

Reducing Lighting Electricity Consumption and Costs For:



Reference: 060614-1400
Client: Unipart Eberspächer - Coventry
Type Of Building: Warehouse & Production Area

A Case Study

Introduction

Unipart Eberspächer Exhaust Systems, the World's 4th largest exhaust manufacturer, designs and manufactures exhaust systems, catalytic converters, fabricated manifolds and steel fuel tanks for a wide range of vehicle manufacturers throughout the UK and Europe.

The original manufacturing plant was turned from being one of British Leyland's worst performers in the 1970s, to Factory of the Year serving major prestigious names like Jaguar, Bentley and Range Rover.

Existing Lighting

After carrying out a comprehensive technical survey, both the high rack stores and adjoining production area were identified as being ideal for the implementation of ECO-MAX optimisers.

The artificial lighting in both areas remained lit 24hrs, 5-6 days/week, despite the building having large clean skylights which provided excellent internal natural light levels; in fact natural light levels were 600% higher than those actually required.

Type of Lights: 400W Metal Halide
Electrical Load of Lighting: 40.65KW

The Solution

In order to reduce the electricity consumption of the existing lighting by around 40%. GWE supplied and installed two ECO-MAX-SDIM centralised lighting control systems. These systems "harvest" natural light by automatically dimming or switching off the artificial lighting in response to internally measured daylight levels.

Enhanced Capital Allowance (ECA), Scheme

Because of GW Energy's inclusion on the Carbon Trust's Energy Technology List, (ETL), ECO-MAX optimisers can be configured to qualify for the Enhanced Capital Allowance, (ECA).

The ECA scheme provides companies with a welcome cash flow boost in the financial year that the investment is made. Visit www.eca.gov.uk for more information.

Carbon Trust Interest Free Loans

SME's that implement ECO-MAX optimisers may also qualify for a Carbon Trust Energy-Efficiency Loan.

The repayments for these loans, which are interest free and without arrangement fees, are structured to be less than the energy saving made, allowing companies to benefit immediately from an improved cash flow. Visit www.carbontrust.co.uk for further information.



Energy & Financial Summary of Project

Current Annual Lighting Energy Cost Exclusive of VAT	£15,589.47	
Reduction in Energy Consumption	38.4%	
KWhrs Saved per Annum	115,819	
Reduction in Energy Cost, per Annum Exclusive of VAT	£5,984.02	
Total Cost of Equipment	£9,151.75	
Payback Period in Months, without ECA	Supply Only	Installed
	18.4	23.3
Payback Period in Months, with ECA**	12.8	16.3
Reduction in Carbon Emissions	49.80 tonnes p.a	

**Based on 30% corporation tax as the control system was configured to meet the requirements of the ECA scheme.

Lease Purchase

For larger companies that fail to meet the criteria of the Energy-Efficiency loan scheme, but would also prefer to see the financial benefits of the ECO-MAX transferred almost immediately into an improved cash flow, then lease purchase may be a better option, as the cash flow for many companies can be positive in just a few months, (contact GWE for further information).

References, written testimonials, or site visits can be provided / arranged by contacting GW Energy directly.



Authorised User No. 00388