

RGF4 TV Studio LED Lighting Project - University of Lincoln

Project Overview

The University of Lincoln used two tranches of money from the Salix Finance fund to install state-of-the-art LED lighting in its TV studio suite. The total Salix loan amounts to £234,038.

The Business Case

The initial project (2011), saw the lighting load drop from 65kW to 8.36 kW, by replacing around half the tungsten lights to LED in the TV studio. Unfortunately the technology wasn't available at that time to replace all the lights. So when the RGF4 round of funding was released the University was keen to secure a grant to upgrade all Fresnel and working lighting to LEDs in the small and large TV studios and adjacent communal areas within the Media, Humanities and Technology building.

This project will deliver substantial energy savings, reducing associated costs and carbon emissions, thereby contributing to the ongoing affordability of the estate and towards meeting our institutional carbon reduction targets. It will also further enhance the student experience by providing additional functionality and ease of use of lighting, giving students the opportunity to work with the latest technology. Added to this the project will also help to reduce health and safety hazards (with the previous lighting arrangement students had to climb up ladders to change the colour gels).

Installation was carried out over the summer of 2015, and was ready for the start of the 2015/16 academic year.

Energy Savings:

The latest part of the project is expected to reduce electricity consumption by over 56,000 kWh/year, reducing utility bills by over £7K and carbon emissions by 30 tCO₂e annually. This contributes to improving the affordability of the estate and to the University's carbon reduction targets.

Other benefits:

LED lamps have a much longer life expectancy than the previous fittings, reducing future maintenance requirements. Also the cooling load on the chiller will be reduced due to substantially lower heat output from the lamps. This should help extend the life of existing HVAC equipment servicing the space.



