

Energy efficient lighting offers big savings at Land Rover's Lode Lane Plant

Land Rover



High frequency fluorescent lighting



High bay sodium lamps



Overview

Energy efficient lighting and the installation of passive infrared (PIR) detectors is offering big cost and CO₂ savings for Land Rover.

LED Lighting

A review of lighting and energy use at Land Rover's Lode Lane Plant has identified that large savings can be made by replacing the existing sodium and fluorescent lamps with energy efficient LED lighting.

The proposed scheme will reduce energy usage by 70% saving over 1000 tonnes of CO₂ per year. With direct cost savings of over £140,000 per annum the return on investment will be less than 2 years.

Annual maintenance costs will also be significantly reduced due to the extended lifespan of the LED units.

PIR Detectors

'Out of hours' energy audits at Land Rover's Lode Lane Plant identified that lights were been left on when buildings were not in use. As a result passive infrared detectors have been installed in offices, foyers, corridors, rest rooms and toilets to automatically turn off lights when there is no activity for 15 minutes. This has resulted in both savings on electricity and a reduction in the plant's carbon footprint.

"We delegate responsibility for power down to local shop floor work groups. For shared areas such as rest areas and toilets lights were continually switched back on. This justified the investment in PIRs. Our power down is now even more successful between shifts and at weekends." *Joe McNamara, Lean Manufacturing Manager - Land Rover*