

Domestic solar storage batteries

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Home battery storage is a hot topic for energy-conscious consumers. If you have solar panels on your roof, there's an obvious benefit to storing any unused electricity in a battery to use at night or on low-sunlight days.

And batteries are becoming increasingly popular, with the number of installations increasing every year. As of 2024, according to data from solar analytics company Sunwiz, there are more than 250,000 home storage batteries installed in Australia. Approximately 57,000 were installed in 2023 alone. The majority are installed as part of a brand new solar panel system, but a significant number of batteries are additions to an existing solar panel system.

The concept of home battery storage isn't new. Off-grid solar photovoltaic (PV) and wind electricity generation on remote properties has long used battery storage to capture the unused electricity for later use. Storage batteries are increasingly popular with new solar installations, and it's possible that within the next five to 10 years, most homes with solar panels will have a battery system.

If your solar panel array and battery are large enough, you can run your home substantially on solar power

A battery captures any unused solar power generated during the day for later use at night and on low-sunlight days. Installations that include batteries are increasingly popular. There's a real attraction to being as independent as possible from the grid - for most people it's not just an economic decision, but also an environmental one, and for some it's an expression of their wish to be independent of energy companies.

If your solar panel array and battery are large enough, you can run your home substantially on solar power. Using electricity from your battery can be cheaper per kilowatt-hour (see Terminology) than using electricity from the grid, depending on the time of day and electricity tariffs in your area.

Check out some of our other articles on home batteries:

If you have a solar storage battery from any of these brands, you should urgently check the product recall details on the ACCC's Product Safety website.

The recalled batteries may overheat and catch fire, and need to be shut down immediately. The product recall site linked above has all the details. LG will remove and replace the recalled batteries for free, or provide a refund.

Costs vary significantly for solar batteries, but generally, the higher the battery capacity, the more you can expect to pay.



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Here are typical battery costs for some common sizes (including basic installation). Prices are based on information from SolarQuotes.

As an example, one of the most popular batteries is the 13.5kWh Tesla Powerwall 2. This currently costs about \$12,100 before any subsidies. Fully installed it will come to about \$15,500 (or more, if the installation is complex).

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