

# Harvesting Wind for Community Groups and Farmers – a “how to do it” workshop

Learn how Hockerton’s wind turbine reduces CO<sub>2</sub> emissions and earns an income from the Feed-in-Tariff



## Who will benefit?

This event will be of particular interest to **community groups and farmers** wishing to install a wind turbine or a Photovoltaic (PV) Array to reduce carbon emissions and benefit from the Feed in Tariff.

## Why should you attend?

This workshop gives delegates an understanding of how to make renewable energy work for them in their communities and farms:

- Increase your confidence by understanding the challenges you will face.
- Expand your knowledge to be more able to accurately justify your income predictions.
- Reduce your stress levels by finding out about actual costs.
- Learn how to find out what the community wants and turn that into a plan of action
- Improve your understanding of the technology that’s right for you
- Avoid the pitfalls in planning applications
- Consider the legal structures suitable for your enterprise
- Find out some useful contacts in the field
- Understand the management commitment required.
- Understand the practical aspects of linking to the grid and selling your energy
- Become inspired by seeing, hearing and feeling three community owned wind turbines and a PV array for real.

## The Workshop

Contact Simon at [hhp@hockerton.demon.co.uk](mailto:hhp@hockerton.demon.co.uk) or ring 01636 816902 to book.

We can provide a unique 'real-life' experience of renewables for visitors. This will help enable attendees to deliver their own renewable energy projects. Our knowledge comes from the practical experience of implementing several successful community wind

turbine projects and PV arrays. The largest community wind turbine in Hockerton is a Vestas' 225kW machine. Lessons will also be shared from the smaller-scale private network at Hockerton Housing Project (HHP), fed by two smaller wind turbines (5 and 6 kW) and a PV array (7.6 kW). The day's presenters have in-depth knowledge of revenue generation, equipment selection, commissioning and supporting communities and farmers through what inevitably turns out to be a complex yet rewarding processes.

HHP has worked closely with Sustainable Hockerton Limited (SHL) the owners of the Vestas machine in Hockerton Parish. Representatives of SHL will be present on the day to share their knowledge.

The Workshop is held at HHP in Nottinghamshire, one of the most energy and resource efficient developments in Europe.

## Background to HHP

HHP is an innovative residential sustainable development in the village of Hockerton near Southwell, Nottinghamshire. The HHP group set up an advisory service HHP Trading Limited to help people to achieve **zero carbon residential systems**, reducing life cycle energy to a minimum.

Since completion in 1998 Hockerton Housing Project has installed various renewable energy systems on site including a Proven 6kW wind turbine, an Evance ISKRA 5kW wind turbine, a 7.65kWp PV array, a Solar thermal system and five air to water heat pumps. It also successfully managed the village's Vestas V29 225kW turbine installation. These systems provide a unique 'real-life' experience of renewables for visitors.

To find out more about HHP or SHL, please visit their websites at [www.hockertonhousingproject.org.uk](http://www.hockertonhousingproject.org.uk) or <http://www.sustainablehockerton.org/> (Press Ctrl and click to make link)

## CPD

**Attending a HHP event can contribute towards your CPD requirement. This event can count towards 6.0 hours of CPD (this excludes time for lunch) *You may wish to discuss with your professional body – many other visitors have used visits to HHP to meet their CPD requirements, including RIBA & CIOB members.***

## Venue: Sustainable Resource Centre (SRC)

To meet the growing needs of visitors, the **Sustainable Resource Centre (SRC)** was completed in December 2004.

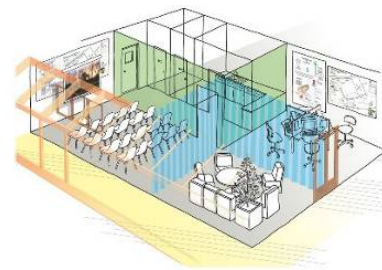
The facilities include a:

- A dedicated audio-visual room
- Seminar facilities
- Permanent exhibitions.

The building itself has been built to similar high environmental standards as the homes, including meeting autonomous, zero heating and zero CO<sub>2</sub> standards.

***“The SRC will be an inspirational centre and act as regional catalyst for sustainable action, offering improved facilities and more extensive activities for a wide range of interest groups.”***

## HHP and Sustainable resource Centre



### Programme

09.30	Registration and refreshments
10.00	Introduction: Objectives for the day and personal visions
10.30	Case Study - Community Wind Turbine Vestas 225kW
11.25	Comfort break
11.30	Capital Financing, Governance Structures, Sizing and Planning Permission Strategy
12.30	Question and Answer session
13.00	Organic lunch (local caterer) & networking
13.30	Tour of Hockerton Housing Project's ISKRA 5kW and Proven 6kW turbines and PV array
14.15	Case Study HHP Renewables
14.45	Make the Feed in Tariff work for you  (Liz Lainé, SHL director)
15.15	Refreshment break
15.30	Tour  Sustainable Hockerton's 225kw V29 Vestas turbine.
16.00	Close

This programme is only a guide with approximate timings. HHP reserves the right to vary the programme

**Attendance at this events is limited to 16 delegates, to ensure a truly interactive and worthwhile event for all participants**

## Testimonials

Dear Simon,

Thank you and Liz very much for a fantastic day! I can't think of a single bit of the workshop that I didn't find useful or at least interesting, and the food was good too. Despite all the difficulties you've encountered in your project, It's very inspiring and I certainly want to start a wind project in York. I will certainly be recommending your workshops to anyone interested in the issues and will try to get other people from York to go on the next 'harvesting wind' one. I hope that you get your FiT money soon! Many thanks again & best wishes,

Ivana

Dear Simon and Liz,

Thank you so much for yesterday – it was a great day and fully restored my confidence in what we are doing.

The day went very well for me.

It's good to hear about different aspects, even if they're not directly relevant to me.

I was particularly fascinated to hear how you had project managed the 225kW yourselves.

We have had a good and positive meeting with our planning officer today and are now intending to resubmit.

Best wishes and good luck to you all, Frank

Dear Simon Tilley,

I hope you do not take my lack of response so far as lack of interest.

I was impressed by the way you and Liz led the whole day and I felt privileged to learn from the experience of your project and village organisations.

As I mentioned before I left, I do feel overawed by how much time and energy the few of you have had to devote to the project over the years. I have so many other things I would like to achieve in the time left to me that I do not see myself being a prime mover.

I hope to explore further what others in our village think about a wind turbine. I can at least envisage investing in a small private one if that could be arranged. If discussions progress, I can imagine a time when a consultation from someone with experience like yourself will be needed. So far you seem to me to be the best source of information and expertise for the purpose.

Yours sincerely,

John Goodacre.

Hi Simon,

in relation to the feedback,

1, I have been studying and working with community groups on proposed community wind development locations and therefore feel I am relatively up to date on the process of idea through to install, however, I found the personal experience you have had in this process very useful as it is always a little different to what is taught on paper. I also found the friendliness of the event allowed members to openly ask questions and seek advice on certain aspects, that turned out to be useful to us all.

2, All well managed.

3, Good allround overview.

4, Sequence of the day was fine, it may have been a bit more beneficial for the FIT slides to be earlier in the day, before the financing section of the slides, as not much time was given to review/discuss and reflect on this information.

5, I didn't pay for the event the company (AAT) did, so no comment.

6, I will suggest this to the community groups I am working with, inevitably it depends on funding on their side.

all the best

Jenny

Jenny Carlisle  
Sustainable Energy Project Manager / Rheolwr Prosiect Ynni Cynaladwy  
Awel Aman Tawe

### (From other HHP Master Classes)

The ability to see, hear and feel the products/engineering in action in a practical environment rather than just reading company brochures, watching promotional footage or demonstrations. It was very nice to talk to "real" people that live with the technology and have experienced benefits and pit-falls associated with it. ([Mark Cox, Building Surveyor, National Trust, Jan 07](#))

I think the main advantage of the day was being able to see the various technologies (that we've all been talking about for yonks!) actually functioning alongside each other, integrated into a real living community environment. You read about it, you hear about it but seeing it is altogether different. Terrific! ([Graham Mills, East Midlands Renewable Energies Group, Jan 07](#))

I thoroughly enjoyed the day and it was very encouraging talking to people who had practical experience rather than just a grasp of the theory. Simon's presentation on the principles was as clear as any I've seen, if not clearer and I particularly enjoyed his graphs showing the threshold between heating costs and insulation levels representing the point that thermal mass became important. .... the detailed discussion about construction and procurement challenges from Nick gave a practical edge to the day that you rarely get at other events. ([Rob Annable, Architect, Axis Design Collective, Birmingham, Nov 06](#))

"In brief your project at Hockerton is outstanding, the people amazing and the course was for me was thought provoking, eye opening and very inspirational." ([Martin Johnson, Brewster Bye Architects Ltd, Nov 06](#))

"I had a great day at Hockerton and have brought away many valuable ideas about how Willmott Dixon Housing can deliver more sustainable developments." ([Gareth Rondell, Sustainability Manager, Willmott Dixon Housing Ltd, Sept 2005](#))

I had a thoroughly enjoyable day at Hockerton and felt I learned a lot in what I thought was a wonderful model for ecological and sustainable living. I was very impressed with everything I saw, from the simplicity of the construction of the homes, and the amount of light projected through the conservatory area to the back of the homes, to the use of the solar and wind powered technology used for the energy supply for the homes, and the water supply and 'waste' management system. Compared with other conferences, seminars and visits I have undertaken in the course of my studies for my qualification, it has been the most enjoyable, interesting and informative, so on that basis I must say it has been the best value for money, as in the past I have paid more for less. ([David Spooner, Registration Executive, Lytham Land Registry, September 08](#))

I found it all very useful and the day was managed with pride, confidence and professionalism - I think its great what you guys have done I would like to visit again. Really really impressed. ([Senior Environmental Scientist, Wardell Armstrong LLP, Nov 07](#))

My main reason for visiting was that it's easy for us industrialists and academics to sit behind our desks pontificating on low-energy housing, but to visit the people who have actually DONE it is invariably refreshing, and is always a good thing to do as a 'professional sanity check'. ([Dr Neil Cutland, Executive Director, Inbuilt Ltd, Nov 07](#))

You made an excellent presentation and the level of technical knowledge was very high even when compared to similar project presentations that I have visited in the UK. I would thoroughly recommend the Masterclass to anyone wishing to know more about this field. ([Jon Morris, Principal, One Engineer, June 07](#))

## **Presenters/Guides/ Facilitators**

### General

- HHP have run over 20 Master Classes aimed at designers, developers and decision makers considering low carbon building
- HHP Frequently provide presentations to conferences/seminars – Recent examples:
  - Renewable Energy conference (Earls Court) (Insights on a zero energy residential development)
  - Regeneration East Midlands
  - Ecobuild (Small Scale Wind & PV – the realities at Hockerton)
  - MSc course at Nottingham Trent Uni (sustainable water use)
  - BRE seminar (Small scale wind)

Presenters have Lived, breathed, and demonstrated zero carbon living at Hockerton Housing Project to over 20,000 visitors over last 10 years.

### ***Simon Tilley (M Eng, C Eng, M I Mech E)***

Simon joined the project in 1995, with a background in Mechanical Engineering. This included spending two years in Namibia working for Voluntary Services Overseas (VSO). His engineering skills have been put to good use in the project - He manages the HHP water & energy systems and a number of key HHP projects, including a DTI Domestic PV field trial (2002 to 2005) and Sustainable Hockerton's 225kW community owned wind turbine. (2002 to 2010)



His main contributions to the on site business are:

- Managing Renewable Energy projects
- Technical tour guide
- Technical workshop facilitator
- Technical consultancy (Water and renewable energy systems)
- Main external speaker for the group.
- Leads and facilitates HHP's developments with schools educational work.

Previous outside environmental work includes Open University Associate Lecturer for the "Energy for a Sustainable Future" and "Renewable Energy" courses, VSO Course facilitator for technical volunteers

and contributions towards Nottinghamshire Agenda 21's review of energy & construction. He is currently a director of Sustainable Hockerton Limited.

### ***Liz Lainé (BCom MSc)***

Liz has a Masters in Corporate Governance and Ethics, is currently extending this with a PG Dip in Environmental Decision-making, and works full-time from home for Consumer Focus as an advocate of sustainable consumption. As part of this work she leads their response to the Feed-in Tariff.

Liz joined the Project in 2009, drawn from central London by the opportunity to live a lower carbon lifestyle. She's passionate about community action: whilst in Camden she coordinated the local Friends of the Earth group, ran 'Energy Zones' at Green Fairs in Camden and Brixton, coordinated volunteers for an award-winning EcoHouse and set up a Carbon Reduction Action Group. Since arriving in Hockerton, she's got involved as a Director of Sustainable Hockerton during the implementation of the community-owned wind turbine.



## Terms and Conditions

### Cost

- Students/low income = £60 + VAT
- Individuals and micro-enterprises (< 5 employees) = £85 + VAT
- Organisations < 50 employees = £150 + VAT
- Organisations with 50 or more employees = £200 + VAT

### Booking

Your booking will be confirmed once payment has been received. Bookings must be accompanied by a cheque payable to 'HHP Trading Ltd'. Directions and further practical details will be sent to you with your booking confirmation.

### Cancellation policy

- This policy is designed to cover the administrative costs HHP incurs in booking and arranging tours and the loss of income for our tour guides who have to cancel other work arrangements to be available. HHP is a self-funded organisation which relies upon the income it generates to continue to provide services in relation to sustainable living and education.

#### Cancellation by you

- Any booking fee paid will not be refunded unless written confirmation is received at least 5 working days prior to the event; substitute delegates are however welcome at shorter notice.
- For group bookings that do not take place, a nominal charge of £200 will be made to cover any costs incurred by HHP unless at least 5 working days notice has been given. If the event takes place but with smaller numbers than booked, the booked numbers must be paid for unless written notice is received at least 5 working days prior to the event.

#### Cancellation by us

- HHP reserves the right to vary the programme or cancel any event in case of insufficient bookings or circumstances beyond our control. We will endeavour to give 5 working days notice, and all fees paid will be fully refundable. Transfer to an alternative date will also be offered if available.

Hockerton Housing Project Trading Ltd, The Watershed, Gables Drive, Hockerton, Newark, Notts NG25  
OQU, - VAT Reg. No. 826 4129 32