

Case Study 4 NDEE College Project

Introduction

Working with the Scottish Funding Council (SFC), the college, alongside three others, were successful in attaining Scottish Government 2017 Capital Stimulus Programme funding to support a large-scale **Colleges Energy Efficiency Pathfinder (CEEP)** project.

What was the challenge to be addressed?

The aim of the project was to provide significant energy and carbon emissions savings across the suite of Colleges and their campuses, with the challenge of a relatively short project programme of 11 months following Business Case approval, at a £350k capital cost.

What were the key drivers?

To achieve carbon reduction targets across the campuses.

What was achieved?

Taking a 'whole building approach' to energy efficiency, ECMs included high efficiency lighting upgrades, variable speed drive installations, controls optimisation and transformer 'tap down'. **Annual energy cost savings of ~£30,000** were guaranteed under the contract with anticipated **annual carbon savings of ~176 tCO_{2e}**.

Key lessons learned for sharing?

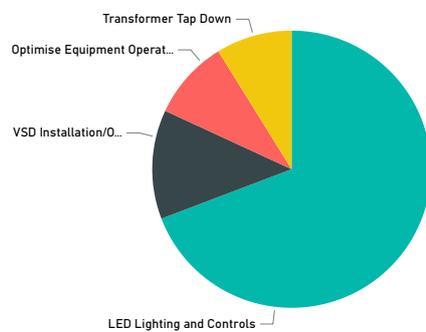
Wider project benefits have also been realised including significantly improved teaching and working environments, as well as learning opportunities for students around energy efficiency technologies and general construction related activities.

351K
Cost exc. VAT

30K
Predicted Energy Savings

11.68
Average of Simple Payback
(Years)

Predicted Energy Savings by Energy Conservation Measure



Simple Payback (Years) by Energy Conservation Measure

