



### New low carbon technology centre of excellence for London: Case Study

**Client:** London South Bank University

**Location:** Southwark Campus

**Programme:** Site works January 2010 with practical completion awarded June 2010

TGA are pleased to announce that they have been commissioned as lead M&E designers for this showcase project.

CEREB will be at the forefront of low carbon building design and will be able to provide high quality teaching resources in sustainable energy technology, building design, construction and management.

To ensure that the centre reaches a wider audience, output data from the technologies will also be available through web-based virtual learning environments through a CEREB web portal. Keyworth II is set to become the heart of the LSBU Southwark campus. The state of the art building energy management system will enable students and researchers to study the building and its energy use. Its design includes features to reduce carbon emissions including thermal massing, solar shading, ground source heating and

cooling and solar thermal. It will also play host to teaching facilities for the Faculty of Health and Social Care and departments of Education, Sports and Exercise Science.

Building engineering services are prominently and proudly displayed using innovative visual ideas, intended to interest and inspire the Centre's visitors. This was a key part of the Client's brief to the design team and one of the reasons why TGA were appointed as Lead Designers.

The brief challenged the design team to deliver a facility with unique engineering systems that would be researched and developed to lead the way in renewable technology. Working closely with Professor Tony Day, Centre Principal, TGA found ways of integrating emerging technologies into the design of the centre's own engineering services.