



# Cambridge Assessment Centre

## Energy Interventions - BMS Optimisation

**Equans provides Hard FM services to Cambridge University Press & Assessment Centre.**

**We deliver planned preventative maintenance for all assets across their 50,000m<sup>2</sup> estate, comprising five main buildings with eight additional domestic properties around central Cambridge.**

**Working collaboratively with the client, we are committed to helping them meet their Carbon Net Neutral target by 2030 in line with Cambridge University.**

### The Challenge

To measure the impact of simple interventions to the BMS against the client's carbon reduction goals, as part of our Energy Focused FM delivery.

### Our Solution

As part of our Energy Focused FM delivery, the team reviewed with the Client the current BMS settings compared with the actual use.

Through targeted interventions on the BMS, we adjusted the temperature set points and the operating hours.

### Project Overview

The team's initial focus was to understand the building's use trends and its operating hours, which have shortened since the start of the contract.

Based on these findings, we were able to reprogram the BMS so the plant functioned more efficiently in operating hours, temperature set-points and quantity of Hot Water needed at any one time.

### Client Benefits

This initiative helped the client reduce their Scope 1 and 2 carbon emissions by just under 5% with an overall reduction in gas consumption of 28% and electricity consumption by 9%.

As part of our ongoing carbon reduction support, we have carried out feasibility studies to degasify the main buildings in addition to smaller works to remove hot water boilers from various sites, most notably replacing LPG bottles for an Air Sourced Heat Pump system at the Cass Centre.

"It was a great experience being able to help the client work towards their carbon reduction goals, especially when we can exceed what they were hoping for.

This is a great example of how we can utilise building technology to provide our clients with realistic and tangible benefits by taking a holistic view of their energy systems, resulting in both commercial and environmental benefits."

### - Equans

- ▶ Up to **5%** reduction in Scope 1 & 2 CO<sub>2</sub> emissions
- ▶ Nearly **60 tonnes** of CO<sub>2</sub> emissions avoided
- ▶ Up to **£64k/year** savings in energy costs