

HVAC ENERGY SAVING PROJECT UTILISING MEMU MONITORING SYSTEM

CLIENT | LOCATION

Global Pharmaceutical Manufacturer | UK

SECTOR

Pharmaceutical Manufacturing

PROJECT BRIEF

EECO₂ Ltd was appointed to carry out a detailed site survey on potential energy savings within the site HVAC systems. The client site wanted to address any unnecessary energy waste.

During the site survey EECO₂ identified four AHU systems for potential savings. The survey revealed a number of energy reduction projects on the site AHUs, including airflow setback, demand control and VAV retrofit to laboratory fume cupboards.

METHODOLOGY

A MEMU was installed on one of the systems in order to obtain adequate baseline energy data to ultimately verify the effectiveness of the delivered solutions. From the initial reports it was identified that there was unnecessary cooling and then re-heating of the supply air. This was in addition to the potential savings already identified in the survey.

SOLUTION

The solution in this case would be to optimise the BMS controls to all four AHUs on site. This would introduce deadband control and eliminate simultaneous heating and cooling.

From the data collected by the MEMU and the initial analysis by EECO₂, the further potential energy savings were calculated.

RESULTS



Potential energy cost savings identified in addition to the energy saving projects:

£24,000 per year

The energy savings identified have an overall simple payback period of 2 months.

FOR FURTHER INFO

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