HC-H2 Helmholtz-Cluster Wasserstoff

HC-H2

Hydrogen News

Issue 03|2024

Dear reader,

Brainergy Park continues to grow and an increasing number of activities are taking place. Where there was nothing but wasteland until recently, you can now watch excavators and trucks at work every day, building production halls, office buildings, and experimental areas. Soon, it will be possible to produce **“Hydrogen, made in Jülich”** directly at Braingery Park.

In today’s issue of the HC-H2 Newsletter, we would like to give you an insight into the **regional hydrogen activities** in the Rhenish mining area and invite you to visit an **information centre in Düren’s town centre**. We also report on the latest events, including the **visit of readers of the local newspaper Aachener Zeitung** to Brainergy Park. And this time, there are also a few new political developments regarding hydrogen.

Would you like to receive regular updates on hydrogen activities in the Rhenish mining area? Then **subscribe to our newsletter** here, visit our **website** or follow us on **LinkedIn**.

We hope you enjoy reading this newsletter.

Yours, Vanessa Düster, HC-H2 Network

Good News

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A Big Step for H_2 Production at Brainergy Park

The site on which **HyDN GmbH’s future hydrogen production plant** will be built is around 17,500 square metres in size. The groundbreaking ceremony took place at the beginning of July and the production of green hydrogen, for which the solar power generated at Brainergy Park will be used, is scheduled to start in autumn 2025. The plant will produce up to 180 kilograms of hydrogen per hour at a capacity of ten megawatts, primarily for the mobility sector. HyDN GmbH is owned equally by the **district of Düren** and der **Messer Industriegase GmbH (MIGG)**, which is responsible for the storage, filling, and quality control of the hydrogen produced. **NEUMAN & ESSER** is supplying the two NEA|HYTRON PEM electrolyzers required for the production and two NEA|HOFER membrane compressors for the compression of the hydrogen. ► Read more

New Hydrogen-Related Developments

In recent weeks, there have been a number of activities concerning, for example, the hydrogen core network, the approval of electrolyzers, and the H2 import strategy. The transmission system operators have submitted an **application for the hydrogen core network** to the **Federal Network Agency (BNetzA)**, which includes pipelines with a total length of 9,666 km. These pipelines will be gradually put into operation between 2025 and 2032. The **“Import Strategy for hydrogen and hydrogen derivatives”** was adopted in addition to the **Nationalen Hydrogen Strategy** to provide a framework for the necessary import of hydrogen and its derivatives from abroad. Finally, the **third ordinance amending the ordinance on installations requiring a permit (Fourth Ordinance for the Implementation of the Federal Immission Control Act – BImSchV)** aims to speed up and simplify the approval of electrolyzers for H2 production.

HC-H2 up close

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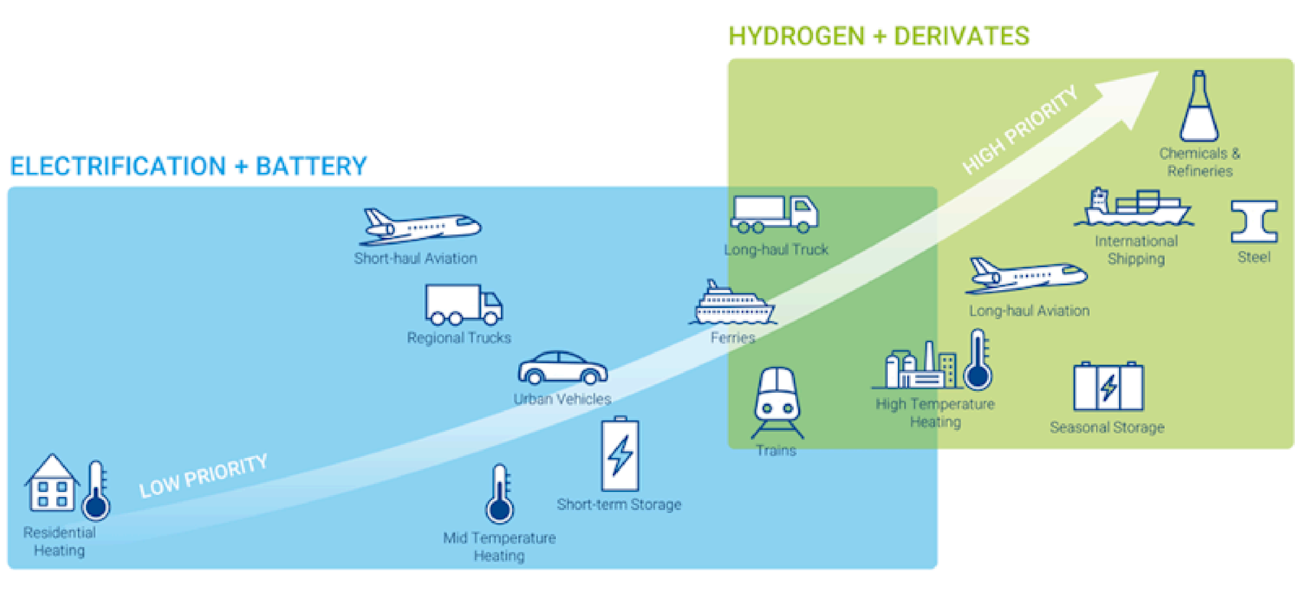
Hydrogen as a pillar for the energy system of the future

Hydrogen has been many things in the public debate: blue, turquoise, green, white, expensive champagne, overrated hype or a Swiss army knife. Peter Wasserscheid, founding director of the INW and spokesperson for our Helmholtz Hydrogen Cluster (HC-H2), establishes a different perspective in this interview: Even if green hydrogen is still comparatively expensive today, this **does not contradict the fundamental importance** of the molecule for the energy system of the future. ► Read more



HC-H2 Science Spotlight

The main objective of the HC-H2 Science Spotlight event format is to communicate (discipline-specific) scientific findings. As part of a **regular seminar, the latest scientific findings from hydrogen research** on topics in the fields of sustainable hydrogen production, storage, and application are discussed. In addition to providing external expertise, it also offers a format for discussing your own work with expert guests and identifying potential cooperation opportunities. The seminar is also open to non-INW employees. Our last guest speaker was Prof. Dr.-Ing. Richard Hanke-Rauschenbach from Leibniz University Hannover, who gave us an interesting insight into his research on the topic of “Green LH2 Supply in Future Air Traffic Networks”. The seminar is held in hybrid form and is open to anyone interested. Click **here** to register for the next seminar. ► Read more

HC-H2 Brainergy Park Connect

The HC-H2 Brainergy Park Connect series of events is helping to further develop Brainergy Park Jülich (BPJ) as a highly visible cutting-edge location for research, technology development, start-ups, and high-tech production in the fields of hydrogen and clean energy technologies. The group of participants is limited to important stakeholders at Brainergy Park and current Brainergy Park neighbours, as well as those who (potentially) wish to become stakeholders or neighbours. A **monthly working lunch is held to promote networking, gain a deeper understanding of each other’s processes and goals**, and discuss topics relevant to the location. At the beginning of July, we were invited to the start-up village for an introductory presentation by Ingmar Stock. The August event was then held again on the HC-H2 premises, where Prof. Hans-Georg Steinrück gave us an overview of INW-1’s research activities.

Focus on the Rhenish mining area

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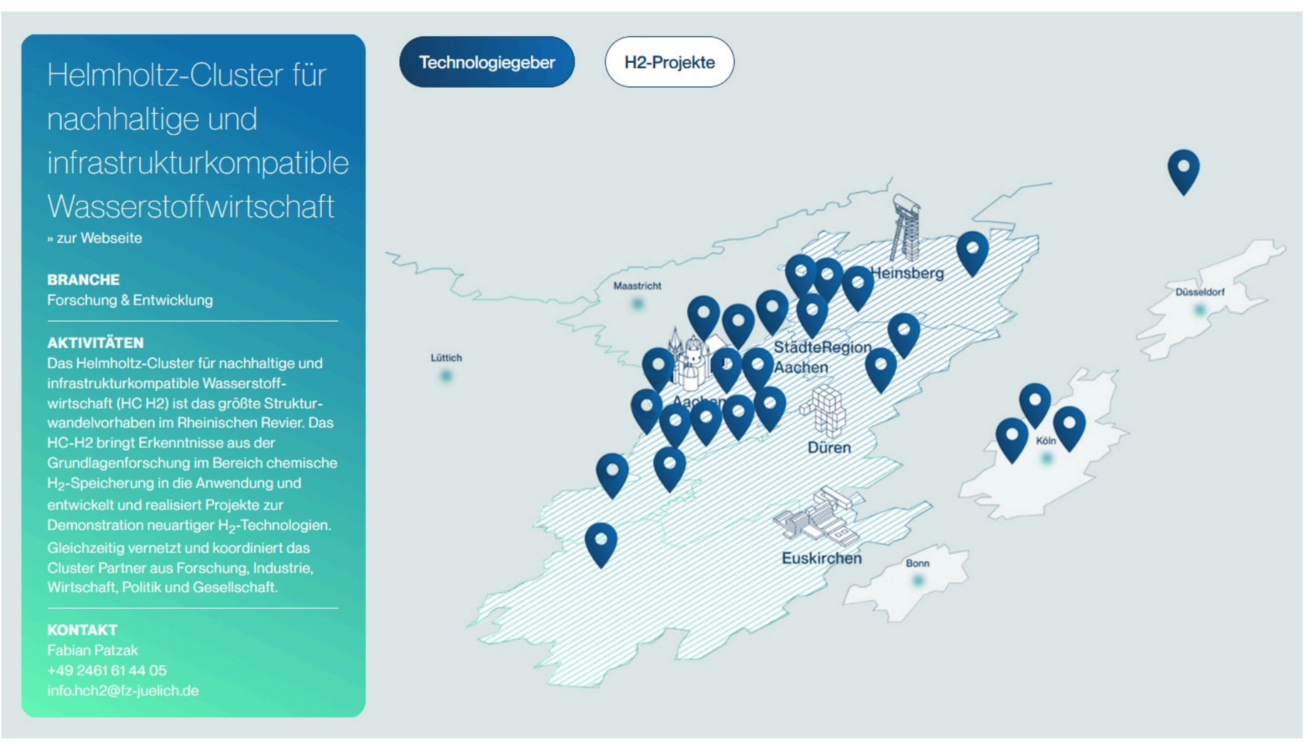
Hydrogen Activities in the Region

With **HYDROGEN HUB Aachen** the initiators of the hydrogen network are moving into high gear: the city of Aachen and **its surrounding region** as well as the **districts of Düren**, **Euskirchen** and **Heinsberg** aim to become a hydrogen model region together. On an **interactive map, you can see where the hydrogen activities** are located in the region, along with a brief explanation and the relevant contact details. You can also find **Forschungszentrum Jülich** as well as the HC-H2 there. IHK Aachen is coordinating the activities with the support of **AGITmbH**. The objectives of the cooperation include generating added value in the region, creating new jobs, and becoming a sustainable hotspot for the German hydrogen economy. Interested companies that are active in the field of hydrogen are welcome to contact **info@hydrogenhubaachen.de**. ► Read more



A Hands-on Hydrogen World in Düren

Following an intensive discussion of the topic of hydrogen with experts from the hydrogen initiative, a **permanent exhibition showing the many different aspects of hydrogen technology** has now been set up in the “Seen und Entdecken” forum in Düren. The exhibition covers an area of 100 square metres and features entertaining and informative multimedia and interactive exhibits. The exhibition highlights the origins of the hydrogen world, the associated hydrogen value chain, the vision for the **district of Düren**, Germany, and the world, new opportunities in the labour market, and it also features an area dedicated to the specially designed mascot Hazwo. The admission-free exhibition is open during the opening hours of the **„Seen und Entdecken“ forum**. Group tours are also possible: If you are interested, please contact the district of Düren at **amt61@kreis-dueren.de**. ► Read more

HC-H2 documentary series: **What is it?**

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Hydrogen in the Rhenish Mining Area

How soon will it be possible to supply my household with hydrogen? In what areas is hydrogen the only option? And in what areas does it make sense? What is structural change and what is its objective? And why is structural change required in the Rhenish mining area in particular? **Climate change and the energy transition raise many questions**. We have tried to shed some light on the matter and provide answers to queries related to hydrogen and structural change in the Rhenish mining area. ► Read more

Events

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Networking Event in Monschau

In July, participants at the Hydrogen meet & connect event had the chance to take a close-up look at an electrolyzer. The company **Ecoclean GmbH** invited them to its Center of Competence in Monschau where they attended an informative presentation followed by the **opportunity to view the “EcoLyzer P200” electrolyzer**. The event was rounded off with snacks and drinks, giving participants the opportunity to network. ► Read more

Readers of Local Newspaper Visit Brainergy Park

In spring, the Aachener Zeitung newspaper launched a reader initiative, where 18 of the 120 respondents were randomly selected to attend a visit to the innovative industrial park **Brainergy Park** and the **HC-H2** Helmholtz-Cluster. The event started with two presentations, which were held on the new premises of the **Startup Village**. Hermann Heuser, co-founder of Brainergy Park and former mayor of Niederzier, provided an **insight into the history of the 52-hectare intercommunal industrial park**. Guido Jansen and Dr. Stephan Kiermaier then presented the work of HC-H2 and INW. The visit was rounded off by a vivid description of the projects conducted at Brainergy Park using a Lego model. ► Read more

Upcoming Events

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Wissenschaft online with Prof. Palkovits (INW-2)
05. September 2024, online

HC-H2 Science Spotlight with Dr. Detlef Drake
11. September 2024, hybrid

Wasserstoffmesse Düren
12.—13. September 2024, Kulturmuschel Brückenkopfpark Jülich

5. Nacht der Wissenschaft
13. September 2024, Düsseldorf

HY.SUMMIT.Rhein.Ruhr
16.—18. September 2024, Duisburg, Dortmund, Essen

Kommunalkongress NRW 2024
26. September 2024, Wuppertal

Family event Rhein-Kreis Neuss
29. September 2024, Schloss Dyck Neuss

hy-fcell
08.—09. October 2024, Messe Stuttgart

Hydrogen Technology Expo
23.—24. October 2024, Hamburg Messe

Network meeting of the Hydrogen Research Network
26.—27. November 2024, H4 Hotel Berlin Alexanderplatz

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