



Solar energy for business use

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Businesses across the UK are striving to reduce their carbon emissions - and getting a commercial solar installation is an impactful way to achieve this. On a 100kWp solar panel system (roughly 180 panels), you can expect to save 26 tonnes of carbon every year. For context, a typical household emits about 4 tonnes of carbon per year, so this is a substantial carbon saving.

There are also benefits for attracting and retaining customers and employees. Business and consumer customers are increasingly invested in the sustainability credentials of the companies they buy from. Showcasing that you've built your own solar is a great way to grow your customer base and engage your people.

Following a site survey, a quality solar panel installer will be able to give you a strong indication about how quickly you will see a return on investment from your solar panels, with detailed financial modelling.

At Good Energy Solar, we have designed hundreds of commercial solar panel systems. On average, our customers see a return on investment for their commercial solar panels in four years; with an average levelised cost of energy of 7p/kWh. That's four years to pay off the total cost of your system, through energy savings and an export tariff, followed by 21 years of free (other than maintenance costs) zero-carbon electricity.

The minimum commercial solar payback period we have seen is just under three years, and some organisations with smaller roofs, complex designs or low onsite consumption can see payback of eight plus years.

Our typical battery installation for businesses is about 100kW (around 7 times bigger than a Tesla Powerwall 3). This provides a range of benefits including increased energy bill savings, earning potential from grid flexibility services and enhanced sustainability credentials (due to a higher match between energy consumption and on-site renewable generation).

A commercial solar design and installation can be completed within two to six months of a customer's initial quote. This depends on several factors, including any planning permission requirements, DNO approval, financing and team availability.

Commercial solar panels come with a 25-year minimum life expectancy and many of our Feed-in-Tariff portfolio customers still have high-performing solar panels installed 20+ years ago. However, at some point, your solar panels will reach end of life.

The infrastructure to recycle solar panels has improved significantly over the past few years, as the industry moves to a whole lifecycle approach to solar. Solar panels are composed of materials such as glass,



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aluminium, and silicon, which can be separated and processed for recycling. The recycling process helps reduce waste and supports the sustainable production of new solar panels.

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