

Swedish fuel cell developer PowerCell launched next-generation fuel cell stack, S2, during the Hannover Fair

[Gothenburg, Sweden, April 20, 2015.] **The Nordic leading fuel cell company [PowerCell Sweden AB \(publ\)](#) launched the next generation fuel cell stack, S2, with great interest during the Hannover Fair, one of the largest fairs in industrial engineering, last week. - With this new-generation fuel cell stack, we now have the opportunity to approach other areas, and expand our market potential, said Andreas Bodén, Marketing and Sales Manager of PowerCell Sweden.**

The leading fuel cell company PowerCell Sweden launched the next-generation fuel cell stack, S2, at the Hannover Fair last week with great interest from the industry. PowerCell's fuel cell stack is designed to work in an auxiliary power unit (APU) environment on reformat gas as well as on a variety of systems running on pure hydrogen, for both automotive and stationary applications. It uses thin metal bipolar plates and state of the art membrane electrode assembly (MEA) to give a robust and high performance design prepared for serial production from the start.

The S2 platform will complement the first generation fuel cell stack, the S1 (1-5 kW), as it covers a larger power range up to 25 kW, still with the same tolerance towards CO and reformat gas. The S2 uses proton exchange membrane (PEM) technology and is the choice for automotive applications. PEM is the most common technology used today, owing to its reliable and dynamic characteristics that allows for full power output within seconds.

Another feature is the capability for extensive starts and stops. This feature means that battery buffers can be kept to a minimum. PowerCell S2 fuel cells stack platform is; efficient, unique, patented and designed for low-pressure drop. Of key importance is the facts that the S2 fuel cells possesses a high CO tolerance, which is a key factor to be able to run on reformat gas. This feature has been proven in extensive testing in laboratories as well as in connection with PowerCell reformers in its complete PowerPac

"After three years of development, we are pleased that we can present our second-generation fuel cell stack, S2, which met great interest

during the fair in Hannover last week. The interest from the transport, telecom and other sectors is huge, given these industries' need to reduce operating expenses while at the same time find power solutions that are clean, sustainable and compliant with ever-stricter environmental legislation. We are now working on with the continued launch and look forward with confidence to the future of this product", said Andreas Bodén, Marketing and Sales Manager at PowerCell Sweden.

PowerCell has developed fuel cell technology for more than a decade, and has perfected a unique design that enables the production of a light, versatile and reliable source of power for the automotive, transportation and stationary applications. PowerCell's fuel system converts hydrogen to electricity in an energy efficient and environmentally friendly manner, with zero emissions and quiet operation.

Fuel cells are expected to play a very important role in the transition towards renewable fuels, where it has great potential to replace the smaller diesel power plants in several applications, but also as part of the energy storage system and at large power plants due to its high efficiency and lack of toxic emissions.