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HORIZON FUEL CELL TECHNOLOGIES

Booth 4317 / North Hall / Sustainable Planet Zone - CES

For Immediate Release:

Horizon to Unveil World's First "Personal Hydrogen Station" at CES 2010

Company to exhibit at CES 2010 (Jan 7-10 / North Hall / Sustainable Planet Zone/ Booth 4317)

SINGAPORE – January 4, 2009. "A hydrogen station in every home" is a futuristic vision that is about to become reality this week as Horizon Fuel Cell Technologies unveils what could be its biggest breakthrough to date: a small home hydrogen refueling and storage solution that could begin our transition to a hydrogen-based economy.

In addition to making many new fuel cell products possible, the refueling device enables a lower cost, scalable, and consumer-centric hydrogen supply model which eliminates the dependence on large-scale fueling infrastructure investments. Horizon's game-changer innovation can unlock the age-old dilemma over which comes first: clean cars, or clean fuels.

"We no longer need to rely on nationwide networks of hydrogen fueling stations to enable large-scale fuel cell commercialization," comments Taras Wankewycz, one of the company's founders. *"Horizon is initiating a transition that places consumers in the driving seat. Thanks to our innovation each household can gradually become a major part of tomorrow's hydrogen fuel supply infrastructure."*

Named HYDROFILL™, the world's first personal hydrogen station designed by Horizon will be unveiled at the upcoming Consumer Electronics Show in Las Vegas. The small desktop device simply plugs into the AC, a solar panel or a small wind turbine, automatically extracts hydrogen from its water tank and stores it in a solid form in small refillable cartridges. The cartridges contain metallic alloys that absorb hydrogen into their crystalline structure, and release it back at low pressures, removing concerns about storing hydrogen at high pressure. This storage method also creates the highest volumetric energy density of any form of hydrogen storage, even higher than liquid hydrogen. Unlike conventional batteries, these cartridges carry more energy capacity, are cheaper, and do not contain any environmentally-harmful heavy metals.



Horizon believes the HYDROFILL™ is the first step towards private refueling of new generations of fuel cell electric vehicles. Fuel cell technology can greatly improve the features and usability of many battery or engine-powered devices, and create the possibility for lower cost electric cars that drive longer distances and recharge instantly.

Instead of starting with more complex automotive developments, Horizon's founders decided to start enabling devices that require less power, such as various portable and consumer applications. In 2006 and as a way to start nursing society through the infancy of the hydrogen economy, Horizon introduced solar hydrogen powered toy cars that quickly became the world's largest volume-produced commercial fuel cell products. Today the company sells its fuel cells through various retail channels in over 60 countries, reduced the cost of fuel cells to marketable levels, and has developed practical ways for all to store and refuel hydrogen.

Horizon's next phase starts now with the market introduction of a complete line of portable consumer electronic devices that address much larger markets. The first of these products include a micro-fuel cell power supply called MINIPAK, which extends the off-grid runtimes of small electronic devices including cell phones, lighting products, and many USB powered devices. Horizon will also present an upgraded version of its larger portable off-grid DC power supply system called HYDROPAK. While these and other products will start entering the market in 2010, Horizon is already developing larger-size refueling systems that will enable anything from garden equipment to transportation.

About Horizon Fuel Cell Technologies Pte. Ltd.

Thinking big, yet starting small, Horizon pioneered the sales of next-generation fuel cell power products in small consumer products, while developing larger-scale clean power solutions for practical applications in portable remote power, light-duty transportation and aerospace. With comprehensive technological developments focused on enabling the commercialization of fuel cells Horizon is the first company to bring advanced fuel cell technology out of the laboratories and into the mainstream market. For more information, visit <http://www.horizonfuelcell.com>

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