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Micro-generation: Wind power

We offer services in the design, planning processing and installation of micro wind generators, which range from less than one kW to 50kW machines. We currently offer the installation of the following MCS certified turbines:

Skystream 3.7 (2.5kW) turbine (minimum of 10m tower height):



The non-MCS Futureenergy one (1kW) turbine (5m tower height), use for battery charging and other small applications:



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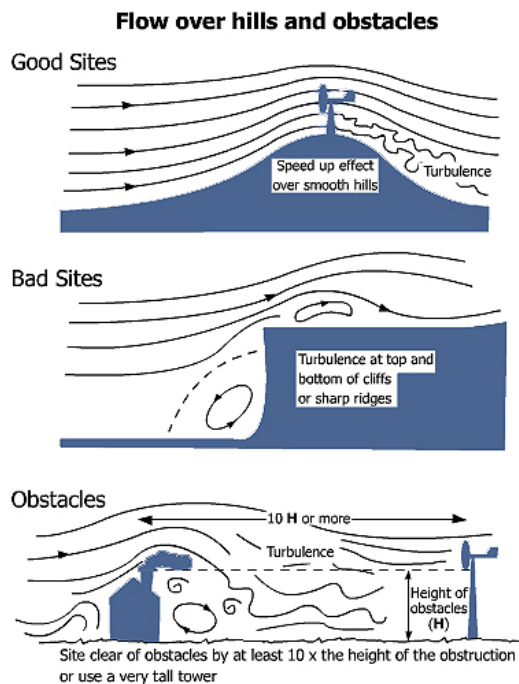
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And the soon to be accredited (early 2012) Futureenergy 10 (10kW) turbine (minimum 12m tower height, total height 16m):



We can offer other turbines which are accredited by MCS upon request.

The success of a wind turbine generator is dependent upon its siting, the graphic below demonstrates that despite the average wind speed of a location the ‘free air’ that a turbine has will have a significant effect on its performance. This also has a bearing on the stresses acting upon the turbine; the turbulent air will tend to strain the turbines possibly causing damage to it.



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The graphic doesn't show it but tress will have an effect in much the same way as the other objects do and so a distance should be kept from them. The second requirement of a 'good wind site is the wind resource available, to get an idea of the resource available in your area refer to the carbon trust wind yield estimator (easily found through Google insert: carbon trust wind yield estimator). A minimum of 5m/s average wind speed is usually considered for a potential wind turbine site.

If you feel that you have a site which could meet these requirements please feel free to contact us for a free no obligation site survey, using the details at the top of the page.

If you require a planning application to be completed for a potential wind turbine installation then the following items should be analysed as a part of this:

- Flora and fauna survey
- Visual impact assessment
- Archaeological issues
- Communication disruption issues
- Air traffic concerns both civilian and military
- TV and radio interference
- Flicker and shadowing assessment
- Noise assessment
- Assessment of exclusion zones (electricity cables, roads, paths, bridal ways, and so on)

We can offer these planning services for a fee ranging from £500-£1200 depending on the complexity, if however planning is granted and you employ us to install the turbine this charge will be waved.

In terms of permitted development there are currently no turbines on the MCS list that are within these requirements. Due to recent changes in these permitted development requirements, though, we are in talks with the suppliers of the Skystream 3.7 to create a tower and turbine which are within these levels. If this is achieved it will be possible to install turbines without a requirement for planning permission.

The generalised costs for each turbine, installed:

Turbine	Installed cost
Futureenergy 10kW	£40,000
Futureenergy 1kW	£3,000
Skystream 3.7	£13,000

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