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For Immediate Release

PRESS RELEASE

Fully integrated ultra-low power module “Silent Energy” to be launched at IDTechEx in Berlin on April 11th.

Silent Sensors and Comberry participate in a new project to create a fully integrated solution for low power applications.

Berlin, April 11th, 2018

Combining the know-how and expertise of two technology leaders, Silent Sensors Ltd of England and Comberry LLC of Russia, Silent Energy is a new, fully integrated high temperature ultra-low power system.

Silent Energy incorporates energy harvesting, energy storage and power management in a single device. It extends the usability of ultra-low power systems for applications that were not previously possible, such as tyres and other products made from rubber and polymers. Modules will be tailored and custom built to meet a client’s specific performance requirements.

“We are very excited about the opportunity to be working with Silent Sensors and look forward to continued development with our partners.” says Dr. Liubov Ebralidze, CEO of Comberry. “At Comberry, we believe our collaboration with Silent Sensors will help advance our mutual goals of developing world class Ultralow Power Solutions across a broad range of industrial applications. We are sure that Silent Energy will become an enabler of smart flexible materials.”

Comberry and Silent Sensors met for the first time in 2017 at the IDTechEx Show! in Berlin. Since then, they have worked closely on the requirements for a supercapacitor that works with energy harvesting for ultra-low power systems. After a series of trials, both companies are confident they can develop a solution by the end of this year that can be integrated into the flexible patch that Silent Sensors has developed for tyres.

Silent Sensors CEO Marcus Taylor said, "Since meeting Comberry last year in Berlin we have been working closely together to address the needs of high temperature applications for the rubber, polymer and elastomer sectors. Our multi-disciplinary team approach is paying dividends."

Visitors to IDTechEx Berlin can see a demonstrator module that the Silent Energy team have developed, working with a range of energy harvesting materials, including triboelectric, piezoelectric and vibrational.

IDTechEx

April 11-12, 2018

Estrel Convention Center

Berlin, Germany

The IDTechEx Show presents the latest emerging technologies at one event, with nine concurrent technologies and a single exhibition covering 3D Printing, Electric Vehicles, Energy Harvesting, Energy Storage, Graphene, Internet of Things, Off Grid Energy Independence, Printed Electronics, Sensors and Wearable Technology.

Silent Sensors and Comberry are exhibiting Silent Energy at Stand Nr. O08, where visitors can meet Comberry CEO Liubov Ebralidze and Silent Sensors CEO Marcus Taylor.

About Silent Sensors, Ltd.

Silent Sensors is an innovative provider of smart electronics for rubber, polymer and elastomer based materials. The company's core activities are Research and Development, Solution Engineering, Applications and Components. Silent Sensors is partners with and is actively supported by Industry and Academia in these activities.

The company designs, manufactures and supplies products and services incorporating RFID tags, sensors, energy harvesting and data delivery through the Cloud to in-field Apps. Silent Sensors also help companies design, develop and create solutions that meet specific needs for their industry or product offering. The company provides industry-ready packages ready made with its own and bought-in components that meet specific application needs. This includes open APIs for integration with existing systems as well as out-of-the-box cloud-based data management.

These solutions create exciting opportunities for managing the complete lifecycle of physical assets, from manufacture to recycling. Real time status and performance data increase asset performance and reduce the total cost of operations for their owners. Leveraging the power of data also helps companies transform their businesses to match and take advantage of changing market trends and customer preferences. Many companies see self-powered lifecycle management systems as their future differentiator.

Silent Sensors has operations in England, France, Italy, the Netherlands and the USA.

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About Comberry, LLC.

Comberry, LLC. is a research company established in 2013 in collaboration with Intermolecular, Inc. of California and is based in the Ulyanovsk Nanotechnology Center "Ulnanotech" in Ulyanovsk, Russia.

Comberry does R&D in the field of multifunctional thin film materials, solid state electrolytes and devices for performance tailored ultra-low power sources such as supercapacitors, pseudo-capacitors, hybrid capacitors and batteries.

Comberry's innovative high throughput R&D platform allows hundreds of experiments to be conducted simultaneously. The results are quickly studied with special analytical methods to determine the most promising materials and processes for fabrication of integrated devices.

Combinatorial technology, in conjunction with a top-notch team of experts, accelerates research cycles and increases their efficiency, which in turn contributes to cost efficient and seamless implementation of innovative solutions for mass production.

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