

HC-H2

Hydrogen News Issue 2 | 2025

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Dear reader,

For this second edition of the HC-H2 newsletter in 2025, I have once again found many interesting topics that are worth reporting on. And the best thing about it is that there are almost as many photos and decorative images to accompany the articles. In fact, many more of the selected articles fall into the 'good news' category, as there is so much positive news to report.

There is also a lot going on at HC-H2 and the Institute for a Sustainable Hydrogen Economy (INW). We are pleased to report that the last of four scientific institute divisions at INW now has a managing director. The founding phase is complete and, with the launch of INW-3, which is working on designing high-performance reactors for chemical hydrogen storage, the INW-1 to INW-4 departments can now work closely together. In addition, colleagues from the INW have won the AC² (Aachen start-up competition) start-up competition in the 'Business Plan' category. Their 7EX technology electrochemically extracts lithium carbonate from a wide variety of lithiumcontaining waters.

There are many other great projects in the Rhenish mining area, and the hydrogen rampup continues to gather momentum. The submission of the H2Valley RheinRuhr could establish the Rhine-Ruhr region as a showcase region, the Chambers of Industry and Commerce in Aachen, Cologne and the Middle Lower Rhine are calling for speed in the hydrogen ramp-up, and the H2 networks from North Rhine-Westphalia are joining **forces** on the initiative of the H2.NRW hydrogen control centre to develop joint strategies.

So there's no chance of getting bored, and I hope you enjoy reading!

Yours Vanessa Düster, HC-H2 Network

Good News

Green ammonia – flexible, cost-effective and climate-friendly



terms of load, i.e. to keep pace with fluctuations in renewable energy sources. This will make it possible to operate existing plants, which are designed for continuous operation, flexibly by means of intelligent pressure control in the ammonia loop. Read more **Strong hydrogen partners for the Rhine-Ruhr region**

Hydrogen Valley

Six leading hydrogen networks on the Rhine and Ruhr have come together with the significant involvement of a number of relevant players from the Rhineland region and, under the coordination of vgbe energy e.V., submitted an application for funding at the end

of April to establish a showcase region under the name H2Valley RheinRuhr (H2V **RR).** The NRW state government and a total of over 50 other stakeholders supported the project. Read more

HC-H2 Close Up

Appointment of the head of the third institute division INW-3



position of Director of the Reaction Engineering for Chemical Hydrogen Storage (INW-3) institute division on 1 May. This means that the four scientific institute divisions of the INW are now headed by renowned researchers. Read more **Lithium extraction reimagined – and awarded!**

Forschungszentrum Jülich has been completed. Prof. Peter Wasserscheid took up the



carbonate from a wide variety of lithium-containing water sources – from reverse osmosis process water and seawater to geothermal and oil brines. This enables 100% renewable energy at lower costs than conventional extraction and with minimal impact on ecosystems. In addition, regional sources strengthen the supply chains of Europe's battery and e-mobility industries. Read more **HC-H2** Brainergy Park Connect



one, but two fantastic presentations. Read more A system for clean heat

behind jüWork and jüLife? These and other exciting questions were answered at our HC-H2 Brainergy Park Connect event. The 23rd edition of this format featured not just



technical centre at Brainergy Park is now driving activities forward Read more Focus on the Rhenish Mining Area

DeVer (dehydration heated by catalytic combustion). Its delivery last week to the

Have you ever wondered what Brainergy Park is all about and how it came about? The two Brainergy ambassadors, Heinrich Stommel, mayor of Jülich until 2015, and Hermann Heuser, mayor of Niederzier until 2020, will explain exactly that! They have been involved from the very beginning and offer regular free guided tours for all citizens. Find out about local companies and processes in the industrial park of the energy

Through the park with the Brainergy ambassadors

transition and see the construction progress for yourself. Read more **Faster ramp-up of hydrogen** What could further accelerate the hydrogen economy in the Rhineland region, and how can market and regulatory barriers be overcome more quickly? The Chambers of Industry and Commerce in Aachen, Cologne and the Middle Lower Rhine region have addressed

these issues and, in close cooperation with companies and regional distribution network operators, have drawn up a list of demands. This contains the most important

areas where action is needed. A unique energy system

The excavators are digging again! Construction of the innovative LOW-Ex energy network at Brainergy Park Jülich can finally begin. Guests from politics, business and science accepted the invitation of Brainergy Park Energie GmbH (BPE) to attend the

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HC-H2 Documentary Series Who am I?

symbolic ground-breaking ceremony for this unique energy project.

ANHYDROUS AMMONIA "I am a hydrogen storage medium and plant aid. As a colourless gas, I smell slightly like cleaning products and tickle the nose when inhaled. I am also produced during the conversion of excrement, for example from farm animals. For about 100 years, I have been produced on an industrial scale from hydrogen and nitrogen using the Haber-Bosch process. I am also used in the manufacture of fertilisers and as a refrigerant. I am ammonia!"

Events Climate protection fair was a resounding success

Read more







Around 150 visitors attended the rally and celebration at Shaft 3 in Hückelhoven on 1 May. Structural change and hydrogen were two of the topics that took centre stage at the event organised by the Heinsberg district association of the German Trade Union

Confederation (DGB). HC-H2 took advantage of this opportunity to introduce itself and provide information material. Read more **Upcoming Events**

Pasqualini Festival 01. – 03. August 2025, Schlossplatz Jülich Hy.Summit.Rhein.Ruhr

08. July 2025, Essen

Tag der Neugier 07. September 2025, Forschungszentrum Jülich

01. - 02. September 2025, Ruhrgebiet

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Renewable Energy Congress: New adjustments in the 2025 election year?

top