



Are solar batteries necessary

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When it comes to extending the power that your solar PV system creates, solar battery systems are the only option available. As technology changes and the cost of adding solar power to homes and businesses become more affordable, more people want to know how solar batteries work. More importantly, people want to know how solar batteries integrate with a solar array, their options for solar batteries, and if they need them. Keep reading as we shed some light on PV systems and solar batteries.

So to answer whether solar batteries are necessary, the answer comes down to your energy goals. If you want to be off-grid, then batteries are required. If you are going to decrease your reliance on the grid, but keep it as a safety net, then solar batteries can help, but they are not necessary. On the other hand, if you want to offset grid-produced electricity by going solar, and your goal is to use as much solar energy as possible, solar batteries are a huge plus.

The process of creating electricity begins with the solar panel. When sunlight, a beam of light, strikes the solar panel, it causes an atomic reaction within the panel that becomes Direct Current--DC. Part of the solar array is a component called a solar regulator. The job of the solar regulator is to transfer energy produced in the panel to the batteries. It, in short, regulates the flow of power between the panel and batteries so that the batteries charge without being damaged by incoming energy.

NOTE: Homes run on AC (alternate current), but the energy produced by a solar array and stored in solar batteries is DC. The inverter must change the electricity from DC to AC before it sends the electricity to the home.

Regardless of what type of solar battery system you choose, the benefits remain the same. Pairing solar batteries with your solar array allows for a couple of situations. First, you get to use more of the energy the array produces, and secondly, you can design the array to make more energy than you need and then store that energy.

One big concern that many people have is the decaying nature of the nation's electrical grid. With the recent failure of the electrical grid on a state level in Texas in 2021, more people are looking at solar as a better answer. Globally, weird weather is also a concern, and reducing greenhouse gasses is more critical than ever. Solar gives you more independence in energy usage and more reliability, especially when solar batteries are part of your system design.

Environmentally, solar batteries can be a significant benefit in the quest to reduce carbon emissions, reduce carbon footprints, and decrease the community's and nation's reliance on fossil fuels to create electricity. Solar battery benefits outweigh the costs and help keep your home or business running efficiently without relying on the grid.

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If you are ready to consider how solar energy may benefit your home or business, or if adding solar batteries to your existing solar array will make an improvement, reach out to our team.

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