



## Summary



<b>Industry:</b>	Construction
<b>Application:</b>	Energy Saving Survey
<b>Actual Saving:</b>	£28,000 pa across 6 sites
<b>Payback Period:</b>	18 Months



## Replacement exhaust fan drive saves energy

ERIKS UK help to reduce energy usage resulting in cost savings

### ISSUE

Following an internal energy review conducted by a large aggregate company, the second largest producer of asphalt in the UK, the exhaust fans at six of the company's coating plants were identified as potential energy saving targets.

The exhaust fans were operating using inefficient mechanical damper controls rather than efficient electronic controls. ERIKS UK confirmed this review by calculating the potential savings and establishing a predicted payoff period, this was just 18 months for one of the larger drives, a 150kW unit at a plant in Scotland.

### SOLUTION

WEG CFW11 inverter drives were chosen to replace the mechanical damper controls and in a system of this type they can deliver a 40% reduction in absorbed motor power while maintaining an equally effective airflow.

There are three sizes of fans in use on the coating plants and each has different estimated payoff periods. The three sizes are 55kw, 110kw and 150kw. Calculations are based on an average airflow rate of 90%, with the motors on an average 75% load for 10 hours a day, 6 days a week, and 50 weeks a year. ERIKS commissioned and supplied the WEG drives, resulting in significant savings.

### OTHER BENEFITS

- Reduced carbon footprint
- Cost efficient method to reduce energy usage

### FURTHER COMMENTS...

"Energy costs and environmental issues now, more than ever, are playing a major part in the operating cost of an efficient site."

Nigel Jones  
ERIKS UK

### MORE INFORMATION

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