

Dear reader,

Good news must be shared! That's why you're receiving another issue of the HC-H2 newsletter from us today, before the end of the year. It's all about young scientists, hydrogen in everyday life and a very special publication that you'll soon find in your letterbox or online on our [website](#).

Enjoy reading!

Yours Vanessa Düster, HC-H2 Network

#### Season's greetings



Last but not least, I would like to thank all of you who have subscribed to our newsletter and regularly read our news. On behalf of the Network and the entire HC-H2, we are committed to compiling, consolidating and disseminating news and information on structural change, hydrogen technologies and the energy transition in the Rhenish mining area as effectively as possible. This is only possible thanks to the support and cooperation of our network, research and project partners! With this in mind, I wish you all a peaceful end to the year and a good start to 2026.

## Good News

#### Our Newspaper for the Rhenish mining area



The third edition of our newspaper H2Revier will be published next weekend. With this newspaper, our cluster aims to show people in the Rhenish mining area why hydrogen can become one of the key pillars of the future energy system and of the regional economy. The newspaper will be distributed together with the Sunday editions of the Aachener Zeitung, Rheinische Post and Kölner Stadt-Anzeiger to 500,000 households in the region – primarily in the towns and municipalities surrounding the open-cast mines. If you are interested, we will gladly provide additional copies upon request. From the 30 November, the newspaper will also be available on our website either as a download or as an interactive document. The paper is published in German only.

[Read more](#)

## HC-H2 Close Up



#### A bottle opener for hydrogen deposit bottles



A bottle opener for hydrogen? That's exactly what the new DeVer pilot plant at Brainergy Park Jülich aims to be. De stands for dehydrogenation and Ver for Verbrennung (combustion). DeVer releases hydrogen from a larger carrier molecule. Developed at Forschungszentrum Jülich, it uses catalytic combustion to safely and efficiently release hydrogen from carrier molecules – without emissions. These carriers act like deposit bottles: ideal for storage and transport, but only useful once opened. DeVer was developed by the planned spin-off Clean H2eat, now demonstrating the concept at pilot scale.

[Read more](#)

#### Young scientists in focus



The Jülich Innovation & Entrepreneurship Certificate Programme (JUICE) is held once a year at Forschungszentrum Jülich. Accompanied by experts and coaches, participants learn methods from the fields of innovation, entrepreneurship, and transfer. At this year's Innovation Contest, three INW employees were among the winners of first and second place.

[Read more](#)

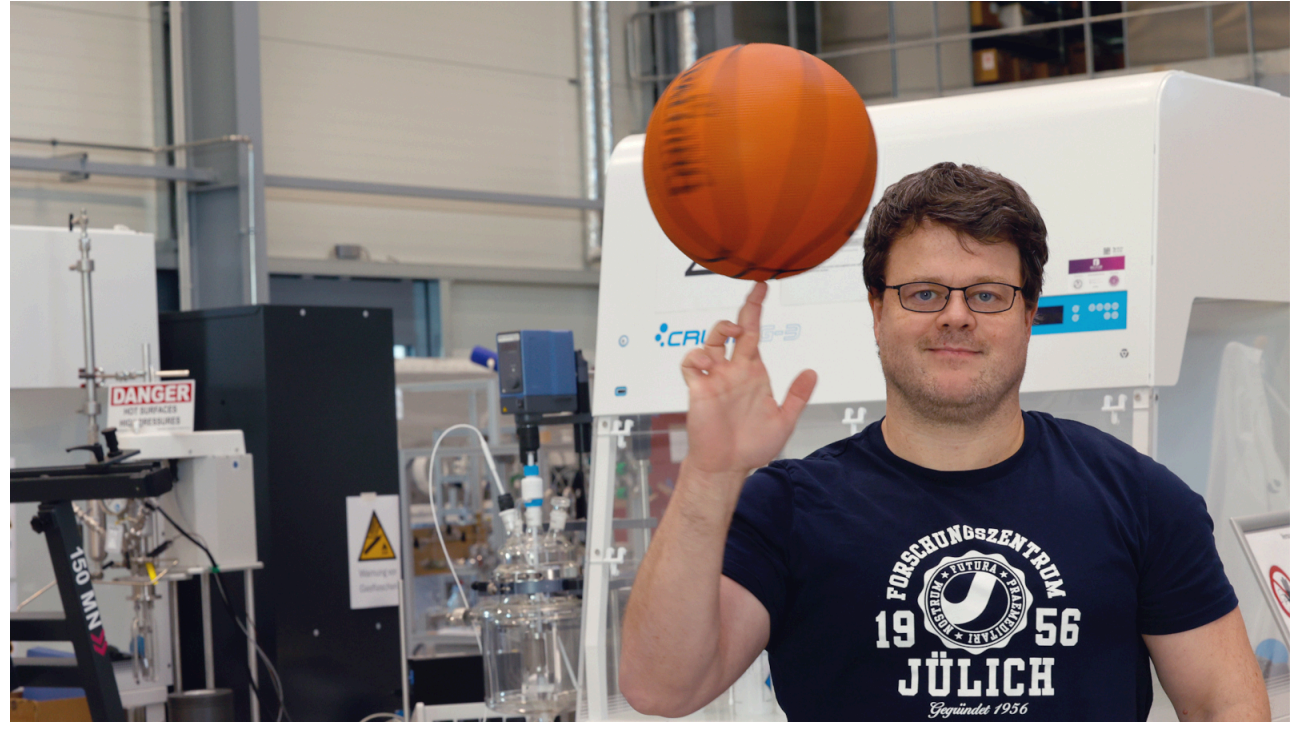
#### Solution for the lithium shortage



The winner of this year's Innovation Contest at JUICE was the INW team with its 7EX Technology. Their idea is set to result in a spin-off. Their method will enable lithium to be extracted from previously unused sources in a climate-friendly and environmentally friendly manner – including in Germany.

[Read more](#)

#### Rethinking beamlines for the energy transition



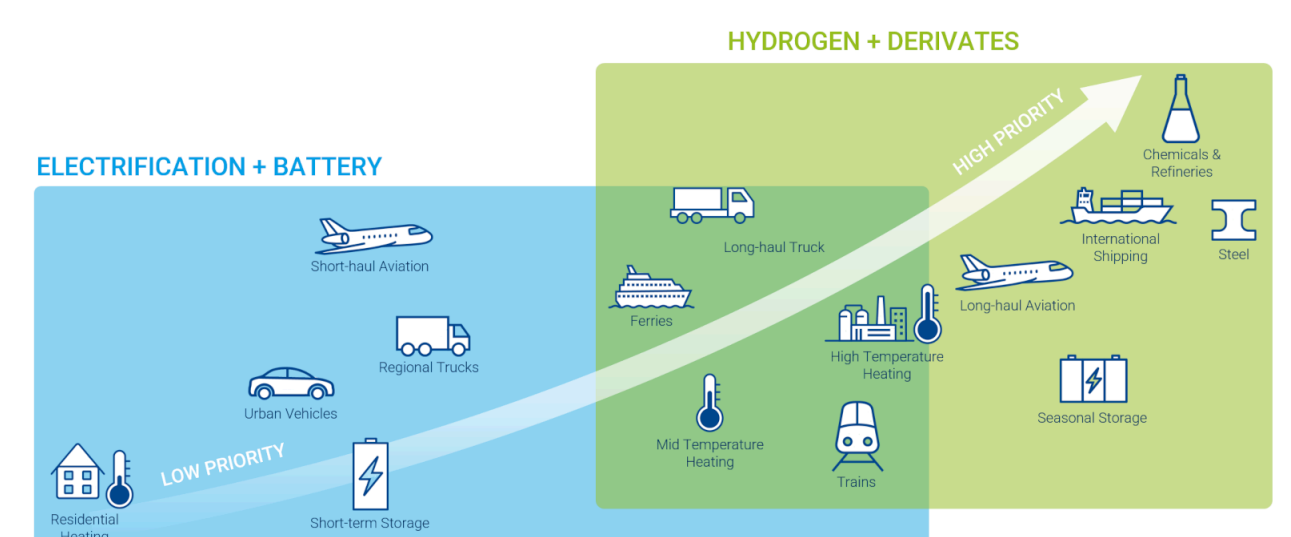
From point guard to X-ray pioneer: After working at DESY in Hamburg and SLAC/Stanford, physicist Peter Walter has joined Forschungszentrum Jülich to build a unique X-ray sample environment. Designed for long-term, parallel analysis of multiple catalyst samples, the facility will provide new insights into materials for efficient hydrogen use.

[Read more](#)

## HC-H2 Documentary Series



#### Everyday questions about hydrogen



Is hydrogen a climate killer? Will we soon be able to heat our homes with hydrogen? And how safe is hydrogen anyway? There are many questions surrounding this molecule. We addressed some of them together with researchers from the Institute of Climate and Energy Systems (ICE) and the Institute of Energy Technologies (IET) at Forschungszentrum Jülich.

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