



# Solar power systems for beginners

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## SOLAR POWER SYSTEM OVERVIEW

Solar panels are the most important part of a solar power system since they produce the electricity that eventually finds its way to your laptop, lights and television.

In this basic introduction, we look at how this happens.

Solar panels convert sunlight into electricity through a process called the photovoltaic effect.

In this process, sunlight charges the electrons in a solar panel, creating an electrical current that can then power an electrical appliance.

A panel comprises 60-72 solar cells. Solar cells create electricity when exposed to light. Each cell produces about 3 volts of power.

90% of solar cells are made from silicon. Silicon absorbs light and can conduct electricity.

Efficiency is a measure of how much of the sun's potential energy a panel will convert into solar power.

Most panels have an efficiency rating of between 15-23%.

You shouldn't worry too much about panel efficiency.

High-efficiency panels only matter where you have a small space to work with. They do however cost more.

Less efficient panels cost less and will reduce the overall cost of your system.

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