



## Tees Active Ltd.

### INTRODUCTION

Tees Active Ltd. is a charitable leisure management organisation which was established as a non-profit-distributing company on 1st May 2004.

Working very closely with the Stockton-on-Tees Borough Council, the company specialises in the management of facilities and projects with the aim of raising levels of physical activity within the community. Per year, Tees Active welcomes almost 2 million visitors to its facilities and employs around 219 staff.

### THE CHALLENGE

Due to being a non-profit-distributing company, Tees Active Ltd. was looking for ways to reduce energy consumption, and therefore costs, at a number of its facilities throughout its portfolio in order to reinvest the capital into its facilities, enhancing the customer experience.

To begin with, Powerstar identified 3 of Tees Active Ltd.'s sites as potential candidates for voltage optimisation technology, which was confirmed after a series of thorough site surveys were carried out at each facility.

The sites identified were Billingham Forum, Splash Stockton, and Thornaby Pavilion; all of which are large leisure centres with a diverse range of facilities.

### THE SOLUTION

Following the analysis of the voltage profiles at each site, logging of electricity consumption and understanding the operational processes of each facility, the Powerstar team recommended the installation of 3 Powerstar LITE systems with a set reduction in voltage.

Powerstar offered a concept to completion service and provided a fully supported, turnkey solution to each location for Tees Active Ltd.

All the installations were carried out with no disruption to the daily operations and without any negative impact to the experience of Tees Active Ltd.'s visitors.

The installation of the 3 Powerstar LITE solutions will reduce the combined annual electricity consumption by a total of 303,599 kWh, with an average annual consumption saving of 10.17%.

### BILLINGHAM FORUM

- ✔ **Voltage Reduction:** 15V Fixed
- ✔ **Annual Consumption Saving:** 8.8%
- ✔ **Annual kWh Savings:** 189,591 kWh
- ✔ **Payback Period:** 3 years

### SPLASH STOCKTON

- ✔ **Voltage Reduction:** 20V Fixed
- ✔ **Annual Consumption Saving:** 10.2%
- ✔ **Annual kWh Savings:** 70,326 kWh
- ✔ **Payback Period:** 3 years 1 month

### THORNABY PAVILION

- ✔ **Voltage Reduction:** 22.5V Fixed
- ✔ **Annual Consumption Saving:** 11.5%
- ✔ **Annual kWh Savings :** 43,682 kWh
- ✔ **Payback Period:** 3 years 8 months

### CUSTOMER QUOTATION

"We found working with Powerstar to be very easy as they did everything they could to accommodate our requirements not only in which unit was best suited to deliver the greatest efficiency, but also in ensuring minimum disruption. Work was carried out overnight which meant that there was no disruption to our operational hours and our customers.

This is one of the simplest ways to achieve instant cost effective energy savings and I would highly recommend Powerstar."

**Dennis Smith, Project Manager, Tees Active Ltd.**

**LITE MAX HV MAX**