



BGC-004

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BG Controls helps Chesterfield Royal Hospital cut energy costs

Building controls expert, BG Controls has announced that it is helping Chesterfield Royal Hospital to significantly reduce energy consumption with a state-of-the-art building management system (BMS).

Serving the population of North Derbyshire and beyond, Chesterfield Royal Hospital NHS Foundation Trust provides a full range of acute services in addition to 24-hour accident and emergency care.

BG Controls has been working with the hospital for over 20 years. Most recently, BG's engineers completed an upgrade of the building management system to help the hospital to increase the efficiency of the site and reduce its energy costs.

From design through to installation, BG implemented a series of energy saving initiatives. These included the replacement of obsolete boiler controls and the refurbishment of HVAC controls in a variety of departments including kitchens, wards, staff residential blocks and the mortuary.

BG is also currently undertaking energy surveys in each plant room and then updating the control strategies in order to make further savings.

Key to the success of the project has been the installation of simple user interfaces that give individual control to staff across the site.

For example, BG Controls custom designed and installed precise HVAC control in eight operating theatres. This allows surgeons and support staff to monitor and control the temperature and humidity within each theatre via a simple to use access panel. In addition the on site pharmacy now benefits from specially created web pages, which can be made accessible using the hospital intranet. The pages allow pharmacy staff to view current environmental temperatures and access historical temperature logs. This enables them to trace and verify that drugs have been stored in a controlled and correct environment. The BMS also monitors the site's main water tank to ensure that the correct levels and temperatures are maintained. It is particularly important that the hot water calorifiers are continuously monitored in order to protect against the risk of legionella.

"The hospital is committed to reducing its impact on the environment and lowering its running costs by becoming more energy efficient," says Steve Bacon, Chesterfield's recently appointed Energy Manager.

"BG Controls has helped us to achieve significant energy savings through the installation of a modern building management system that fulfils the needs of both patients and staff."

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