

# THE RESOURCE HUB

## Alternative Technology Workshops and Library and Info Space.

The REsource Hub is a space to learn practical skills to use renewable energy and live sustainably. Over the weekend are timetabled workshops as well as a library to browse and absorb knowledge.

Spaces maybe limited or booking required so please check.

All equipment for workshops will be provided but there is limited seating so to ensure a seat please bring one if you are able to.

All workshops are free.

**Open library** – Books, magazines, free info leaflets, educational displays, information on how the festival is 100% solar powered and how to build your own off grid power system.

### **Beginners Guide to Setting Up an Off Grid Solar System - *Chris from Green Bee Permaculture***

An introduction to simple solar system set ups and how to connect them together to get them working. I will discuss different types of controllers, batteries and invertors etc and provide guidance on how to size a system to meet your requirements.

### **DIY Portable Power Pack - *Seggy Segaran from SF Environmental*** **LIMITED SPACES (8)**

Demonstration of how to build a portable power pack that can be taken on camping trips, used in power cuts or garden/allotment sheds. The power pack is charged using a solar panel and has an LED light, 2 x USB and a 12V cigarette lighter socket. You will be able to build a power pack and see it working.

### **DC Power – *Dave Hainsworth.***

Learn about 12V Electrical safety, general battery maintenance and basic calculations to manage your own DC power system.

### **Energy Numeracy – *John Hodges***

Become better informed about the facts, figures and science behind renewable energy provision. Intermittency & efficiencies of different energy sources will be explained through quizzes, flip charts and a slide show. Also since its suddenly topical, a discussion on some of the lesser known but effective ways of energy saving around the home.

### **Haybox Thermal Cooking to save Energy - *Jane Segaran from SF Environmental***

Demonstration of a range of Haybox Thermal Cookers with a discussion on how to make them from simple household items. Jane will have a couple of dishes cooked and ready for tasting by the end of the workshop so bring a plate.

### **Practical 12V Solar PV Workshop – *Bob Robarts of Sustainergy*** **LIMITED SPACES (14)**

This is a 3-hour workshop with a break where participants will independently install their own PV system safely and effectively. By the end of the workshop each student should have been able to wire up a PV system, measure input and output power, light a bulb, turn a motor and make a solar powered cup of tea/coffee!

### **Introduction to Small Scale Wind Turbines - *Chris from Green Bee Permaculture***

An introductory workshop about small scale wind turbines and how they can be used in isolation and as part of a combined energy system with solar PV. There will be two different types of turbines to see, learn how they work and how to connect them to a battery system.

### **Off Grid Chat**

Open session to ask the workshop providers any questions, be they specific about your own system or generic. A space to learn from each other and share off grid living aspirations or experiences.

Come along if you're an expert in any off grid living technology and share your knowledge