



## Monitoring: Proving carbon reductions and informing the path to a low carbon future

23<sup>rd</sup> April 2008, 13.30–17.30pm

**UCL Cruciform Building, Lecture Theatre 1  
90 Gower Street, London, WC1E 6BT**

**Plus demonstrations of monitoring equipment**



Event kindly sponsored by:



## Background

This event is the second educational event from the Good Homes Alliance for 2008. It will focus on practical lessons from the field and draw on the expertise of the Usable Building Trust and Oxford Brookes, together with monitoring experience from GHA developer members, as well as EP and EST.

There is general consensus that there is a gap between design aspiration and delivered reality for new homes in the UK. There is obvious benefit for developers and homeowners alike to be able to prove how buildings are operating, as part of a Quality Assurance process and to inform future designs.

Results from 6 years of monitoring at Stamford Brook have demonstrated once again the benefits of post construction monitoring. The results assisted the developers in understanding significant thermal by-passing mechanisms, as final thermal performance was on average 20% lower than designed.

All of these points reinforce the importance of monitoring for the successful delivery of low carbon homes. GHA developer members all commit to 2 years post construction monitoring and the GHA will shortly launch its own monitoring protocol.

We will also ask a number of companies involved in monitoring to display their products at the event. There will be plenty of opportunities to understand their offerings and meet the companies involved.

## Who should attend?

GHA members, developers, housebuilders, RSLs and client groups who want to understand the benefits that monitoring can bring, together with the costs and strategies.

To book a place at this event please email Lilja:  
**info@goodhomes.org.uk**

Free for GHA members, £117.50 (inc VAT) for non members

## Programme

13:30 Arrival and Refreshments

13.55 Chair's introduction

14.00 - 14.30: Approaches to Monitoring and Post Occupancy Evaluation

**Adrian Leaman; Usable Buildings Trust**

The UBT have been monitoring commercial developments since 1992 and over that time have built up considerable experience in gathering and presenting meaningful results, with many useful lessons for residential developers and clients.

14.30 – 15.00: Progress on the Energy Saving Trust monitoring protocol

**Mat Colmer; Development Manager - Housing, Energy Saving Trust**

The Energy Saving Trust has designed a monitoring protocol and have been working with others to develop a full post construction and post occupancy evaluation strategy. Progress on this and future developments will be discussed.

15.00 - 15.30: Real life experience of monitoring building fabric and resident's behaviour at Bladon

**Tony Woodward; Chief Executive, Kingerlee Homes**

As a GHA developer, Kingerlee Homes are committed to post construction monitoring. They have recently installed wireless sensors and monitoring hubs into all of the homes at Bladon and are signing up residents to the scheme. This talk will detail their progress, discuss some problems and some useful lessons.

15.30 – 16.00 Refreshment break

**An opportunity to meet and discuss with invited companies that provide monitoring kit, sensors, thermal imaging and in-house displays.**

16.00 – 16.30: Post Occupancy evaluation - developing resident questionnaires.

**Dr Fionn Stevenson; Oxford Brookes**

The benefits of questionnaires and selective interview techniques in relation to the findings of monitoring/spot measurements and the importance of triangulating the findings. Two UK case studies will be discussed.

16.30 – 17.00: Round up of monitoring the Millennium communities

**Tracy Gordon; Manager, New Build Programme, English Partnerships**

A summary of the monitoring results from the Millennium Communities and an overview of current monitoring requirements on English Partnerships sites

17.00 – 17.30: Further opportunity to meet and discuss with invited companies that provide kit, sensors, thermal imaging and in-house displays.

**Including:**

**Green Energy Options** – making energy visible, **Microwatt** and the **EcoMeter**, **DIY Kyoto** and the **Watson** energy meter, **Ivory Egg** and the **Enocean** wireless & batteryless sensing system. **Acis** and **Viridis Technology**, data loggers from **Eltek**, thermographic cameras from **Flir**, data storage from the **Meter Registry** and complete monitoring services from **Bisria**

The GHA is working with UCL Bartlett and Leeds Met to condense and disseminate the learning from 6 years of monitoring from Stamford Brook.



If you are interested in attending workshops in June, July and September 2008, please follow the link on our website:

[www.goodhomes.org.uk](http://www.goodhomes.org.uk)