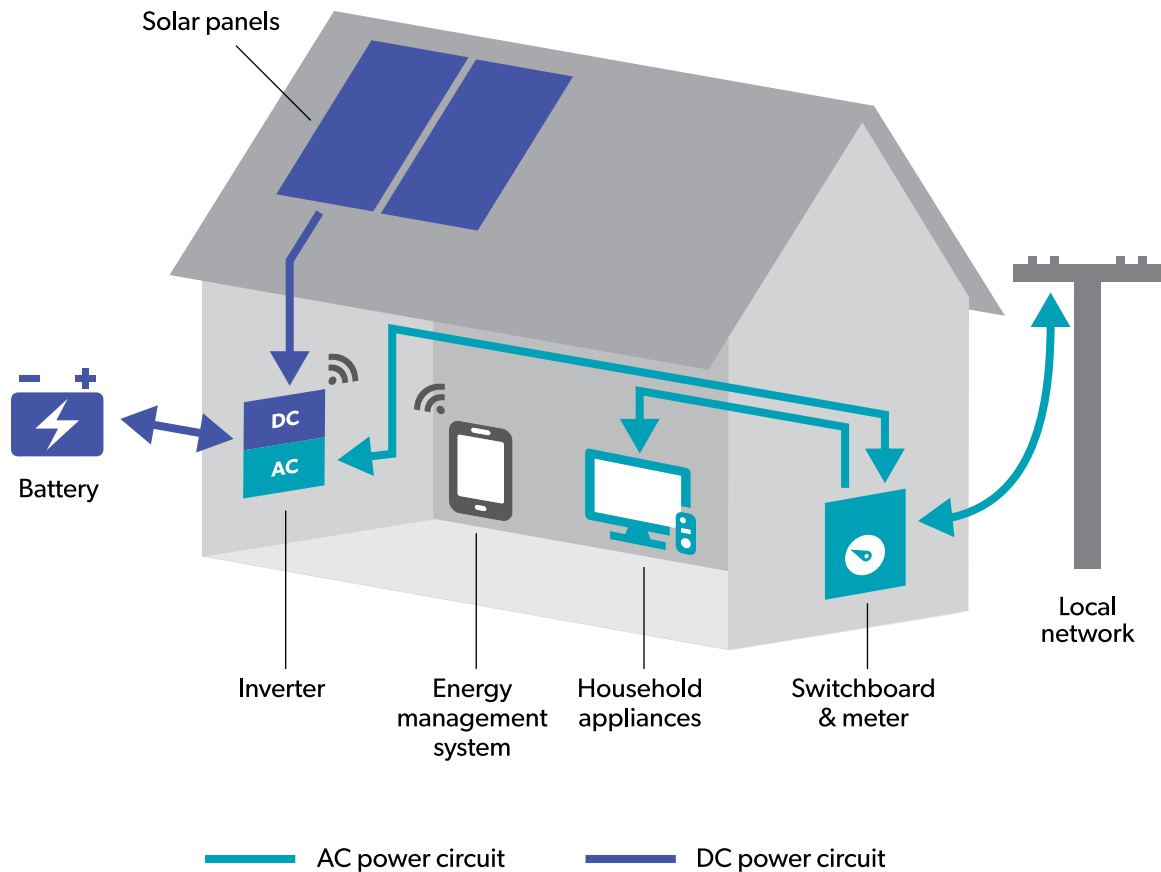


## How do home solar batteries work?

*A rooftop solar system plus a battery can help you save money, support renewable energy and might provide backup power. To get the most out of it, there are a few different ways you can set it up and use it.*

A home power station sits alongside your standard household electrical system and includes solar panels, one or two inverters, a battery and an energy management system.



### Options for creating a home power station



#### Install new solar and new battery

This option can use a hybrid solar and battery inverter. Together with the benefit of combining battery and solar payback, this option currently pays back the quickest, apart from solar alone.



#### Add a battery to existing solar

Adding a battery to solar often means that you need a separate battery inverter and the battery pays back more slowly than combined new systems. When sizing the battery, consider extending your solar.

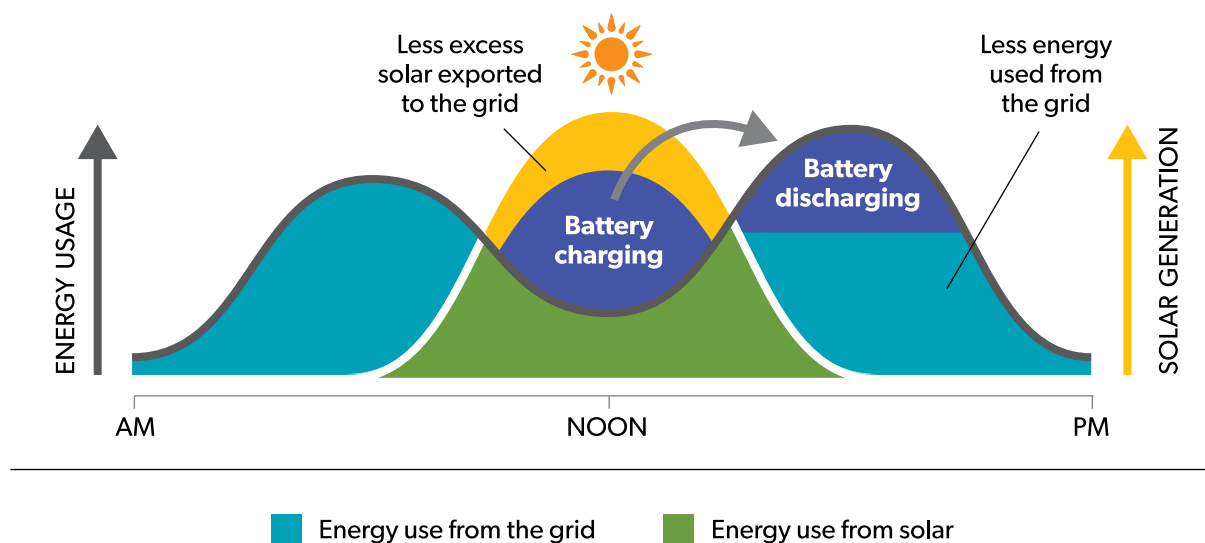


#### Install a battery without solar

You could charge a battery from the grid at offpeak rates and then use the energy during peak periods. At current prices it is unlikely that the savings will be enough to recover the cost of the battery.



### Household with solar, plus batteries



Solar powered homes can meet most of their energy needs when the sun is shining. Any excess solar energy can be exported to the grid and shortfalls are met by importing grid electricity.

When you add a battery, the solar energy that is not used at home during the day is used to charge the battery. The energy in the battery can then be used at night or early in the morning when you need it.

#### Things a battery can do for you

- Use your solar energy at a time that suits you.
- Reduce power consumption during peak periods.
- Save money by charging your battery from the grid at offpeak rates.
- Become more self-sufficient and reduce the effect power price changes have on your bill.
- Some batteries can provide backup if there is a power outage.
- With the right software, you can make money by selling power back to the grid.

#### Things to consider

- Buying a solar battery is more complex and costly than buying solar alone.
- Batteries and inverters are unlikely to last as long as solar panels.

There is a range of energy options available to you, and depending on your circumstances, they can offer a better financial payback than batteries.



Planning & Environment

For more information download the NSW Home Solar Battery Guide from [resourcesandenergy.nsw.gov.au/battery-guide](https://resourcesandenergy.nsw.gov.au/battery-guide).

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