

# Delivering Low Carbon Cities

Fri 23 November 2007 Gallery Suite, NEC, Birmingham

## & Communities



**Chair. Olwen Dutton**, Chief Executive, Regional Partnerships, West Midlands Regional Assembly & WMLGA

### Keynote speakers

**The Rt. Hon. Joan Ruddock MP**, Parliamentary Under Secretary of State for Environment

**Mark Pearce**, Corporate Director of Economic Regeneration, Advantage West Midlands .

**Samantha Baylis**, Head of Sustainable Energy Solutions, E.On UK

**Jayne Lomas**, Head of Millennium Communities and Project Manager, Carbon Challenge, English Partnerships

**Reijo Kemppinen**, Head of the European Commission Representation in the UK

**Sandy Taylor**, Head of Climate Change & Sustainability, Birmingham City Council

**Donna Young**, Head of Climate Change, BT Group plc

**Andy Deacon**, Manager, Climate Change, Energy and Air Quality, Greater London Authority

**Stewart Fergusson**, Managing Director, Orbit Housing Association.

**Gale Scholes**, Carbon Management Consultant, Atkins plc

**Dr Richard Hutchins**, Corporate Director, Economic Development, Advantage West Midlands

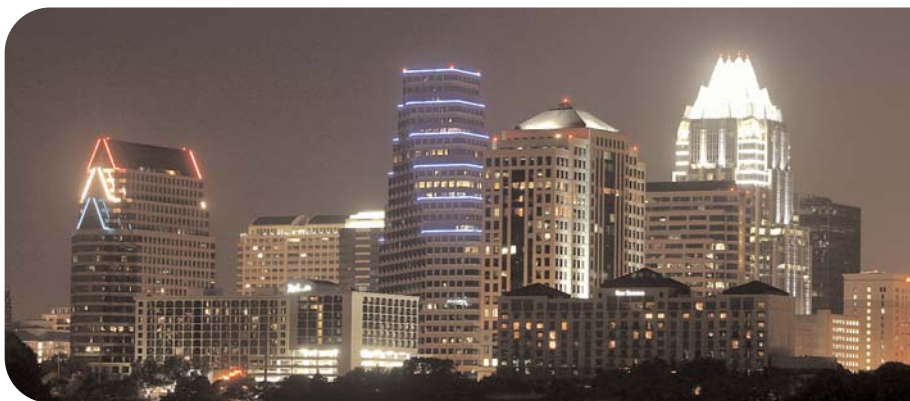
**Chiel Boonstra**, Secretary-General International Solar Cities Initiative

**Dr Uwe Birk**, Senior Consultant at ZENITH GmbH/Project Manager HYTETRA



"..The transition to a low-carbon economy will require the biggest restructuring in how we live and work since the industrial revolution. Government is just part of this modern global economy and cannot achieve this alone."

The Rt. Hon. Joan Ruddock MP, Parliamentary Under Secretary of State for Environment



THE UNIVERSITY OF BIRMINGHAM



West Midlands LGA Local Government Association



Chiel Boonstra, Secretary-General International Solar Cities Initiative



Dr Uwe Birk, Senior Consultant at ZENITH GmbH/Project Manager HYTETRA



Register now, visit: [www.climate-change-solutions.co.uk](http://www.climate-change-solutions.co.uk), or t: 024 76236625

With 50% of green house gases emitted from the urban built environment, this conference focuses on opportunities and benefits for economic, social and environmental solutions.

## Featuring:

**Innovative** opportunities for decentralized energy combined with resource efficiency in the Energy White Paper Meeting the Energy Challenge and related European objectives.

**Funding** and investment requirements and opportunities associated with the implementation of low-carbon cities, towns, homes, schools, hospitals, universities and business centres.

**Bringing** together business professionals, investors and public organisations committed to implementing a commercially viable, environmentally sustainable future.

**Highlighting** the need for leadership to tackle the challenges and opportunities in construction, regeneration, resource efficiency, renewable technologies and decentralised energy.

'... creating energy service companies will require a change of culture as well as incentives. It will require experimentation. That is why, in advance of regulatory changes, I want to model the energy service company model in our major towns and cities. We must begin to apply the energy service model within government, the public sector and business, before extending it to the household sector. The London Climate Change Agency is adapting the ESCo model developed in Woking. Over the next year, I want to work closely with each of the 8 core cities, and the RDAs, to explore the potential to set up ESCos'

**Rt Hon David Miliband MP**  
(former) Secretary of State for the Environment

**08:30 Registration, tea & coffee.**

**09:15 Plenary 1**

**Chair. Olwen Dutton**, Chief Executive, Regional Partnerships, West Midlands Regional Assembly & WMLGA

The Rt. Hon. Joan Ruddock MP, Parliamentary Under Secretary of State for Environment

Reijo Kempainen, Head of the European Commission Representation, UK

Samantha Baylis, Head of Sustainable Energy Solutions, E.ON UK

Mark Pearce, Corporate Director of Economic Regeneration, Advantage West Midlands

Sandy Taylor Head of Climate Change & Sustainability Birmingham City Council

Chiel Boonstra, Secretary-General International Solar Cities Initiative

**10:33- 10:45 Q & A**

**11:00 Coffee/Networking & Exhibition**

**11:30 Workshops (parallel)**

### **Workshop 1: Low to Zero Carbon Housing**

The government intends that all new housing from 2016 be net zero-carbon, part of the Zero Carbon Homes policy. This will require new skills for the inclusion of micro-generation technologies, energy efficiency and low embodied energy materials. These developments will all support what represents a significant reduction in UK carbon emissions, giving a framework to greater economies of scale.

### **Workshop 2: Adaptation to Climate Change**

As climate impacts increase, infrastructure will bear the brunt of many changes including subsidence, reduced structural performance and heat and flood damage.

Understanding levels of adaptation will require a strong lead from government, with local government, industry and commerce implementing adaptation strategies.

### **Workshop 3: Micro-generation**

Micro-generation technologies include heat generation, solar water heating, micro-CHP, biomass stoves and boilers with electricity generation, solar PV, micro-wind and micro-hydro. Their up-take in the domestic and parts of the commercial sectors over the coming years will begin to push the development of a mass market, introducing economies of scale as energy costs increase and fears of fuel security grow. The government has recently produced a micro-generation strategy addressing these issues.

#### Workshop 4: Low Carbon Schools & Universities

The Government aims to rebuild or renew every secondary school in England over a 10-15 year period. As a condition of funding every new building and refurbishment costing more than £500,000 for primary schools and £2 million for secondary schools, must achieve a very good or excellent BREEAM schools standard. A number of UK universities are establishing climate change strategies and installing CHP systems in an effort to reduce their environmental impact and become more energy efficient.

#### Workshop 5: Low Carbon Towns & Cities

Towns and Cities are more aware than ever of their carbon footprint and the impact of their supply chains. DEFRA is consulting on measures to reduce carbon emissions in large non-energy intensive business and public sector organisations. The Carbon Trust Core Cities programme seeks to encourage higher standards of sustainability and climate factored decision making.

#### Workshop 6: Waste to Useable Resource

Finite resources, increasing costs and loss of embodied energy require that we make more innovative and efficient use of waste streams via the waste hierarchy (reduce, re-use and recycle) and energy from waste to achieve increasing carbon reductions.

#### Workshop 7: The Hydrogen Economy

Science City, the Energy Technology Institute and the European Commission in partnership with world leading businesses are promoting multi-million investment in R&D through to the production of Fuel Cell technologies, helping tackle the challenges and take up the opportunities.

#### Workshop 8: Sustainable Procurement

Regional agencies, local authorities and community institutions including schools, hospitals, housing associations and universities have the scope to use their procurement capacity for low carbon, clean technology goods and services. A recent global consortium involving 15 of the world's major cities together with banks and energy companies is pursuing this goal and will benefit with long term economies of scale

#### 13.00 Lunch/Networking & Exhibition

#### 13.40 Plenary 2

Chair Dr Richard Hutchins Corporate Director, Economic Development, Advantage West Midlands

Jayne Lomas, Head of Millennium Communities and Project Manager for the Carbon Challenge within English Partnerships

Donna Young, Head of Climate Change, BT Group plc

Andy Deacon, Manager, Climate Change, Energy and Air Quality, Greater London Authority

Stewart Fergusson, Managing Director, Orbit Housing Association

Gail Scholes, Carbon Management Consultant, Atkins plc

#### 15:10 Coffee/Networking & Exhibition

#### 15:30 Workshops (parallel)

##### Workshop A: Energy Service Companies (ESCs)

Energy service companies finance, design, build and operate energy systems, integrating resource efficiency of energy, water and waste into buildings at negligible or no capital cost to their clients. UK government and energy suppliers are moving towards the provision of energy service frameworks, driven by European Directives on energy efficiency and building performance.

##### Workshop B: Distributed Energy

Distributed Energy Systems generate power, heat and cooling, connected to the low and medium voltage distribution network providing localised energy. They include CHP, micro-generation and wind, solar PV, hydrogen/fuel cells and biomass systems. The Energy White Paper, Meeting the Energy Challenge, supports long-term viability and value of distributed generation with legislation and public sector led implementation programmes to increase levels of market penetration.

#### 17:00 Reception/ Networking

##### Who will be attending?

Local Authorities (Cities, Towns and Municipalities), Property Owners, Developers, Schools, Universities, Housing Associations, Financiers and Investors, House Builders, Land Owners, Academics and Researchers, Engineers, Contractors, Planners, Surveyors, RDA Officers, Environmental Technology Companies

##### Sponsorship & Partnership

Your organisation is cordially invited to support this high profile joint public and private sector initiative. We would welcome an early meeting to discuss sponsorship, branding, speaker and exhibiting opportunities in the form of an agreed packages.

##### Contact:

tony@climate-change-solutions.co.uk or  
t. 024 7623 6623;  
www.climate-changesolutions.co.uk



“I’m optimistic. The important thing is to channel all our energy into a constructive solution. We face a planetary emergency. But it’s crucial to avoid being paralysed by that knowledge and instead feel empowered by it in order to bring about the changes that are imperative now”

Al Gore, former Vice President of the USA

## Registration Form

Keep up to date with developments, visit our website [www.climate-change-solutions.co.uk](http://www.climate-change-solutions.co.uk). To register complete the form and post or fax back with payment. Payment can be made via cheque, BACS and invoice.

**Enquiries:** **Post:** Tony McNally, Managing Director, Climate Change Solutions Ltd, The TechnoCentre, Puma Way, Coventry, CV1 2TT, **Fax:** ++ 44 (0)24 7623 6624, **Tel:** ++ 44 (0)24 7623 6623/5  
**Email:** [info@climate-change-solutions.co.uk](mailto:info@climate-change-solutions.co.uk), **Web:** [www.climate-change-solutions.co.uk](http://www.climate-change-solutions.co.uk)

**Delegate fees:** £135 + VAT (£158.63), 10% discount for 2 or more bookings

**Price includes:** Light refreshments, lunch and and full report with all presentations

### Registration Information (PLEASE COMPLETE IN FULL USING BLOCK CAPITALS)

**Name** (Mr/Mrs/Miss/Ms/Dr): .....

**Position:** .....

**Company/Organisation:** .....

**Address:** .....

**Telephone:** ..... **Email:** .....

**Workshops** (11.30-13.00) Please give first choice  second choice   
(15.30 - 17.00) : A  B

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