

INTRODUCTION TO RENEWABLE ENERGY

Course number: 1118

Tutor(s): Graham Johnson and Doug Johnson

Date(s): Saturday 17th September

Price for participants: Non-residential £125

TIMES:

Start time:	09:00
Finish time :	17:00

COURSE CONTENT:

- Renewable Energy overview
- Buildings & Renewable Energy – design considerations
- Heat Pumps (Air Source, Ground Source and Water) – selection criteria, COP's
- Solar Thermal – siting considerations, flat panels & vacuum tubes
- Biomass – chip, pellet & log boilers
- Solar Photo Voltaic – siting considerations, roof, & ground arrays, inverters and generation meters
- Harnessing the wind - Wind Turbines, main types, on grid, off grid, siting considerations, monitoring potential installation sites

AIMS:

By the end of the course participants will understand:

- The main drivers for Renewable Energy, in a UK, European and Global context.
- The important design considerations for buildings, when considering installing renewable energy solutions
- The importance of equipment selection and installation to optimise ongoing energy running costs of installations
- Typical renewable energy installation costs and payback times
- The main types of renewable energy solutions, how they work, selection criteria, typical installations:-
 - Heat Pumps (air, ground, water)
 - Solar Thermal
 - Biomass
 - Solar Photo Voltaic
 - Wind Turbines
- Sizing criteria for installations

TIMETABLE:

The training will start promptly at 9.00am, and students are encouraged to ensure that they arrive

early; coffee and tea will be available from 8.45am.

The day will be a mixture of formal presentations and informal group discussions, in a workshop format. Students will have an opportunity to look at some operational renewable energy installations at the sustainability centre.

ABOUT RENENERGY AND THE TUTORS:

RenEnergy Ltd are renewable energy company that specialise in the Design Supply and Installation of a wide variety of renewable energy solutions for building professionals, architects, M&E consultants, specifiers and self builders. Projects include domestic premises of all sizes and types, commercial offices, industrial units, village halls and churches. They are MCS approved installers for all types of heat pumps, solar thermal and solar PV installations.

RenEnergy specify and install a wide range of high quality products to reduce energy consumption, and carbon footprint.

RenEnergy have a purpose built office and training centre for renewable energy nr Norwich, and have a Hampshire branch just north of Petersfield. This allows them to cover a wide area of East Anglia and South East England.

Graham and Doug Johnson are both directors of RenEnergy, and engineers by training. They have a wide range of sales, operational, commercial and technical knowledge regarding renewable energy solutions and practical energy efficient installations.

STUDENTS SHOULD BRING/WEAR:

Clothing for indoors and outdoors
Pen and notebook

Lunch will be provided by the Beech Café at the Sustainability Centre

STUDENTS WILL BE ABLE TO TAKE HOME:

A certificate of attendance
Handouts

There will also be an opportunity to purchase selected books from Permanent Publications at a discounted price.

CONTACT DETAILS:

You can now book online at www.sustainability-centre.org

For enquiries or bookings by phone, post or email please contact Raina Jones on courses@sustainability-centre.org or 01730 823166

Gift vouchers are now available for adult courses