HJ Solar

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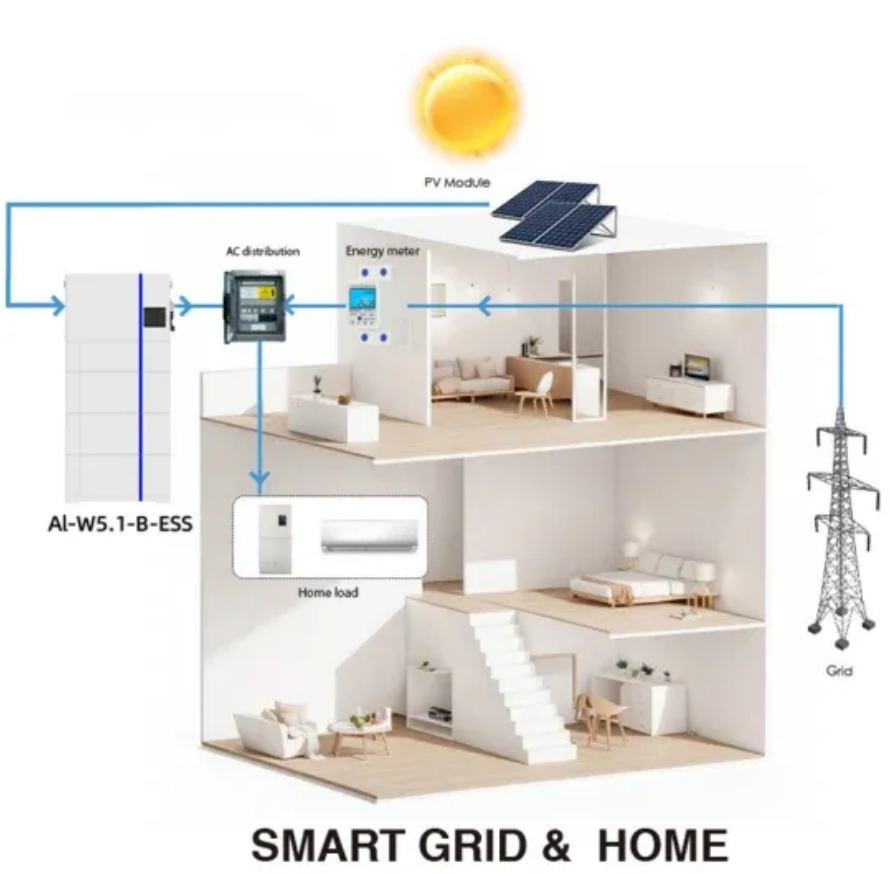

Overview

A solar-powered box has been developed that can extract 264 gallons of drinking water from the air each day, marking a major leap forward in sustainable water technology. MIT engineers have created an ultrasonic device that rapidly frees water from materials designed to absorb moisture from the air. When water condenses out of the material to be collected, the individual hydrogel spheres shrink back down to capture more moisture. This breakthrough could help tackle water shortages worldwide, offering a low-cost, sustainable way to produce drinking water without external energy.

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Scientists Develop New Solar Device That Squeezes Water From Air

Engineers from Australia and China have developed a sponge-like device that captures moisture from the air and releases it into a cup using solar energy. Unlike other technologies such as ...

MIT ultrasonic tech pulls drinking water from air in minutes

It can be powered by a small solar cell and programmed to cycle continuously throughout the day. The breakthrough could help communities with limited access to fresh water.

A scalding hot 'sand battery' is now heating a small Finnish town

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Solar-powered desalination unit shows great promise

Freshwater accounts for only about 2.5% of water on Earth, so much of the world experiences serious water shortages. Scientists report the development of a highly efficient ...

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