

## HYBRID SYSTEM FOR IMPROVING THE ENERGY EFFICIENCY OF PHOTOVOLTAIC PANELS

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## **Description**

The solution involves a panel placed on the back of the photovoltaic panel and which has a system of channels, of variable section through which the cooling fluid circulates, which can be water for the preparation of hot water or air for heating a room.

## **Advantages**

- Increasing the efficiency of photovoltaic panels by cooling them with fluid knowing that the efficiency of the panels increases with the decrease of their temperature.
- Improved thermal comfort by using solar heat to heat water and/or spaces without relying excessively on traditional heating or air conditioning systems, reducing the carbon footprint by reducing pollution and conserving natural resources.
- Simultaneous generation of electricity and domestic hot water or hot air. The electricity produced by the solar panels can power electrical appliances, and the heat from the cooling fluid can be used to heat water or heat indoor spaces.

