

Brixham College

case study



LED lighting, reducing our CO₂, maintenance, running costs and improving light levels.....

Challenge

In 2009 Brixham College, with support from Torbay Council, reviewed their options on upgrading the lighting in their sports hall which had 8ft twin fittings with fluorescent tubes which were no longer available, this was also applied in the schools main dining hall which was poorly lit and in need of an upgrade.

Action

Vision Hampshire worked very closely with Fran Bullock (Torbay Energy Team) and Frank Armstrong (College Site manager) with our ideas regarding the lighting of the site. After completing a site survey and various discussions with the above we put forward a proposal to light the two areas with a new range of energy efficient LED lights. We proposed replacement LED tubes in the dining hall and High Bay LED lights in the sports hall.

In the dining hall the new LED tubes proposed were rated at 36 watts (8ft) and 26watts (6ft) but would give improved lighting levels compared to the older fluorescent tubes.

In the sports hall Vision Hampshire recommended that LED 100watt High Bays could replace banks of four Twin 8ft twin fluorescent switch start fittings and provide improved lighting to the hall.

The next stage was to prove our assumptions and therefore Vision Hampshire installed sample lighting in both areas over a trial period of two months. The trial proved that the lighting could be improved by using the LED lights proposed and the college governors and the Principal approved the investment and the lights were fully installed over the Easter break in 2010.

Result

The overall energy savings that will be achieved by implementing the Vision Hampshire solution in the dining hall will be 7,015 kWh per annum together with a reduction in CO2 emissions of 3,820 kg per annum.

The overall energy savings that will be achieved by implementing the Vision Hampshire solution in the sports hall will be 13,680 kWh per annum together with a reduction in CO2 emissions of 7,440 kg per annum.

In both cases the investment will pay for itself in under five years and lighting levels have been improved.



Quotes

Mark Bigwood Marketing Director, Vision Hampshire

“I am really pleased that we were able to propose a solution to Brixham College and Torbay that resulted in significant cost savings and CO2 emissions with such a short pay back, especially when finances are so constrained in to-day’s difficult economic climate.”

Fran Bullock – Torbay Council, Carbon Reduction Officer

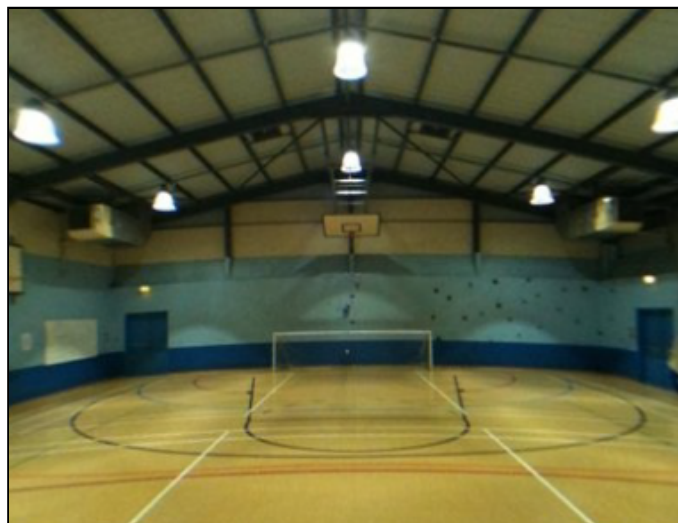
“We are exceptionally pleased with the outcome, as using LED’s in this type of environment is a new concept for us. We used Salix funding to finance the project, as the payback came in under the 5 year maximum, and the predicted savings are really impressive, we are looking at an average saving of 75% on electricity and carbon emissions.”

Hopefully this project will encourage other LED lighting projects, as we can confidently say it has been a success.”

Mark J Eager - Principle Brixham College

The increasing pressure on school budgets and the need to be environmentally conscientious means that it is important decision makers in schools look at new and innovative ways to solve ‘real’ problems. By working closely with Vision Hampshire and Torbay Council I believe Brixham College has done just that. I have been delighted with the lighting solution provided by Vision Hampshire and in the professional manner the project was delivered. The College felt fully involved at every stage and I would encourage other schools to consider energy efficient LED lighting as an alternative to other traditional lighting solutions.

360° Panorama



Brixham College case study



Vision Hampshire Ltd

Basepoint Unit 62 Andersons Road Southampton SO14 5FE

T: 02380 682437 info@visionhampshire.com www.visionhampshire.com

VISION  N
H A M P S H I R E