Factory Acceptance Test of Second-Generation Electrolyzer Completed

MISSISSAUGA, Ontario, Sept. 12, 2024 -- Next Hydrogen Solutions Inc. (the "**Company**" or "**Next Hydrogen**") (TSXV:NXH, OTC:NXHSF), a designer and manufacturer of electrolyzers, is pleased to announce that it has successfully completed an extended factory acceptance test of its second generation electrolyzer module. This product line will be commissioned at a customer site in the coming months.

The second-generation product line is a design simplification of its first-generation product line resulting in a 40% cost improvement through part count reduction. The development of the second-generation product line was partially funded by Sustainable Development Technology Canada (SDTC).

This modular product line is available in sizes of 0.75MW, 1.5MW and 2.25MW and offers best commercially available performance features including a turn-down ratio of 10% for direct connection to renewables.

Raveel Afzaal, President and CEO of Next Hydrogen, stated, "This represents a significant milestone for us following over 20,000 hours of bench and pilot scale testing in addition to sub-component testing programs. We continue to innovate and are now well advanced with our product development of large scale and cost-effective designs for high volume green hydrogen production. We are grateful to our talented employees for their dedication as well as to our government for their support on our journey to decarbonize our planet."

About Next Hydrogen
Founded in 2007, Next Hydrogen is a designer and manufacturer of electrolyzers that use water and electricity as inputs to generate clean hydrogen for use as an energy source. Next Hydrogen's unique cell design architecture supported by 40 patents enables high current density operations and superior dynamic response to efficiently convert intermittent renewable electricity into green hydrogen on an infrastructure scale. Following successful pilots, Next Hydrogen is scaling up its technology to deliver commercial solutions to decarbonize transportation and industrial sectors.

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