

Solar Energy South Africa

Homemade plastic bottle solar power generation



Overview

Can you make a solar water kettle from old plastic bottles?

I love solar energy and making things out of trash. This project combines the two loves into a solar water kettle made from old plastic bottles. This kettle will heat 16 oz of water in full sun to a nice hot/warm temperature for some sun tea or washing hands, but you'll have to wait a few hours or less depending on outside temperatures.

Why are solar panels made from recycled plastic bottles?

Things have changed thanks to ingenious but very simple solar panels made from recycled plastic bottles. It's the result of an initiative by Argentinian NGO Sumando Energias, which directly involves local communities. "This is a poor neighbourhood and sometimes we have no light or water," says resident Luis Alberto Quinona.

Who invented solar water heater?

In 2002, the retired mechanic transformed a pile of plastic bottles and cartons into a solar water heater. Since then, thousands of people in southern Brazil have benefited from Alano's invention, saving money while reducing waste. The idea came from the lack of recycling collection services in his small home town of Tubarão.

Can a solar water heater be recycled?

Eight years after its creation, the solar heater still takes a lot of his time, but he believes that now he will finally be able to focus on the multifunctional bed and other projects: 'The recycled solar water heater is only the result of persistence over frustration', he explains.

How do recycled solar panels work?

"These recycled solar panels help us a lot, we have children and it's useful having light and hot water even though we have no electricity." So how does

it work?

The homemade system is made of used soda cans, plastic bottles and milk cartons. As the sun heats the tubes of the solar collector, hot water flows into the storage tank.

How do you make a plastic bottle holder?

With the diagrams in the DIY leaflet as a guide, use the 100mm PVC pipe as a mould and cut off the bottom of the bottles. Cut the 20mm PVC pipes into 10 x 1m and 20 x 8.5 cm pieces, and assemble with the T-connectors. Cut and paint the cartons (pag.10-12), as well as the one-meter long pipes. Assemble according to figure B.

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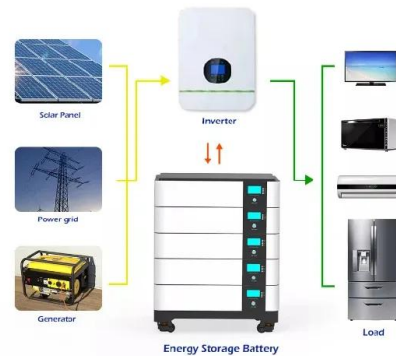


How to make a solar water heater from plastic bottles

How to make a solar water heater from plastic bottles. Giovana Zilli. , 6th May 2010. Retired mechanic Jose Alano invented a simple, cheap, energy saving rooftop solar water heater which is benefiting thousands of people.

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How to make a solar water heater from plastic bottles

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