

Domestic energy storage systems

Energy storage systems let you capture heat or electricity when it's readily available,. This kind of readily available energy is typically renewable energy. By storing it to use later, you make more use of renewable energy sources and are less reliant on fossil fuels.

Home energy storage systems store generated electricity or heat for you to use when you need it.

You can store electricity in electrical batteries, or convert it into heat and stored in a heat battery. You can also store heat in thermal storage, such as a hot water cylinder.

Energy storage can be useful if you already generate your own renewable energy, as it lets you use more of your low carbon energy. It reduces wasted energy and is more cost effective than exporting excess electricity.

Depending on your setup, you might benefit from one or more of these energy storage systems:

Electric batteries help you make the most of renewable electricity from:

For example, you can store electricity generated during the day by solar panels in an electric battery. You can use this stored electricity for powering a heat pump when your solar panels are no longer generating electricity.

You may also want to plan around future electricity use if you're intending to buy an electric vehicle (EV) or heat your home with a heat pump.

You can use a battery to store electricity you import from the grid at cheaper times of the day, with a smart time of use tariff. This can reduce your reliance on more expensive electricity during peak periods, with some tariffs even letting you sell energy during those periods.

Thermal stores are highly insulated water tanks that can store heat as hot water for several hours. They usually serve two or more functions:

Thermal stores can vary in size but tend to be between 250 and 500 litres.

Heat batteries store spare heat or electricity, often generated by renewable energy systems. These store heat in a material that changes from a solid to a liquid. These materials are called phase change materials (PCM).

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