



Practical Action – Wind Power Challenge

Students are given minimal materials and asked to design a wind powered machine that can lift a weighted cup off the floor. Teachers instruction sheets, related video clips and even certificates are provided.

Suitable for KS2 – 4, this renewable energy challenge puts students' competitive spirits to the test.

For more details go to <http://practicalaction.org/wind-power-challenge-stem>.

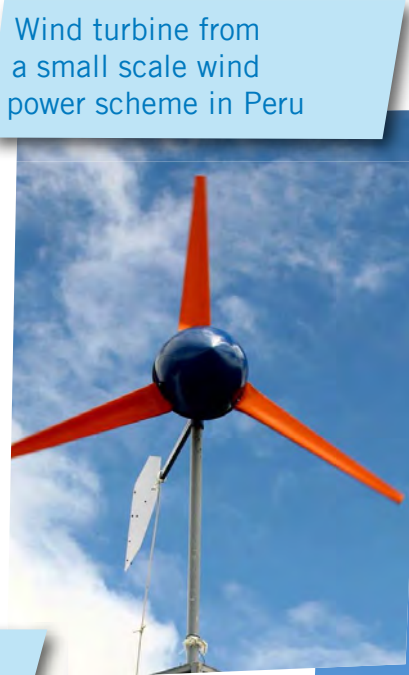
All schools in Wales who request a STEM Ambassador can borrow the 'Wind Power Challenge' equipment from their local STEM Contract Holder – See Science – free of charge.

Contact enquiries@see-science.co.uk.

DIFFERENT TYPES OF WIND TURBINES



Wind turbine used to pump ground water in Kenya



Wind turbine from a small scale wind power scheme in Peru



In development is an idea for wind turbines that can be placed over roads to capture wind generated from passing cars



Vertical axis wind turbine which takes wind from any direction and can be used in areas where there are building and trees



Roof top turbine which sends the electricity it produces straight into the house to be used



Wind farm turbines that have blades which turn at six times the speed of the wind



Traditional windmill used to grind flour