

## Case studies: How ICT is helping to deliver the low carbon economy

**Title: LED Lighting Solutions for the National Theatre**



**Company: Philips**

**Summary of what has been achieved**

An enhanced lighting solution for the National Theatre with a reduction in energy costs of £100,000 a year.

**Parties involved:**

Philips, The National Theatre (London)

**Sector/s:**

Entertainment

**Approx scale:**

**Outcome:**

Dramatic savings in energy costs whilst improving the aesthetic appeal of the building, both inside and out.

### Key Objectives

Architectural sensitivity and audience enhancement coupled with energy efficiency is the overall aim of the programme.

### Description

Royal Philips Electronics is working in partnership with the National Theatre on a five year "Simplicity" lighting scheme to replace the landmark London venue's existing lighting system. This will replace and enhance the National Theatre's familiar external and internal lighting scheme with a state of the art, dynamic energy efficient design.

The first stage is a dramatic enhancement of the exterior of the iconic Thames-side building. The LED lighting solution provided by Philips will give the National Theatre an endless colour palette with which to paint the building, illuminating new areas and creating a spectacular and welcoming aura. New, smaller light fittings will help retain the architectural integrity of the Grade 2\* listed building.



In addition to the immediate visual enhancements, on completion of the project Philips lighting technology will deliver a 70% reduction in the energy needed to illuminate the building's iconic 'flytowers'; the partnership will also deliver an estimated £100,000 per annum saving for the National Theatre. Londoners will also experience a new 'video wall' installation on the roof of the building in Spring 2008, replacing the old dot 'Seefact' bulb system with a full colour LED panel which will display crystal clear messages.

After this initial phase concentrating on the exterior lighting of the building, the focus will switch to the interior and backstage areas of the theatre. The public areas of the interior will be fitted with lower energy, higher efficiency fittings as will the vast corridors, workshops and rehearsal rooms.

Philips is delivering a simple solution to a complex challenge. The versatility of the state of the art system we have designed for this iconic London landmark will enable the National Theatre to deliver an energizing, exciting, fun experience to Londoners and visitors to the capital for years to come.

### Environmental Benefits

The partnership will deliver a 70% reduction in the energy required for lighting and a around £100,000 a year savings on energy costs, which can now be spent on performances. This project demonstrates that tackling

## **Philips LED Lighting Case Study...continued**

climate change makes good business sense, cutting costs as well as emissions.

### **Scope for further work**

The partnership between Philips and the National Theatre is not a 'fit and forget' operation. As Philips introduces new lighting technology, improvements will be installed to deliver ever greater energy savings and further enhancing the environment for everyone coming into contact with one of London's most recognizable buildings.

### **Further information**

Philips is also implementing pioneering lighting solutions at other venues, such as the O2 Arena in London, the Acropolis in Athens and the Eiffel Tower.