

**LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE**  
**SUSTAINABILITY GROUP**  
**ENERGY AND WATER POLICY**

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**A. OBJECTIVE**

The School is committed to reducing the emissions of carbon dioxide (CO<sub>2</sub>) relating to School activities including staff and student travel in pursuing its objective to minimize environmental impacts and energy consumption

**B. TARGET**

*The School's ultimate target is to reduce the emissions of carbon dioxide relating to its activities by 50% by 2020 and by 90% by 2050 compared with 2006.<sup>1</sup>*

This is in line with the rate of reduction required in high income countries under the principles of 'contraction and convergence' to limit climate change to a tolerable level.<sup>2</sup> It is equivalent to an annual 4.8% reduction in the School's CO<sub>2</sub> emissions every year to 2050. The School's achieved reductions will vary from year to year, but they need to keep pace with this average rate of reduction over the medium term.

The Sustainability Group will develop an action plan setting out the measures that the School will take to reduce emissions during the first three years of this period, and will review progress and develop revised plans on an annual basis. The action plan will be co-ordinated with the Estates Strategy, and planned investment in the School's infrastructure.

**C. RESPONSIBILITY & STRUCTURE**

The efficient use of energy is the responsibility of every member of staff and every student.

The School's performance in energy management will be kept under review by the Sustainability Group, which will regularly report to the Senior Management Team. This Group will be advised by the Estates Manager, who has overall responsibility for energy performance (reporting to the Secretary and Registrar), and by an Energy Consultant.

A group of trained volunteer Unit and Departmental representatives ('energy champions') will assist with local initiatives.

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<sup>1</sup> This target will be kept under review in the light of advice from HEFCE and Universities UK.

<sup>2</sup> The LSHTM target is marginally more ambitious than the proposed revised target of 80% reduction by 2050 (against a 1990 baseline) included in the UK's Climate Change Bill. The UK's estimated emissions of carbon dioxide excluding 'Land Use, Land-Use Change and Forestry' fell by 5.6% between 1990 and 2006 (Source: DEFRA. <http://www.defra.gov.uk/environment/statistics/globalatmos/alltables.htm>). Data are not available to calculate overall carbon emissions for LSHTM in 1990, hence the 2006 baseline.

## **D. METHODS TO ACHIEVE TARGET**

### **Efficiency in the use of energy and water**

Priority for energy saving investments will be measures that are cost saving or cost neutral over the medium term (5 years).

For projects requiring capital expenditure in excess of £50,000, a business case will be developed with appropriate discounting and option appraisal methods

When procuring equipment, reference to the EU energy rating system will be made to ensure that energy and water use is minimized.

### **Efficiency by Design**

Proposed designs for new buildings or major refurbishments will be assessed using the Higher Education BREEAM Environmental Assessment method. Only proposed designs rated as 'very good', 'excellent', or 'outstanding' will normally be accepted.

Although the School is not eligible for assistance under the Enhanced Capital Allowance scheme, whenever possible School staff and external consultants must use the ECA approved Energy Technology Product List to identify low-energy plant and equipment.

Life cycle costing including use of system, environmental and other benefits will be systematically reviewed for energy efficiency at the design stage of all new projects.

### **Maintenance and Plant Control**

Energy conversion plant, (boilers, chillers, compressors) distribution systems, energy-using equipment and water systems will be correctly and regularly maintained to achieve maximum efficiency, as part of the School's long-term Maintenance Plan.

Plant and equipment will have appropriate controls to minimize energy and water use and be linked, wherever possible and appropriate, to the School's Building Energy Management System.

### **Awareness Training**

Regular awareness raising and motivation campaigns for staff and students will be held to promote the saving of energy and avoidance of waste. Energy awareness training will be provided for new staff during induction.

Training will be provided for key staff with a significant influence on controlling energy consumption. (e.g. laboratory managers, catering, security).

### **Transport**

The School aims to reduce energy use relating to School staff and student travel, consistent with its operational goals. The relevant policy details are described in the *Travel Policy*, which covers business travel and commuting to and from work.

### **Energy supplies**

The Estates Office will purchase energy centrally at the most competitive rates consistent with the School's targets for carbon dioxide (CO<sub>2</sub>) reduction and within resource constraints.

To help achieve those CO2 reduction targets, the School will, when possible, purchase part or all of its electricity from zero or low carbon-emitting suppliers.

### **Monitoring and Targeting**

A system of monitoring of energy use and carbon dioxide emissions relevant to the School's sustainability objectives will be developed and the results regularly published in *Data Monitoring Reports*.

### **Reporting and action plans**

Reports of progress towards the energy and CO<sub>2</sub> emissions objectives, prepared by the Energy Consultant and Estates Manager, will be reviewed on at least an annual basis by the Sustainability Group, reported to SMT, and made publicly available.

These reports, together with reviews of possible energy efficiency initiatives, will be used by the Sustainability Group to make recommendations to the Senior Management Team and the Planning and Finance Committee about specific measures to achieve energy/sustainability targets through the annual funding cycle.

Last up-dated: 2 March 2009