



Case Study

Client: AFE Group

Services provided: Energy audit to comply with the requirements of the Energy Savings Opportunity Scheme, ESOS

Industry: Professional cooking, bakery and refrigeration equipment manufacturing

Savings identified: £135k

Summary

The AFE group, which comprises Williams Refrigeration, Falcon Foodservice, Mono Equipment, Millers Vanguard and Serviceline, appointed JRP Solutions to carry out an ESOS audit of their collective estate.

The total utilities and transport energy consumption across the group totalled close to 27 GWh.

Utility and fleet transport energy audits were carried out at each of the 5 manufacturing sites and an analysis of utility use at each site revealed the significant energy uses to be:

- Transport
- Comfort heating in production and warehouse facilities
- Factory and warehouse lighting
- Specialist metal punch, laser and forming machinery
- Extraction fans

Approximately 65% of the energy used was consumed by the company's fleet of 300 cars, vans and lorries.

Opportunities identified

The fleet audit at the Millers Vanguard site showed very good levels of fleet management along with a range



of fuel reduction strategies. JRP recommended that all Miller's fuel saving measures were rolled out across the AFE group which could result in group wide savings of £28k pa. These improvement opportunities required little or no investment.

The AFE Group companies already had a strong energy ethos and management culture and were working towards ISO 50001 certification on a number of their sites. JRP's audit recognised energy saving projects that had already been undertaken, but using our Energy Initiator® survey tool we were also able to identify further opportunities that could be funded within the company's target for investment returns.



We identified an opportunity to upgrade the oil heating system with a more efficient gas system at the Mono Equipment, Swansea site. The price of gas was much lower than that of fuel oil being consumed and the more modern heaters had a much higher efficiency rating. The new gas heaters could also be connected to the existing Vickers system which controlled the rest of the heating system and was interlinked with the roller doors (shutting off heating when they are open). This would allow greater control of the comfort heating.

If the heaters were replaced savings of 6,137 MWh could be achieved, with associated cost savings of £16k. The implementation costs are assumed to be £41k, giving a simple payback of 2.6 years.

Results

If all opportunities identified as part of the ESOS audit were implemented savings of 1,920.3 MWh could be achieved, equating to a cost saving of £135k pa. These savings have associated total implementation costs of £267k giving an average simple payback of 2 years.

The AFE Group quickly adopted a number of the energy saving opportunities put forward. JRP are continuing to support the organisation in developing a group wide energy management policy and offering training support to ensure a continued focus on energy awareness in the business.

The JRP team provided a practical and insightful audit of our sites to help make our sites more energy efficient. The audit and reporting was completed to the agreed timetable and budget has added greatly to the focus and value we place on our overall energy consumption and cost."

Tim Smith, Chief Executive Officer, The AFE Group Limited.



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