

Sunfire launches new off-grid fuel-cell

Dresden, Germany (December 22, 2020) – German cleantech company Sunfire GmbH recently introduced their latest off-grid fuel cell device, the Sunfire-Remote 900. Designed to provide quiet, off-grid power generation for industrial and governmental applications, the Sunfire-Remote 900 provides an average electrical output of up to 850 watts (or multiples thereof in parallel installations).

The Sunfire-Remote 900 utilizes solid oxide fuel cells (SOFC). Using propane or natural gas, they achieve electrical efficiencies of up to 35%, with overall efficiencies of up to 90% being possible by optimizing heat utilization. Key features of the Sunfire-Remote 900:

- High efficiency: Low fuel consumption and reduced logistics costs.
- Long maintenance intervals: Continuous power generation for weeks or months.
- Off-grid independence: Produces reliable power and heat generation anywhere utilizing low-cost propane from standard bottles or tanks.
- Environmentally friendly: Minimum emissions, quiet operation, no vibrations, no lubricants and no risk of pollution due to leaks.

The Sunfire-Remote 900 can be used to provide an economical source of sustainable, reliable year-round off-grid power for a wide range of applications. Examples include infrastructural integrity monitoring and control (pipelines, bridges, buildings), telecommunications (private LTE networks, microwave radio and repeater stations), safety and security (CCTV, lighting, access control, traffic control, police applications), as well as weather and environmental monitoring.

The Sunfire-Remote 900 fuel-cell is suitable for use in a wide range of temperatures, from -20 to 55 °C. Using a special low temperature enclosure, operation at temperatures down to -40 °C is possible. Long maintenance intervals allow reliable, autonomous operation, even over extended periods of time.

The use of commercially available propane or natural gas enables low installation and operating costs. When used with hybrid systems utilizing solar power, fuel-cells help ensure reliable power during times when limited daylight, snow and ice can hamper solar generation. This “as needed” approach ensures sufficient power is always available, while reducing emissions and extending fuel-cell service life.

About Sunfire

Founded in 2010, Sunfire GmbH is a recognized global industry leader in solid oxide technology. The company product portfolio includes high-temperature fuel cells (SOFC) and high temperature electrolyzers (SOEC).

All Sunfire-Remote fuel cell devices are CE qualified and marked, NRTL certification for North America is pending. Since 2014, Sunfire has been annually honored with the Global Cleantech 100 award, which features leading companies in sustainable innovation.

For more information on Sunfire and their products, please visit www.sunfire-remote.com

For Sunfire North American sales and information, please visit Ensol Systems at

<https://www.ensolsystems.com/>