-25%   -15%   -20%   +5%   -50%

Chipping Norton School use Optimal Monitoring as business tool to aid smarter decisions

Chipping Norton School, a secondary state with 1100 students, has significantly reduced energy consumption and costs by using Optimal Monitoring's Energy Monitoring software to identify excessive usage and waste across their site.

Initially a council pilot scheme, the school began using Optimal's energy monitoring, analytics and reporting software independently as a business tool in 2012 and quickly appreciated two main benefits:

- Firstly, transparent real time energy data allowed the school to recognize unusual activity immediately, enabling prompt 'health checks' to rectify the situation.

- Secondly, monitoring utility usage and waste allowed for 'trend analysis' – by comparing historic data the school could see where and how utilities were used, associated costs and areas for potential savings.

As a result, Chipping Norton School has been able to accomplish impressive business savings. The school was already operating efficiently but with water monitoring installed in the pilot scheme and use of Optimal's energy monitoring and reporting solution, the school has obtained an additional 30% reduction in water usage between 2012 and 2014 - on an already impressively low consumption level. This achievement was replicated in both gas and electricity, with a reduction of 15% in electricity and 25% in gas over the life of the project, and all are still reducing!

RESULTS
2012–2014

15%   25%

30%

Optimal monitoring

-25% -15% -20% +5% -50%

Gary Kelly, Bursar at Chipping Norton believes his school greatly benefits from the "reliable and complete information" provided by the Optimal Solution ensuring "good, trouble shooting strategic decisions can be made."

The daily and real time monitoring data, provided by Optimal's reporting software, means inconsistent or unexpected energy usage is easily spotted and rectified. Recently the school took immediate action when a specific tap was shown to have wasted 10,000 litres of water overnight and the hot water and heating system, fitted with a sub meter, reported a leak underground. As Gary Kelly comments: "Many schools have leaks – often undetected for years. This system would be of great benefit." In the long term, Optimal's historic monthly and yearly figures have allowed the school to strategically plan to combat waste. The flushing urinals have been replaced by waterless ones and sensor taps installed on basins with comparative monitoring data showing dramatic year on year savings.

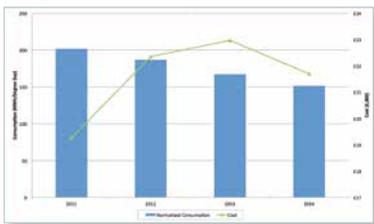Gary Kelly using the Optimal system

2014 figures show an annual reduction in gas consumption of 19% compared to 2012. Now, savings in electricity are being targeted with specific school areas closely monitored following installation of sensor lights and LEDs. Again, Optimal's comparable 'before and after' data clearly shows reduced electricity usage and costs. The school has used this evidential data to successfully apply for Government funding in order to implement further positive energy changes.

For Gary Kelly, Optimal Monitoring's energy monitoring, analytics and reporting software is a user-friendly business tool that allows 'analysis of usage' through a

wealth of energy information. Gary adds: "The graphic displays are so useful and the system easy to use - whether I want half hourly readings, lists on a daily basis or year on year data. The big plus is that it is cloud based. The user isn't tied to a specific computer so can log on anywhere in school or at home. It allows for multiple users so I could provide the Governors, for instance, with the log in details."
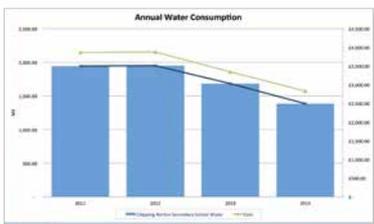
In the future, because the system is expandable, more sub meters can be added to increase the school's monitoring ability and they are currently looking at altering the bespoke software parameters to make better use of Optimal's alarm trigger.

EXAMPLE **SAVINGS**

GAS CONSUMPTION YEAR-ON-YEAR

WATER CONSUMPTION YEAR-ON-YEAR

Optimal Monitoring are specialists in the design, creation and delivery of Energy Monitoring, Analytics and Reporting Software.

With over twenty years of industry experience, UK based Optimal Monitoring enables organisations to make smarter decisions about utilities, energy consumption and the impact on corporate social responsibilities.

Optimal's Energy Monitoring and Reporting Software processes real-time data from the manufacturing, logistics and business industries through to councils, hospitals and schools.

Optimal Monitoring creates value by gathering, analysing and organising disparate, fragmented energy data tailored to specific business sectors. A non-invasive retro fit, Optimal's adaptable energy monitoring and reporting software is both intuitive and proven to deliver a return on investment.

Fully accredited and with an impressive list of clientele, Optimal Monitoring have teamed together with their business partners to ensure a professional and dedicated service offering high–level specialist advice and support at every stage.

ABOUT **OPTIMAL**

EDUCATION • FACILITIES MANAGEMENT • MANUFACTURING

To discover how Optimal can deliver energy savings for your business, telephone: **+44 (0) 1494 435106**

sales@optimalmonitoring.com   www.optimalmonitoring.com

Optimal Monitoring. Prospect House, Crendon Street, High Wycombe, Buckinghamshire. HP13 6LA. United Kingdom

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