



Cost of solar with battery storage

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While approximately 12% of photovoltaic (PV) systems installed on homes and businesses included battery storage in 2023, the Solar Energy Industries Association estimates that this rate will rise to 28% by 2028.

Solar battery costs vary by brand and capacity, and there are several other expenses associated with home energy storage. Here is a cost breakdown of a typical home solar battery installation:

The cost of solar energy storage has decreased dramatically since 2010, and battery systems are now cheaper and more widely accessible than ever. In 2024, experts forecast that solar storage prices will continue to decline through 2025.

While all solar storage installations incur the same types of expenses like hardware and overhead, the total cost of your battery system will depend on several factors unique to your project.

The optimal battery capacity for your installation will depend on the size of your solar panel system, your home's electricity demand, and your overall energy goals. For example, if you would like complete solar energy self-sufficiency, you may need more batteries compared to someone who only wants backup power for occasional outages.

The total costs of battery storage will depend on whether it's part of a new energy system or integrated into an existing solar panel installation. In general, upgrading a solar system to include battery storage later is more expensive than when installing everything at once.

If you don't want to invest in storage when installing solar panels, you can save money on future upgrades by ensuring your inverter system is suited for battery integration. In the same sense, it's also possible to install a stand-alone home battery without solar panels.

There are many financial solar incentives and rebates available to make solar battery installations more cost-effective. Most importantly, home solar and standalone energy storage systems at least 3 kWh in capacity may qualify buyers for a federal income tax credit (ITC) worth 30% of total project costs.

Beyond the federal ITC, there are also many incentives, rebates, and programs to reduce solar battery installation costs sponsored by local governments and utilities. For example, if you live in Minnesota, you may be eligible for a battery storage rebate worth up to \$5,000, \$7,000, or \$15,000, depending on the size of your system, your electric utility, and your income qualifications.

When considering solar battery storage, consulting a professional installer is recommended to explore the available programs in your area, learn whether you'll qualify, and determine how to get started.

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While installing solar panels can help you reduce your spending on utility electricity, battery storage can take these savings even further. Storing electricity produced from sunlight throughout the day, solar batteries can provide an alternative to grid-supplied power after the sun goes down, when utility rates are too expensive, or during a local outage.

By tapping into storage reserves in the morning, evening, or on cloudy days, solar battery backup systems can minimize the amount of electricity your home draws from the energy grid. To offset all possible utility energy costs with maximum use of your solar power, Enphase IQ Batteries feature a Self-Consumption profile for automated savings.

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