



# The briefing

NEWS, UPDATES AND MILESTONES FROM CPH2



It's an exciting time for Clean Power Hydrogen (CPH2) as we deliver on major milestones for our unique membrane-free technology.

**More and more organisations are realising the potential of our patented electrolysers to make high-purity hydrogen and oxygen where and when they need it. We've secured a series of new partnerships in recent months to support the scale-up of our technology and to explore market opportunities in North America and Europe.**

As global energy shocks put pressure on traditional fuels, the push to find alternatives is accelerating. Hydrogen has a vital role to play, whether that's storing excess renewable power by capturing otherwise wasted wind and solar power, or as a reliable long duration back-up for A.I. data centres.

For too long, hydrogen production has been held back by costly and outdated membrane-based technology that clogs up, degrades over time and eventually fails.

**We are changing that at CPH2 with a brand-new category of electrolyser – we're liberating hydrogen.**



**Richard Scott**  
CCO, CPH2

# BKW partnership targets European opportunities



CPH2 has signed an agreement with ABE GRUPPE (ABE), a subsidiary of BKW Infra Services, to explore the sale and integration of CPH2's membrane-free electrolyser technology across its market activities in Switzerland and Germany. BKW AG is one of the largest energy supply companies in Switzerland.

**We've agreed to develop a partnership seeking the supply, installation, commissioning and maintenance of 175MW of electrolysers over the next 10 years.**

The partnership will target a diverse customer base, including renewable energy producers looking to monetise curtailed wind or solar capacity, and industries where hydrogen and oxygen can boost process efficiency, such as wastewater treatment and even semiconductor fabrication. It will also include sectors such as life sciences, healthcare and mobility for essential operations and data centres for long duration back-up storage and dispatch.

Daniel Lorenzen, General Manager BKW Renewable Energies and Managing Director ABE said: *"This exciting partnership builds upon CPH2's existing breakthrough 1MW membrane-free unit and expands over time with the forthcoming 5MW unit. With this technology we can offer our customers a more reliable, higher purity, lower lifetime cost of hydrogen and oxygen production for the growing decentralised energy market."*

*"We can offer our customers a more **reliable**, **higher purity**, **lower lifetime cost of hydrogen and oxygen production**"*

## Koch Modular agreement explores role for CPH2 technology in America

**A new partnership for CPH2 is working towards the manufacturing and licensing of up to 100MW of its patented technology in North America.**

CPH2 has entered into an agreement with Koch Modular Process Systems LLC, a subsidiary of one of the largest privately held corporations in the USA. Based in New Jersey and Houston, Texas, Koch Modular specialises in the design and manufacturing of modular systems for the chemical process industry.

Together we're evaluating technical, commercial and operational feasibility, including supply chain and localisation requirements. Koch Modular and CPH2 intend to progress discussions for sales and marketing into Mexico, the USA and Canada.

Commenting, Vice President of Koch Modular, Brian Loftus, said: *"We recognise the unique proposition of CPH2's patented MFE technology and look forward to formalising our relationship as we look to leverage our expertise in design and manufacture for the North American market."*

**SIEMENS**



## Siemens signing to support scale up

CPH2 has signed an agreement with Siemens plc to work towards a legally binding framework to assist us in successfully scaling up our membrane-free electrolyser production and maintain our technology leadership.

Chief Executive Officer of CPH2, Jon Duffy, said: "Our discussions with Siemens cover a range of activities from enhanced process and automation to customer introduction, marketing, 24/7 technical support, training, joint product and process development, all with the objective to upscale CPH2 production."

## Investment note praises membrane-free "revolution"

Turner Pope Investments has recognised the potential of CPH2's unique patented technology in one of its latest investment notes, saying membrane-free technology is set to deliver "a revolution in the sub-20MW electrolyser category."

The stockbroker acknowledged the flaws inherent to existing traditional membrane-based units which have limited global uptake of hydrogen solutions to real-world problems.

By contrast, it highlighted the ability of CPH2's modular and membrane-free electrolysers to overcome these reliability issues while also delivering the sector's lowest lifetime cost of generation at this scale. It drew attention to the fact that CPH2's system avoids the use of costly, precious, and rare metals and PFAS 'forever chemicals', which are banned in several countries.

# CPH2 working towards larger model

Building on successful technology milestones for its first generation 1MW unit, CPH2 has now instructed its R&D and engineering teams to develop a 5MW unit using our proven and patented electrolyser technology.

The team are progressing the Front-End Engineering Design (FEED) for the larger system which will be capable of delivering sector-leading electrical efficiency of 48kWh/kgH<sub>2</sub>, giving it a competitive advantage in the sub-20MW electrolyser category.

The 5MW unit will continue to offer a small footprint, modular solution for businesses looking to produce high-purity hydrogen and medical-grade oxygen on site to support their day-to-day operations.

This next step in CPH2's technology scale-up builds on the development of its first commercial MFE220 1MW unit which is expected to be delivered to Northern Ireland Water in June 2026.

## Sector-leading electrical efficiency

**48 kWh/kgH<sub>2</sub>**

## Further Information

For more information about CPH2 and for regular updates, visit our website:



[www.cph2.com](http://www.cph2.com)



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