

HVAC ENERGY SAVING PROJECT IN TURKEY UTILISING MEMU MONITORING

CLIENT | LOCATION

Global Pharmaceutical Manufacturer | Turkey

SECTOR

Pharmaceutical Manufacturing

PROJECT BRIEF

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

METHODOLOGY

During the site survey EECO₂ identified the largest energy consumers on site. The EECO₂ team then fitted one of the larger HVAC systems with the MEMU in order to obtain a granular energy analysis. From the detailed reports, it was identified that the heating control valve had been bypassed, which resulted in continuous heating during the summer.

METHODOLOGY CONT.

It was also identified, that the dehumidification control was very inefficient in consuming unnecessary energy. The team carried out energy calculations, which confirmed their findings enabling them to engineer the solution.

SOLUTION

The client site were informed that they had a by-passed heating valve, allowing them to immediately fix this problem at no cost.

The EECO₂ team optimised the dehumidification control loop on the BMS system. The changes they made enabled the site to reduce their energy consumption in this area. The changes were then rolled out across the entire client site on every HVAC system.

RESULTS



Energy cost savings identified on 1 AHU:

£12,000 per year

The energy savings identified have an overall simple payback period of 0.25 years.

FOR FURTHER INFO

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