

Johnson Matthey and Hoeller Electrolyzer partner to focus on next generation electrolyser stacks with greater efficiency, driving down the cost of green hydrogen

19 November 2021

Johnson Matthey (JM), a global leader in sustainable technologies, today announced the agreement of a Memorandum of Understanding with Hoeller Electrolyzer GmbH who have more than 25 years of expertise and pioneering work in PEM technology. Under the agreement, JM will collaborate with Hoeller Electrolyzer to provide catalyst coated membranes (CCMs) for their innovative PROMETHEUS range of proton exchange membrane (PEM) stacks developed for electrolyser systems. Both companies are committed to supporting the transition to net zero by providing high quality stacks for a range of applications, while continuing to develop the next generation of innovative stacks and CCM components for the future.

The collaboration will focus on joint research and development in conjunction with a fast-track manufacturing scale-up programme that will accelerate the launch of the PROMETHEUS stacks range within the next 12 months. In addition, the partnership will continue to develop next generation electrolyser stacks with greater efficiency levels, ultimately helping lower the costs associated with green hydrogen production.

Neither Johnson Matthey nor Hoeller is new to electrolysis; instead, both will build on their vast experience and proven track record developing innovative, high-performance components for fuel cell applications. Johnson Matthey is also driving the transition to net zero by creating closed loop recycling systems within the electrolysis supply chain that will recycle and re-use as much of the key raw materials contained in the CCM as possible.

"Everything we do contributes to our vision of a cleaner, healthier world, so I am incredibly pleased that we are working with Hoeller Electrolyzer to accelerate the commercialisation of their high quality, innovative PROMETHEUS stacks", commented Ralph Calmes, Managing Director, Hydrogen Technologies. "Building on our collective experience in membranes, we are confident that we will deliver on the aims of the MoU, reducing the cost of green hydrogen and, in doing so, accelerating the transition to a net zero world."

"At Hoeller, we are committed to make green hydrogen affordable," commented Stefan Höller, Managing Director, Hoeller Electrolyzer. "The MoU we have signed with Johnson Matthey will help us to accelerate the time-to-market for our innovations and to launch at-scale our innovative PROMETHEUS range of stacks quickly."

ENDS

Johnson Matthey is a global leader in sustainable technologies that enable a cleaner and healthier world. With over 200 years of sustained commitment to innovation and technological breakthroughs, we improve the performance, function and safety of our customers' products. Our science has a global impact in areas such as low emission transport, pharmaceuticals, chemical processing and making the most efficient use of the planet's natural resources. Today about 15,000 Johnson Matthey professionals collaborate with our network of customers and partners to make a real difference to the world around us. For more information, visit www.matthey.com

Inspiring science, enhancing life

With its innovative PEM technology, HOELLER Electrolyzer GmbH is developing the future source of green hydrogen. The innovative PEM electrolysis stack Prometheus is the result of more than 25 years of expertise and pioneering work by engineer, managing director and head of development Stefan Höller. In these stacks, water is split up into hydrogen and oxygen by adding electricity. This makes them the core component of future electrolysis or power-to-x systems. For more information, visit www.hoeller-electrolyzer.com

For further information, please contact

Rebecca Williams [jmp@matthey.com](mailto:jmpr@matthey.com)

0208 269 8001

Inga Greuel, presse@hoeller-electrolyzer.com

0049 3841 389010