

FRAUNHOFER INSTITUTE FOR CERAMIC TECHNOLOGIES AND SYSTEMS IKTS

ANNOUNCEMENT

Portable energy from Dresden

eneramic® fuel cell system to be demonstrated at 11th International Hydrogen and Fuel Cell Expo 2015 in Tokyo

The Fraunhofer Institute for Ceramic Technologies and Systems IKTS reveals insights into its mobile energy generator eneramic®. Visitors will see the 100 W continuous electrical power generator that is excellently suited for a broad range of leisure and industrial applications.

The portable light-weight system eneramic® is operated with commercially available liquefied petroleum gas (LPG). Built as a fuel cell-battery-hybrid, eneramic® converts LPG into electricity. Compared to all alternative solutions, the system allows a whisper-quiet and emission-free operation with far less fuel. As it is equipped with a ceramic solid oxide fuel cell (SOFC), a cost-effective and robust system design is realized. eneramic® provides continuous power and works reliably in a 24/7 mode under any weather condition. The system is designed for industrial off-grid applications with a small power demand, but very long runtimes. The latest prototype generation was successfully demonstrated in field trials with remote traffic control systems and cathodic corrosion protection devices. Later product versions will be offered also for leisure applications and micro-CHP in residential buildings.

eneramic® is the most prominent example of research and development activities at Fraunhofer IKTS in the field of SOFC system engineering.

Based on proprietary stack technology and established processes for system development projects, customized SOFC solutions can be provided for a wide range of commercial applications.

We invite you to visit us at the German Pavilion in **West Hall 2, Booth W13-66**.

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FC Expo
German Pavilion
West Hall 2, W13-66

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eneramic® fuel cell system is applicable for a broad range of commercial applications.

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Core component of fuel cell systems: Fraunhofer IKTS customizes SOFC stacks for various applications and performance classes.

The **Fraunhofer-Gesellschaft** is the leading organization for applied research in Europe. Its research activities are conducted by 66 institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of nearly 24,000, who work with an annual research budget totaling more than 2 billion euros. Of this sum, around 1.7 billion euros is generated through contract research. More than 70 percent of the Fraunhofer-Gesellschaft's contract research revenue is derived from contracts with industry and from publicly financed research projects. International collaborations with excellent research partners and innovative companies around the world ensure direct access to regions of the greatest importance to present and future scientific progress and economic development.