

## **The Centre for Efficient and Renewable Energy in Buildings (CEREB)**

CEREB is an exciting new facility at London South Bank University. It has been created in partnership with City and Kingston Universities and will be a unique resource for the teaching, research and demonstration of low carbon energy technologies in the built environment.

Situated at the top of LSBU's new Keyworth II building (as shown), this new Centre will be at the forefront of low carbon building design. It will feature ground source heat pumps for heating and cooling and intelligent building design such as solar shading and thermal massing to reduce demand on the heating and cooling systems.

CEREB will have a range of technologies including:

- ground source heat pump
- a variety of photovoltaic installations
- solar thermal heating
- wind turbines

The Centre will also provide a web portal offering access to data from all of these technologies drawn from the extensive building management system. This will be a unique teaching and research tool and will be available to partners and other users. The web portal will ensure that the Centre reaches a wide audience and that regular dialogue can take place with designers, developers and planners about the effectiveness and efficiency of these technologies in an urban environment. By providing access to these facilities, the partners aim to promote the uptake of new, sustainable technologies in industry and the sector as a whole.

There will be teaching space for around 50 people which will be available to students, researchers, academics, the construction industry and others. The Centre is likely to be of interest to those involved in energy, property and building design, construction, and management. Activities could include training, demonstration, research, testing, analysis, monitoring and corporate events.

The Centre is the result of a partnership between LSBU, City and Kingston Universities, each of which is a leader in training and researching in the built environment. Substantial funding has been received from the Higher Education Funding Council for England (HEFCE) and the London Development Agency (LDA) as part of its remit to accelerate the development of low carbon energy technologies in London.

London South Bank University has long been at the Centre of building services engineering and of the efficient use of energy and of renewables in the built environment. For decades its applied research has been fed back into the teaching curriculum and LSBU now produces around half of the UK's building services graduates. LSBU will be offering a wide ranging series of professional courses for related industries including sustainability, renewables, and low carbon building.

The new Centre is just 15 minutes walk from the City and West End of London. It sits within the £1.5 billion Elephant and Castle regeneration zone and forms part of a London Energy Action Zone.

London Mayor Boris Johnson spoke enthusiastically of the project in a press release earlier in 2008.

"If we are to reduce carbon emissions in London and tackle climate change, it is vital that we help the construction and design industries to incorporate energy efficient technologies into their buildings. This exciting new technology Centre, part funded by the London Development Agency, is unique in that it provides both research and teaching facilities but also enables people to see, hands on, how technologies can be used."



**London South Bank University's new Keyworth II building.**

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