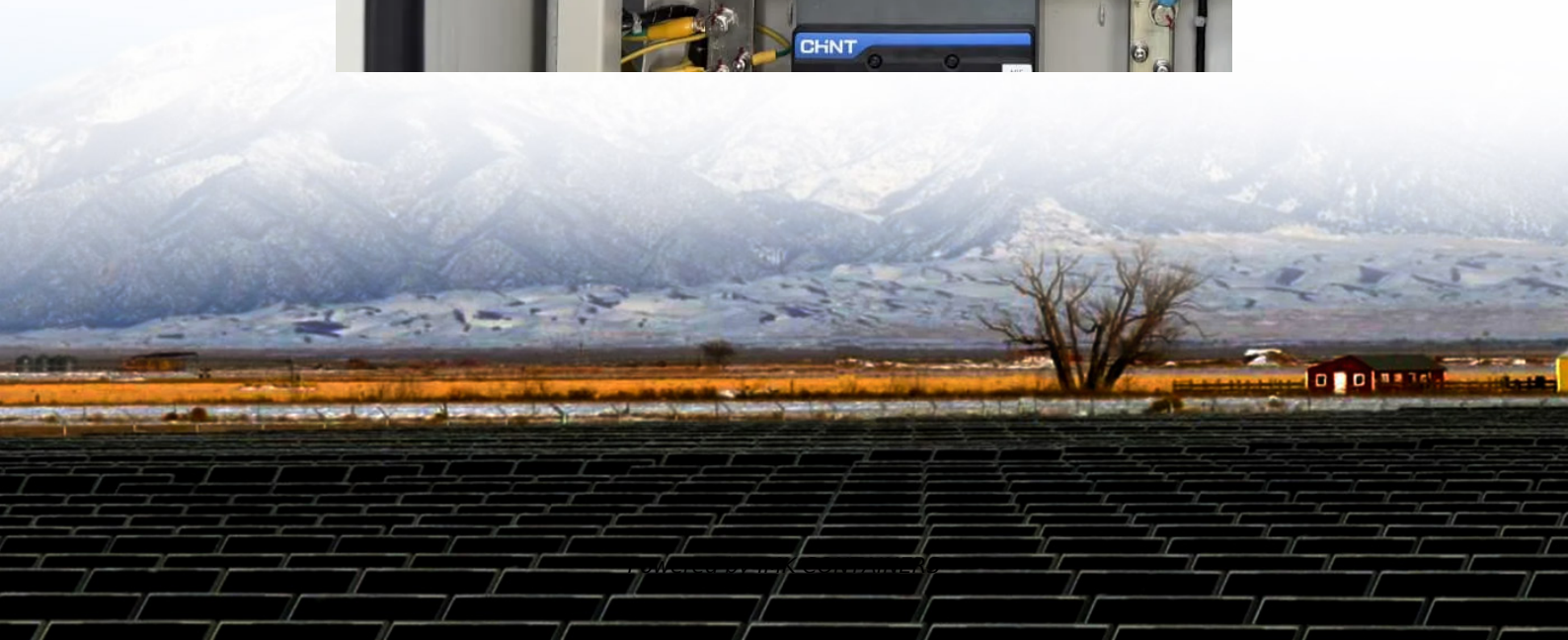


# Is there sunlight under the solar panels





## Overview

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Do solar panels produce electricity under direct sunlight?

While it is true that solar panels perform best under direct sunlight, they can still generate electricity under various levels of shade or diffused light. Solar panels indeed achieve their highest efficiency when exposed to direct sunlight. Direct sunlight provides the maximum amount of energy for the panels to convert into electricity.

Do solar panels need direct sunlight?

They may be covered by shade from surrounding buildings or trees, are turned away from the sun, or are simply affected by weather conditions like clouds, rain, or snow. Solar panels do not need direct sunlight to work. Most rooftop solar panels start producing electricity shortly after sunrise on a clear day.

Do solar panels work without sunlight?

There will, however, be a drop in performance in the absence of direct sunlight. That's because solar panels need 1000 W/m<sup>2</sup> of sunlight to reach their peak output; that much sunlight can only be achieved when there is direct sunlight shining. Do solar panels work in the shade?

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Can solar panels work in the shade?

Yes, solar panels can work in the shade, but they will generate less electric current than they would under optimum conditions. The exact impact of shading on your solar power system depends on these factors: Duration of the shading: The longer your solar panels are under shade, the bigger the drop in electricity production.



## Is there sunlight under the solar panels



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Solar panels work with any light, not just direct sun--but efficiency drops to 10-25%. Learn the science and discover solutions for shady spaces.

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