

# New solar desalination system





## Overview

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What is a solar-powered desalination system?

MIT engineers built a solar-powered desalination system that produces large quantities of clean water despite variations in sunlight throughout the day. Because it requires no extra batteries, it offers a much more affordable way to produce drinking water, compared to other solar-driven designs.

Is solar-powered desalination a sustainable alternative?

The increasing global demand for freshwater, coupled with the depletion of conventional water sources, has made desalination an important area of research. Solar-powered desalination presents a sustainable alternative by harnessing renewable energy to reduce carbon emissions and operational costs.

Can solar-powered desalination reduce energy consumption?

The Agadir desalination plant is a significant project in Morocco, utilizing both seawater and brackish water desalination. To reduce energy consumption and environmental impact, researchers are exploring solar-powered desalination systems.

How does MIT's solar-powered desalination system work?

According to the team, the design efficiently maximizes solar energy use to produce large amounts of clean water throughout the day. Moreover, unlike other solar-powered desalination systems, the MIT design operates without additional batteries or external power sources, like grid electricity.



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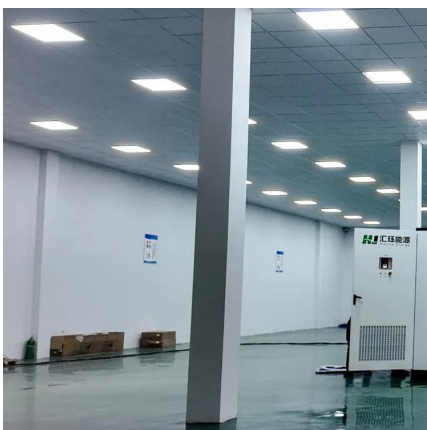


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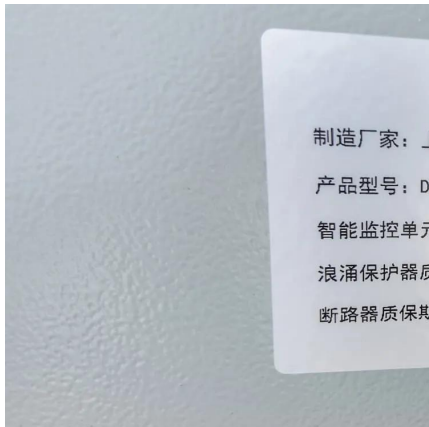


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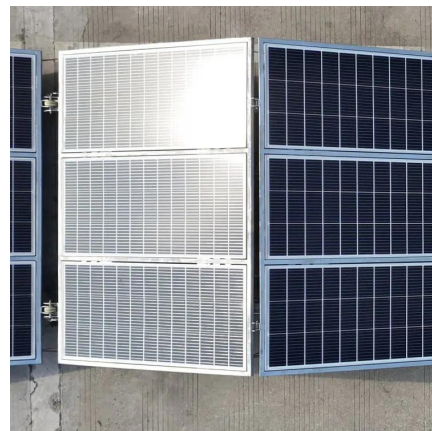


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