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### Micro Wind Turbine Systems



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#### Wind Turbine Information

##### How do Wind Turbines systems work?

Wind Turbines convert wind energy into electricity even at quite low wind speeds, but a stronger wind will produce a higher yield. There are two types of domestic wind turbines available on the market. Firstly, mast mounted free standing turbines which can usually produce between 2.5kW and 6kW. Secondly, roof mounted turbines can be fixed the roof of the building and can usually produce between 1kW and 2kW.

##### What are the benefits of Wind Turbines?

Renewable energy doesn't release CO2 into the atmosphere, making it a more sustainable method of producing energy. Once installed, energy costs will be greatly reduced as a typical Wind Turbine can product around 30% of a household electricity needs. If your system is producing more electricity than you need, the surplus energy can be sold back to the national grid. If the system is not connected to the national grid, it can be stored in batteries until needed.

##### Are Wind Turbines suitable for the building in question?

There are a number of considerations that need to made when choosing Wind Turbines for your building. Firstly, will the Wind Turbine be exposed to enough wind? The Wind Turbine should be exposed to wind speeds of no less than 5m/s. Click [here](#) to access the Energy Saving Trust wind speed database. Secondly, are there any large obstacles such as buildings or trees that may cause turbulence. Finally, planning permission is normally needed for small domestic wind turbines. Check with the local planning department before you install a system.

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