

# Solar Power... What's it all about?



This is Bedfordshire's first Solar Farm.

Solar power is one of the most **well-established** and reliable **renewable energy technologies**.

Electricity is produced directly from **photovoltaic**, PV, cells. (Photovoltaic literally means "light" and "electric.") These cells are made from materials which exhibit the "photovoltaic effect" i.e. when sunshine hits the PV cell, the photons of light excite the electrons in the cell and cause them to flow, generating electricity.

The Solar Photovoltaic (PV) panels being used here have no moving parts and operate even in cloudy conditions. **They produce no noise, vibration or pollution.**

The 5MW solar farm, when running to its capacity will **provide enough electricity to power up to 1500 of the 2,800 homes** within the village of Caddington and Slip End, **preventing up to 2,500 tonnes of carbon dioxide** emissions annually.

