



Network

News

June 2009

AECB Annual Conference, Oxford Brookes University, 11-12 June 2009

Final programme information is now available for the 2009 AECB Conference. This year's event 'Building for a Sustainable Future: Policy, Research and Design' will take place at Oxford Brookes University, 11-12 June 2009.

New speakers just announced include:

Professor Pete Walker, Director of the BRE Centre for Innovative Construction Materials at the University of Bath who will give a workshop session on 'Eco-materials: busting some myths'

Professor Ray Ogden of the Oxford Brookes University Department of Architecture, who will present a workshop on 'Using new materials in refurbishments – homes and offices'

At the end of Day One, Sally Harper and Gavin Killip, among others, give a practical account of how they have refurbished their Oxfordshire homes. Interested delegates can join an optional tour of these houses on the morning of Saturday 13 June.

You can download the final programme which features a choice of 16 workshop sessions arranged in parallel sessions together with an opening keynote presentation by Wolfgang Feist, founder of the PassivHaus Institute, now at: www.aecb.net/conference2009.php. The conference sessions are supported by a small exhibition.

Delegates are advised that there is genuine limited availability in terms of delegate numbers and early reservation is advised to avoid disappointment. Ensuite accommodation is available at the conference venue for £46 per night and can be booked via the online registration form.

Enquiries concerning the conference and the exhibition - for which space is still available - should be directed to karen@bluezulumarketing.co.uk

AECB Members' Project Win 'Best Social Or Affordable Housing'

The first scheme of Low Energy "GreenGauge" Affordable Housing by Ipswich based Architects Barefoot & Gilles has won the coveted 'Best Social or Affordable Housing' Award at the 2009 LABC East Anglia Building Excellence Awards. The project beat off five other housing schemes to scoop the award at a black tie dinner in Cambridge on Friday.

The 15 sustainable houses at Lingwood in Norfolk are unique: the first of an ongoing series of GreenGauge projects – real homes designed to beat current energy standards whilst delivering low cost in use to tenants and the operating housing associations. The University of East Anglia is monitoring tenants' energy use and evaluating the success of a range of technologies at Lingwood, including ground source heat pumps, solar collectors and PVs, Sunspaces and Mechanical Ventilation and Heat Recovery.

The scheme at Lingwood is a Constructing Excellence Demonstration Project and in 2008 received an award from CPRE Norfolk for demonstrating that new rural housing can be environmentally friendly. A second scheme of 8 GreenGauge Homes, designed to exceed Code 4 of the Code for Sustainable Homes and developed with the benefit of lessons learned at Lingwood, is now under construction at Horstead.

More information about GreenGauge Homes is available at <http://bit.ly/GreenGauge> and for more on the LABC Awards go to: www.labcawards.org

Ecofont

The prints we make for our 'daily use' not only use paper, but also ink. According to SPRANQ creative communications (Utrecht, The Netherlands) your ink cartridges (or toner) could last longer. SPRANQ has therefore developed a new font: the Ecofont. After Dutch holey cheese, there now is a Dutch font with holes as well.

Appealing ideas are often simple: how much of a letter can be removed while maintaining readability? After extensive testing with all kinds of shapes, the best results were achieved using small circles. After lots of late hours (and coffee) this resulted in a font that uses up to 20% less ink. Free to download, free to use.

Go to www.ecofont.eu/ecofont_en.html for more information.

Investing In A Low Carbon Britain – UK Government Consultation

On 23 April, the Government published Investing in a Low Carbon Britain. This builds on the vision of Britain's Low Carbon Industrial Strategy (published on 6 March) by setting out how the programme of targeted investment announced in the 2009 Budget starts to put our vision into practice. In the Budget we announced we are committing an additional £1.4 billion of targeted support, which together with announcements made since last Autumn, will enable an additional £10.4 billion of low carbon and energy investment over the next three years.

We will be undertaking further work to build on our framework and implement the policies set out while continuing to engage with you, our stakeholders. We will come forward with further detail to develop this approach later in the year.

You can access the document – and input your comments on our vision – at the Government's Low Carbon Industrial Strategy website www.hmg.gov.uk/lowcarbon.

Photo Voltaic Solar Panels Linked To "Powerful" Greenhouse Gas

Nitrogen trifluoride (NF3) is at least four times more prevalent in the atmosphere than scientists previously thought, according to recent research. The compound, which is 17,000 times more effective at warming the atmosphere than an equal mass of CO2, is used in the production of solar panels, flat-screen TVs and computer displays. Researchers from Scripps Institution of Oceanography at the University of California San Diego (UCSD), discovered that the amount of the gas in the atmosphere was about 4,200 metric tons, compared with previous estimates of 1,200 tons. The quantity of gas in the atmosphere is also increasing by 11 per cent per year.

Emissions of NF3 were thought to be so low that the gas was not considered to be a significant contributor to global warming. The compound is not covered by the 1997 Kyoto Protocol. Although the gas survives in the atmosphere about five times longer than CO2, it only contributed about 0.04 per cent of the total global warming effect contributed by human-produced CO2. NF3 is one of several gases used in the production of thin-film photovoltaic cells. It has been used as an alternative to perfluorocarbons which are also significant greenhouse gases as it was believed that not more than two per cent of the NF3 used in industry escaped into the atmosphere.

Asked whether the Scripps research may lead to curbs on how NF3 is used in the solar industry, Andrew Cooper, head of onsite renewables for the Renewable Energy Association, said that all industries produced some greenhouse gases and the onus should be on how the amount of CO2 and other harmful compounds have been reduced by the use of solar energy.

NF3 is also used in the production of flat-screen TVs and computer displays, which some commentators believe is another reason why the information technology industry should also be scrutinised for its contribution to global warming.

For more information go to: <http://e360.yale.edu/content/feature.msp?id=2085>

Source: BusinessGreen

UK Government Announces Water Efficiency Measures For New Homes

UK Housing Minister Iain Wright has tightened up standards for efficient and safe water use in new homes. Under the measures, which come into force this October, newly built homes will have to meet a minimum water efficiency standard of 125 litres per person per day.

The Government has a target of reducing water usage from the current level of 150 litres per person per day to 130 per person per day by 2030. Countries such as the Netherlands, which have pursued water efficiency measures, use an average of around 125 litres per person per day. The amendments to Part G – sanitation, hot water safety and water efficiency – of the Building Regulations also lay out where grey water and harvested rainwater can be used.

The new Building Regulations will also stipulate the fitting of protective measures, such as thermostatic mixing valves, to limit the temperature of the hot water, and extend existing safety measures to all types of hot water system. To allow builders and developers to estimate water usage under the new regulations, the Department of Communities and Local Government is publishing a Water Efficiency Calculator for New Dwellings.

For further information go to www.communities.gov.uk/

Europe Sets 2019 Deadline For Zero-Energy New Buildings

By the start of 2019, all new buildings constructed in Europe will have to be energy efficient and produce as much as energy as they consume from renewable sources. The amendments to the 2002 Energy Performance of Buildings Directive were overwhelmingly backed by the European Parliament in a vote late last week. MEPs are also calling for more investment in energy efficient buildings.

The European Parliament defines zero-energy buildings as those where “as a result of the very high level of energy efficiency of the building, the overall annual primary energy consumption is equal to or less than the energy production from renewable energy sources on site”. This definition of zero-energy buildings – or a similar one – should be agreed and adopted by all Member States, says the directive.

European countries will also be required to draw-up national plans by mid-2011, which set out financial support measures for energy efficiency improvements to buildings such as low-interest loans, rebates on income or property

taxes or assistance from energy suppliers. The European Commission is also being urged to adopt additional measures such as increasing the portion of European Regional Development Fund money available for energy efficiency programmes and establishing an Energy Efficiency Fund financed by the Commission, the European Investment Bank and Member States.

The European Parliament also added its weight to calls for VAT reductions on energy efficiency and renewable energy goods and services. The Federation of Master Builders in the UK has been campaigning for a cut in VAT to 5% to help support low-carbon building and refurbishment work.

For further information go to www.europarl.europa.eu/parliament.do

Wales Leads The Way In Energy Efficiency Building Standards

The Welsh Assembly Government is introducing energy efficiency building standards that will require new homes to reduce carbon emissions by over 30%, according to reports. From September this year, newly constructed homes will have to meet standards equivalent to level three of the Code for Sustainable Homes, while non-domestic buildings will have to reach BREEAM 'very good' standard.

The new regulations will cover insulation, high-efficiency boilers and water efficient taps and toilets, as well as encouraging more use of sustainable materials. The new regulations put Wales ahead of England, which requires that all newly built homes must meet level three of the Code for Sustainable Homes by 2010. Ultimately, the target is for new build homes in England to be zero-carbon by 2016.

For further information: <http://wales.gov.uk/>

Source Building and Design News, 12 May 2009

UK Businesses Urged To Take Advantage Of Energy Efficiency Loan Scheme

The UK Secretary of State for Energy and Climate Change, Ed Miliband, is urging UK businesses to take advantage of £100 million in new funding to help them become more energy efficient. The new funds, which were announced as part of last week's Budget, will be available through the Carbon Trust as interest-free loans. The £100 million injection over the next two years will expand the interest-free loan scheme, which allows companies to receive financial support for energy efficient improvements and new equipment, three-fold.

UK businesses could save up over £2.5 billion a year through energy efficiency measures such as replacing old boilers or installing new lighting, according to the Carbon Trust. The new funds could save businesses an extra £20 million in energy bills. The announcement comes as the Carbon Trust unveils a map of the UK revealing which areas could benefit the most from energy efficiency measures.

Topping the list are Greater London, the South East and the North West, each of which could save more than £270 million a year by undertaking energy efficiency improvements. The figures are based on data from the Building Research Establishment Ltd and Future Energy Solutions, now AEA, estimating potential savings by fuel type. The potential savings were then fed into BERR's region fuel consumption figures.

For further information go to www.carbontrust.co.uk

UK Energy Efficiency Plans Are Underfunded And Under-Prepared, Says Consumer Group

The UK Government's energy efficiency plans to tackle fuel poverty are underfunded, untargeted and under-prepared, says consumer group Consumer Focus. More than 5 million pensioners, families and disabled people across the UK are affected by fuel poverty, according to a report from the consumer group.

The Government has pledged to end fuel poverty by 2016, but Consumer Focus says that an investment of £3 billion a year for the next seven years in energy efficiency measures is needed to meet the target. The Consumer Group believes that the Government's energy efficiency scheme, Carbon Emissions Reduction Target (CERT), is not reaching those most in need. Less than half of CERT funds (40%) are targeted at 'vulnerable' households, it says.

Fuel poor households also tend to be less energy efficient and harder to improve. Almost half of fuel poor households have solid walls, for example, and cannot benefit from cavity wall insulation or other standard heating improvements. Currently, only 1% of insulation measures carried out under CERT have been for solid wall properties. Improvement costs tend to be higher and, although the Warm Front grant has increased, available funds are often insufficient. The Consumer Group, backed by other organisations including Association for the Conservation of Energy, Friends of the Earth and Age Concern, is calling for a new radically improved energy efficiency programme with higher targets.

The campaign wants to see the average energy efficiency rating of fuel poor homes raised from band E-F to C (the current target for new homes) or B. An increased investment programme in energy efficiency would lift 80% of fuel poor homes out of fuel poverty, reducing energy bills by an average of 52%. The add-on benefit would be a 59% cut in carbon emissions.

For further information go to www.consumerfocus.org.uk/

UK Must Pursue Energy Efficiency More Aggressively To Meet Emissions Target

The UK must pursue energy efficiency more aggressively to meet its target of an 80% reduction in CO2 emissions by 2050, according to a new report from the UK Energy Research Centre (UKERC). But the goals are feasible if the

Government pursues tougher energy efficiency measures at the same time as working to decarbonise the country's electricity sector by 2050.

Decarbonising the electricity supply will require a mixture of nuclear, renewables and coal plants fitted with carbon capture and storage technology. New renewable capacity cannot come online quickly enough to meet UK and EU targets, says the report, and will have to go hand in hand with other energy sources. However, aggressively pursuing energy efficiency could dramatically reduce the cost of decarbonising the UK, as well as opening up electricity to be used more in transport and buildings.

The UKERC says it could be possible to halve the energy used in the country's homes through a mixture of energy efficiency improvements and modest lifestyle changes.

For further information: www.ukerc.ac.uk

Source Energy Efficiency News, 12th May 2009

Building Sector Must Do Better On Energy Efficiency

The building sector is not investing enough in energy efficiency to reach emissions reductions targets, according to a scathing report published by World Business Council for Sustainable Development (WBCSD) this week. The report, *Transforming the Market: Energy Efficiency in Buildings*, concludes that "Under current financial and policy conditions, building decision makers will not spend sufficiently on energy efficiency, even on investments that pay off over a project lifetime." Financial timescales are generally too short for owners of both residential and commercial buildings for energy efficiency measures to be attractive.

However, improvements are possible and the report outlines a roadmap of actions that could reduce the energy usage of buildings by 60% by 2050. In some countries such as the US this would require energy consumption to be reduced to 80% 'business as usual' levels. Making changes on the necessary scale will not be driven by the market alone and require the right financial support mechanisms, as well as a step change in behaviour and attitude among building professionals and occupants.

Governments and policymakers also need to take action on codes for and labelling of energy-using products and services, provide incentives for energy efficiency investment and undertake large-scale education initiatives to change behaviour. The report came out of a \$15 million, four-year research project that looked at the energy demand of buildings in the US, EU, Japan, China, India and Brazil. The WBCSD calls for action are underpinned by another report out this week from Pike Research, which says that green renovations could represent a \$400 billion market in coming years.

The Mayor of New York Michael R. Bloomberg is taking steps in the right direction with a new initiative that aims to reduce emissions in the city by around 5%. The six-point plan consists of four pieces of new legislation, including an Energy Code Bill to force building owners to meet energy efficiency standards whenever renovations are undertaken and a Benchmarking Bill to ensure all city buildings carry out annual benchmarking against a baseline level, and two PlaNYC programmes. The other planned legislation would require commercial properties over 50,000 square feet to upgrade lighting systems to more energy efficient ones and conduct an energy audit once a decade. However, landlords would only be required to undertake retrofits that will pay for themselves within five years.

For further information: www.wbcSD.org/plugins/DocSearch/details.asp?type=DocDet&ObjectId=MzQyMDY

Source Building and Design News, 12 May 2009

Green Groups Slam UK Government's Severn Tidal Power Shortlist

Some of the UK's biggest green groups have slammed the Government's shortlist of tidal power projects being proposed for the Severn Estuary in the southwest as "seriously flawed". A report commissioned by environmental groups including the National Trust, RSPB and WWF, and carried out by Atkins, claims the Government is pushing large-scale schemes that will damage local wildlife at the expense of smaller-scale projects.

The Government's favourite scheme, the Cardiff-Weston barrage, which could meet up to 6% of the UK's electricity demand, would also permanently flood protected areas of the Estuary wetland. The coalition of environmental groups criticise the decision to include the larger barrage schemes while ruling out projects based on lagoon technology, which would be potentially much less damaging.

The Department of Energy and Climate Change (DECC) counters that this technology is much further off commercial viability – but one that is nevertheless being supported by £500 million in research funds. However, the coalition maintains that the Government's report has "several serious shortcomings in the power calculations which bias the shortlisting process". They also claim that the Government is using out of date data. The environmental groups are now calling on the Government to scrap its current list and draw up a new one that gives a fair assessment of more innovative projects.

For further information: www.rspb.org.uk/Images/Atkins_review_tcm9-216760.pdf
<http://severtidalpowerconsultation.decc.gov.uk/>

Source Energy Efficiency News, 12th May 2009

Energy Efficiency Is Most Popular Action To Reduce Emissions

Energy efficiency measures are the most popular action among businesses trying to reduce emissions, according to a survey of 300 large and small businesses in the UK. But npower's Business Energy Index (nBEI), an annual report of business opinion on energy use and carbon emissions, also found that more than eight out of ten businesses think the UK Government's target of an 80% reduction in carbon emission by 2050 is unrealistic.

In the current economic climate, 97% of respondents said they were more interested in reducing costs than emissions. But on the upside, this means that 80% of companies say they are likely to increase energy efficiency initiatives in a bid to save on energy costs. The kind of energy saving measures being undertaken varies slightly according to the size of organisation. But what all businesses have in common is making employees aware of the benefits of energy efficiency as a matter of high priority. And key to that message is switching off equipment, lighting and other systems when not in use.

But what businesses do need to take this first step is good advice on which energy efficiency measures to implement to cut costs and carbon emissions. Just over half of respondents (51%) said they did not think that the Government offers useful advice on energy efficiency or carbon reduction.

For further information: www.npower.com/businessenergy

Source Building and Design News, 12 May 2009

Bristol Lido - A Solar Hot Spot

Bristol Lido, the oldest lido in the country, has been transformed into a model of energy efficiency following a two-year restoration. The complex, including a 24-metre open-air swimming pool, now features Thermomax, one of the highest performing solar thermal collectors in the world, which generate up to 70 per cent of the lido's annual hot water needs. They are also responsible for simultaneously reducing energy bills as well as the overall carbon footprint of the establishment.

As part of its commitment to sustainability, Bristol Lido specified 720 Kingspan Solar Thermomax HP200 vacuum tubes, which cover 80 square metres of the south-facing roof. Specifically designed and manufactured to operate in Northern European climates, they use vacuum tube technology to deliver an unrivalled transfer of solar energy into heat. They are up to 30 per cent more effective than traditional flat plate panels and allow energy from the sun to be captured efficiently and effectively. The vacuum inside each tube not only provides perfect insulation, it also suppresses heat loss by protecting the system from outside influences, such as cold, wet and windy weather. The result is optimum performance levels all year round.

As well as refurbishing the swimming pool, the restored Victorian lido now has three brand new features including a restaurant, spa and poolside bar. Its newly installed solar vacuum tube systems were not the only energy efficient addition. The kitchen boasts an Italian wood-fired oven; ambient heat pumps create additional heat by extracting and redistributing warm air from the restaurant, café and kitchen; and wall-to-ceiling glass doors reduce heat loss.

Kingspan Solar, part of Kingspan Renewables Ltd, is unique in its full solar package offerings, which are custom-designed to suit each specific application. Packages include the highest level of customer support from initial advice, through to bespoke design, installation, final commissioning and technical support. The range offers either flat panel options (in-roof or on-roof) or Thermomax vacuum tube collectors, together with all required components for the complete installation.

Members' Services

The Code Consultancy, In-Depth Consultancy On Code For Sustainable Homes

The Code Consultancy gears up with a range of one, two and three-hour briefings designed to cover specific aspects of the Code for Sustainable Homes, for example: Category 4, Surface Water Run-Off

The Code Consultancy, specialising in in-depth consultancy on specific sections of the Code for Sustainable Homes, has introduced a new range of courses to be run in-house or off-site for architects, developers, construction companies, housing associations and others who need to know the latest with regards to the Code for Sustainable Homes. Depending on the length of the session, the Code Consultancy will cover all or some of the following: performance criteria; evidence requirements; case studies; overview of relevant legislation and policy such as PPS 25: Development and Flood Risk and the Interim Code of Practice for SUDS; topical reports which are likely to influence the future development of this category, such as the Pitt Review, and special cases. Practical examples including calculations will be shown, so participants can clearly see how to satisfy the mandatory requirements and gain additional credits.

The following questions need to be asked:

Housing Associations

- Do you have any projects registered or due to be registered with the Code for Sustainable Homes, which had their drainage designs submitted more than a year ago or without reference to the latest Code technical guidance? You may be at risk of not complying or having additional costs levied.
- Are you aware of the likely maintenance requirements and costs for the Surface Water Run-off section of the Code?
- Have you received any tenders which qualify out the specific Surface Water Run-off section?

Contractors

- Are you aware of the potential solutions required to comply with Surface Water Run-off required for small, medium and large urban and rural schemes?
- Are you aware of the current compliance issues with small green field and derelict urban sites?
- If you use external engineers for drainage design and flood risk assessments, are they up to date with the latest Code requirements?

Building Product companies

- Do your brochures and technical information contain all necessary information in relation to the Code for Sustainable Homes?

These are the types of questions that the Code Consultancy will answer in a series of briefings designed to access specific sections of the Code for Sustainable Homes.

For more information, contact: Steven Knight t: 0161 224 0749 m: 07768 814554

Events

Greener Homes & Buildings 2009 – June 6th – 7th

Visit Greener Homes & Buildings 2009 - the biggest consumer event in the UK dedicated towards a greener ethos. The inspirational Greener Homes and Buildings 2009 will provide you with the answers and solutions that that you need for all aspects of your project - whether a new build, extension, renovation or simply a face-lift for your home.

Greener Homes & Buildings 2009 will have only those companies that conform to the Greener Homes & Buildings ethos - products, concepts and services that are geared towards reducing your dependency on expensive fossil fuels, whilst helping to lessen the impact on our environment.

Our impartial advisors will be on hand to offer you free information on the best course of action for you to take with your home and other buildings - whether contemplating a complete build project, extending or renovating, or even giving your home a make-over, we will be able to advise you on how to save energy, save money, and reduce your environmental impact.

Go to www.greenerhomeshow.co.uk for more information.

Hemp Lime Construction – with Professor Tom Woolley – 8th June

Eco Minimalist Houses and Building Using Natural Materials, the Cultivate Centre, Ireland

Hemp lime is a composite construction material that can be used for walls, insulation of roofs and floors and as part of timber-framed buildings. It provides very good thermal and acoustic performance, and offers a genuinely zero-carbon contribution to sustainable construction. Hemp masonry is breathable and is able to absorb and emit moisture, leading to much healthier buildings. This talk explores the current and potential uses of hemp lime in Ireland today.

For more information go to www.cultivate.ie/

Green Vision – 9th June 2009, Rose Bowl, Leeds

Demonstrating Approaches to Sustainability in Construction & Built Environment Tuesday,

A prestigious one day event for those in the Construction and Built Environment sectors, representing a unique opportunity to learn about the drivers, implications and methods for the sustainability agenda. The day will include regional examples demonstrating the benefits for change.

This event will highlight the different approaches to adopting sustainable methods and strategies and will bring together influential experts, professionals, employers and educational organisations.

To find out more contact Claire Walker 0113 812 9106 / c.walker@leedsmet.ac.uk

Energy In Transition – Making A Low Carbon Future A Reality, 15–18 June 2009,

The Energy Institute's forum for the energy leaders of today and tomorrow, Institute of Directors, London

Energy in Transition 2009 will be wholly focused on the issues of implementing long-term change to our existing energy systems to ensure better management of energy demand and use. It will look at the key factors that are driving change including the UK's ambitions for tackling climate change, ensuring efficient use of energy, making supplies more reliable and reducing energy dependency. Delegates will be able to ask key agencies how they are ensuring the action needed in order to move to a low carbon energy system. Speakers and exhibitors will be able to demonstrate how it could be achieved.

For more information go to www.energyinst.org.uk/events/eit.cfm

Cleanpower 2009 At Murray Edwards College, Cambridge Friday 19th June 2009

An exciting industrial and commercial business conference expo at which you'll be invited to contribute to and take away knowledge and contacts on:

For more information go to www.cambridgeinvestmentresearch.com/events/cleanpower/

Wood Fuel Production and Supply – 23rd June, Free Event at Harper Adams University College

Bioenergy West Midlands is focussing on managing small woodlands to create a sustainable source of wood fuel. The event will look at economics of both self-supply and supplying other customers with wood fuel in chip or log form. There will be practical equipment demonstrations.

More information or to register, contact Sonia Large slarge@harper-adams.ac.uk or phone 01952 815 019

Wetland Technology And The Water Framework Directive - Achieving Compliance: Problems And Solutions - 24th June, WWT Slimbridge Wetland Centre

The water environment in Europe is in a state of decline. For many years our rivers, lakes, coasts and wetlands have been used as natural sinks - a repository for sewage, slurry, and industrial effluents – in fact almost anything which was either too difficult or too expensive to get rid of in any other way. Water quality is an issue for even the most progressive countries and how do deal with the polluting effect of growth and economic development is an on going problem.

Reed-beds and constructed wetlands offer new solutions to many water quality issues. They are not simply another alternative to an existing technology. Industrial wastewaters, industrial run-off pollution, SUDs, CSO and EO capacity for WwTWs, domestic and agricultural effluents, amongst others, can all be treated using constructed wetlands.

This Constructed Wetland Association (CWA) seminar aims to bring together consultants, regulators, designers, researchers, installers and conservationists to explore the use and development of constructed wetlands, building on present experience, to meet and resolve current and future regulatory and water quality issues.

There are a range of sponsorship and exhibition opportunities at this event - please contact me for further details.

To register please visit www.aqua-enviro.net/calendar.asp

Biogas for Heat, Power and Transport: Bioenergy SIG – 29th June 2009

Free Seminar at Birmingham City University's Technology, Innovation Centre, Millennium Point, Birmingham.

The theme of the seminar is biogas for power, heat and transport and will focus on the legislative drivers encouraging biogas technology, how biogas is produced, with two case studies of UK Anaerobic Digesters, and also future developments with pyrolysis and gasification.

To register, contact Sonia Large: slarge@harper-adams.ac.uk or phone 01952 815019

Setting The Agenda For A Co-Ordinated Business Driven Approach On Climate Change Adaptation For Critical Civil Infrastructure.

One-Day Conference on 15 July 2009, London, Plus Working Group Sessions on 16 July and Online Collaboration Network

What parts of your infrastructure will be most vulnerable to climate change, and how do you know whether you are under-planning or over-planning for it? How exactly will issues associated with rainfall intensity and extremes in temperature impact on the physical integrity of an asset? How exactly will everyone's actions fit together and be co-ordinated?

The Climate Change Adaptation for Critical Civil Infrastructure Summit taking place on 15-16 July in London brings together key organisations from the nations' critical infrastructure to discuss how to make viable business plans around different climate scenarios and how climate change strategies can be co-ordinated to make not just one area resilient, but the whole framework resilient.

The full programme and how to register are available at www.climate-change-adaptation-network.com/

EcoVillage 2009, 17th – 19th July

On the 17th July 2009, The EcoVillage makes a welcome return to the Kent County Show. At over 5,000sq.m. The EcoVillage is more than twice the size as 2008. In this bigger space we've squeezed more exhibitors, three large marquees, an EcoVillage Picnic Green and the EcoVillage Square. Over the course of the three days of the show The EcoVillage will get in the region of 100,000 visitors.

At The EcoVillage 2009, visitors will discover exhibitors of all shapes and sizes, arranged in village streets such as Energy Avenue, Green Lane and Protect Kent Path. Walk around the EcoVillage Hall and the Market Marquee and relax in the EcoVillage Green Picnic Area.

If you would like to exhibit at the EcoVillage Kent County Show 2009 please contact Amanda Howland on 07739561254

For more information go to <http://79.170.40.231/kentecovillage.co.uk/>

Courses

An Introduction To Strawbale Building One Day Course Run By Amazonails – 7th June

Venue: The Bridge Centre, 361 Priory Road, Hastings, East Sussex. Cost £75/£50. To book a place or for more information contact Carol Biggs on 01424 452526 carol@hastingstrust.co.uk

Renewable Energy Courses In London

1) Energy Management - Tuesday 9 June

Visit www.lsbu.ac.uk/rbdo/external/CEREBCOURSEFLYER9June.pdf for more information and a booking form

2. Combined Heat and Power - Tuesday 23 June

Visit www.lsbu.ac.uk/rbdo/external/CEREBCOURSEFLYER23June.pdf for more information and a booking form

These courses are running as part of a new programme of short courses in conjunction with the Centre for Efficient and Renewable Energy in Buildings (CEREB) at London South Bank University. CEREB is an exciting new venture in partnership with Kingston and City Universities and funded by HEFCE, the LDA and industry partners M&E sustainability. The Centre will provide high quality training, research and education. It will showcase a wide range of different energy efficient solutions and renewable technologies which will all be monitored closely for research purposes.

The Centre will be opening in Spring 2010 so these earlier courses will be held in our Keyworth Centre in SE1 (close to London Bridge and Waterloo stations)

Please see www.lsbu.ac.uk/cereb more information

Publications

Delivering Sustainable Development In The Built Environment

IHS BRE Press, ISBN 978-1-84806-097-5

This Information Paper introduces the structure and process of the sustainable development framework that BRE Global has developed. The framework provides a practical approach to implementing national, regional and local planning policy requirements, and economic, environmental and social sustainability objectives for development projects in the built environment. It will enable developers, planning consultants and local planning authorities to demonstrate and verify the extent to which these requirements and objectives are met within master plans put forward for planning approval.

Email brepress@ihs.com or visit www.brebookshop.com

If you have any news, events or courses you would like to publicise in Network then please email details to network@aecb.net, or post to Chris Lord-Smith, y Graig, Llidiart-y-Waen, Llanidloes, SY18 6JT.