

Product Explainer

Battery Storage



Battery Storage

Maximise your energy with smart storage

What is battery storage?

Battery storage allows you to keep hold of electricity generated by your solar panels, rather than letting it flow straight back to the grid.

Instead of only using solar power while the sun is shining, a home battery helps you:

- store spare electricity during the day
- use it later in the evening
- reduce the amount of energy you need to buy from the grid

It's a smart way to make more of the renewable energy your home produces.

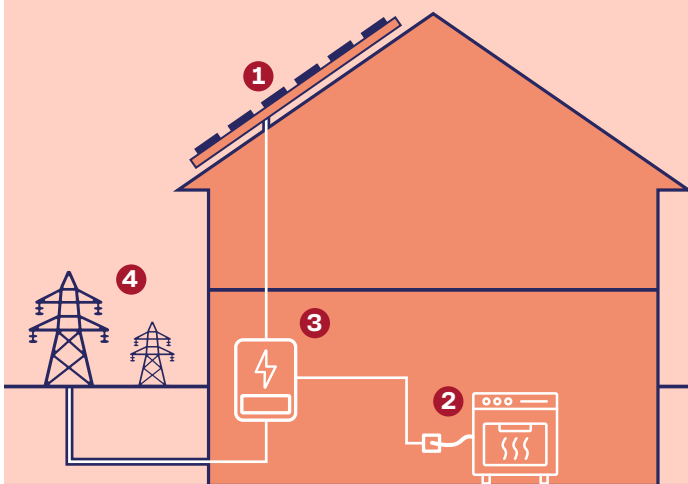
How does battery storage work?

Solar panels often generate the most electricity in the middle of the day, when many households are out or using less power.

A battery works alongside your solar system to capture that unused energy.



How it works



Your home typically uses electricity in this order:

- 1 solar power being generated during daylight hours
- 2 your appliances use solar energy first
- 3 excess energy is stored in the battery to be used when needed
- 4 electricity from the National Grid

If the battery becomes fully charged, any remaining excess electricity can still be shown on the energy meter.

Some households also choose to charge their battery overnight using cheaper off-peak electricity, depending on their tariff. This allows the battery to store low-cost electricity during the night and use it during the day when prices are higher. It can reduce bills even if you do not have solar panels.

Is battery storage right for you and your home?

Battery storage can be a great option if you:

- already have solar panels, or are considering them
- use more electricity in the evenings than during the day
- want to lower your reliance on the grid
- are interested in making your home more energy independent

An assessment will consider:

- your household energy use
- how much solar electricity you're likely to generate
- where a battery could be safely installed
- whether storage will offer meaningful savings for you

Battery storage maximises solar energy use, lowers electricity costs, increases flexibility, and reliably supports energy independence at home.

Key benefits of battery storage

Adding a battery can bring several practical advantages:

Use more of your own solar energy:

Store daytime generation and use it later, instead of buying electricity at night.

Reduce electricity bills:

Less grid electricity means lower costs over time.

Extra flexibility for busy households:

Power is available when you need it most.



Support high-energy appliances:

Stored energy can help cover demand spikes, such as cooking or laundry.

Monitor and manage your energy:

Many modern systems come with apps that show generation, storage and usage.

Works well with other upgrades:

Battery storage is often combined with solar panels, heat pumps and smart tariffs.

What you should be aware of

Battery systems are very effective, but it's helpful to understand:

Savings vary by household:

The benefit depends on when you use electricity and how much solar power you generate.

Space is required for installation:

A battery needs a suitable location, such as a garage, utility room or external wall.

Tariffs may affect the best setup:

Some households choose off-peak or smart tariffs to maximise value. Smart tariffs can increase savings: if you have cheaper night-rate electricity, your battery may be able to charge overnight and use that low-cost electricity during the day.

Batteries don't replace the grid entirely:

Most homes will still use some grid electricity, especially in winter.

Higher upfront cost:

Battery storage heaters have a higher upfront cost but allow households to maximize their solar PV system. By reducing grid reliance and lowering energy bills, they offer a practical investment for those willing to pay extra.

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Battery storage installation is typically straightforward, low-disruption, and integrates with solar or grid systems, providing efficient, monitored, reliable household energy use.

What to expect during installation

Battery installation is usually straightforward and low disruption. The process may include:

- an on-site survey to choose the best location
- fitting the battery securely to a wall or floor bracket
- connecting it safely to your inverter and electrical system
- testing and commissioning the system
- showing you how monitoring and controls work

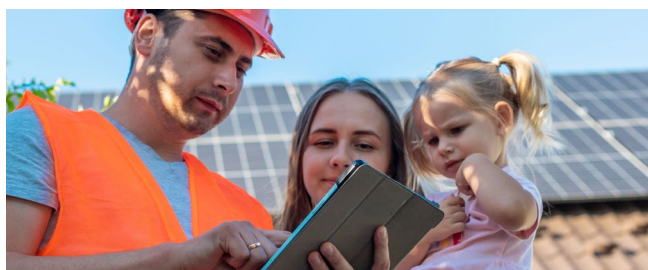
In many cases, installation can be completed within half a day.

What to know after installation

Once installed, battery storage works automatically in the background. After installation:

- your home will draw from stored energy before using grid electricity
- you may be able to track performance through an app
- you can discuss whether a different tariff could improve savings
- warranties and certification will be provided for peace of mind

Your installer will explain everything clearly before handover.



Frequently asked questions

Do I need solar panels to have a battery?

Battery storage is most effective when paired with solar panels, but some systems can also store off-peak grid electricity.

Will the battery power my whole house?

A battery supports your household electricity use, but it won't usually run everything continuously on its own.

Can I still export electricity to the grid?

Yes. If your battery is full, surplus electricity can still be exported, and you may be able to receive payments through schemes like the Smart Export Guarantee.

Is it complicated to use?

No most systems are automatic, with optional apps for monitoring.

Check your funding options

If you meet the eligibility criteria, battery storage may be available through **fully funded grant support**, covering installation and any required surveys. Learn if you're eligible through your local government scheme.

There's no obligation to proceed you'll only move forward once you're comfortable and informed.

Other options that may suit you

Battery storage is often part of a wider whole-home plan, alongside:

- Solar Panels
- Air Source Heat Pumps
- Insulation upgrades
- **Ventilation improvements**
(to support a healthy, efficient home)



**WE CAN HELP YOU GET THAT
WARM FUZZY FEELING.**

Ready to explore your options?

If you're considering battery storage, help is available to understand what's right for your home, check eligibility, and guide you through the process.

Check your eligibility for battery storage.
Visit homeenergyhubnorfolk.org.uk

