

Your turbine will be supplied in 2 shipping containers, weighing a total of 30Kg, and you will be required to attach the tail fin and blades to the main turbine housing.

All instructions will be supplied to guide you through the simple assembly, and you should be ready to mount and use your turbine in only a few hours.

For battery charging applications we suggest that you use a suitable charge controller to prevent your batteries from becoming overcharged.

For site location, and tower mounting options, please download our Tower & Site Location document from [www.futureenergy.co.uk](http://www.futureenergy.co.uk), where you will find loads of useful information about setting-up, connecting and operating your turbine.

## Philosophy

Our development of the very latest in cost-effective products has been driven by the vast renewable resources available to everyone, and which remains untapped for most.

We seek to find the best sources of energy, and to build and promote products which can extract it efficiently, while making them available to all.

Based in the UK, we work alongside some of the renewable industry's pioneering and forward thinking companies, pulling a wealth of knowledge and experience together to bring you the latest in energy efficient products and services.

We invite each and every individual to participate actively in the development of new and exciting ways to capture and use energy efficiently. Enrol in the Renewable Energy Challenge at [www.futureenergy.co.uk](http://www.futureenergy.co.uk)

# FUTUREENERGY

A SUBSIDIARY OF SPECIAL EFX LTD



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# FUTUREENERGY



**Welcome to the future, and to the launch of our latest renewable energy products.**

## 1KW UPWIND TURBINE

Our 'rugged' **Upwind Turbine** range is based on 2 years of real-life testing and development in Warwickshire and the Uplands of Scotland.

Using our unique **Permanent Magnet Generators**, combined with our Hi-Spec Wind Turbine Blade Sets, these furling turbines create very useful power in low wind conditions, and over 1000W in winds of 12.5m/s.

Available in **12V, 24V & 48V DC** versions, they are suitable for **battery charging, water/air heating** and **Grid-Tie** installations.

We don't recommend 'building-mounted' installations other than steel-framed buildings. These turbines are tower-top ready, and will fit on to a standard 50mm galvanised scaffold tower.



## 1KW UPWIND TURBINE OPTIONS

- Mechanically furling tail fin for high wind protection
- Unique high-spec Permanent Magnet Generator
- 5 top-grade glass filled nylon turbine blades
- Sealed bearings in mast-mounting shaft
- 60 Amp rated slip-ring prevents cable-twisting
- Aerodynamic profile design
- Rugged and simple, with a minimum of parts and simplicity of design
- Zinc-plated and Stainless Steel with powder-coated and anodised aluminium for optimal corrosion and weather resistance
- Manufactured in the UK

### Technical Specifications

**Nominal Power Output** - 1000W (600W / 12v Version)

**Start-Up Wind Speed** - 2.5m/s

**Cut-In Wind Speed** - 3.2m/s

**Rated Wind Speed** - 12.5m/s

**Survival Wind Speed** - 50m/s

**Rotor Diameter** - 1.8m

**Number of Blades** - 5

**Generator Type** - 3-Phase Permanent Magnet

**Weight** - 22Kg

**Suitable Tower Diameter** - 50mm

