



Polythene UK's drive to be self-sufficient and Earth Save Products' unique and cost effective heating solutions showroom needed Darke & Taylor's low energy lighting scheme to compliment the technologies installed and make best use of the electricity generated by the roof mounted solar PV array.

Low Energy Lighting – Offices and Showroom

Local business success story Polythene UK have strong environmental credentials, so when they moved to their new offices, they needed an energy efficient lighting system to complement their fully sustainable renewable energy heating system and solar PV array. Within a 2 week period, Darke & Taylor were able to design, specify, install and commission a system that is both fit for purpose and will achieve an excellent return on investment.

Project Scope:

- Feasibility Study
- Calculation of Payback
- Lighting Specification
- Lux Level Calculations
- Energy Saving
- Controls Specification
- Design
- Installation
- Commissioning
- Full Project Management

Further Details:

D&T had the full design and install brief for this lighting scheme. One part of the building houses the Polythene UK operation and required an efficient lighting scheme that provided good lighting levels for the office staff plus lighting for executive offices and the Board/Meeting Room. Based on budget requirements and return on investment, it was decided to use both LED light fittings and the best in energy efficient T5 fluorescent luminaires to develop a fully controllable scheme which utilised daylight and presence detectors to reduce energy use. The system has been designed to be upgraded as technology develops over time so that it remains a state of the art installation for this innovative space.

PROJECT DETAILS

Client:

Polythene UK and Earth Save Products

Project Manager:

Darke & Taylor Ltd

Building Services Consultant:

Darke & Taylor Design

Project Value:

£20,000

Project Duration:

2 weeks

"I chose the flex7 lighting connection and control system in my design for this low energy lighting scheme. This enabled us to include daylight and presence detection to improve energy performance and to ensure the scheme is both future proofed and fully controllable."

*Matt Gordon, Darke & Taylor,
Design Engineer*



Polythene UK's New Head Office includes a showroom that showcases Earth Save Products environmental technologies