

**Transforming London into a world-class city  
for sustainable energy**

**London Energy Forum update**

July 2008

*Dear Forum member,*

Since May 2nd, London has a new Mayor and administration. Boris Johnson has confirmed his commitment to London's 60% carbon reduction target for 2025 and his election manifesto set out additional climate change and energy commitments. The LEP is looking forward to working with the new administration to help realise these commitments.

Meanwhile, with news about possible further fuel price rises of up to 40% this year, fuel poverty has become one of the LEP's priority areas. The LEP Fuel Poverty Group is working to implement an action plan to contribute to the alleviation of this urgent problem. Forum member will be able to provide their input at this year's Forum event on July 3<sup>rd</sup>.

Many of you will be reading this newsletter at the Forum event in City Hall. We are delighted to have you here with us. On behalf of the LEP, I would like to extend a special welcome to our keynote speaker, Lord Adair Turner, Chair of the new statutory Climate Change Committee. We would like to thank British Gas for sponsoring the event.

I hope you find this newsletter informative – please email me if you have any comments or suggestions.

Best regards

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**For more info on the LEP please visit our website:**  
[www.lep.org.uk](http://www.lep.org.uk)

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**Project updates**

Community heating networks project – London South Bank University and SEA Renue are close to completing work for the Partnership to build a database of London's community heating networks. A first version of the database will be ready in July. Details will be disseminated to the Forum.

The Finance Task Group is continuing to develop the work streams that have come out of the previous research on financing London's low carbon future. Consultants ESD have been developing the 'low carbon leasing vehicle,' looking at different models of financing the roll out of low carbon technologies such as micro-generation in London. The project report was finished mid-June and the task group is now looking at ways to take the work forward, including discussions with potential stakeholders.

Energy Action Areas - The LEP secretariat carried out a review of the pilot phase Energy Action Areas programme. The findings of our review are available on [www.lep.org](http://www.lep.org). We are currently developing ideas for a new phase of an area based low carbon initiative and will be asking Forum members for their input at our July event.

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**Partner News**

*London South Bank University*, in partnership with City and Kingston Universities, has announced that it is establishing a Centre for Efficient and Renewable Energy in Buildings. Funded by the London Development Agency and the Higher Education Funding Council for England, the Centre will provide a unique teaching, research and demonstration resource for the capital. It is due to open in 2009.

*A new project* to help the South Bank reduce its carbon footprint has been unveiled by the London Development Agency, the South Bank Employers' Group (SBEG) and London South Bank University. The project will study the possible energy supply options for the South Bank area and hopefully take this forward to

implementing a network of heating, cooling and electricity supplied by CHP.

*A new partnership* between local authorities, the London Development Agency, Barking Power, London Thames Gateway Development Corporation and the Department of Communities and Local Government will develop a scheme to use the 400MW of heat currently wasted in the production of electricity from Barking power station. The project - the first of its kind in the UK - will mirror similar district heating schemes already successfully in operation on the continent.

On completion of current proposals to expand Barking Power Station, the station could provide enough excess heat to supply 150,000 homes saving 120,000 tonnes of CO<sub>2</sub>. It is expected that the scheme will be operational by 2011.

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## London Energy News

### *New planning rules for London*

The revised London Plan was published in February 2008. Through it, the Mayor aims to strongly influence the way in which new development responds to the need for climate change mitigation and adaptation. The following hierarchy will be used to assess applications:

- using less energy, in particular by adopting sustainable design and construction measures
- supplying energy efficiently, in particular by prioritising decentralised energy generation, and
- using renewable energy.

New developments are required to provide 20% of energy requirements from renewable sources unless it can be demonstrated that such provision is not feasible. Residential applications of 150 or more units are now referred to the Mayor (previously 500).

[http://www.london.gov.uk/thelondonplan/docs/londonplan08\\_ch4.rtf](http://www.london.gov.uk/thelondonplan/docs/londonplan08_ch4.rtf)

*City Hall* now has a unique photovoltaic system designed to complement the rounded shape of one of London's most iconic buildings. The

photovoltaic panels have a peak capacity of 67kW and are expected to generate about 50,000kWh of renewable electricity, saving up to 33 tonnes of CO<sub>2</sub> each year.



City Hall's new solar roof Credit: GLA

### *New CHP developments*

The latest designs for the Olympic Park Energy Centre have been unveiled by the Olympic Delivery Authority (ODA). The Energy Centre will use innovative technologies to support the ODA's commitment to utilising renewable energy technology and providing efficient energy systems in the Olympic Park. It will include biomass boilers using sustainable biomass fuels (woodchip) and gas to generate heat, and a Combined Cooling Heat and Power (CCHP) plant to capture the heat generated by electricity production. The site-wide heat network will be used to generate domestic hot water and to heat the Aquatics Centre swimming pools and other venues and buildings. Elyo, the preferred bidder for the Centre, is giving a presentation at the London Energy Forum event on July 3.

A pair of luxury apartment blocks next to London's Canary Wharf are set to use a state-of-the-art heating scheme to reduce the building's carbon footprint. The £27m Pan Peninsular development, which will be the UK's tallest residential building, will use a combined heat and power (CHP) system to generate its own heat and electricity on site. The development will house 762 luxury apartments. The taller of the two towers has 50 floors and reaches 149m - making it Britain's 12th tallest building.

### *New report – Agenda for Climate Change London*

This report was published by the Institution of Civil Engineers (ICE) and the Institution of Mechanical Engineers (IMechE) which represent over 150,000 professional engineers, with some 12,000 in London. In terms of energy, the reports calls for:

- Increased emphasis on the security of future supply
- Up-scaling of renewable and low carbon energy generation – in particular building of combined heat and power plants to serve local communities
- A target of zero carbon for all new developments together with greater incentive for existing buildings to improve their management.

<http://nearyou.imeche.org.uk/NR/rdonlyres/E61B076B-2194-4850-A8F2-F60C14FF79D4/3550/AgendaforClimateChange.pdf>

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### **New funding sources for sustainable energy projects**

A new National Lottery backed £9 million grant scheme aimed at helping schools, village halls and community organisations install micro-generation and energy saving technologies has been launched. The Community Sustainable Energy Programme (CSEP) is being funded by the Big Lottery Fund's Changing Spaces Programme.

There are 11 funding rounds until 2010, with the applications for the second round of closing on August 15.

<http://www.communitysustainable.org.uk/>

A £4 million fund to support the installation of biomass-fuelled heating and combined heat & power projects, including anaerobic digesters, was opened to applications on April 9 by Climate Change Minister, Phil Woolas.

Applications are welcome from industrial, commercial and community sectors. Full details are available at:

<http://www.bioenergycapitalgrants.org.uk/>.

Additionally, DEFRA is offering grants of up to 200,000 to biomass producers and producer

groups through the Bio-energy Infrastructure Scheme ([help@beis.org.uk](mailto:help@beis.org.uk))

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### **And finally...**

When he is not helping to craft a sustainable energy future for London, LEP Project Manager Simon Evans is busy training for the UK Ironman triathlon in September. The race is 3.8km swim, followed by a 180km bike ride and then a marathon - in one go. It is all to raise money for St Peter's Hospice in Bristol who provide palliative care for terminally ill patients. For more details, including how to sponsor Simon go to

[www.justgiving.com/ironmansimon](http://www.justgiving.com/ironmansimon)



Just a 'little' practice run - Simon doing the Marazion half ironman (1.9km sea swim - 86km hilly bike - 20km run)