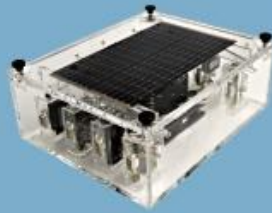




Solar and Wind Powered Energy Solutions provide:

- Renewable Energy Consultancy Service
- Feasibility Reports
- Photovoltaic System Design and Installation
- Wind Turbine System Design and Installation
- Combined Photovoltaic and Wind Systems
- Maintenance Service
- Manufacturer of S cube and Hotbox
- Electronic Engineering
- Component Supply





Ayrshire Business Award Winner 'Innovation and Technology'



Providing innovative solutions to present day alternative technologies



**Education:** Tomorrow's energy sources being taught today

### The revolutionary S cube

Explore the power sources of the future! See for yourself how electricity can be generated from the sun and wind. Create your own electricity to power these 6 individual units in the S cube, each constructed in clear plastic to allow the enquiring mind to see what is happening within.

A complete learning and teaching package to include a CD Rom, with a visit to a wind farm and downloadable worksheets ready for classroom use. Covering the 5-14 National Guidelines and the National Curriculum, it is an ideal package to stimulate and increase awareness of the potential power sources for the 21st century for both primary and secondary school children.

#### Comprises

- Solar Panel
- Wind Turbine
- Digital Voltmeter
- Digital Thermometer
- Sound Effects Module
- Metal Detector
- Sound Recorder
- Battery Charger
- White LED Torch
- Fast Charge Storage

#### Options

- Ammeter
- Variable Resistor

S cube dimensions: 300 x 260 x 120mm

### The amazing Hotbox

Amaze yourself with how much you can heat up water in a cold day with solar energy.

An introduction to thermodynamics. The temperature differential indicates the convection flow of the heated water. This package includes teacher's notes and actual results of laboratory tests.

This demonstrates solar thermal and is packaged in clear plastic to let the enquiring mind see how it works.

Hotbox dimensions: 245 x 170 x 90mm



and making them happen in our time **for our children's future**

**Installation:** Accredited to design and install Solar Photovoltaic and Wind Systems.

**Grid-connected:** a system combining the owner's green generated power and their existing electrical supply.

**Off-Grid:** a stand-alone electrical power system.

**Solar and Wind Applications Ltd install Renewable Energy Systems for:**

- Homes
- Businesses
- Schools



2kWp photovoltaic grid connected system.  
Private client. Installed November 2003  
Pathhead, Scotland

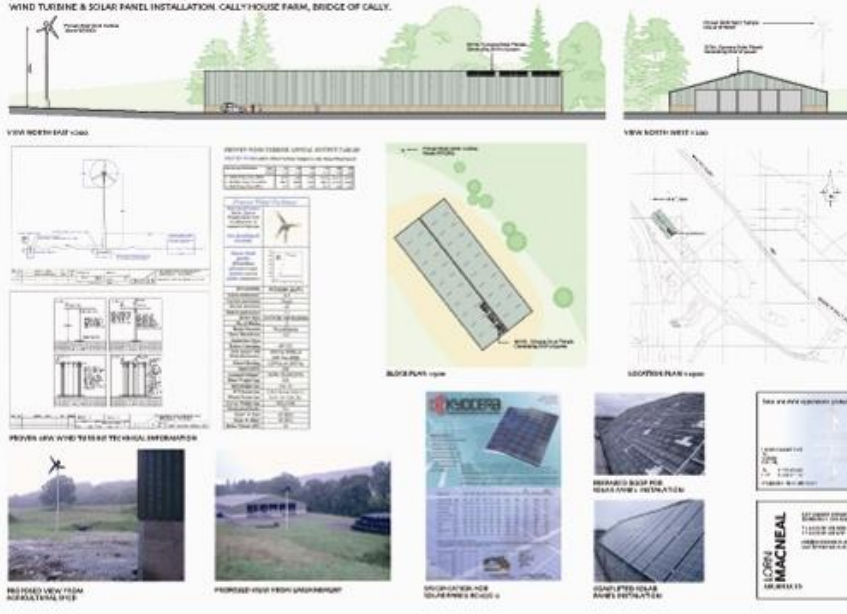


5kWp Proven Wind Turbine grid connected system  
Private client. Installed March 2005.  
Near Glasgow, Scotland



1kWp photovoltaic off-grid system.  
Historic Scotland. Installed March 2005.  
Near Edinburgh, Scotland

**SOLAR AND WIND APPLICATIONS LIMITED**  
**WIND TURBINE & SOLAR PANEL INSTALLATION - CALLYHOUSE FARM, BRIDGE OF CALLY.**



**Customers**

Aberdeen Renewable Energy Group  
 Action Renewables  
 BP Chemicals Ltd  
 DTI  
 Energy Saving Trust  
 Glasgow Science Centre  
 Historic Scotland  
 Lighthouse Architectural Centre  
 Local Authority Education Councils (10)  
 Northwest Renewables  
 Scottish Enterprise Grampian  
 Scottish and Southern Electricity Plc  
 Scottish Power UK Plc  
 Scottish Science Service  
 Transco  
 Private client portfolio

**Customer Feedback**

"Many thanks for your great contribution to the South Ayrshire Teachers Inservice Day on Environmental Energy."

"Today Miss Cairns brought out the S cube. My favourite was the LED. Four little lights light up when it is charged by the sun on a solar panel."

"We are absolutely delighted with our solar PV system. Wishing you every success in the future."

"Thanks very much for all your efforts in getting this turbine to happen. We have had tons of interest already."

"Many thanks for all your efforts and the splendid result you achieved. We are very happy with the resultant installation."

"It gives me great pleasure to announce the winner of the Ayrshire Business Award for Innovation and Technology."



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# What the kids think

- Today we were finding out what an S-Cube would do. The two main parts of the S-Cube are the solar panel and the wind turbine. When I was there I got to play with the sound box. Then the led torch, the thermometer and wind turbine. When we used the wind turbine it went up to 6.2 volts, the led torch was really bright. The little box I liked the best was the sound box. It made six different sounds and they were all different.

We were using renewable energy.

P4 pupil