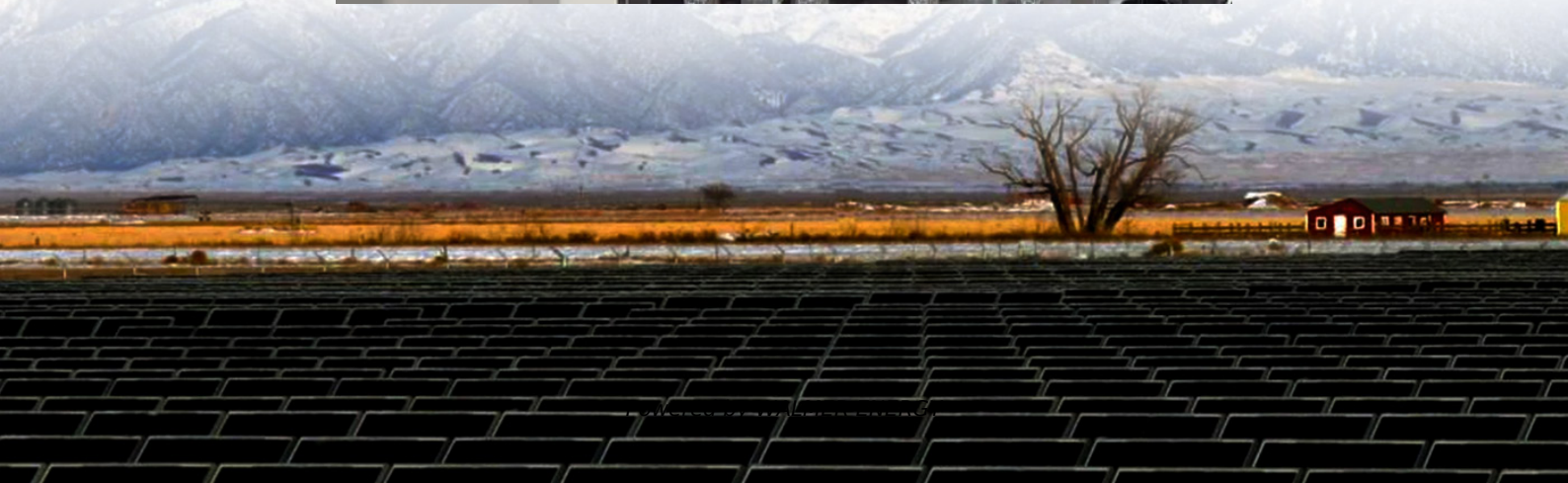
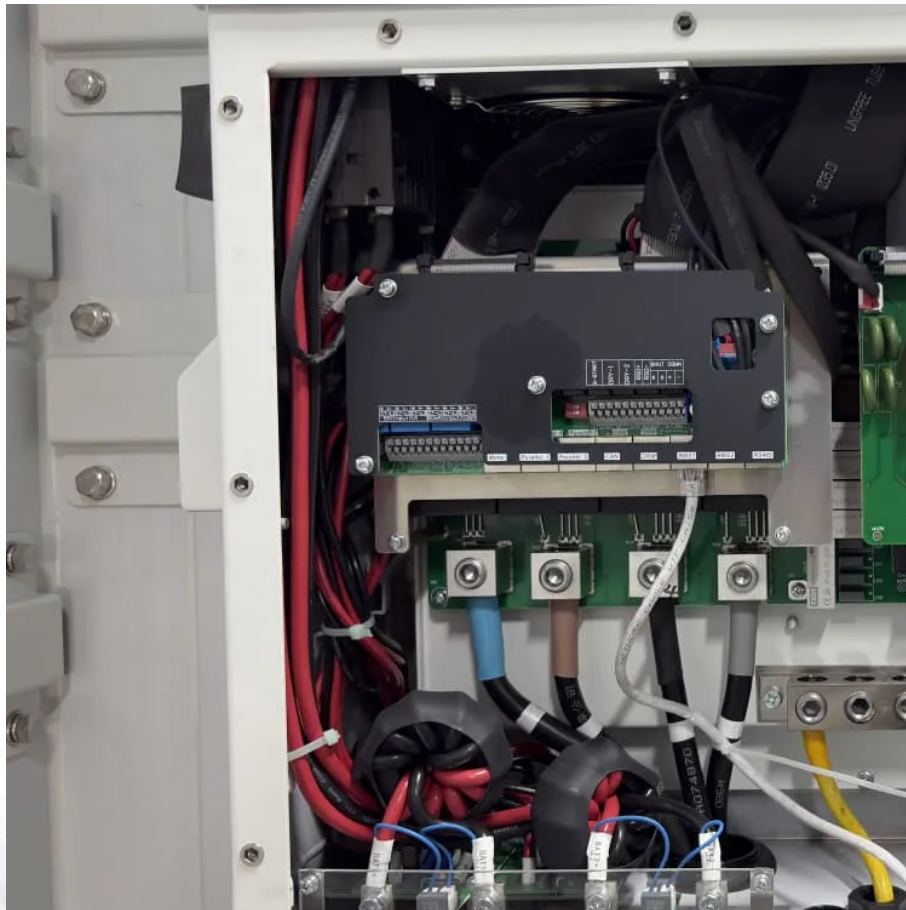


# **The amount of electricity generated by solar panels controls the price**





## Overview

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How much energy can a solar energy system produce?

After 25 years, solar panels with a 0.5% degradation rate could be expected to generate approximately 85% of their initial energy production capacity. There are many ways to calculate how much electricity can be produced by a solar energy system on your roof, including a home assessment from a certified professional.

How does solar energy work?

Solar energy operates through the conversion of sunlight into electricity, primarily using photovoltaic cells present in solar panels. When sunlight strikes these cells, it excites electrons, creating an electric current.

How do solar energy systems generate revenue?

The potential for solar energy systems to generate revenue through selling excess power back to the grid—often referred to as net metering—further enhances the economic viability of solar installations. This revenue generation contributes to the upward trajectory of electricity production through solar energy.

How does a photovoltaic solar system work?

Photovoltaic (PV) solar power systems harness energy from sunlight and convert it into electricity. When sunlight hits the surface of PV panels, it excites electrons and generates electricity in the form of direct current (DC).



## The amount of electricity generated by solar panels controls the price

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Photovoltaics and electricity

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