



Summary

Industry:	Leisure
Application:	Boulevard Plant Room Booster set
Actual Saving:	£4000 pa
Payback Period:	13 months



Inverter Driven Pump Set Solution

ERIKS solution saves the customer energy and reduces carbon emissions

ISSUE

A customer had installed a fixed speed end suction centrifugal pump set. The pump set is not variable and is wasting energy when the process/demand drops off. With energy reduction and savings at the forefront of his mind, he contacted ERIKS to look at a more cost effective, efficient solution.

SOLUTION

Following a site visit by an ERIKS Pump Application Engineer to review the application, it was suggested the best solution to reduce power consumption would be to replace the existing pump with a Grundfos inverter driven multi pump multistage booster set.

When the system only needs half the maximum flow rate, for example in the evenings, the power consumed would only be 1.71kW/hr. The existing equipment would be running at 4kW minimum. This gives an initial saving 2.29kW per hour at 20 pence per kWhr = 34.2 pence per hour saving. If this was calculated for every night of the year, there would be a saving of just under £3,000.

The old system was also running on a timer rather than pressure transducers introduced in the new solution which allow the pump to speed up and slow down to meet actual demand therefore saving the customer energy. In addition there would be times when the new pump set provided by ERIKS would be stopped and not using any energy at all. If the existing set was stopped for a total of just one day per week, the annual energy saving would be just under £1,000.

OTHER BENEFITS

- Reduction in energy bills
- Lower carbon emissions
- On-site technical problem solving

FURTHER COMMENTS...

With these savings in mind, the duly ordered the solution suggestion by ERIKS and is now benefitting from lower energy bills, and the warm glow knowing they are also reducing their carbon emissions.

MORE INFORMATION

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