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SUNFIRE.
SOLUTIONS FOR ENERGY EVERYWHERE.

VISIT US!
IN HANNOVER, GERMANY
APRIL 25TH - 29TH, 2016

Energy



Sunfire presents the broad range of possibilities to provide energy everywhere.

Visit us at Hannover Messe 2016, April 25th - April 29th

Dear Customer,
Dear Partner,

The Hannover Messe in Hannover, Germany, is the world's leading trade fair for industrial technology.

Visit us in **hall 27, stand H24**, area Decentralized Energy Supply. We inform you in details about the variety and flexibility of our fuel cell and electrolysis systems.

Together with our partners, we will be presenting our current projects:

- Reversible electrolysis system for renewable, low-cost hydrogen production
- Heating appliance for single- and multi-family home (combined heat & power)
- Commercial generator for industrial heat & power
- Off-grid generator for decentralized, remote energy supply and cathodic corrosion protection for pipelines

From April 25th until April 29th, you have the opportunity to visit our stand and discuss with our management team solutions for decentralized, efficient, on-demand power generation as well as renewable hydrogen and fuel production.

On Monday, April 25th, 12.20 pm, Sunfire's CFO, Nils Aldag, will be speaking about

"Bundled Expertise for Shaping the Future Energy System",

together with Chip Bottone, CEO of FuelCell Energy Solutions and Lukas Rohleder, Managing Director of Energy Saxony e.V.

Location: Public Forum, hall 27, stand C66 / April 25th, 12.20 pm.

We are looking forward to your visit and to having a personal meeting with you! Get in touch with us prior to the exhibition and we will be happy to arrange an appointment with you and our management team. The person to contact is Mrs. Olesja Schumann, e-mail address: olesja.schumann@sunfire.de.

Sincerely,

Your Sunfire-Team

Please use the following link to the e-invitation-tickets for your entrance to the show:

<http://www.hannovermesse.de/ticketregistration?R2fxaug2peyw2s>

WOULD YOU LIKE MORE DETAILS ON OUR CURRENT PROJECTS?

Please feel welcome to read the summary:

The RSOC module is the first solution to combine electrolysis and fuel cell functionality in a single industrial-scale system. The module was jointly developed by Sunfire and Boeing and delivered to a US Navy microgrid test facility in January 2016. It is now being put through its paces as a means of producing hydrogen using energy generated with the aid of photovoltaic arrays or wind turbines (electrolysis mode). The resultant hydrogen can be stored in a highly compressed form and converted back to electrical power using the RSOC module's fuel cell mode. Renewable energy is therefore available whenever it is required.

Sunfire is currently also developing an RSOC module set to be installed at a German steel manufacturer for the purpose of decentralized green hydrogen production. To date the hydrogen required for the heat treatment of steel has generally been produced from natural gas at central steam reforming plants before being trucked in small quantities to the respective place of consumption. The fact that the RSOC module can be switched between electrolysis and fuel cell mode means that it can essentially be operated cost-effectively around the clock - thus making decentralized hydrogen production a viable financial option.

It is not just steel manufacturing firms that stand to benefit from the highly efficient production of green hydrogen at the point of consumption, with interest also expected from a host of other industries such as glassmaking and the chemicals sector.

RSOC technology bridges the gap between the energy, mobility, chemicals and gas and heat supply sectors. The flexible system's ability to act as either an electrical load or a generator of electrical power makes it possible to significantly increase the proportion of renewable energy within the overall energy system.

Fuel cells for off-grid and on-grid applications

High-temperature fuel cells highlight the suitability of Sunfire's technologies for a broad range of applications. They are not only ideal for use as micro power stations for single-family and multi-family houses, but also durable enough for applications in off-grid regions characterised by extreme climatic conditions. Sunfire and its partners Vaillant, Termokapital and ThyssenKrupp Marine Systems will be presenting three applications in Hannover.

Cooperation between Sunfire and Vaillant has yielded a compact fuel cell heating device which is set to be ready for series production - and in turn installation in single- and multi-family houses - by the end of 2016. The Vaillant-branded device will be on show at the Sunfire stand and can be used in combination with natural gas, biogas or hydrogen to deliver environmentally friendly heat and power according to the principle of cogeneration at 90 percent overall efficiency.

Fuel cell heating devices are just one of a variety of potential applications for fuel cell technology, which could also be used to generate off-grid power for gas pipelines in Russia or supply environmentally friendly energy to ancillary units and supply systems on ships (currently being tested in cooperation with ThyssenKrupp Marine Systems as part of the SchiffsBZ project).

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