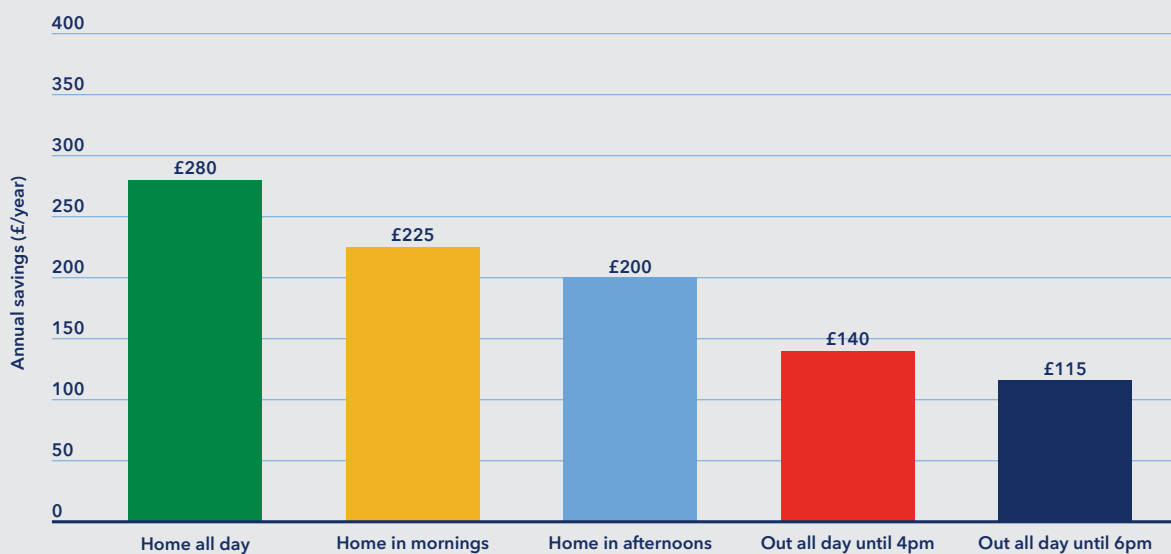


## How solar panels work

Solar PV systems use cells to convert sunlight into electricity. The PV cell consists of one or two layers of a semi conducting material, usually silicon. When light shines on the cell it creates an electric field across the layers causing electricity to flow. The greater the intensity of the light, the greater the flow of electricity.

The solar panels generate DC electricity from sunlight which is fed through an inverter to convert it into AC electricity.

The inverter is connected to your consumer unit (fuse board) so the electricity can be used in your home.



### Typical Energy Savings

Information from Energy Saving Trust - Nov 2021

Annual Savings - Manchester

t CO2 saved/year = 0.82