

Case Study: Meades Group



Chalmor

Experts in Energy Saving Lighting and Heating

The Challenge: Improve office environment and reduce energy costs

Meades Group, a leading accountancy practice in Watford, needed to improve energy efficiency and enhance their office environment. They approached Chalmor for advice and to implement an LED lighting and energy saving controls project in their modern, two-storey offices.

The Chalmor Approach

A full survey of the office layout was conducted to understand the environment, current lighting equipment and electrical usage. Detailed assessment enabled a tailored solution to meet specific requirements and payback targets.

The survey revealed:

- LED lighting upgrade was needed to achieve optimal lighting levels
- Replacement suspended ceiling tiles would create a more comfortable and brighter working environment
- Electrical appliances, outside signage and perimeter office lighting, which was left switched on overnight, wasted energy and added unnecessary costs



Professional design puts Meades Group in full control of lighting and energy





The Solution

- ✓ All existing lighting is upgraded with powerful LED lighting, delivering optimal light levels with low glare. A cost effective solution with guaranteed performance that radically improves the working environment and delivers significant carbon savings.
- ✓ Installation of WeControl; a commercial wireless control solution which monitors energy usage to identify appliances meriting automatic control. Valuable savings were identified and continue to be achieved by switching off the perimeter office lighting overnight and improving the existing energy saving functions of office equipment.
- ✓ Addition of energy saving controls and sensors to zone lighting, allowing lights to switch off automatically in vacant areas. A mix of Passive Infrared (PIR) and microwave motion sensors have been selected.
- ✓ Additional emergency lighting added to enhance safety.

Meades received expert service from concept to completion, including project management and waste recycling, with a real care for quality and results.

The Results



Electricity savings of £2,200 in the first year.
Electricity savings of £3,200 in subsequent years
(due to rising electricity prices)



42% reduction in overall electricity usage



Return on Investment (ROI) in 3 1/2 years



Improved working environment, with optimal comfort and light levels



"My colleagues and I at Meades would like to thank Chalmor for the wonderful new lighting system that they recently installed in our Watford offices. The office light has a much warmer feel now and knowing that we are doing our bit to save the planet by reducing our energy consumption is an added bonus. Their service was professional and thorough and we would not hesitate to recommend them – thanks to the team for all your hard work."

Louise Williamson FCCA | Director

