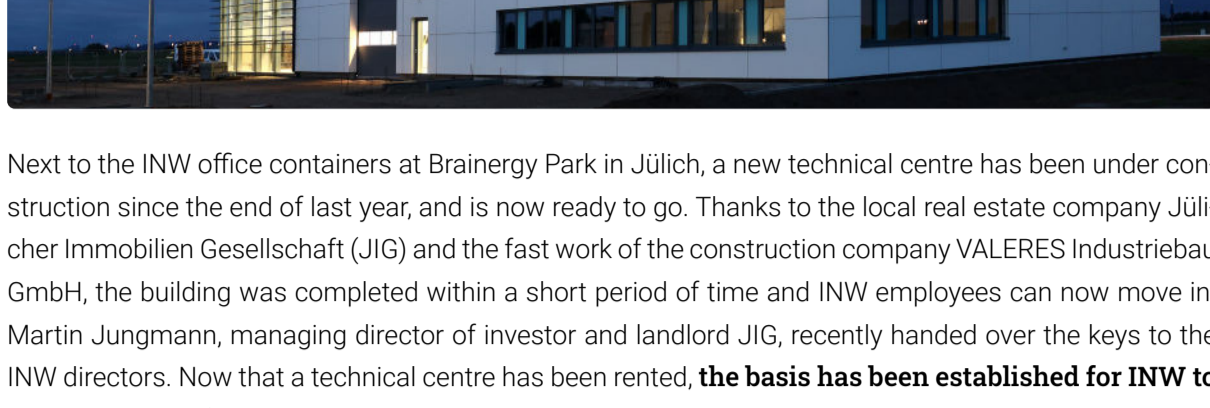


Good News

A Technical Centre for Innovative Research



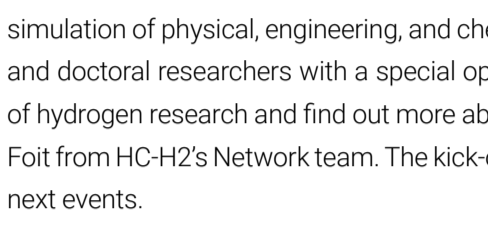
Next to the INW office containers at Brainery Park in Jülich, a new technical centre has been under construction since the end of last year, and is now ready to go. Thanks to the local real estate company Jülicher Immobilien Gesellschaft (JIG) and the fast work of the construction company VALERES Industriebau GmbH, the building was completed within a short period of time and INW employees can now move in. Martin Jungmann, managing director of investor and landlord JIG, recently handed over the keys to the INW directors. Now that a technical centre has been rented, **the basis has been established for INW to conduct scientific work**. The building will house both a workshop, which will design and build the first pilot systems, and a scientific work area, where tests and experiments will be conducted and solutions created for the energy transition. [▶ Read more](#)

Renowned Professor Joins INW

Prof. Dr. Regina Palkovits became head of the Catalytic Materials (INW-2) subinstitute on 1 October. During her doctoral degree at Max-Planck-Institut für Kohlenforschung and her work as a professor at RWTH Aachen University, she conducted a lot of basic research. As a chemical engineer, however, she always kept in mind the applicability of new technologies. Since coming to Jülich, the new director has focused on setting up her new team. She plans to advertise the first positions soon so that she will then be able to start scientific work. With the appointment of Prof. Dr. Regina Palkovits and Prof. Dr.-Ing. Andreas Peschel, both INW-2 and INW-4 now have subinstitute heads. [▶ Read more](#)

HC-H2 close up

Scientific HC-H2 Event Series Launched



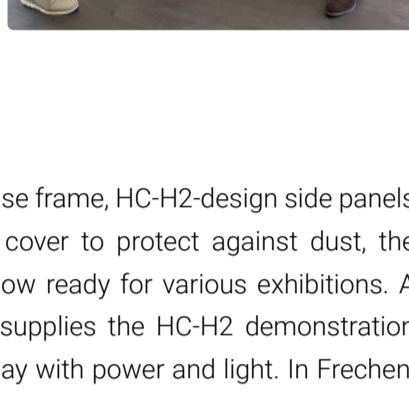
Focusing on scientific exchange, the first HC-H2 Science Spotlight took place in August. Prof. Dr.-Ing. Roland Dittmeyer from the Karlsruhe Institute of Technology (KIT) visited INW and presented his research topics. After his talk, there was plenty of time for questions and discussions on the synthesis of chemical energy carriers for hydrogen. In September, INW welcomed Prof. Dr. Michael Bortz from the Fraunhofer Institute for Industrial Mathematics (ITWM), who spoke about the simulation of physical, engineering, and chemical processes. The series of events aims to provide scientists and doctoral researchers with a special opportunity to speak directly with renowned experts from the field of hydrogen research and find out more about this area of research. The events were moderated by Severin Foit from HC-H2's Network team. The kick-off events were very successful and we are looking forward to the next events.

A Journal for the Rhenish Mining Area

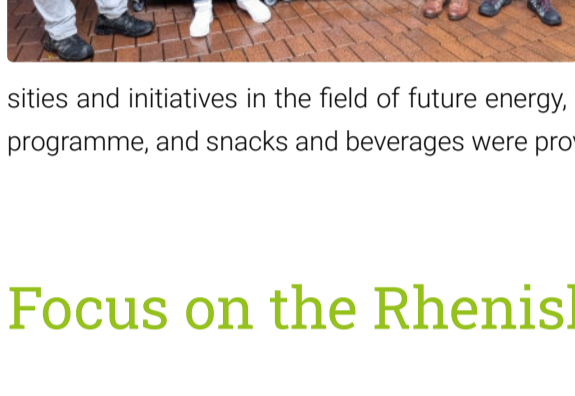
The Helmholtz-Cluster hydrogen (HC-H2) represents structural change and the future of energy in the Rhenish mining area. To reach many people in the region, the **first issue of H2Revier** will be published in November. Just in time for the second anniversary of the Institute for a Sustainable Hydrogen Economy, INW is publishing its HC-H2 journal. H2Revier will feature fascinating and interesting articles on the topic of hydrogen, HC-H2, the establishment of the institute, and activities in the Rhenish mining area. In particular, the journal will focus on the coal phase-out and the associated challenges – but above all the opportunities – for the people in the region. Another highlight is a puzzle at the end of the journal, where you can win a fantastic prize.

Belgian Energy Minister Visits INW

A successful hydrogen economy can only be established in an international context going beyond the borders of Germany. **To strengthen international relationships** and strike up a dialogue with neighbouring countries, Tinne Van der Straeten, Minister of Energy of Belgium, visited INW. In an animated discussion, Dr. Peter Jansens, member of Jülich's Board of Directors, and Prof. Andreas Peschel, director of INW-4, exchanged views with the Belgian Minister of Energy on INW's and HC-H2's activities as well as on developments in the hydrogen economy.



The Lego Model is Back on Tour



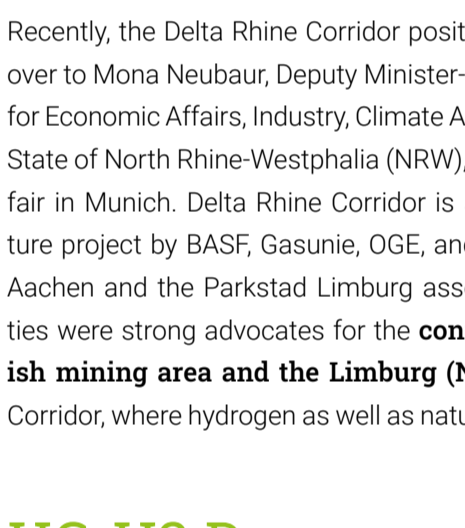
With a mobile base frame, HC-H2-design side panels and a Plexiglas cover to protect against dust, the Lego model is now ready for various exhibitions. A cabling system supplies the HC-H2 demonstration projects on display with power and light. In Frechen, our model shone in the open air for the first time at the **"we run the future" family festival organised by the Rhein-Erft-Kreis** and braved the wind and weather together with the INW colleagues. In addition to exhibitions by scientific institutions, universities and initiatives in the field of future energy, the event involved a children's programme and a stage programme, and snacks and beverages were provided. [▶ Read more](#)

Focus on the Rhenish Mining Area

Planning the Hydrogen Infrastructure in the Rhenish Mining Area

The greatest potential for the storage and transport of hydrogen in Germany lies in the gas infrastructure. The technical inspection association TÜV, for example, plays a significant role in the establishment of a hydrogen network of hydrogen pipelines as well as in the associated use and conversion of the existing gas network. This summer, the German Federal Government published an update of its National Hydrogen Strategy, making it clear that domestic production in particular will be strengthened. This involves a hydrogen distribution network with 1,800 km of pipelines in Germany, which would make it possible to **supply large industrial sites**, including the Rhenish mining area. For the time being, however, there will be a restriction to a few sectors and regions. Subsequently, several parties expressed their opinion on this decision. CDU Member of the German Bundestag Thomas Rachel, his SPD party colleague Dietmar Nietan, and Hydrogen Hub Aachen commented on these plans, saying that the Düren, Euskirchen, and Heinsberg districts must also be connected to the hydrogen core network. [▶ Read more](#)

Award Ceremony at Brückenkopf-Park Jülich



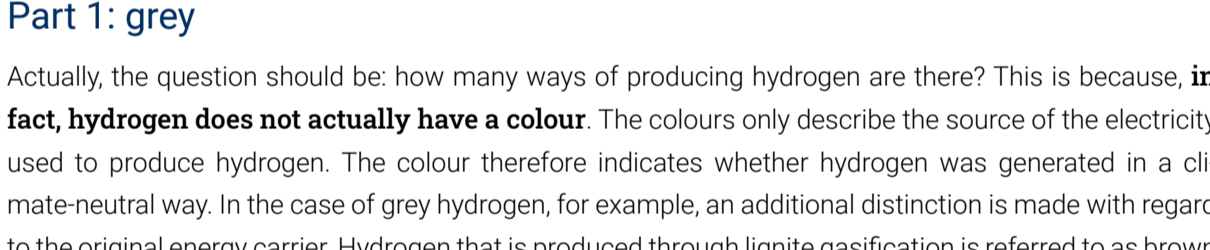
Dr. Stephan Kiermaier from Forschungszentrum Jülich's Institute for a Sustainable Hydrogen Economy (INW) has received the Düren district's "Hygo" hydrogen award. Prior to the hydrogen fair, which took place at the "Kulturmuschel" venue in Brückenkopf-Park Jülich on 18 and 19 August, the Düren district honoured outstanding individuals who play a **pioneering role in setting up the future hydrogen world**. Stephan Kiermaier, who in his role as project developer at INW directly supervises structural change projects with a focus on hydrogen, received the Hygo award in the category "Young Researchers". [▶ Read more](#)

Delta Rhine Corridor – For a Sustainable Economic Transition

Recently, the Delta Rhine Corridor position paper was handed over to Mona Neubaur, Deputy Minister-President and Minister for Economic Affairs, Industry, Climate Action and Energy of the State of North Rhine-Westphalia (NRW), at the Expo Real trade fair in Munich. Delta Rhine Corridor is a European infrastructure project by BASF, Gasunie, OGE, and Shell. Hydrogen Hub Aachen and the Parkstad Limburg association of municipalities were strong advocates for the **connection of the Rhenish mining area and the Limburg (NL) region to the hydrogen infrastructure** of the Delta Rhine Corridor, where hydrogen as well as natural gas and CO₂ will be transported from 2028. [▶ Read more](#)



HC-H2 Documentary series: The colours of hydrogen

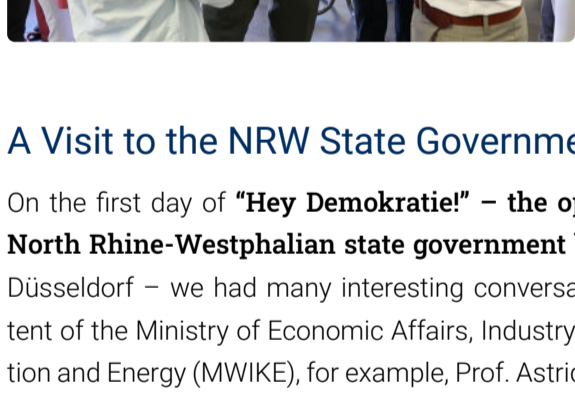


Part 1: grey

Actually, the question should be: how many ways of producing hydrogen are there? This is because, **in fact, hydrogen does not actually have a colour**. The colours only describe the source of the electricity used to produce hydrogen. The colour therefore indicates whether hydrogen was generated in a climate-neutral way. In the case of grey hydrogen, for example, an additional distinction is made with regard to the original energy carrier. Hydrogen that is produced through lignite gasification is referred to as brown hydrogen; hydrogen that is generated through hard coal gasification is called black hydrogen. There is also a definition of grey hydrogen in a stricter sense, namely when it is produced from fossil methane. The "Die Farben des Wasserstoffs" series provides information on the various colours of hydrogen, which is, however, by no means intended to be exhaustive. [▶ Read more](#)

Events

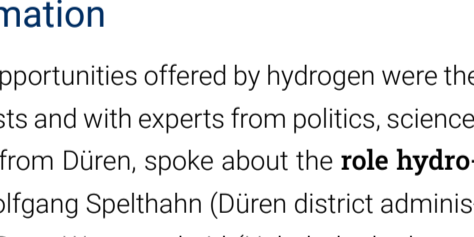
Exchange at Brainery Park



The HC-H2 Brainery Park Connect series of events is being continued. In August and September, short presentations were given by Ingmar Stock (Brainery Park GmbH), Daniel von Büren (DPVB Veranstaltungstechnik), and Felix Abschl (Bäckerei Felix). **Many interesting insights and discussions** concerning, for example, the "Startup Village", which is currently being built at Brainery Park, or a guided tour through the production facilities of the **Bäckerei Felix bakery** rounded the programme off. [▶ Read more](#)

A Visit to the NRW State Government Buildings

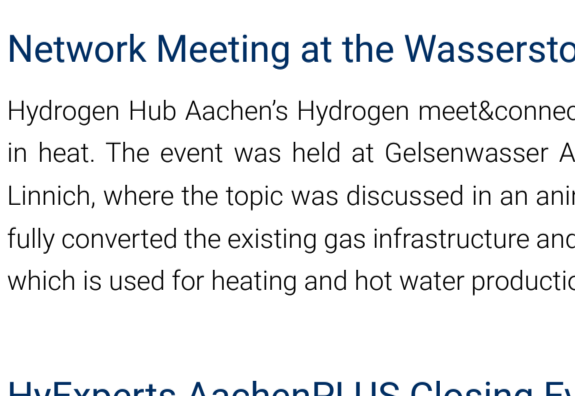
On the first day of **"Hey Demokratie!" – the open day for North Rhine-Westphalian state government buildings** in Düsseldorf – we had many interesting conversations. In the tent of the Ministry of Economic Affairs, Industry, Climate Action and Energy (MWIKE), for example, Prof. Astrid Lambrecht, the new Chair of Forschungszentrum Jülich's Board of Directors, and Paul Frederik Höller, State Secretary in Mona Neubaur's ministry, discussed the challenges and opportunities that lie ahead.



Hydrogen as a Key Element for the Transformation

At an event in the Jülich Technology Centre on 14 September, opportunities offered by hydrogen were the subject of animated discussions. In front of more than 100 guests and with experts from politics, science, and industry, Thomas Rachel, CDU Member of the Bundestag from Düren, spoke about the **role hydrogen plays for Germany and in particular for the region**. Wolfgang Spelthahn (Düren district administrator), Dr. Patricia Peill (Member of the NRW Landtag), Prof. Peter Wasserscheid (Helmholtz hydrogen cluster), and Frank Hopfenbach (Financial Director at Messer Industriegase GmbH) explained where, when, and to what extent hydrogen should be used in a meaningful way. [▶ Read more](#)

A Fair on the Subject of Hydrogen



To get to grips with **topics of the future related to hydrogen** and to understand them, around 40 exhibitors from the fields of hydrogen production, use, and transport as well as research institutions and networks were present at the hydrogen fair ("Wasserstoffmesse"), which was organized by the Düren district. INW also had a stand and showcased the HC-H2 Lego model. In August, the Düren hydrogen fair took place at Brückenkopf-Park Jülich's "Kulturmuschel" venue. The fair was not only aimed at scientific and technical experts but also at the general public, who were provided with information on the future technology of hydrogen. [▶ Read more](#)

Network Meeting at the Wasserstoff-Wärmeinsel

Hydrogen Hub Aachen's Hydrogen meet&connect network meeting in September focused on hydrogen in heat. The event was held at Gelsenwasser AG's Wasserstoff-Wärmeinsel (hydrogen heat island) in Linnich, where the topic was discussed in an animated manner. On site, Gelsenwasser AG has successfully converted the existing gas infrastructure and thus **established its own hydrogen island network**, which is used for heating and hot water production. [▶ Read more](#)

HyExperts AachenPLUS Closing Event



In keeping with the motto "Gemeinsam: **Grenzen überwinden – Strukturen wandeln – Wissen schaffen**" (Together: overcoming borders, transforming structures, creating knowledge), HyExperts Region AachenPLUS is taking the next steps towards becoming a hydrogen model region. On 28 August, the hydrogen study prepared by Umlaut SE, BET, and bbb consulting was presented to the public at the Energeticon museum in Alsdorf. [▶ Read more](#)

Event Announcements

Hydrogen meet&connect

Network meeting at HC-H2
08 November 2023, hybrid

Praxistagung

Conference on Hydrogen from Biomass and Biogas
09 – 10 November 2023, Krefeld

Cluster meeting

hydrogen research network
13 – 14 November 2023, Duisburg

EWI energy conference

on fundamental economic and legal issues related to the energy industry
07 Dezember 2023, Cologne

receive the newsletter regularly

Follow the HC-H2 on LinkedIn, Facebook, Twitter

Published by/Imprint: Forschungszentrum Jülich GmbH

Contact/responsible editorial office: Vanessa Düster, connect@hch2.de

Our privacy policy

Unsubscribe from our newsletter

Here you can also read and download the newsletter online on our website.

We are not responsible for the content of external homepages.