



Solar panels without battery storage

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In this article, we'll explore some scenarios in which having battery storage with solar panels is beneficial, and some in which sticking with simple rooftop solar panels could be the way to go.

If battery storage isn't in the cards for now, don't worry! You can still use your solar panels to power your home without battery storage. In fact, a majority of home solar systems aren't connected to battery storage.

Early morning and evening are times with lower solar production, but higher energy needs. You're waking up and getting ready for the day, or making dinner and doing homework with the kids. That's when you'll need a lot of power, but also when solar panel production is just getting momentum or tapering off.

If you live in a state with net energy metering, you earn credit for sending your excess energy to the grid. At the end of the year, those credits are used to offset the cost of the energy you pulled from the grid. With just a recent energy bill, solar can generate multiple quotes for solar systems that offset 100% of your electricity use.

In many cases, battery storage is a "nice to have" with solar panels for home use. However, there are a growing number of scenarios where having a solar battery bank is beneficial, if not completely necessary.

A home battery bank is especially crucial if you have essential systems like medical equipment or an electric well pump that you need to power when the grid is down. In fact, the Self-Generation Incentive Program (SGIP) in California offers rebates up to 100% of the cost of battery storage for Californians in these circumstances.

In addition to backup power, battery storage can also be a means to greater energy cost savings. Energy utilities in many states are working to remove or replace net metering policies. In California, for example, the proposed NEM 3.0 policy would reduce the value of solar exports by around 75%.

Currently, California solar owners are earning around 30 cents per kWh for the excess energy they put on the grid. Under NEM 3.0, they would earn closer to 8 cents per kWh, in which case it makes more financial sense to have a battery bank to store and use your own solar electricity.

Typically, electricity is most expensive in evening when people are home cooking, watching TV, and running heat or AC. Unfortunately, solar production isn't great in the evening, and solar owners end up pulling from the grid.



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With battery storage, you can not only avoid peak pricing, you can take advantage of it by using it; or even exporting it; cheap solar electricity generated and stored during the day. This is especially beneficial if you have large electrical loads such as electric heat, air conditioning, or an electric vehicle.

If you live in a remote, isolated area without a central utility grid, you will need a battery storage device to capture your solar generation for later use. This is essential if you want to have the lights on at night when your system isn't generating.

Even if you are within reach of a utility grid, many people prefer to generate and store their own clean electricity. Most utilities rely on fossil fuels to generate electricity. By pairing solar and battery storage, you reduce the demand for dirty energy.

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