INTRODUCTION

Precision Products (UK) Ltd is a manufacturer and worldwide supplier of piston rings and metallic seals to the marine and industrial sector.

Precision Products (UK) Ltd’s aim is to focus on delivering solutions that adhere to what they consider to be their core strengths; speed and flexibility. Because of this, they have become a development partner of choice within the marine and industrial sectors.

Established in 1994, the company has over 20 years experience and has continued to grow rapidly throughout that time.

THE CHALLENGE

Due to investment in a full range of specialised machines and processes, Precision Products (UK) Ltd were looking for ways to reduce its annual energy consumption to minimise running costs for the specialised equipment, as well as reducing their CO₂ emissions in the process.

Voltage optimisation technology was identified as a viable solution that would meet their objectives. Powerstar were selected due to their market leading reputation, engineering expertise, and sustainable ethos.

Following a full site survey and evaluation, it was found that the sites average incoming voltage was 241.9V with the maximum voltage reaching as high as 249.9V.

In the UK, most electrical equipment is designed to a particular specification, meaning it works most effectively at around 220/225V.

Precision Products (UK) Ltd’s average voltage was reaching above this optimal figure, leading to a significant amount of energy waste and excessively high energy bills.

The overvoltage was also subjecting the equipment to unnecessary wear and tear, shortening its overall lifespan.

THE SOLUTION

To stabilise the voltage profile, and reduce the amount of energy wasted, the Powerstar team recommended the installation of a Powerstar MAX system, an electronic-dynamic voltage optimisation solution.

The Powerstar MAX system is providing Precision Products (UK) Ltd with guaranteed annual consumption savings of 7%. This, in turn, will reduce the CO₂ emissions by 85.4 tonnes per annum.

KEY FIGURES

- **Annual Consumption Saving**: 7%
- **Annual CO₂ Savings**: 85.4 tonnes
- **Annual kWh Saving**: 157,801 kWh

Precision Products (UK) Ltd reduced their annual electricity usage by 157,801 kWh

Commitment to research and development allows Precision Products (UK) Ltd to be a global leader in the industry