

CASE STUDY



VOLTAGE OPTIMISATION IN MINING

Introduction

The European based mining quarry which installed Powerstar deals with the production of sand and gravel for the construction industry and was formed in 1977.

The Challenge

The company was looking to reduce its energy consumption on site to help save on energy costs but also reduce its carbon footprint and help bring the voltage on site in line with what is required.

The Solution

The installation was completed with minimal disruption to operations. Since the installation, there have been no detrimental affects to any of the equipment, or on-site processes as a result of the installation.

The Quarry has also benefited from a reduction in maintenance costs and failures of electrical equipment such as lighting etc as a result of reducing the over-voltage into the site.

The graph to the right shows the reduction in Power Demand (kVA). The load entitlement of the establishment is 1000 kVA. The installation of Powerstar reduced the maximum demand below 1000 kVA.

Further Information

Please contact the Powerstar Marketing department on 0114 2576 200 or email marketing@powerstar.com

www.powerstar.com

Savings & Benefits

Key Figures

Daily energy consumption prior to install: **17,643 kWh**
Daily energy consumption after install: **15,709 kWh**
Daily savings in energy consumption **1,934 kWh**
Total energy consumption savings: **11%**



The Mining Quarry has high levels of savings.

