



## The Technology of Solar Power Piecing it all together



A one day Master Class to unlock the secrets of achieving energy self sufficiency through the use of solar electric panels in everyday life

***“ The earth receives enough energy from the sun in less than one hour to satisfy the entire demand of the world’s population for a whole year ”***



## Learn how solar panels can become a cost effective part of your energy requirements

Just think of the many ways solar panels are being used in homes and businesses in the UK – right now!

- In the home: to power workshops, greenhouses, stables, garages and home offices.
- In caravans, boats and complete island communities
- In business: for data-logging, parking ticket machines, street lights, powering building site huts and stores, for road signs, water pumping systems . . . the list goes on!

The fact of the matter is that a solar electric system is a well proven method of providing long term power to run 1000's of applications where otherwise an expensive mains connection would be required. Most often these systems don't only offer an immediate and significant cost saving over every other power source but require minimal maintenance and cost virtually nothing to run.

The possibilities are endless . . .

### The challenge

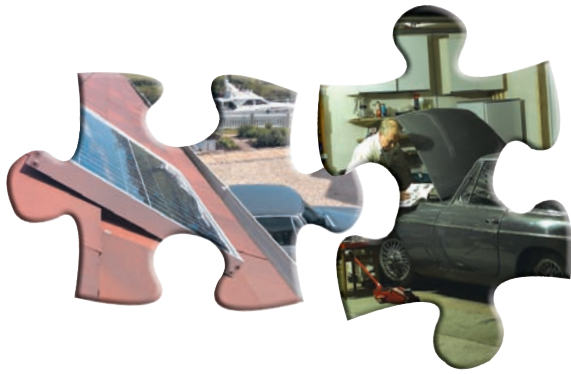
In virtually every activity we do at home and work we totally rely upon electricity. Take it away and it would literally mean the end of the civilisation we know and love.

How would you, your home and business cope if there were continual power cuts and the costs of energy rise to the point where you dare not even switch a light bulb on? What are you doing to reduce your families or businesses carbon footprint?

Smart homeowners and businesses are beginning to discover that powering selective applications by solar provides complete insulation from long term energy price hikes, ensures they are fully protected against loss of power and even increases the value of their property.\*



\*Source: Energy Saving Trust, 26<sup>th</sup> August 2008



## The solution

In this one day Master Class, you will gain an overview of most of the renewable technologies available, will fully understand how a solar system works, how to specify the right size system for your application and most importantly will be able to confidently determine if solar is financially viable or not for any application.

**The Master Class course arms you with the crucial information needed to make your own informed decisions for any project.** It will transform the way you think about the use of solar and will give you enough knowledge to begin employing this technology and start saving money immediately!

At Solar Master Class our course instructors have been involved in low voltage AC/DC installations and solar pv for many years and can guide you through the sometimes confusing and contradictory world of solar energy. **In this crammed and entertaining one day course, our instructors will impart the industry secrets known only by the most experienced solar engineers.** During each part of the day's syllabus your instructor will focus on the key issues using jargon free language.

The "hands on" practical system build sessions in the afternoon are all conducted in a safe and friendly environment where each delegate will learn how to build simple and advanced, multi-panel systems.

## COURSE CONTENT

- An overview of all renewable technologies
- How a solar panel produces electricity
- UK suitability for solar panels
- Different types of solar panel and their benefits
- Grid connect systems (direct to mains) and pay back times
- Off grid systems (stand alone) and what is possible / not possible
- How to assess what size of panel is needed for any project
- Building three different everyday solar systems
- Recognising faults in a system and how to rectify
- Analysing and optimising the performance of a system

## WHO SHOULD ATTEND

- **Novice or experienced DIY'er** – anyone with an interest in generating their own power at home
- **Individuals or companies evaluating new business opportunities** in providing homeowners and businesses with grid-free power solutions
- **Business facility managers** wishing to reduce energy consumption and improve their company's eco credentials
- **Government / Council officials** to understand how low cost solar systems can be incorporated in many municipal applications where payback is almost immediate
- **Schools, colleges and universities** to educate and enthuse students and allow them to gain hands on practical experience that will inspire and encourage the use of renewable technologies in later life

## What's included

Each Master Class is restricted to a maximum number of 6 delegates per lecture to ensure the syllabus and practical sessions can be fully and comprehensively covered.

Each Master Class is held in our purpose built training centre at Bredon, Gloucestershire where we can be found just 5 minutes from junction 9 of the M5 motorway or excellent train links via the Ashchurch junction accessed from either Birmingham, Bristol or Cheltenham. We can arrange to collect you from Ashchurch railway station if required. Each Master Class commences at 10:00am and finishes at 5:00pm.

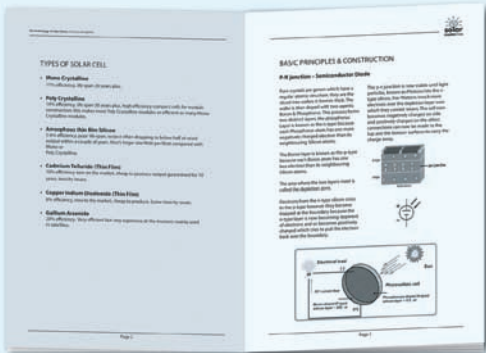
The Master Class fee includes:

- Welcome reception drinks – coffee, tea, biscuits
- Mid morning coffee, tea, biscuits
- Lunch – sandwiches and cold buffet
- Mid afternoon tea, coffee and biscuits
- Delegate manual
- The use of materials for the practical sessions

## Delegate manual

Each delegate is presented with a Solar Master Class manual, packed with essential facts and practical advice presented in a pragmatic, no nonsense way.

The many examples and diagrams will guide you toward energy self sufficiency, whilst the real life "how to" applications can be replicated in every home and business.



## To book

The cost of attendance at the one day Solar Master Class is **£199 inc VAT (£173.04 plus VAT at 15%)**. Master Classes are held twice per month – see separate sheet for dates and booking form - although private courses can be provided for 4 or more delegates. (please contact Solar Master Class on 01684 774005 for more information).

**Volume discount** – Book 3 or more delegates at the same time and save £20 per delegate.

**Learn at work** – Have more than 6 delegates for the Master Class or prefer us to train you at your own site? Please telephone 01684 774005 for details.



## What they say



Just about right. Presented in a concise and understandable way.

*Dave from Preston*

Learned more in one day than I have done after reading numerous books on the subject – fantastic.

*John –High Wycombe*

I intend starting a business offering small pv home and garden based systems to customers in my area – many thanks – you have given me everything I need plus much more.

*Mike - Swansea*

I feel really confident about tackling a solar system in my summer house.

*Sheila – Leicester*



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Please book your Solar Master Class through: