

SWIFT™

Wind Energy System



silent safe effective energy for your home or business

accessible renewable energy

We are Renewable Devices, a multi-disciplinary team of engineers and designers passionate about the development of clean **green** renewable energy.

The SWIFT™ Wind Energy System is our flagship product, and the World's first building mountable wind turbine with unique patented aerodynamic technologies for unprecedented silent, safe and efficient operation.

Suitable for domestic, commercial and industrial application in urban and rural locations, the SWIFT™ provides an attractive sustainable solution in the unstable energy market, with the added benefit of helping to safeguard the environment for future generations.

With installations worldwide, this award winning design icon has been quietly generating clean energy for homeowners, community groups and commercial customers for over five years.

The SWIFT™ Wind Energy System will drastically cut carbon emissions, reduce electricity bills and generally make the world a more **beautiful** place

SWIFT™ Wind Energy System

award winning silent wind energy
anywhere the wind blows...

silent

The SWIFT™ will generate less than 35 decibels of noise in all wind conditions - that's less than a whisper! The unique patented diffuser ring, which circles the blade tips, not only gives the SWIFT™ its trademark circular shape but is the key to this incredible acoustic performance. By shedding the turbulent air currents which flow from the blade tips, noise is removed. These patented acoustic suppression dynamics ensure that the SWIFT™ operates below background noise, making it virtually inaudible in all wind conditions.



safe

The SWIFT™ has both mechanical and electrical safety mechanisms and has been rigorously tested under extreme wind conditions. The system meets and exceeds all UK and European safety standards for small scale wind generators. The SWIFT™ has been independently verified for structural, electrical and grid monitoring safety by the New and Renewable Energy Centre (NAREC) and the Energy Savings Trust.



effective

The SWIFT™ can provide between one third and one half of an average household's electricity requirements. A patented twin-vane progressive mechanical furling mechanism, coupled with a sophisticated electronic control system ensures that the SWIFT™ offers incredible performance for a turbine of its size. The optimum power can be taken from the turbine under all wind and loading conditions. On a good site, the SWIFT™ can payback in as little as 5 years!



award winning

The SWIFT™ is an award winning design icon of the 21st Century, winning numerous sustainable building and design awards including the prestigious Ashden Award, presented by HRH Prince Charles, the International Design Award 2008, and reaching the final of the the Design Week Award 2008 for a land-based product, alongside the Apple iPhone.



international

Globally SWIFT™ Wind Energy Systems provide clean green energy for domestic, commercial and industrial properties in North America, Europe, Asia, and Australasia.

There is a SWIFT™ installed atop one of the highest man made structures in the Southern Hemisphere and the tallest building in New York State!

Our technical team work in close partnership with creative designers to ensure that the SWIFT™ remains not only the top performing turbine in its class, but also the most beautiful, making it an attractive proposition for consumers worldwide.

harm neutral

The SWIFT™ Wind Energy System is environmentally sustainable and harm neutral in design. An independent study shows that in good wind conditions the SWIFT™ can become carbon and energy positive in as little as two years.



wildlife friendly

The SWIFT™ is bat and bird safe, as supported by a five year trial at the Scottish Seabird Centre.

mounting options

The SWIFT™ can be installed on a multitude of building types, or on a stand-alone wooden pole. Specifically developed vibration damping systems in the mounting brackets restrict the transmission of oscillations from turbine to building by absorbing a wide range of vibration frequencies.

grants & planning

The SWIFT™ is eligible for grant funding from the Low Carbon Buildings Programme (UK wide), Communities and Renewable Energy Scheme (CARES) in Scotland, NIE Your Energy in Northern Ireland, and Sustainable Energy Ireland in the ROI. Funding for renewable energy installations for Farmers may be available through DEFRA.

The SWIFT™ meets all current planning legislation criteria. We expect the SWIFT™ to be included within the General Permitted Development Order in 2009.

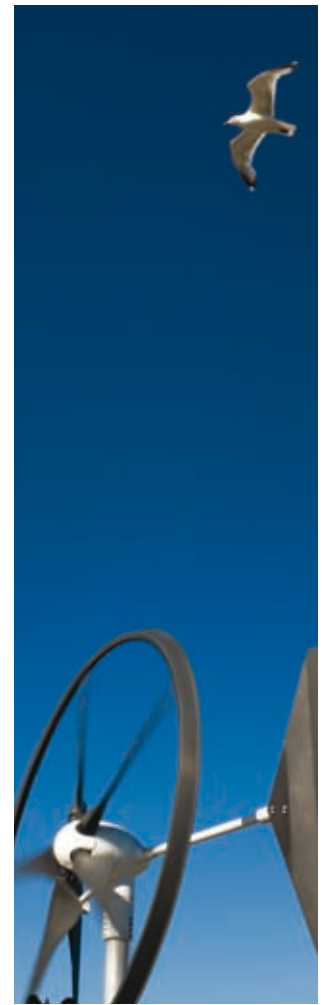
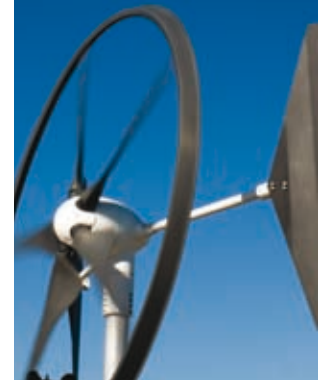
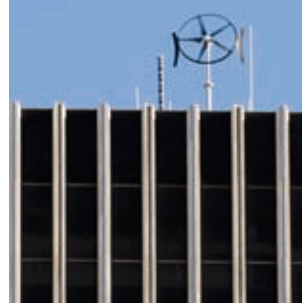
universal application

The SWIFT™ is grid connected, drawing electricity preferentially from the turbine and topping up any additional requirement from the grid by means of a specially designed SWIFT™ Inverter.

When the SWIFT™ generates more energy than is required by the property, excess units will be fed back into the grid.

buy & install

The SWIFT™ Wind Energy System is available to purchase as a fully installed complete working system, which includes the SWIFT™ turbine, mounting structure and brackets, all electronic controls and wiring connections. The SWIFT™ is available to buy from registered stockists or direct from your local installer.



SWIFT™

Wind Energy System



accessible renewable energy

Product Specification

Turbine
Rated Power Output
Annual Power Supplied
Annual CO2 Displacement
Product Life
Payback
Eligible for grant funding
Generator
Blades & Rotor
Mast
Mounting System
Cut-in Speed
Acoustic Emissions
EMI
Grid Connection
Battery Charging
Water Heating
Safety, electrical & reliability standards

Upwind Horizontal Axis with patented Diffuser Ring
1.5kW*
2000kWh** (up to 40% of the average home's annual electricity)
1.2tonnes*** (equivalent to a transatlantic flight!)
20 year maintenance-free design lifespan
In as little as 5 years (site dependent)
Yes (LCBP & CARES)
Brushless Permanent Magnet Generator
2.12m injection moulded nano-fibre reinforced polymer
Aluminium (building mounted) or wooden pole
Custom designed vibration-absorbing mounting brackets
3.4m/s (7.6mph)
<35dB [A] (across all wind speeds)
CE Certified, BS EN 61000
G83, UL & AS4777 Certified
48v or designed to suit your requirements
Replaces existing immersion heating element
Mechanical and electrical safety systems to standards
BS EN 61400-2, BS EN 7671 & BS 5760-7

* Rated wind speed 12m/s

** Site dependent

*** Substituting end-user electricity with a single 1.5kW rooftop turbine at 30% utilisation by CEDRL RETScreen International

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Your local SWIFT™ installer/distributor: