

CASE STUDY



Birmingham Stopper Ltd – Metal fabrication

THE CLIENT

Birmingham Stopper provide a comprehensive metalwork service for a range of applications, including ground and pole furniture for the telecoms industry.

The manufacturing processes on site include presswork, fabrication, CNC machining, surface grinding and robotic welding.

THE CHALLENGE

Birmingham Stopper were looking for an energy management solution that would help the company reduce its carbon footprint and reduce the cost of energy used on site.

It was important that any adopted solution did not affect the machinery on site or interfere with the manufacturing processes.

The Powerstar team were challenged to establish whether voltage optimisation would deliver results the company was looking for.

THE SOLUTION

Before making any recommendations to Birmingham Stopper, the Powerstar team carried out a site analysis to determine the electrical loading characteristics of the site.

This process involved data logging the voltage and analysing the specific electrical loads used at the site to determine where savings could be made.

After carrying out this analysis Powerstar recommended the installation of two units, a 500kVA system and a 90kVA system as the most effective application.

The Powerstar team worked closely with Birmingham Stopper throughout the implementation of the project to ensure the customer's requirements were adhered to and no disruptions occurred to the site's manufacturing output.

KEY FIGURES

- Annual consumption savings: **12%**
- Annual financial savings: **£8,000**
- Annual CO₂ emission cuts : **60 tonnes**

CUSTOMER COMMENTS

Powerstar are a unique find. They provide simple, pragmatic solutions to reduce energy consumption. Benefits are instant and Powerstar's confidence in the product is reinforced by guaranteeing promised savings. If you are serious about energy reduction we certainly advocate the effectiveness of energy optimisation equipment.

**James Bowyer, Quality Manager
Birmingham Stopper**



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