



Micro Generation Off-Grid Power Workshop

Wind and Solar PV

Learner Profile

This one day workshop is designed to give a general overview of the theory and practice behind setting up an electrical system for the provision of off-grid electricity. (It will also explain the process for grid connection in theory). Learners do not need to have a previous qualification in electricity or electronics as all components will be explained in lay-mans terms.

Trainers

Hugh Piggott: In 1978 Hugh got seriously bitten by wind power and has used wind and solar power for his own electricity ever since that time. He has designed, built and sold small wind turbines in sizes from 3 feet to 15 feet in diameter. These supply electricity to the population of Scoraig, NW Scotland (about 100 people) and beyond. He has written a number of books about building small wind turbines and teaches all over the world. He first came to Ireland in 2007 and again in 2008. He is renowned as one of the world's foremost experts on wind power,

Eirbyte Renewable Energy tutors - Jimmy Dowds and Miriam Sheerin, have lived off-grid for many years and have been involved with the design and installation of renewable energy systems (wind and PV) for 10 years now. They have been teaching Build Your Own Wind Turbine courses for five years.

No. of Class Days: 1 Day

Purpose/Overall Learning

The course participants will learn the skills and the theory involved in building an off-grid power solution. Having completed the build of a 4.2m diameter wind turbine recently we will now go through the process of taking the power from the machine and using it for an off-grid application here on site. We will discuss power generation from the wind turbine and solar PV panels, inverters and control systems, off-grid and grid-connected systems. At each stage of the process the participants will gain hands-on experience.

Process

A mixture of classroom theory based presentations and actual learning by doing, wiring up the battery packs, inverters, charge controllers and dump loads.

Course Fee: : €50

Course Dates: Saturday 18th: