



# Solar system without cooling





## Overview

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Imagine a device that can sit outside under blazing sunlight on a clear day, and without using any power cool things down by more than 23 degrees Fahrenheit (13 degrees Celsius). It almost sounds like magic, but a new system designed by researchers at MIT and in Chile can do exactly. Imagine a system that's able to provide cooling for air conditioning in buildings, refrigeration of food, and a host of other applications. all without electricity. Images for download on the MIT News office website are made available to non-commercial entities, press and the general public under a Creative Commons Attribution Non-Commercial No Derivatives. The entire cooling process is done without electricity.



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[System provides cooling with no electricity](#) , [ScienceDaily](#)

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### **This remarkable cooling system runs on sunlight and saltwater--no**

When certain salts are dissolved in water, they absorb heat, which cools down the water. When built into a large-scale system, the technology could provide a cooling effect without the need



### **How a new cooling system works without using any electricity**

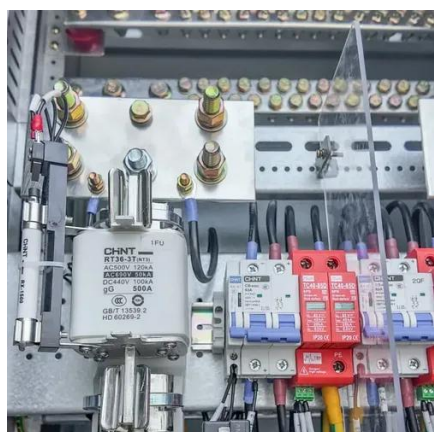
The researchers are focused on making their panels integrate easily with standard air conditioning and refrigeration systems and they are particularly excited at the prospect of applying

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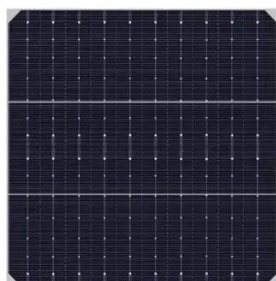
### **How an MIT researcher's zero-electricity cooling system could reduce**

The system combines radiative, evaporative, and thermal insulation technologies in a slim package that resembles existing solar panels.



## New cooling system uses gravity instead of electricity to keep solar

To address this, KAUST Professor Qiaoqiang Gan and his international team have created a device that can cool solar panels and harvest water from the air using only gravity. This system also



## Scientists Discover A New Way to Keep Solar Panels ...

With ideas like gravity-powered cooling systems on the horizon, the future of solar energy looks brighter than ever--no electricity required.

## [New Breakthrough in Zero-Energy](#)



## Technology Keeps ...

This zero-energy technology may soon replace conventional cooling technologies, offering an alternative that requires only water to function.



## MIT Device Cools With No Electricity or Moving Parts

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