



# Patented technology for heat dissipation of photovoltaic panels

This PDF is generated from: <https://sesona.co.za/04-09-25-29168.html>

Title: Patented technology for heat dissipation of photovoltaic panels

Generated on: 2026-06-08 03:13:56

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Enertopia's newly patented Solar PV Heat Recovery System represents an exciting breakthrough in renewable energy technology designed specifically for improving photovoltaic ...

Enertopia says its patented heat recovery technology can reduce heat from the solar panels, cooling them down for increased PV output and longevity of the panels.

The invention resides in the use of a heat dissipation layer of curable resin and carbon powder having increased heat-emission properties.

As such, researchers have undertaken extensive investigations into possible solutions aimed at enhancing the performance of photovoltaic cells using diverse techniques. This review ...

To reduce the working temperature of photovoltaic panels and improve the photoelectric conversion efficiency, this paper installs aluminum fins and air channels at the traditional photovoltaic ...

In this study, a phase-change material (PCM) is used to cool the PV panels, and fins are added to enhance PCM heat transfer. Using numerical simulation, the effects of fin spacing, fin ...

This review presents an overview of various PVT technologies designed to prevent overheating in operational systems and to enhance heat transfer from the solar cells to the absorber.

It is specifically engineered to utilize the hot waste air expelled by centralized air conditioning systems to cool the rear surfaces of solar panels. The dual-purpose approach not only...

In particular, the present disclosure pertains to back cooling of solar photovoltaic (SPV) panels, through the application of waste air from a centralized air conditioning system. Environmental ...



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Through advanced structural design and superior thermal management, our new technology significantly enhances heat dissipation. This patented design keeps the diode's core ...

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