Batteries and solar power

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Storing Solar Energy in Batteries

Solar panels allow you to generate your own electricity and can reduce your utility bills, but they won"t do so at night or during a power outage. But a solution to both issues is getting more common and more affordable.

Solar batteries can be a valuable part of a residential solar system. They provide reliability, safety, economic benefits, and comfort for your family. Batteries allow you to use solar power 24/7, maximize savings from your system, and have reliable power during bad weather and grid outages.

If you"re looking for the answer to "How do solar batteries work?" this article will explain what a solar battery is, solar battery science, how solar batteries work with a residential solar power system, and the overall benefits of energy storage within your own system.

Let"s start with a simple answer to the question, "What is a solar battery?"

A solar battery is a device you can add to your solar power system to store the excess electricity generated by your solar panels.

You can use the stored energy to power your home at times when your solar panels don't generate enough electricity, including nights, cloudy days, and during power outages.

The point of a solar battery is to help you use more of the solar energy you"re creating. If you don't have battery storage, any excess electricity from solar power goes to the grid, which means you're generating power and providing it to other people without taking full advantage of the electricity your panels create first.

For more information, check out our Solar Battery Guide: Benefits, Features, and Cost.

Lithium-ion batteries are the most popular form of solar batteries on the market. This is the same technology used for smartphones and other high-tech batteries.

Lithium-ion batteries work through a chemical reaction that stores chemical energy before converting it to electrical energy. The reaction occurs when lithium ions release free electrons, and those electrons flow from the negatively-charged anode to the positively-charged cathode.

This movement is encouraged and enhanced by lithium-salt electrolyte, a liquid inside the battery that balances the reaction by providing the necessary positive ions. This flow of free electrons creates the current

necessary for people to use electricity.

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