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Clamp-on subsystem for harvesting energy from dispensed hot water

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Advanced Thermobility technology converts heat into electric power...

NEXTREME DEVELOPS ENERGY HARVESTING SUBSYSTEMS FOR WIRELESS SENSORS, POWER GENERATION & DATA ACQUISITION IN PLUMBING & HVAC APPLICATIONS

DURHAM, N.C. (November 15, 2011) — Nextreme Thermal Solutions, the leader in micro-scale thermal management and power generation solutions, has developed two new energy harvesting subsystems for the plumbing and HVAC industries. The subsystems are the latest additions to Nextreme's Thermobility™ energy harvesting platform that uses thin-film thermoelectric technology to convert available thermal energy into electric power for a variety of autonomous self-powered applications.

Thermobility uses differences in temperature to enable power anywhere there is an adequate heat source. The advanced technology eliminates the need to use traditional wired power sources or replaceable batteries. When paired with wireless transmitters, the Thermobility solution can provide electric power for years of maintenance-free operation, thus expanding the possibilities for new wireless sensor applications in plumbing, HVAC, industrial control, transportation, automotive and building management. Thermobility is the ideal power source for wireless transmission applications.

Nextreme is actively applying Thermobility energy harvesting in the development of plumbing subsystems. Water in plumbing fixtures provides an excellent source of thermal energy for a variety of "green plumbing" applications. Thermal energy from water supply lines under a sink and during flush valve operations can be converted to electricity as a source of power for LED status indicators, hands-free faucets, soap dispenser solenoids, and wireless transmitters for data acquisition applications. Harvested power can help reduce the size of batteries or eliminate them entirely depending on the application. More information on Nextreme's plumbing subsystems can be found at www.nextreme.com/plumbing.

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Nextreme Develops Energy Harvesting Subsystems for Wireless Sensors, Power Generation and Data Acquisition In Plumbing and HVAC Applications, Page 2

The HVAC industry can employ Thermobility wireless power generators in applications for sensing of temperature, humidity and airflow in HVAC systems. Wireless Thermobility sensor subsystems can harvest thermal energy from the hot or cold temperature differences found in air plenums, thus eliminating the need to provide wires to these devices.

In addition, these HVAC subsystems can store energy and provide on-demand power while reducing the total cost of ownership by eliminating the prohibitive cost of battery replacement.

"It's clear that we're heading in the direction of becoming a subsystem provider," said Bob Collins, Vice President of Business Development at Nextreme. "We will continue to manufacture and market thin-film thermoelectric modules to our customers, however, we have found that when we're involved in developing systems with our customers, we can help them develop a higher-performing solution more rapidly and ultimately at a lower cost."

The new plumbing and HVAC subsystems will be demonstrated at the Nextreme booth at the Energy Harvesting & Storage USA conference in Boston on November 15 and 16.

More information on the Thermobility platform and wireless power generation can be found at www.nextreme.com/thermobility. Contact Nextreme at 3908 Patriot Drive, Suite 140, Durham, NC 27703-8031; call (919)-597-7300; e-mail info@nextreme.com; or go to www.nextreme.com.

About Nextreme Thermal Solutions™, Inc.

Nextreme Thermal Solutions is a leading manufacturer of thin-film thermoelectric modules and sub-systems for growing markets worldwide. Micro-scale form factors, high power-pumping capabilities and a high-volume semiconductor manufacturing process enables low-cost, high-performance thermal management and energy harvesting solutions. For more information, visit www.nextreme.com.

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