Storing electricity for home use

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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.

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.

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 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.

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).

Spare heat or electricity charges the PCM inside the heat battery. When the heat is needed, the material changes back into a solid with a release of heat, which is used to provide hot water.

Heat batteries are generally smaller and lighter than filled thermal stores. This means you can install one in a convenient location even if you can''t find space for a traditional hot water cylinder.

You need to weigh the potential savings against the cost of installation and how long the battery will last. Energy storage technology is constantly evolving, and new batteries will last longer as the technology improves.

When you speak to an installer, ask them to about the energy storage lifespan and cost savings, to make sure you understand fully before committing to anything.

Thermal stores and thermal batteries aren''t specifically designed to save money. It''s better to think of them as products that will solve problems or allow other technologies work more efficiently.

For example, you can"t have a solar thermal system without either a hot water cylinder or a thermal store. But not many would describe a hot water cylinder as something that specifically saves money.

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