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PRESS RELEASE

9 February 2010 – 65% electric efficiency achieved on SOFCpower's SOFC stack Efficiency development target exceeded

65% electrical efficiency based on the lower heating value of fuel was obtained on a standard SOFCpower-HTceramix stack module in a test at the Swiss Federal Institute of Technology (EPFL). The stack was fueled with steam reformed methane (steam-to-carbon ratio of 2) and was operated at 750°C with a power density of 250 mW/cm² and an average cell voltage of 760 mV.

This result exceeded the internal development target of 60% electrical efficiency and confirms the feasibility of high efficient generators based on Solid Oxide Fuel Cells.

With such efficiencies, the distributed generation of electricity in kW-sized units using SOFC technology is more efficient than centralized generation in MW-size plants using the best available combined cycle gas turbine (CCGT)

SOFCpower is a leading manufacturer of Solid Oxide Fuel Cells (SOFC) with a 2 MW/y-pilot manufacturing plant in Trento (Italy). SOFCpower produces high efficient electricity and heat generators that are easily integrated in heat appliances for the cogeneration of heat and power (mCHP) and units for the distributed generation of electricity.

HTceramix SA is a centre of competence for development and engineering of solid oxide fuel cell solutions and a 100% subsidiary of SOFCpower. HTceramix' mission is to develop and support the integration of Swiss quality fully integrated SOFC generators into OEM energy systems. Based in Yverdon, Switzerland, HTceramix has over 10 years experience on SOFC-engineering and builds on the synergies with the Swiss Federal Institute of Technology (EPFL) a leading institute for SOFC R&D.

For more information, please contact

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