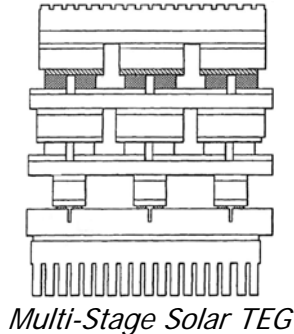


FOR IMMEDIATE RELEASE
September 23, 2010



Multi-Stage Solar TEG

For more information, contact:

Karl von Gunten
Nextreme Thermal Solutions, Inc.
(919) 597-7348
kvongunten@nextreme.com

Mary Bohenek
BtB Marketing Communications
(919) 872-8172
mary.bohenek@btbmarketing.com

New thermoelectric device design and materials technology can boost solar thermal energy conversion efficiency...

NEXTREME AWARDED PATENT FOR INNOVATIVE HIGH-TEMPERATURE SOLAR THERMOELECTRIC POWER GENERATOR

DURHAM, N.C. (September 23, 2010) — Nextreme Thermal Solutions, the leader in microscale thermal and power management products for the electronics industry, today announced that it has been awarded a United States patent for the design of an innovative solar thermoelectric generator (solar TEG) for high-temperature solar thermoelectric energy conversion.

Patent #7,638,705 - *Thermoelectric Generators for Solar Conversion and Related Systems and Methods* describes a method of using thermoelectric generators in combination with thermally conductive plates to generate power in response to solar radiation. Thermoelectric devices generate electricity via the Seebeck Effect, where voltage is produced from a temperature differential applied across the device.

High-temperature solar thermal systems that incorporate solar concentrators can operate between 600° and 700°C. At those temperatures, a multi-stage cascade thermoelectric power generator, as depicted in the above illustration, may provide a design efficiency of well over 15%. Design efficiencies in this range permit flexibility and adaptability to new and cost-effective real-world solar thermal systems.

"One of our missions is to harness new sources of energy using disruptive thermoelectric materials and device technology," said Jim Mundell, chief operating officer at Nextreme. "This solar TEG patent demonstrates our continued leadership in developing new solutions for clean energy harvesting."

The invention was developed in collaboration with Dr. Rama Venkatasubramanian, director of the Center for Solid State Energetics at [RTI International](http://www.rti.com) in Research Triangle Park, North Carolina.

-more-

Nextreme Awarded Patent for Innovative High-Temperature Solar Thermoelectric Power Generator, Page 2

Nextreme is seeking commercial partners to further develop the technology for large scale solar thermal energy harvesting solutions. Contact Nextreme at 3908 Patriot Dr., 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 offers electronics cooling and energy harvesting solutions for telecommunications, semiconductor, consumer, medical, aerospace and government markets. The company uses microscale thermoelectric technology and high-volume semiconductor manufacturing processes to address the growing needs for advanced thermal management and clean-energy solutions world-wide. Nextreme also offers sophisticated modeling, design, engineering, and contract manufacturing services to deliver fully-optimized solutions from standard and customized products that solve the most challenging thermal and power management issues. Nextreme's headquarters and manufacturing facility are based near Research Triangle Park, North Carolina. Visit www.nextreme.com.

###

For additional information or to request the electronic image, please email mary.bohenek@btbmarketing.com or call 919-872-8172.