

# Case Study 7

## 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 £2M capital cost.

### 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 combined heat and power (CHP) plant, boiler upgrades, high efficiency lighting upgrades, variable speed drive installations and controls optimisation across three campuses. **Annual energy cost savings of ~£200,000** were guaranteed under the contract with anticipated **annual carbon savings of ~873 tCO<sub>2e</sub>**.

### 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.

