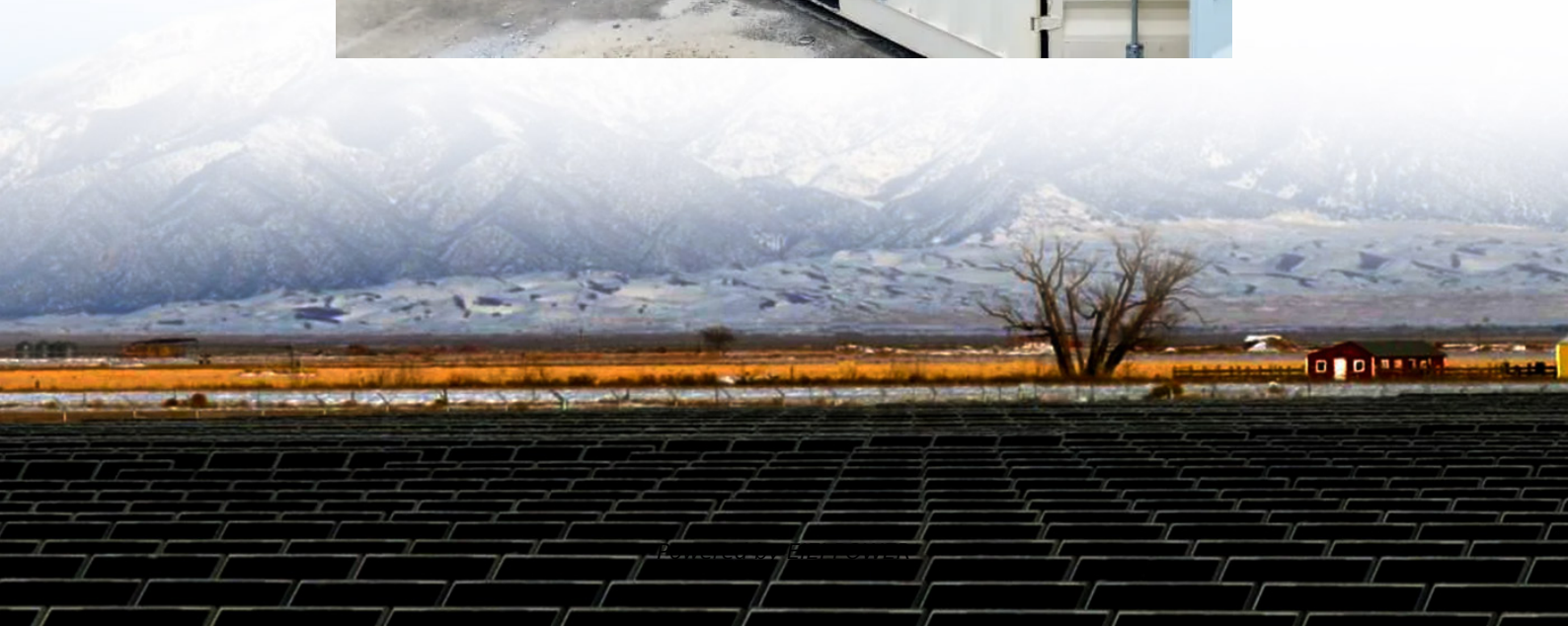


# Some cells in the solar module are heating up





## Overview

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How does the arrangement of solar cells affect a PV module?

The way solar cells are arranged to form a PV module, has a side-effect which physically affects the PV module. The arrangement of PV cells into a module changes the flow of heat into and out of the module. A changed flow of heat means that the temperature at which the module operates increases.

How does sunlight affect a solar module?

This implies hours and hours of exposure to the sun's heat for the PV modules. The way solar cells are arranged to form a PV module, has a side-effect which physically affects the PV module. The arrangement of PV cells into a module changes the flow of heat into and out of the module.

What is a hotspot on a solar module?

A hotspot is an area on a solar panel where excessive heat builds up. It's often due to uneven electricity flow caused by a malfunctioning or shaded cell. Individual solar cells are connected in a series of crystalline silicon solar modules.

What happens if a solar cell gets hot?

1. Efficiency degradation: When hot spots occur in solar panels, the local temperature rises, which usually leads to a decrease in the performance of the solar cell as the temperature rises. At high temperatures, the electronic conductivity of the photovoltaic cell is weakened, thus affecting the cell's power generation efficiency.



## Some cells in the solar module are heating up



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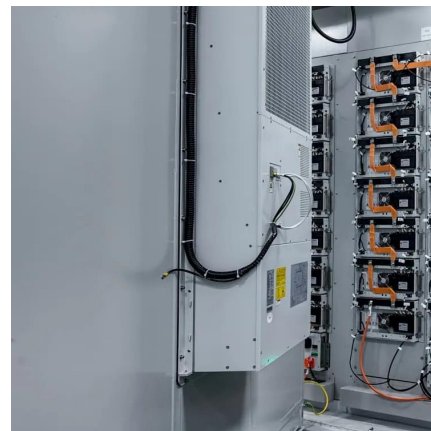
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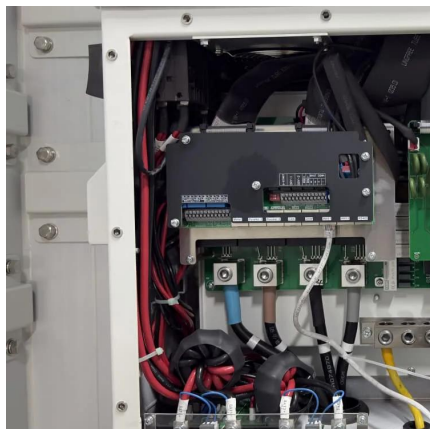
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