



Residential battery storage cost

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While solar battery storage is optional, it's a wise investment if you want to be able to store your solar panel's excess energy once the sun goes down. It's not a particularly expensive addition to a solar energy system and its inclusion can save you money in the long run and even give you the ability to sell excess energy back to the grid.

Solar batteries connect to your solar panel system and store any excess energy that you haven't used, keeping you online even when the grid is down. If you install a solar energy system without a battery, you'll have to use any energy you generate immediately or sell it back to the grid. Plus, you'll be missing out on the environmental benefits of the continuous use of renewable energy to power your home as opposed to external energy sources powered by fossil fuels.

While battery storage is not a necessity, it's a no-brainer. Unfortunately, you won't be able to use solar-generated energy in the evening without a battery, and as you can see from this chart, that's when you'll likely use it the most.

The cost of your solar battery is determined by several factors, including the quality and brand. However, the average price continues to drop over the years so you'll likely be looking at between $\pounds 400$ - $\pounds 500$ per kWh.

When you tally up the cost of each replacement battery over your system's lifetime, the price will likely be closer to $\pounds 900$ per kWh. But as we've already mentioned, you shouldn't need to replace your battery before 12 years have passed.

Don't forget, you can also save money by investing in a solar battery; With the average home saving around $\pounds 665$ a year on their energy bills. Also, signing up for an SEG (Smart Export Guarantee) will allow you to charge your battery cost-effectively and then sell the excess energy back to the grid at peak times.

There's no need to buy more batteries than your system can charge. If you do decide that you want more storage space, you'll have the choice of buying one or two larger batteries or lots of little ones. We recommend several smaller batteries as if one needs replacing, the cost will be much less than it would to replace a large battery.

Lithium-ion batteries generally last between 5 and 15 years with battery management making all the difference. On average, they'll have 6000 lifecycles, meaning they'll last for 10 years with just 3,650 charges. As your battery will often charge more than once a day, over 10 years you're more likely to get 6000 charges.

In theory, yes, but most domestic installations don't consist of enough panels to provide energy for an entire

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night. You likely won't have the room to house the number of solar panels you'd need to provide a battery with enough energy for an entire night. However, an SEG will allow you to charge your batteries at night; You just need to remember that it would still take 8 hours to generate enough energy to run the average family home, and most nighttime tariffs are only 4 hours.

With battery-only systems becoming increasingly popular, many energy companies offer a selection of cheap SEGs. This means that your battery is charged overnight when energy costs are low, allowing you to use this power at peak hours without paying a premium. While this is beneficial, we still recommend installing solar panels as this process becomes even cheaper when you can generate energy yourself.

Fortunately, Lithium-ion storage systems don't require much maintenance, but as the chemicals inside get older they'll naturally start to degrade. There are a few things you can do to prolong the life of your battery:

You may have heard of the term "thermal runaway"; A phrase often connected to issues that could arise with battery storage. The risk of thermal runaway, the ejection of gas, shrapnel and/or particulates, is just 0.0001% so there's no need to worry. In general, batteries are completely safe if they're kept in cool, dry conditions. But, as a rule of thumb, we do encourage you to check for the following issues on occasion:

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