CHELTENHAM COLLEGE

CASE STUDY

The installation of SmarterDM's energy demand management solution at Cheltenham College has resulted in more than £60,000 worth of energy savings per year.

In November 2013, we installed a wide range of our low-cost wireless hardware to gather meaningful data to map the energy DNA of the client estate.

This data now feeds into a bespoke online portal which we have developed to give sophisticated monitoring and control capabilities across the college's 23 buildings zones.

Within the first three years of the project, energy consumption has been reduced by 5.2GWh to achieve savings of more than £191,000.

A variety of commercial models have been used to support deployment of the system in order to minimise Cheltenham College's requirement for capital expenditure.

ACCREDITATION

SmarterDM's project has helped Cheltenham College to become the first UK college to achieve ISO 50001 accreditation.

Deciding to implement our industry-leading energy management platform was a strategic longer-term route to reaching the college's sustainability goals.

SAVING £60,000 PER YEAR

KEY FUNCTIONALITY:

· **The deployment of remote, automated scheduling means energy wastage is eradicated through the night, over the weekend and during the holiday seasons**

· **Our environmental sensors identify when buildings exceed certain temperature thresholds – triggering automated changes to heating and cooling regimes**

· **Closer control of the boiler dry-cycling process has reduced heating and hot water gas consumption**

· **AMR (Automated Meter Reading) on 69 electricity and gas billing meters has given the college a greater level of energy consumption profiling**

" The installation has helped the college moderate its energy consumption through the provision of efficient control and monitoring systems. We even gained the added benefit of being able to reduce what used to be a day and a half's job, to switch all of the college's heating systems on, to less than an hour. We have been delighted with the partnership arrangement and it made obtaining ISO50001 accreditation far more attainable. I only wish we had discovered this solution sooner."

Stephen Friling, Finance Bursar

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smarter EDM