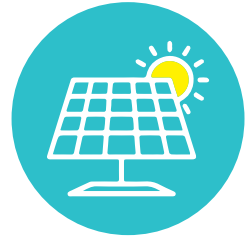# Solar panels

Solar panel electricity systems, also known as solar photovoltaics (PV) capture the sun's energy and converts it into electricity.

How do solar panels work?

PV cells are made from layers of semi-conducting material, and when light shines on the cell, it creates an electric field across the layers.

The stronger the sunshine, the more electricity is produced, however they can still produce some electricity on cloudy days.

What are the benefits of installing solar panels?

- They reduce your electricity bills. Sunlight is free, so once the initial installation is paid for, your electricity costs will be reduced.

- They reduce your carbon footprint. Solar electricity is green renewable energy that doesn't release any harmful pollutants into the atmosphere. A home with solar panels could save over a tonne and a half of carbon dioxide per year – that's more than 30 tonnes over its lifetime!

- If you generate more electricity than you use it can be sold and you can get paid for this surplus electricity through a government scheme, Smart Export Guarantee (SEG). This scheme requires all larger licensed energy companies to pay SEG Generators (you) for their low carbon electricity which they export back to the National Grid.

FAQs

How much could I save on my electricity bills?

The annual saving/income with SEG if you're usually at home all day is £610 per year. If you're normally home just in the morning or just in the afternoon it could be between £525 and £490 per year. If you're normally out all day until 4/6pm then £400 to £360 could be saved per year.

How will I maintain my solar panels?

Moat and one of their approved suppliers will carry out the maintenance on any solar panels

Who will pay for the installation of my solar panels?

Moat would pay for the installation of your solar panels if it was deemed to be a suitable improvement for your home's energy efficiency.

Links to advice and help

https://energysavingtrust.org.uk/advice/solar-panels/

Contact: Moat customer services on **0300 323 0011**