



Heather's Hut Renewable Energy Project P6/P7



Project Partners:

Skills
Development
Scotland

The
Scottish Oil Club
Leading energy discussion & debate

“Heather’s Hut” is our very popular renewable energy project inspired and supported by Dr Heather “the weather” Reid OBE, meteorologist and formerly senior forecaster with BBC Scotland. It is aimed at upper primary pupils.

The kit is packed with equipment to allow a series of practical investigations including.

- How to make electricity and store charge
- Wind power generation and wind speed
- Hydro Power
- Solar Power

“Great course! I really liked the practical side – it made me more confident in having a go with the children”
Chapelgreen Primary



“I overcame my fear of science....I now feel confident to teach subjects covered. Well explained and entertaining”. Glencairn Primary

Topic	Kit content	Practical Activity
Making Electricity	Coil magnet meter	Inducing a voltage Demo
	Dynamo torch	Movement + coil + magnet => electricity
	Motor/dynamo	Movement in => electricity out
Storing Charge	Capacitor circuit	Charging capacitor => lighting LED
Wind power	Windmill Generator kit	Factors affecting the output of the wind generator, e.g. no of blades, angle of blade, force of the wind etc.
Wind Speed	Anemometer	Measuring wind speeds
Hydro power	Dynamos and Hydro Kit	Design own water turbine
Solar Power	Solar Panel (3v)	Investigating factors affecting output voltage eg area of panel, angle of panel, brightness of light
Solar Cooking	Mirrored card, lens, Dynamo torches	Investigating reflection and focussing of light
Solar Heating	Digital Thermometer, thermometer strip	Investigating heat transfer through materials
Heather’s Hut Model	Electricity box	Circuit building

For further information or to purchase a kit at £275 please contact yesc@scdi.org.uk