



No. 26 new	Home Battery Storage	Jan 2018
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Home Battery Storage is not a new technology but as prices of Lithium-Ion batteries come down it may for some households with P.V. be a long term economic option.

The two guides mentioned below will help set the scene and maybe answer some of the questions.

Stretton Climate Care is not responsible for any of the guidance offered.

British Research Establishment (BRE) Batteries and Solar Power guide for householders

https://www.bre.co.uk/filelibrary/nsc/Documents%20Library/NSC%20Publications/88166-BRE_Solar-Consumer-Guide-A4-12pp-JAN16.pdf

The above link though a little dated gives good background information.

Energy Saving Trust – is Home battery Storage right for me?

<http://www.energysavingtrust.org.uk/blog/home-energy-storage-right-me>

March 2023.

With rising energy costs, home battery storage systems become more cost effective. Surplus electricity from a P V array charges the battery and is released back into the household supply later in the day when the P.V. has stopped producing. Some battery systems can also be charged from the mains at off- peak times, to be fed back into the house when electricity is more expensive. Any battery system needs to be carefully sized to match the P.V. array and, to make things a little more complicated some battery systems provide power to the home during a power cut, whilst others do not. It is also possible with some systems (subject to local regulations) to sell stored electricity back to your supplier during times when electricity is expensive. Some home appliances draw considerable power, e.g. cookers, air source heat pumps, electric showers and these will quickly deplete a battery.

It is not necessary to have a P V array as home battery storage can be stand-alone and this might be a viable option for some, just charging during off peak electricity times. It could also provide emergency power for the home during power cuts especially if this is a frequent occurrence.

Battery storage supplied as part of the installation of any qualifying material, including solar panels, will benefit from a VAT zero rate for the next 5 years. However, standalone batteries will be charged at the normal rate if installed afterwards.