

NEW ENERDAY BECOMES SUNFIRE FUEL CELLS

- Sunfire GmbH from Dresden consolidates fuel cell activities in a competence centre in Neubrandenburg as Sunfire Fuel Cells GmbH
- Managing directors are Dr. Matthias Boltze and Andreas Frömmel
- Fuel cell technology from Sunfire, Vaillant and new enerday merges into platform technology for micro-CHP (Sunfire-Home / Sunfire-Remote)

Neubrandenburg, February 19th, 2019. **New enerday becomes Sunfire Fuel Cells: After the takeover by Sunfire GmbH in autumn 2018, the competence centre for fuel cells in Neubrandenburg now operates under the name Sunfire Fuel Cells GmbH. Managing directors of the cleantech company are Dr. Matthias Boltze, who has been in charge of new enerday until now, and Andreas Frömmel, who also remains Vice President Sales & Marketing at Sunfire in Dresden. Sunfire Fuel Cells is now advancing a joint platform technology for micro-CHP devices for residential buildings and off-grid power supply.**

"With the new structure, we are consolidating Sunfire's fuel cell activities in Neubrandenburg by creating a centre of excellence for fuel cells that is unique in Germany - both for domestic requirements and for off-grid applications," explains Sunfire CEO Carl Berninghausen. The know-how that Sunfire has acquired as a stack supplier and manufacturer of fuel cell heating devices, as well as new enerday's experience with compact, highly integrated portable systems and the knowledge from its former partner Vaillant will be combined.

Vaillant has paused its CHP activities after the development of the successful 6th generation and transferred the existing knowledge to Sunfire: "The combination of many years of research and development by the three German fuel cell specialists has resulted in the highly attractive solid oxide fuel cell systems that will go into series production at the end of 2019," Berninghausen says.

Sunfire-Home: Add-on device for residential buildings without gas grid connection

With Sunfire-Home, Sunfire Fuel Cells is introducing an add-on device for supplying electricity and heat to single-family households that do not have a gas grid connection and, for example, would like to replace the existing oil heating with an environmentally friendly, efficient and innovative system. The micro-CHP solution offers a rated electrical output of 750 watts and a thermal output of 1,300 watts. In addition to reducing emissions, the advantages of Sunfire-Home include high efficiency, fully automatic operation with remote access and simple integration with modern building technology such as a peak load boiler and a hot water storage tank.

The Sunfire-Home fuel cell system can be operated both with LPG (liquid gas) and natural gas from the grid in the future. As part of the PACE market launch program, funded by the Fuel Cells and Hydrogen Joint Undertaking (FCH JU) with Horizon 2020, the first 500 devices will be placed on the market.

Sunfire-Remote: Energy supply in off-grid applications

Looking at Sunfire-Remote, the Neubrandenburg-based company promotes compact solid oxide fuel cells (SOFC) for self-sufficient and off-grid power supply from liquid gas, which are also available for car trailers as a hybrid system with batteries and photovoltaic elements. Typical applications include the power supply of measuring and control equipment for oil and gas pipelines, the signal lighting of wind farms in the construction phase and the mobile power supply for security systems and telecommunications stations.

Sunfire-Remote has an electrical output of 400 watts and can be powered by conventional liquefied petroleum gas (LPG) in off-grid applications. When configured as a hybrid system, it also serves applications with more than 1.2 kilowatts.

ABOUT SUNFIRE

Sunfire Fuel Cells GmbH is an innovative competence center for fuel cells based in Neubrandenburg in Germany. The company, which has not only been known among experts as the new enerday GmbH since 2010, was acquired by Sunfire GmbH in Dresden in 2018 and is now a wholly-owned subsidiary directed by Dr. Ing. Matthias Boltze and Andreas Frömmel.

One core product of Sunfire Fuel Cells is Sunfire-Home, a fuel cell based combined heat and power system for residential buildings without a gas grid connection to substitute oil heating systems for instance. The market launch is expected in the last quarter of 2019. The smart device is characterized by low electricity generation costs, high efficiencies, longevity and easy integration.

With Sunfire-Remote, the company also offers compact fuel cell units for self-sufficient and off-grid power supply fueled with LPG, which are also optionally available in a car trailer as a hybrid system with batteries and photovoltaic elements. The Sunfire-Remote ensures low electricity generation costs through its high efficiency. Moreover, it is reliable, easy to maintain and robust.

Sunfire Fuel Cells uses the highly efficient SOFC (Solid Oxide Fuel Cell) stack technology from Sunfire that has been successfully used in various applications since 2012.

Further information at <http://www.sunfire.de/en>

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