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## **German Government Supports Advancement of Clean and Efficient Fuel Cells With 4.9 Million Euros in Research Awards**

### **FuelCell Energy Solutions GmbH and joint-venture partner Fraunhofer IKTS to further enhance performance of stationary fuel cell power plants**

DRESDEN, Germany, July 22, 2014 (GLOBE NEWSWIRE) -- [FuelCell Energy Solutions GmbH](#) (FCES), which manufactures, sells, operates and services ultra-clean, efficient and reliable fuel cell power plants, announced the issuance of nearly €5 million in awards by Germany's [Federal Ministry for Economic Affairs and Energy](#) to support a three year research and development project between FCES and joint venture partner [Fraunhofer IKTS](#). The project targets further enhancements to the Direct FuelCell® (DFC®) technology by increasing power density and operating life of the fuel cells, leading to lower costs. The research is being performed in Germany by FCES at an existing facility in Ottobrunn and by Fraunhofer IKTS at a facility located in Dresden.

"Fraunhofer IKTS continues to undertake fuel cell research in recognition that the attributes of high efficiency, virtual lack of emissions, low carbon output, and ability to easily site fuel cell plants in populated areas can help address the power generation challenges facing Germany and many other European countries," said Prof. Dr. Alexander Michaelis, Director of Fraunhofer IKTS. "The awards from the Federal Ministry for Economic Affairs and Energy will help expand Germany's existing fuel cell knowledge and assist in advancing the technology towards greater adoption that should support economic development in Germany."

"With the support of various government organizations, strategic partners and private industry, product, performance and system enhancements continue on our proprietary fuel cell technology and are now being performed on three continents; validating the global interest in our power and hydrogen generation solutions that enhance the resiliency of power distribution in an ultra-clean and affordable manner," said Chip Bottone, President and Chief Executive Officer of FuelCell Energy, Inc. and Managing Director of FuelCell Energy Solutions GmbH. "We utilize a common global technology platform so enhancements developed under these awards can support global markets, further strengthening the attractiveness of our product offerings."

The research and development program aims to enhance the DFC fuel cell performance by increasing the power output of the fuel cell stack, making the fuel cell power plants even more affordable based on increased power output from the fuel cells and extended operating life for the fuel cell stack. With growing adoption supported by this research program, enhancement of the fuel cell manufacturing in Germany is expected to follow, leading to job creation from manufacturing and the associated supply chain multiplier effect.

Fuel cells electrochemically convert a fuel source into electricity and heat in a highly efficient process that emits virtually no pollutants due to the absence of combustion. Direct FuelCell® (DFC®) stationary power plants utilize carbonate fuel cell technology and provide continuous baseload power located where the power is used, including both on-site applications and electric grid support. The combination of near-zero pollutants, modest land-use needs, and quiet operating nature of these power plants facilitates locating the power plants in urban locations. The power plants are fuel flexible, capable of operating on natural gas, on-site renewable biogas, or directed biogas.

FCES, with its German manufacturing base, is the sales, manufacturing and service business for the European Served Area for FuelCell Energy, Inc. FCES is a joint venture between Fraunhofer IKTS and [FuelCell Energy, Inc.](#) (Nasdaq:FCEL).

Founded in 1949, Fraunhofer is Europe's largest application-oriented research organization with an annual research budget of €1.8 billion (approximately \$2.3 billion) and more than 18,000 staff, primarily scientists and engineers. Fraunhofer has research centers and representative offices in Europe, USA, Asia and the Middle East, and more than 80 research units, including 60 Fraunhofer Institutes, at different locations in Germany. The Fraunhofer IKTS with its staff of 620 highly educated engineers, scientists and technicians is a world leading institute in the field of advanced ceramics for high-tech applications. The primary markets for Fraunhofer IKTS include energy and environmental technology with a focus on fuel cell development and commercialization. Website: [www.ikts.fraunhofer.de/en.html](http://www.ikts.fraunhofer.de/en.html).

#### **About FuelCell Energy Solutions GmbH**

FuelCell Energy Solutions manufactures, sells, installs, and services stationary fuel cell power plants that efficiently and economically generate electricity and usable high quality heat suitable for making steam. Administrative offices are located in

Dresden, Germany and manufacturing operations are located in Ottobrunn, Germany. Continuous power generated at the point of use with the virtual absence of pollutants supports energy security and power reliability as well as sustainability initiatives. Ultra-Clean baseload distributed generation is attractive to electric utilities, universities, hospitals, government facilities, industrial operations and other locations with significant power needs. For more information please visit our website at [www.fces.de](http://www.fces.de).

*This news release contains forward-looking statements, including statements regarding FuelCell Energy, Inc.'s plans and expectations regarding the continuing development, commercialization and financing of its fuel cell technology and business plans. All forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially from those projected. Factors that could cause such a difference include, without limitation, general risks associated with product development, manufacturing, changes in the regulatory environment, customer strategies, potential volatility of energy prices, rapid technological change, competition, and FuelCell Energy, Inc.'s ability to achieve its sales plans and cost reduction targets, as well as other risks set forth in the FuelCell Energy, Inc. filings with the U.S. Securities and Exchange Commission. The forward-looking statements contained herein speak only as of the date of this press release. FuelCell Energy, Inc. expressly disclaims any obligation or undertaking to release publicly any updates or revisions to any such statement to reflect any change in FuelCell Energy, Inc.'s expectations or any change in events, conditions or circumstances on which any such statement is based.*

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CONTACT: FuelCell Energy Solutions GmbH

Andreas Froemmel

VP of Business and

Commercial Development

+ 49 351 2553 7390

afroemmel@fces.de

FuelCell Energy, Inc.

Kurt Goddard

Vice President Investor Relations

+01 203-830-7494

ir@fce.com

Fraunhofer IKTS

Katrin Schwarz

+49 2553 7720

katrin.schwarz@ikts.fraunhofer.de