Case Study
Small Power Control

Gwynedd Council

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Case study:

Managing Small Power Delivers Big Savings for Gwynedd Council. Gwynedd council sought a solution to a growing problem across their estate; the increasing amount of power consumption from small power equipment, which could now account for 20% of the electricity bill.

The council identified small power equipment such as PCs, IT peripherals, vending, desk power and water heating as a target area for energy efficiency, one which sees a large amount of waste. Industry figures demonstrate 'vacant building energy' can account for as much as 50% of a building's energy bill. An astounding figure when you consider buildings are only occupied for less than 30% of the time.

The council's strategy was to deploy a method for controlling small power items across their estate, one which would automatically manage equipment, in order to eliminate energy waste and minimise 'vacant building' energy use.

Key Facts:

- **2.7 year system payback**
- **System manages Vending, IT equipment and peripherals**
- **Project funded through Salix**
- **Project success secures roll out across 16 other sites, including offices and schools**

To confirm the concept of managing small power the council installed a system at a leisure centre, which is open for approximately 100 hours per week. If the system could meet reduction targets and provide an acceptable return on investment in this environment, then achieving good results in buildings used for half of the time would be easily achievable.

The EnergyLogix system achieved a 36% saving on managed equipment, providing a 2.7 year system payback. The system - which also comes with PC power management solution, aM&T software and is capable of presenting energy dashboards for renewables and Voltage Optimisation - manages the building based on operating hours and usage patterns of equipment.

The system included the installation of Energy Nodes, which are control devices with embedded meters, throughout the leisure centre including reception, canteen and offices. The Energy Nodes fit into existing trunking behind the sockets managing individual equipment, circuits and desks. This enabled items such as IT equipment, vending machines, refrigeration and personal electronics to be managed by a centralised control system.

The control policies can be programmed in seconds and are easy to set, and can be administered by onsite personnel or the Council's estate team, so they incur no costs if they want to change policy settings or set new schemes or reports. The success of the project has led to the control system being rolled out across 16 other sites as part of a Salix funded scheme.

"The EnergyLogix system successfully solved the issue of increasing small-power energy consumption, whilst lowering vacant building energy use and providing a return of investment of 2.7 years."

David Lewis, Energy Manager, Gwynedd Council

For more information on how SenseLogix's products and services can help you reduce your energy consumption contact David Hall, Sales & Marketing Director, on **07775 308700** / **01745 770501**. Alternatively, send an email to **david.hall@senselogix.com** or view our website at **www.senselogix.com**