



## Lighting Control Strategy for Higher Education with ROI of just 9 months

### THE CLIENT

The Tennis Centre is part of the University of Wales Institute Cardiff's (UWIC) Cyncoed centre of excellence and forms an integral part of UWIC's sport and leisure facilities.

### THE BRIEF

RUMM were asked to work in conjunction with UWIC to conduct a pilot study on reducing consumption as the Tennis Centre was accounting for 7% of the campus' electricity consumption equating to some 135,000MWh per annum.

### THE PLAN

Working closely with UWIC's estates department, the newly installed aM&T system permitted the identification of several areas needing improvement. RUMM's sophisticated internet based analytical software suite (IBASS) showed that consumption was independent of occupancy level. A site inspection revealed that the main electricity consumption was found to be the main tennis hall court lighting.

As the existing manual control system was clearly not being used to its maximum potential in such a busy environment, UWIC and DJM Electrical Systems Ltd were able to design a new system incorporating occupancy sensing and push button controls that provided individual occupied court lighting for 60 minutes, whilst maintaining a safe level on the remaining unused courts.

In addition, occupancy sensors were installed in the changing rooms, shower and toilet areas and the main entrance.

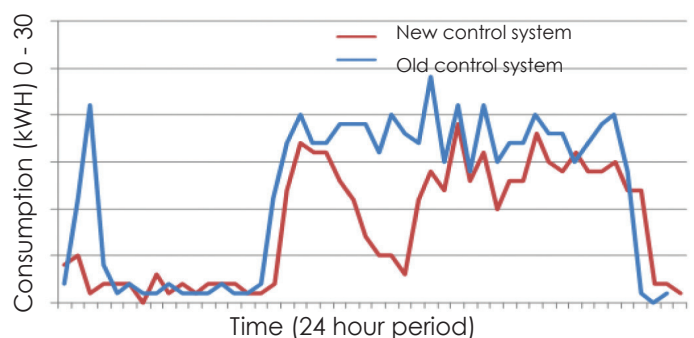
### THE RESULTS

Rapid reductions were achieved with an initial saving of £4,100 achieved. An average 20% saving has been forecast with payback in just 9 months.

### WHY IT WORKED

Working in close partnership with UWIC allowed RUMM to create a bespoke solution which demonstrated a good balance between reducing waste energy consumption, without affecting the standards required by elite athletes.

Graph illustrating kWh reduction over a 24 hour period



## KEY POINTS

- Bespoke approach to academic and sports sector
- Average 20% savings
- Payback in just 9 months