

SUNFIRE CONCENTRATES FUEL CELL ACTIVITIES IN NEUBRANDENBURG

- Sunfire contributes Vaillant IP and know-how to the European market development project PACE to provide their own residential fuel cell
- Sunfire will acquire all shares of new enerday GmbH, a specialist of small fuel cells for remote and residential applications, per first of October, 2018
- Concentration of all stationary SOFC development and manufacturing activities in Neubrandenburg, Germany
- Headquarter with R&D activities and manufacturing facilities for electrolysis to produce hydrogen and synthetic fuels from renewable power will remain in Dresden, Germany

Dresden/Neubrandenburg (Germany), September 26th 2018

Sunfire GmbH is focusing strategically on sector integration with renewable hydrogen and synthetic fuels at their premises in Dresden to be ready for industrial scale up.

All fuel cell activities will be concentrated at a single location, therefore Sunfire acquired the new enerday GmbH in Neubrandenburg from ElringKlinger AG. Sunfire's off-grid power production with 3 kW was installed e.g. along the gas pipelines of Gazprom in Siberia. Nowadays Sunfire advances the fuel cell portfolio for off-grid power production by small units (400 W) and micro-CHP solutions (750 W) for residential buildings. This high-temperature fuel cells are fueled with natural gas, bio gas or liquid propane gas.

During the longstanding partnership to develop residential fuel cell systems, Sunfire delivered initially only the core of Vaillant's units based on Sunfire's SOFC technology while Vaillant provided the surrounding system. With the realignment Sunfire took over patent licenses and the know-how of the system development exclusively from Vaillant. The – with new enerday – advanced development and manufacturing resources in this field help Sunfire to deliver a complete residential fuel cell system Sunfire-Home to the market, able to be combined with the standard heating equipment of the leading suppliers. Market introduction starts in the segment of those residential customers with no gas grid access. It's often difficult for them to find an alternative sustainable replacement of the oil heaters mostly used in existing buildings. A limited number of 500 units will be sold via selected liquid gas suppliers to the market at competitive price comparable with cost of traditional heating systems. This will be done with the support of the European FCH-JU funding project PACE.

The remote or off-grid power production is dedicated to certain industrial sectors. There is a special focus on signal and surveillance applications beside oil and gas industry and followed by telecommunication.

This investment is another consistent step according Sunfire's vision to provide clean energy in every sector at volume and time as it is needed.

ABOUT SUNFIRE

Founded in 2010, Sunfire GmbH develops and manufactures steam-electrolysers (SOEC) and high-temperature fuel cells (SOFC).

Steam electrolysis splits steam into hydrogen and oxygen. It is a particularly efficient method powered by renewable energy. The resulting hydrogen can be efficiently converted to a crude oil substitute using Sunfire's power-to-liquids process. Alternatively, it can be used for H2 mobility and in industrial applications without any further processing. The economic value chains of these processes are based on the open-grid concept.

High-temperature fuel cells from Sunfire can be used to produce power and heat particularly efficiently based on cogeneration. Decentral cogeneration at the lower end of the power output range is seen as an energy concept of the future as it allows power and heat to be generated on demand exactly where it is needed. Sunfire collaborates with the most appropriate partners for individual markets here.

Sunfire was founded by Carl Berninghausen, Christian von Olshausen and Nils Aldag. The company is supported by business angels ('Sunfire Entrepreneurs Club'), INVEN Capital, the ERP Startfonds at the KfW bank, Total Energy Ventures and Electranova Capital, which is financed, in turn, by the EDF Group and Allianz.

For further information, visit www.sunfire.de

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