

Orange Business Services Building Energy Management System optimization

Client's objectives

The existing Building Energy Management System (BEMS) was a mixture of old, obsolete and non-functioning equipment. Due to a lack of confidence in the system, heating and ventilation was being manually controlled.

Orange Business Services (OBS) wanted to improve the BEMS to reduce energy consumption, improve occupant comfort and restore automated control to save staff time and responsibility.

The project

Anthesis was commissioned by OBS to optimize and automate the BEMS at their UK headquarters.

Key services delivered

Anthesis conducted a detailed review of the existing energy data, control strategy, set points and plant.

Consumption patterns were investigated, energy wastage identified and issues with the operation of the systems diagnosed.

Carrob Controls reviewed three remedial options: complete replacement, repair or partial upgrade. The recommended solution was a partial upgrade of the controllers and the headend software

Project impacts

- As a result of the upgrade, electricity consumption was reduced by 15% and gas consumption by 35%
- Staff understanding and confidence in the systems was improved, enabling them to achieve the best results
- OBS were so pleased with the results that they engaged Anthesis to provide further support in improving the building cooling systems
- Anthesis conducted a review of the system controls and strategy. We recommended works to improve control of the cooling plant, optimizer strategy and time schedules, as well as adding compensation on the fan coil units

For further information

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