CYLON
smart energy control

Case Study

BOOTS

PROJECT OVERVIEW

Boots is the leading health and beauty retailer in the United Kingdom and operates over approximately 1,500 stores in UK and Ireland. In addition to its high street stores, Boots has opened 48 new stores in edge of town retail parks over the last three years.

Boots believes that corporate social responsibility is the key to being an innovative, forward looking and healthy company. Energy efficiency is an integral part of this policy. It has been working with the Carbon Trust to continue to improve its carbon management performance by making its stores as energy efficient as possible and it plans to reduce carbon dioxide emissions by over 8,000 tonnes.

At present, the Cylon Building Energy Managment System (BEMS) controls the air conditionning systems, lighting, heating and electricity meters in 60 Boots stores.

A remote dial alarm facility has been installed in each site and is connected to a supervisory bureau within Severn Controls, the Cylon Approved System Integrator. Thus, problems can be resolved before the store staff are aware of an issue, the bureau can remotely update the system and corporate policies on energy use are standardized accross the stores.

"Cylon's BEMS fulfils the role of Virtual Building Manager, reducing considerably our maintenance and energy costs" - Ian Westran, Mechanical & Electrical Manager

SOLUTIONS BENEFITS

Energy Savings - The centrally managed BEMS allows Boots to implement its strategy for reduced energy usage and thus lower carbon emissions.

Maintenance Costs - By investing in a BEMS, Boots is able to replace the equipment based on hours run instead of time which saves money. Through the BEMS, the faults are detected by the bureau before they become serious and therefore call-outs can be planed and emergency call-outs can be reduced. As the bureau is aware of the nature of the faults, the time to fix the problems can be considerably reduced.

Automated Carbon Reporting - The corporate and social responsibility policy requires carbon reporting. Cylon's Building Energy Management System provides Boots with a full database for carbon reporting without any additional cost or complexity.

Audited Compliance With Health & Safety - Cylon's BEMS gives Boots an independant audit for health & safety legal and insurance requirements.

CYLON SOLUTION

Each of the 60 Boots stores is fully controlled by the Cylon BEMS. Lighting, store room heating, cooling and the air handling units are centrally managed and monitored by the supervisory bureau within the offices of Severn Controls. The modem on site dials the modem on the Supervisor PC within the offices of Severn Controls if an alarm arises. The store staff can also telephone the bureau for any temperature change or problems.

The programmable Cylon UnitronUC32 Controllers control the lighting throughout the stores using predefined time schedules. Lighting is activated across the store through the keyswitch. However, the system ensures that only minimum lighting is used outside of the defined trading hours and activates the full lighting inside of the trading hours. The air conditionning units are monitored via the Cylon Modbus interface which supplies a full list of information and fault codes in the event of a problem. This bureau also provides a database of faults which shows which equipment fails on a regular basis and why it fails. Electricity meters are also monitored via the Cylon Modbus interface which is efficient as it can link multiple meters on the same bus, reducing cabling costs and easing installation.

ABOUT CYLON

Cylon Controls Limited provides smart energy control solutions for buildings. Founded in 1985, Cylon has grown into a multi-million dollar corporation and has become one of the largest privately owned manufacturer of building control systems in Europe. As a focused global provider of uniquely flexible, web enabled HVAC technology & solutions, Cylon understands buildings better than anyone else. Our product range has been installed in all categories of buildings across Europe, North America, Asia, the Middle East and Africa to maximise comfort, productivity and energy efficiency. With the introduction of UnitronUC32, the world of intelligent building controls has taken another significant step forward. An entirely new 32-bit hardware architecture is combined with advances in controller engineering, Ethernet networking and system interaction via the web. The result is an intelligent system with a low first cost, but which at the same time addresses the true lifetime cost of intelligent controls. UnitronUC32 not only offers state of the art technology that will cater for your control needs well into the future, but it also bridges the gap between old and new by being fully compatible with all existing Unitron systems. UnitronUC32 will upgrade even the earliest Unitron systems to a leading edge, web-based architecture without any gateway devices, and without any re-engineering of the original system, thus saving costs.

PROJECT SUMMARY

Applications:
Monitoring, heating, cooling, lighting, metering, fire alarm, emergency lights, boilers.

Number of Points:
Approximately, 100 points per store.

Number/Type of Building:
Over 60 Boots retail stores, varying sizes

Network: Ethernet

Cylon Hardware Installed:
UC32.Net
UC32 Field Controllers

Cylon Software Installed:
UCC
UEC

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