Solar energy turns cold power generation

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University of Rochester researchers have developed a way to make solar thermoelectric generators (STEGs) 15 times more powerful, potentially closing the efficiency gap with conventional solar...

EU-funded researchers have developed an organic Rankine cycle that generates electrical and thermal energy from different types of heat resources: concentrated solar systems and ...

The inevitable increase in military installations and surveillance technologies means novel cold tolerant energy generation and storage systems are more urgently needed.

Normally photovoltaic cells have enabled distributed power generation during the day, but do not work at night. Thus, efficient electricity generation technologies for a sustainable all-day ...

The study showed increased solar energy potential in all six U.S. regions during heat extremes, and in all but one region during cold ones, the area covered by the Texas-run grid.

The present study attempts to integrate the Cold Thermal Energy Storage (CTES) technology into the S-CO 2-based solar power tower system for the first time, to make use of large ...

Led by Linxiao Zhu, assistant professor of mechanical engineering, the team developed and tested a dual cooling and power strategy that simultaneously harvests solar energy in a solar cell ...

Researchers at Penn State University have developed a method of using solar energy and the incredibly cold temperatures of outer space to create both renewable energy and cooling ...

This multifunctional material offers new insights into the repeatable storage and high-quality utilization of solar energy, holding significant scientific implications for the development ...

With so much energy available from heat, we"ve ignored another source of power: cold. The coldness of deep

space is a thermodynamic resource, and largely untapped.

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