

# Case Study 11

## 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.

### What were the key drivers?

To make energy, cost and carbon emissions savings.

### What was achieved?

Taking a 'whole building approach' to energy efficiency, ECMs included high efficiency lighting upgrades, secondary glazing, controls optimisation and transformer 'tap down'. **Annual energy cost savings of ~£36,000** were guaranteed under the contract with anticipated **annual carbon savings of ~177 tCO<sub>2</sub>e**.

Measurement and Verification activities undertaken in late 2018 validated ECM performance, with annual savings calculated at ~£38,500, a **7% improvement over the guaranteed savings level**.

### 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.

