H2LAC 2nd Hydrogen Congress for Latin America & the Caribbean
On the 4th of October Marina Holgado, Technical Secretariat Coordinator participated in the panel “Form pilot to commercially-viable projects: how do we leap”.

World Hydrogen Congress
Hydrogen TCP vice-chair Marcel Weeda, chaired the Stream A “Low-Carbon Hydrogen Production” on the 11th of October in the World Trade Centre in Rotterdam.

82nd REWP Meeting
On the 18th of October Marina Holgado, Technical Secretariat Coordinator presented the Annual Briefing from 2022.
MONACO HYDROGEN FORUM
Paul Lucchesse, IEA Hydrogen TCP Chair, participated in one of the Panel Conversations with the theme “Innovation Hubs: building centers of excellence in transportation and renewable hydrogen” on the 21st of November.

Learn more

EU4ENERGY POLICY FORUM: HYDROGEN
Omar Rubio, Technical Secretariat Assistant, presented an “Introduction to the Hydrogen TCP” on the 22nd of November.

Learn more

Introduction to the Hydrogen TCP - Spanish Hydrogen Association 20th Anniversary
HTCP Technical Secretariat Coordinator, Marina Holgado, presented the program’s activities during the 20th Anniversary event of the Spanish Hydrogen Association (AeH2) which was held on November 22nd in Madrid.

Learn more

Stay tuned for all the news about our partner events in 2023... check out our calendar!

Hydrogen TCP Executive Committee Meetings:

- The 90th ExCo Meeting took place on 27-29 September via Online.
- The 91st ExCo Meeting was held in Paris & Online on December 15-16.

Learn about the past and planned ExCo Meetings here.

UPCOMING Hydrogen TCP Executive Committee Meetings
*Only ExCo Members and invited Observers can participate in the ExCo Meeting

Visit the Hydrogen TCP website

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