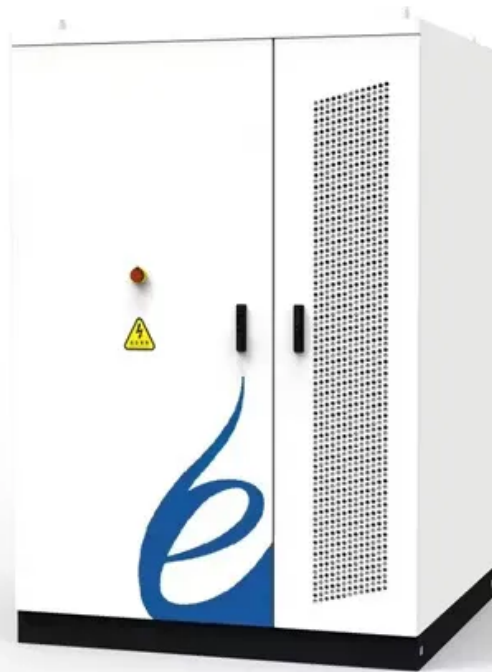


# **Mit invents \$4 solar desalination device**





## Overview

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Massachusetts Institute of Technology (MIT) researchers have developed a solar desalinator with high water output, via a multi-stage system of evaporators and condensers. It offers cost-effective solar desalination, making solar-produced drinking water cheaper than tap.

Massachusetts Institute of Technology (MIT) researchers have developed a solar desalinator with high water output, via a multi-stage system of evaporators and condensers. It offers cost-effective solar desalination, making solar-produced drinking water cheaper than tap.

MIT engineers and collaborators developed a solar-powered device that avoids salt-clogging issues of other designs. 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.

Engineers have created countless solar desalination devices, but for the devices to make a difference in the places that need them the most, they need to be not only cheap and efficient, but also durable and long-lasting. A new, cheap solar desalination device uses gravity-driven convection to.

DETROIT – Researchers from MIT and China have developed a solar desalination device that could provide a family of four with all the drinking water it needs — and it can be made from just \$4 worth of materials. Solar desalination: Water covers more than two-thirds of Earth's surface, but 97 percent.

A tilted ten-stage solar-powered prototype desalination device is located in a "boat-like" reservoir. It efficiently turns seawater into drinkable water, potentially at costs lower than tap water production. Credit: Jintong Gao and Zhenyuan Xu MIT engineers and collaborators developed a.

Massachusetts Institute of Technology (MIT) researchers have developed a solar desalinator with high water output, via a multi-stage system of evaporators and condensers. It offers cost-effective solar desalination, making solar-produced drinking water cheaper than tap water for the first time.



Now, a team of researchers at MIT and in China has come up with a solution to the problem of salt accumulation — and in the process developed a desalination system that is both more efficient and less expensive than previous solar desalination methods. The process could also be used to treat. Does MIT invent a solar desalination device?

The post MIT invents \$4 solar desalination device that makes enough drinking water for a family of four appeared first on Organically Human. This animation demonstrates how natural convection quickly pulls the dense saltwater down. (Credit: MIT) Two prototypes of the solar desalination device undergoing outdoor testing.

Could a solar desalination device provide a family of 4?

Researchers from MIT and China have developed a solar desalination device that could provide a family of four with all the drinking water it needs - and it can be made from just \$4 worth of materials. Solar desalination: Water covers more than two-thirds of Earth's surface, but 97% of it is saltwater.

Can a cheap solar desalination device purify water?

A new, cheap solar desalination device uses gravity-driven convection to purify water. Researchers from MIT and China have developed a solar desalination device that could provide a family of four with all the drinking water it needs - and it can be made from just \$4 worth of materials.

How does MIT's new desalination system work?

MIT's new desalination system works by circulating water and using the sun's heat to evaporate it. This leaves salt behind, and the resulting water vapor can be condensed and collected as pure, drinkable water. The leftover salt continues to circulate through and out of the device, preventing it from accumulating and clogging the system.

Can a solar desalinators make drinking water cheaper than tap water?

Massachusetts Institute of Technology (MIT) researchers have developed a solar desalinators with high water output, via a multi-stage system of evaporators and condensers. It offers cost-effective solar desalination, making solar-produced drinking water cheaper than tap water for the first time.

How much does a solar desalination device cost?



But the best news is that it would cost just \$4 to build a solar desalination device large enough to meet the drinking water needs of a family of four, according to the MIT team. If it does prove durable, it could be a relatively cheap way to get freshwater to people in need of it.



## Mit invents \$4 solar desalination device

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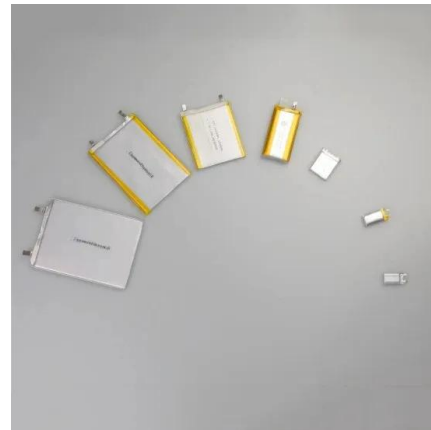


### [MIT researchers invent \\$4 solar-powered desalination ...](#)

Now, a team of researchers at MIT and in China has come up with a solution to the problem of salt accumulation -- and in the process developed a desalination system that is both more efficient and less expensive ...

### **Clip Daily Beast This New Device Can Deliver Clean Drinking**

MIT researchers have developed a solar-powered desalination system that "avoids salt buildup and could provide a family with continuous drinking water for only \$4," reports Miriam Fauzia ...



### **Desalination system could produce freshwater that is ...**

A new solar desalination system takes in saltwater and heats it with natural sunlight. The system flushes out accumulated salt, so replacement parts aren't needed often, meaning the system could potentially produce ...

### [MIT invents \\$4 solar desalination device : r/technews](#)

Sorry MIT, this type of technology has long been used at least at one research institute of the ETH in Switzerland, I used to work at. 20 years apparently: Sodis (solar disinfection) It is also widely in use already...



### [MIT Invents Solar Desalination Tech For \\$4 To ...](#)

DETROIT - Researchers from MIT and China have developed a solar desalination device that could provide a family of four with all the drinking water it needs -- and it can be made from just \$4 worth of materials.



### **MIT invents \$4 solar desalination device that makes enough**

Researchers from MIT and China have developed a solar desalination device that could provide a family of four with all the drinking water it needs - and it can be made from just \$4 worth



### **Marius Preston on LinkedIn: MIT invents \$4 solar desalination device**

"MIT invents \$4 SOLAR DESALINATION device It could make enough DRINKING WATER for a family of four." Kristin Houser -- June 4, 2022  
"KEY TAKEAWAYS" "- Water covers more than ...





### [This \\$4 Desalination Device Provides Drinking Water ...](#)

Researchers at MIT and in China have improved the old-fashioned solar still with a new inexpensive device that harnesses the sun to remove salt from water. Traditionally, these kinds of systems use...

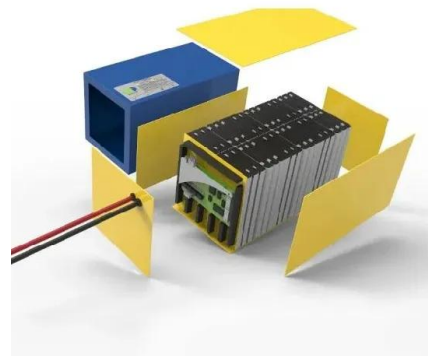


### [MIT researchers invent \\$4 solar-powered desalination ...](#)

MIT researchers have developed a solar-powered desalination system that is more efficient and less expensive than previous methods. In this schematic, a confined water layer above the floating thermal insulation enables ...

### [MIT's New Desalination System Produces Freshwater ...](#)

A tilted ten-stage solar-powered prototype desalination device is located in a "boat-like" reservoir. It efficiently turns seawater into drinkable water, potentially at costs lower than tap water production.



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