

## Dragons Breath Solar Storage Latest

Nationwide panic after electricity cost hike

### How to get the best out of your existing solar PV panel system

The latest updates

Following the recent rise in capital expenditure in relationship to the cost of electricity. We all find ourselves contemplating the future and what we can do to offset the sudden increase. Do we simply accept it or is there another way!

Think about renewable energy said a friend, he had recently upgraded his existing solar panel system to incorporate a battery storage bank. This is where excess energy generated by PV panels are diverted in a battery system to be used when needed, usually after dark.

The battery storage system can be adapted to work an existing solar panel system very effectively. By using a straightforward AC connected inverter charger that goes in line just before the existing household grid connection circuit. This works with recent solar panel installations, usually up to 5-6 years old. Beyond those installations, households that have older inverters installed, the occupant should think about switching over to a hybrid type inverter product. This type of product is geared towards new installations but is easily fitted in place of existing string inverter systems. At this point we should mention that any electrical task should only be undertaken by a competent person. The benefit will include an extended warranty of up to 10 years on the materials. This would be the ideal method as the hybrid type battery storage inverter has both the standard string inverter characteristics and the AC charging system in the same box. Making it, in many cases more efficient than two units wired together (one old and one new).



Picture shows 3 x 2.4kWh lithium batteries in a cabinet, making the storage capacity of 7.2kWh. Accessible to increase the capacity in blocks of 2.4kWh. This battery system can be adapted to work with grid connection and off the grid applications because of its 48v circuit.

Types of storage batteries

## High performance stackable battery packs

It is possible to utilize this type of battery bank to deliver larger storage capacities. These are available in LV (low voltage) as well as HV (high voltage). [Link to our retro fit battery storage kits](#)

This type of battery pack can then be easily stackable, to offer the user a facility that suit his or her needs. Batteries are usually placed in well ventilated areas, positioned on either a solid wall or concrete type surface. In properties where the existing inverter is positioned in a loft space or confined location, it should be noted that these may have to be moved or modified to install a battery storage compliant product.

Cost wise it is not going to be cheap, but the dramatic increases outlined for our future household power consumption costs, should be considered. This should not be looked upon as something to beat the system, but in a way of making many individual households less reliant on the national grid. That way we can all reduce our monthly budgets and cut the heavy carbon that is making this all so relevant for our future.

One size doesn't fit all, so let's make sure you are provided with the correctly sized equipment to match your existing system.

Some people think that they must multiply their annual usage and divide it by 365 to come up with an answer to match which size battery or capacity they need.

Let us say that the total solar battery capacity was calculated in an amount of what was required per day. This would provide you with a very large kWh battery. Making it virtually impossible to charge this to full capacity using a standard 4kw domestic system. Moreover, you will find that your household will be using a certain amount of the generated energy to power the items that are running in the background during daylight hours. Therefore, sizing the battery to suit your needs correctly will undoubtedly save money.

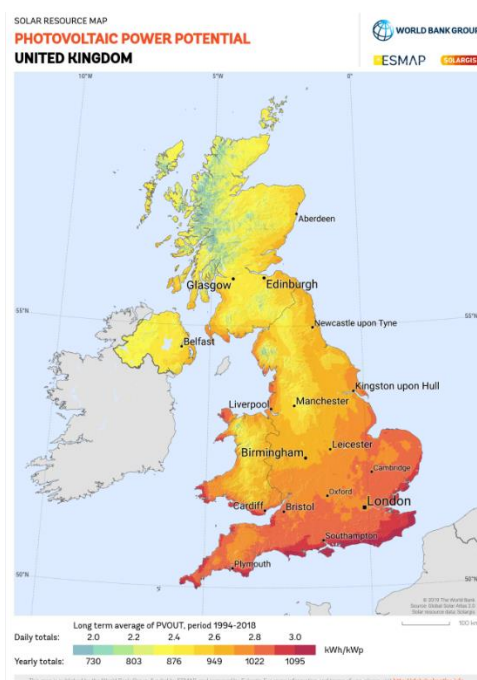
Dragons Breath Solar offer a service to enable our UK customers that require assistance in obtaining the correct equipment. Specifically sized to match their household needs.

Dragons Breath Solar company have been in existence since 1997, As part of our service we have always been able help customers by offering quality products to match any storage requirement for on or off the grid application.

Contact us in the first instance to allow us to evaluate your needs.

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Map shows the sun's yield in solar irradiation across the UK