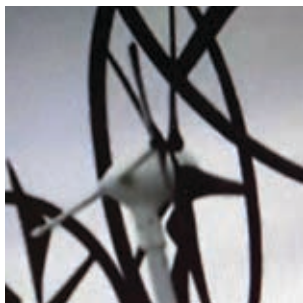
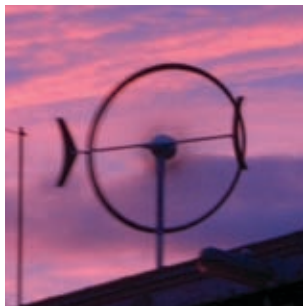




SWIFT™

Wind Energy System



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™ Rooftop Wind Energy System is 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.

When correctly sited, the SWIFT™ Rooftop 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 unique diffuser ring, which circles the blade tips, not only gives the SWIFT™ its trademark circular shape but is the key to its 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.

The SWIFT™ will generate less than 35 decibels of noise in all wind conditions - that's less than a whisper!



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.

efficient

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 and a correctly sited turbine can typically provide between one third and one half of an average household's electricity requirements.

international

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



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 was a finalist in the the Design Week Award 2008 for a land-based product, alongside the Apple iPhone.



harm neutral

The SWIFT™ system is environmentally sustainable and harm neutral in design. A study published by the Institute of Mechanical Engineers shows that in good wind conditions the SWIFT™ can become carbon and energy positive in as little as two years.

universal application

The SWIFT™ is grid connected, drawing electricity preferentially from the turbine and topping up any additional requirement from the grid supplier 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. Payment for energy returned to the grid can be arranged with your local District Network Operator.

Alternatively, the SWIFT™ can be connected to a battery bank for on-site energy storage, or a hot water immersion system.



vibration free mounting

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



wildlife friendly

The SWIFT™ is bat and bird safe, and supported by the Scottish Seabird Centre, where a five year trial has proven the system's wildlife friendly credentials.

grants & planning

The SWIFT™ is eligible for grant funding from the Low Carbon Buildings Programme (UK wide), Scottish Community and Household Renewables Initiative (SCHRI) in Scotland, NIE Your Energy in Northern Ireland, and Sustainable Energy Ireland in the ROI. Funding for renewable energy installations within the Farming community is also available through DEFRA.

The SWIFT™ meets all current planning legislation criteria and will be included within permitted development rights for small wind turbines, expected to be passed within 2009.

purchase & install...

The SWIFT™ Rooftop 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.

Your local SWIFT™ installer/distributor:
(insert stamp here)



accessible renewable energy

SWIFT™ Wind Energy System - Product Specification

Turbine	Upwind Horizontal Axis with patented Diffuser Ring
Rated Power Output	1.5kW*
Annual Power Supplied	2000kWh**
Annual CO2 Displacement	1.2tonnes***
Product Life	20 year maintenance free design lifespan
Generator	Brushless Permanent Magnet Generator
Blades & Rotor	2.12m injection moulded nano-fibre reinforced polymer
Mast	Aluminium (building mounted) or steel or wooden pole
Mounting System	Custom designed aluminium mounting brackets
Cut-in Speed	3.4m/s (7.6mph)
Acoustic Emissions	<35dB [A] (across all wind speeds)
EMI	CE Certified, BS EN 61000
Grid Connection	G83, UL & AS4777 Certified
Battery Charging	48v or designed to suit your requirements
Water Heating	Replaces existing immersion heating element
Safety, electrical & reliability standards	Mechanical and electrical safety systems to standards BS EN 61400-2, BE 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

www.renewabledevices.com/SWIFT

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