



ENERGY SAVING FILE - HVAC SYSTEM

PROJECT

SALIX FUNDED ENERGY SAVING PROJECT

CLIENT

LEEDS METROPOLITAN UNIVERSITY

RESULT

ANNUAL ENERGY BILL REDUCED BY £25,000
ANNUAL CO2 REDUCED BY 192 TONNES
PAYBACK IN 23 MONTHS



FINANCED VIA

SALIX

BEFORE



**PROJECT:
ENERGY
REDUCTION
THROUGH
VENTILATION
SYSTEM UPGRADE**

AFTER



THE BRIEF

Leeds Metropolitan University wanted to consolidate its reputation as one of the UK's greenest establishments by using its participation in the Government funded SALIX scheme to leverage further energy, CO2 and maintenance reductions from their HVAC plant.

THE CHALLENGE

To establish energy reduction measures beyond those already undertaken, with a return on investment that falls within the University's payback criteria, ideally prolonging equipment life with a reduced maintenance requirement.

THE RESULT

Efficient Air surveyed the air movement plant and found that significant savings could be achieved, both in energy, CO2 and maintenance terms, through the replacement of the fans within the AHUs. The existing fans, low efficiency belt driven types, were upgraded to high efficiency direct driven plug-in type fans complete with EC motors, providing fully variable speed control, less motor heat whilst eliminating belt dust issues.

THE BOTTOM LINE

Three projects were completed with a capital spend of over £47,000. The resultant return on investment was under two years. The University's annual energy save equated to £25,000 kWhrs with a 192 tonnes CO2 reduction. The HVAC plant's operational life was extended and the maintenance requirements reduced.



EFFICIENTAIR
HVAC ENERGY SAVING SOLUTIONS



A PARTNERSHIP THAT WORKS....

"The work with Efficient Air has proved very productive. Their approach resulted in improved air flows within the lecture rooms and reduced the energy consumed. The new fan design also produces significant additional energy savings through improved airflow across the heating coil." A further benefit of the new design is that it requires less maintenance. With the old fans, one of the building's major maintenance overheads related to belt replacement and adjustments, costs that been entirely eliminated with the new fans."

MARK WARNER

Energy Manager

Efficient Air is an independent energy consultancy, dedicated to achieving significant energy savings on it's UK customers' bills by evaluating all aspects of the HVAC system. By retrofitting technically advanced products into air handling units and air conditioning systems energy saving can amount to between 20 and 75 percent for large and medium size energy users.

Our independent evaluation service is based upon a proven knowledge of all types of air handling systems, and our ability to quickly calculate the percentage energy savings by installing the latest air movement technology.

By investigating thoroughly all aspects of the air conditioning systems, fan installations and related equipment we can guarantee our clients a maximum payback.

EFFICIENTAIR



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INVESTOR IN PEOPLE

PLEASE FAX 01825 748151 FOR FURTHER DETAILS

- PLEASE CONTACT US TO ARRANGE A FREE ENERGY AUDIT ON A FAN SYSYTEM.
- PLEASE CONTACT US TO ARRANGE AN HVAC SYSTEM INSPECTION
- PLEASE CONTACT US TO ARRANGE A VISIT BY ONE OF OUR ENGINEERS TO DISCUSS THE INITIAL SAVINGS

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