



21 February 2024

Clean Power Hydrogen plc
("CPH2", the "Company" or the "Group")

Operational Update

Clean Power Hydrogen plc (AIM: CPH2), the UK-based green hydrogen technology and manufacturing group that has developed the IP-protected Membrane-Free Electrolyser ("MFE"), is pleased to announce that it has successfully completed its functional test of the Programme Logic Control ("PLC") of the MFE110 for Northern Ireland Water. The PLC represents the coded programme which automatically operates the MFE110 including shutdown, an important safety feature which originally caused the pausing of the MFE110 Factory Acceptance Test ("FAT") in November 2023.

The successful test was witnessed by Lagan MEICA Limited, the Contractor to Northern Ireland Water, and means the Factory Acceptance Test can progress to the final stages.

A Factory Acceptance Test will be the first customer acceptance and validation of CPH2's scaled electrolyser technology marking a significant milestone in the Company's journey. The PLC can also be used for the Company's 1MW system, the MFE220 which is the Company's flagship product.

Jon Duffy, CEO of Clean Power Hydrogen commented:

"The successful test of the Programme Logic Control allowing for fully automated operation, signifies an important part of the MFE110's journey to commercial production of hydrogen and medical grade oxygen. While the pausing of the FAT test in November 2023 due to issues regarding the shutdown mechanism were disappointing, I am extremely proud of the team for re-evaluating the important safety shut down measures, and successfully finding a solution which has put us back on track to completing the MFE110 for our customers in the very near-term future."

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To find out more, please visit: <https://www.cph2.com>

Overview of CPH2

CPH2 is the holding company of Clean Power Hydrogen Group Limited ("Clean Power") which has almost a decade of dedicated research and product development experience. This experience has resulted in the creation of simple, safe and sustainable technology which is designed to deliver a modular solution to the hydrogen production market in a cost-effective, scalable, reliable and long-lasting manner. The Group's strategic objective is to deliver the lowest LCOH in the market in relation to the production of green hydrogen. The Group's MFE technology is already commercially available and demonstrating cost efficiencies and technological advantages. CPH2 is listed on the AIM

commercially available and demonstrating cost efficiency and technological advantages. It is listed on the main market and trades under the ticker LON:CPH2.

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