

Site recyclesolar.co.uk recycling of solar inverters

Cutting down on special photovoltaics (PV) waste is a vital part of environmental protections. Recycle Solar Technologies is committed to supplying the best possible solution by Reducing, Reusing or Recycling solar equipment..

As solar energy becomes a more and more popular green energy source across the UK, we feel that it is increasingly important to provide a viable waste management service for solar panels that have reached the end of their PV life cycle. Without recycling programs and safe disposal methods in place, we are creating a problem for future generations. Recycling renewable technology just makes sense!

Here we will explain the numerous benefits, both environmentally and economically, of why choosing to recycle your end of life PV panels is the best option to maximise the efficiency of your solar energy system.

Recycling solar panels has a number of environmental benefits. The first is that it creates a useful and sustainable method of disposing of panels that have reached the end of their useful PV lifespan. Recycling solar panels also provides raw materials for repurposing and reprocessing.

For installers and engineers, the cost of the disposal of panels can add up. Due to the WEEE directive, solar panels are considered a specialist waste product which needs disposing of in a specific way; We can take the unwanted panels (our fees are outlined below), cutting costs throughout the process which can ultimately lead to a less expensive project for the consumer.

Photovoltaic panels and modules often contain small amounts of environmentally toxic metals and elements (e.g. Lead, Selenium, Cadmium) which, if not carefully disposed of, can create environmental hazards. Recycling can recover up to 90% of the photovoltaic glass and also up to 95% of the semiconductor material necessary for further production.

Another benefit of recycling solar panels is that it creates a more sustainable energy solution. As solar panels become more ubiquitous, there is a danger of some PV materials becoming less and less available. Without recycling, there is no way that we will be able to maintain solar panel production on a grand scale. This will increase the cost of solar panels which will then price them out of the market.

Solar inverters are an integral component of all solar PV installations and like solar PV panels will eventually reach the end of operational life. The lifespan of solar PV inverters vary, high quality PV inverters can last upwards of 15 years, cheaper poorer quality inverters can breakdown in as little as 5 years. It is fair to say in the lifetime of your solar installation you will require at least one replacement inverter.

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Often when a solar PV inverter breaks down either repair is not an option at all or it can often workout more expensive than a replacement. With the high volumes of solar installations in the UK over the last ten years many inverters are currently failing or are about to.

The inverter is also the brains of the solar PV installation, it monitors performance and gives feedback for the owner, it can tell you if a panel is not performing up to its potential and if an engineer is needed to intervene and repair or replace.

Solar inverters may also need changing if battery storage is added to the system, energy storage is going to become more and more popular as performance increases and prices start to fall. Inverter chargers are required when adding battery storage rather than just a standard inverter.

Recycle Solar can offer you the complete service. If you have solar PV that needs removing, not only do we decommission the system using our qualified electricians, we dismantle and remove the unwanted solar equipment, taking it away for recycling at our site. A unique service no one else can offer.

Contact us for free full report

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