



Summary

Industry:	Petrochemical
Application:	Carbon Milling Extraction Fan
Actual Saving:	£6,336 pa in energy costs
Payback Period:	16 months



Variable Speed Drive reduces energy consumption

CO2 emissions reduced by 64.7%

ISSUE

A leading manufacturer of activated carbon was looking for ways to reduce energy costs within the manufacturing process, so ERIKS were contacted and asked to identify potential areas where savings could be made. Following a walk of the production site the main carbon mill extraction fan was identified as offering the greatest opportunity for energy saving.

SOLUTION

The 55kW dust transportation fan is operated at four separate points using a damper control, however this is not the most efficient method, and as such their annual energy consumption on this application was 153,313kWh.

ERIKS Technical Specialists suggested that the same flow rates can be achieved using a variable speed drive which would produce a new energy profile, and as such annual energy consumption on the same application using an inverter would be reduced to 54,131kWh.

The customer was extremely pleased with the energy efficient package ERIKS proposed and the inverter panel was duly installed and commissioned on the application. The customers running costs and CO2 emissions are reduced by 64.7% on this application. Annual savings have been achieved of 99MWh, 53 tonnes of CO2 emissions and £6,366 on energy costs - all with a payback period of just 16 months.

OTHER BENEFITS

- Energy saving upgrades
- Accurate, efficient process control
- Fully installed and commissioned control package
- Detailed payback calculations and recommendations

FURTHER COMMENTS...

The customer was extremely pleased with the efficiency of the package and the savings it has delivered.

MORE INFORMATION

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