



### Summary

<b>Industry:</b>	Food - Dairy
<b>Application:</b>	Turnkey Energy Saving Systems
<b>Actual Saving:</b>	£9,800 pa
<b>Payback Period:</b>	1 year



## Turnkey Energy Saving Systems

Dairy Crest employs ERIKS Technical Know+How to reduce costs

### ISSUE

Central to the production processes at the Dairy Crest Maelor site near Wrexham are three cooling towers with fans driven by 18.5 kW motors, and an effluent pump driven by an 11 kW motor. All of which were running at high speed most of the time, including weekends. Dairy Crest was aware that this type of running was inefficient and called on ERIKS Know-How to find a solution. The result was that ERIKS Electronic Services designed, manufactured and installed four turnkey energy saving systems with a calculated payback of just one year.

### SOLUTION

ERIKS conducted an initial site survey and provided a full specification and price breakdown for providing new drive systems, including ECA calculations and predicted energy savings. The site survey included recording the operating hours, the rated speed, current and duty cycle. Installation took place over a weekend during one of Dairy Crest's shutdowns; this avoided any costly downtime. Omron-Yaskawa E7 inverters were installed, they are designed for energy saving and have an advanced Level-2 tuning feature that de-fluxes motors and improves their efficiency. A strong contributing factor to winning the contract was the fact that ERIKS assumed full project responsibility. The total cost of the systems was just over £14,000, a figure that included project design, all peripheral equipment and also installation and commissioning.

### OTHER BENEFITS

### FURTHER COMMENTS...

"The VSD installations have delivered the predicted benefits in line with the project plan, when the cooling towers were switched to the VSD supply there was a step change in electricity usage".

Chris Dale

Dairy Crest

### MORE INFORMATION

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know-how makes the difference