



## Generating your own electricity

If you're interested in generating your own electricity, and not generating any carbon emissions, you might want to consider the following:

### **Solar Photovoltaic Cells**

These convert light directly into electricity. They should be placed on a south-facing roof and a normal pitch of 30 – 40 degrees will mean that the PV cells will be placed at a favourable angle to the solar radiation. Planning permission may be required. Grants may be available through the low carbon programme (up to 50%).

You can link your PV cells to the grid, which allows you to export any excess electricity. This will require grid-synchronisation equipment. Alternatively, you can store the excess electricity in batteries.

Solar PVs are available in two types: evacuated tubes and thin film . They are available as tiles and can be used in place of conventional tiles.

A great way to exploit the power of the sun!

### **Wind Turbine**

These are not suitable for everyone, especially in built-up areas. However, for houses in rural areas, with sufficient land and wind, then they may be an option.

Planning permission will be required and grants are available through the low carbon programme (35%). Like Solar PV, you can connect to the grid or store electricity in batteries.

Check the wind power at your site and talk to your neighbours before considering a wind turbine.

A great way to exploit wind power!

Contact us now to arrange a visit to your home to discuss energy generation

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