

# Case Study 12

## NDEE Local Authority Project

### Introduction

The council made the decision to invest in energy efficiency measures across their estate in a project worth £1.4 million.

### What was the challenge to be addressed?

As well as implementing energy efficiency measures and realising energy savings, the project was also used to tie in energy saving opportunities that would address backlog maintenance issues, such as mothballed Combined Heat & Power (CHP) Plant.

### What were the key drivers?

To make energy, cost and carbon emissions savings

### What was achieved?

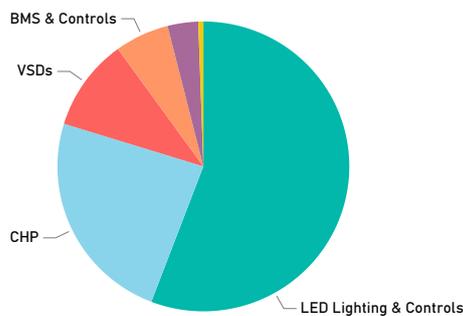
Taking a 'whole building approach' to energy efficiency, ECMs included combined heat and power (CHP) plant, high efficiency lighting upgrades, variable speed drive installations and controls optimisation across its estate. **Annual energy cost savings of ~£150,000** were guaranteed under the contract with anticipated **annual carbon savings of ~414 tCO<sub>2</sub>e**.

### Key lessons learned for sharing?

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

**415** Estimated Carbon Savings (t.CO<sub>2</sub>)      **152.24K** Energy Savings (£)      **9.27** Average of Simple Payback (years)

Energy Savings (£) by ECM Category



Average of Simple Payback (years) by ECM Category

