THE CLIENT

Pegler Yorkshire are leading manufacturers of advanced plumbing, heating and engineering products including fittings, taps and valves.

THE CHALLENGE

Pegler Yorkshire identified two extractor systems at its Doncaster manufacturing facility that were heavy users of electricity. In addition the plant was also suffering from regular failures to motors and shortened life expectancy of electrical equipment.

The high voltage supplied to the building of up to 254V, led to the company operating above G5/4 regulations, and was believed to be the main cause of the ongoing power issues.

The Powerstar team were commissioned to assess the facility and determine if the installation of a Powerstar voltage optimisation system would bring the site in line with G5/4 regulations, reduce motor failures and cut electricity consumption levels.

THE SOLUTION

Powerstar recommended the installation of a Powerstar voltage optimisation system with a 15V reduction.

This led to a reduction in electricity consumption of 16% from the two extractor systems which had been identified as heavy users and an improvement in power factor.

Financially the installation resulted in savings on £7,486 per year and carbon emissions were reduced by 46.4 tonnes.

The reduction in voltage brought the facility in line with G5/4 regulations and due to equipment running to the electrical loading specification they were designed for, failure rates were reduced and lifespan increased.

KEY FIGURES

- Annual consumption savings: 16%
- Annual financial savings: £7,486
- Annual emission savings: 46.4 tonnes

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