

Powervault: powering the smart home **available now from**



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P O W E R V A U L T

The next generation of Powervault's intelligent home energy storage system enables home owners to use either free solar energy or cheap, off-peak electricity more efficiently.



A million home owners have chosen to install solar PV to help reduce their electricity costs – but what happens when the sun goes down at the end of the day? Mr. Hawley in Oxfordshire decided to take greater control of his home energy use by installing a Powervault energy storage system in his home.

Having installed a 4kWp PV system in 2015, Mr. Hawley had already committed to making the most of his solar generation by installing a unit to heat hot water using any surplus solar energy. But he knew there was still more to do to minimise the amount of electricity he needed to buy from National Grid.

After some initial research, Mr. Hawley contacted Green Acorn, a U.K. Distributor for Powervault, who provide independent and expert advice on domestic energy storage products. Mr. Hawley and Green Acorn worked together to calculate which capacity and battery technology would be best suited to help reduce his energy bills further, gain greater independence from National Grid and have access to power during black outs. Having reviewed Mr. Hawley's household energy consumption profile and PV generation, 6kWh of storage capacity using Powervault's Lithium-ion system was selected as the best fit for his requirements.

Powervault's energy storage systems use a range of different battery technologies, which can store from 2kWh to 6kWh of energy in the home. All Powervault systems are designed for U.K. homes and are manufactured in the South of England. Green Acorn provide distribution and installation services to home owners nationally. Installation is very simple and takes around an hour to complete.

For Mr. Hawley, the benefits are clear; Powervault helps him lower his electricity bills by enabling him to use more of his free solar energy that otherwise would have been exported to National Grid. He can also track his Powervault's performance via the online portal and will always have access to power during black outs. He will enjoy further savings when he switches his electricity tariff to 'Economy 7', which will enable him to store cheap electricity for use at peak times.

For more information about Powervault's home energy storage systems and how they can help reduce your electricity bills, please contact Green Acorn.

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Powervault Features & Benefits

ECONOMIC BENEFITS



Reduces energy bills by up to 20%



Reduces energy bills by a further 10% when programmed to store off-peak or Economy 7 electricity



Provides security against rising electricity tariffs



Ensures the continued receipt of customers' Feed-in Tariff in full

INSTALLATION BENEFITS



Compatible with all solar PV systems



No additional parts or dismantling of existing solar PV system required



Easy to retro-fit to existing solar PV systems



Can be installed in under 60 minutes

ENVIRONMENTAL BENEFITS



Lowers carbon footprint by 300kg of CO₂ per year



Maximises use of clean, green energy



Reduces dependence on coal, gas and nuclear energy



Recyclable batteries

ADDITIONAL FEATURES & BENEFITS



Off-peak or Economy 7 electricity charging compatibility



Emergency power during power cuts



Grid charging override function for mitigation against power cuts



Online customer portal: track energy demand and performance



British design and manufacture



Five year warranty

FUTURE FEATURES & BENEFITS

Powervault's system is smart tariff ready and has been designed to be forward compatible with new tariffs, which are expected to emerge with the roll out of smart meters. Powervault is actively working with partners to develop new smart features.