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However, despite the increasing adoption of solar, it's still a widely misunderstood resource. With that in mind, let's explore how solar energy works and how it's going to change the UK economy for the better.

Solar energy has always been an important resource for humans. As early as 6000 BC, the Chinese designed their homes to capture the warmth of the sun. By 1000 BC, the Romans and Chinese were concentrating solar energy with "burning mirrors" to light fires and torches. Later, solar energy was used in solar ovens to cook food, to heat water, and in greenhouses to grow exotic fruits and vegetables in cooler climes.

Then in 1839, a new application emerged that would change how we think about solar energy forever. Alexander Edmond Becquerel (1820-1891) discovered that sunlight created an electrical current between silver chloride and platinum. The photovoltaic effect, as it came to be known, was further developed by Willoughby Smith (1828-1891), who discovered selenium's greater conductivity in the presence of light.

Building upon these discoveries, Charles Fritts built the first selenium-based solar module in 1883. However, selenium wasn't a particularly efficient photovoltaic material. It wasn't until Bell Laboratories in the US began experimenting with silicon in the 1950s that the first solar cell appeared, paving the way for a new generation of solar panels that could power everyday appliances.

Solar energy is the result of nuclear fusion inside the sun's core. Like all stars, the core smashes lighter elements together to form heavier ones. In our sun's case, this is the fusion of hydrogen into helium. As they fuse, the reaction releases enormous amounts of energy, heating the core to 15.6 million degrees celsius.

At the surface, the sun releases this energy at around 63 million W/m², which blasts its way towards Earth at the speed of light, finally reaching Earth after about eight minutes. By the time it hits our upper atmosphere, much of the energy is lost, and we receive about 1370 W/m².

That's still a dangerous amount of energy (as anyone with bad sunburn will tell you), and without our atmosphere protecting us from the worst of the sun's power, our oceans would evaporate and life would die out. Thankfully, the atmosphere attenuates solar energy to a degree that's safe and enables life to flourish.

Following Becquerel's discovery, the world went dizzy with dreams of endless, free power. While we've not reached those utopian heights yet, we can capture a proportion of that solar energy and convert it into heat and electricity using solar panels. NASA and other space agencies have been doing it for years, powering satellites



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and spacecraft without the need for heavy generators or fuel tanks.

Broadly speaking, there are two types of solar panel, thermal and photovoltaic. Thermal panels capture sunlight and turn it into heat. Photovoltaic panels capture sunlight and convert it to electricity. So how does each type of solar panel work?

Over 70% of the energy we use is for heating our homes and businesses, therefore thermal panels are an excellent, inexpensive way to cut your energy use. Each thermal system varies, but they work on a similar principle.

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