

# INTELLIGENT ENERGY-SAVING SOLUTIONS



**Resilience**  
IP65 rated T5 fluorescent fitting manufactured from high impact polycarbonate with two-part moulded, gasketless design

**MoveMaster**  
Needs-based scheduling of water heaters

**ReNew T5**  
Engineered solution enabling existing T8, T12 fluorescent fittings to be upgraded to T5 lamps back by a 5 year warranty

**External Endurance**  
IP65 rated low energy, long life lighting designed for external applications

**Autolux**  
Programmable light level and occupancy control. Suitable for internal and external lighting and signage

**Endurance**  
Long life, energy efficient, maintenance free lighting

**EasiFit Infra Red Switch**  
Movement and light level control – directly replaces existing switches

**Ambience**  
Recessed modular T5 fitting ideal for office environments, options include dimming

**CoolMaster**  
Occupancy control of ventilation and air conditioning

**BlueWave**  
Flexible lighting controls to minimise wasted energy

**EasiFit T5**  
Converts T8 to T5 energy efficient lamps with extended life and 50% savings on conventional control gear

**SensorStat/TouchStat**  
Flexible controls for local heating requirements

**Universal Controller**  
Advanced, optimised control for all types of heating system

**Brilliance/Intelligence**  
Brilliance is designed for high bay applications and uses T5 technology. While Intelligence offers Brilliances specification, but with built in controls giving wide range of control options.

Please contact me about lighting savings - Fax back to 01582 748748

Name: .....  Please also send details to my colleague:

Company: ..... Name: .....

Address: ..... Job Title: .....

..... Company: .....

Tel: ..... Fax: ..... Address: .....

Email: .....@..... Tel: ..... Fax: .....

Details: ..... Email: .....@.....

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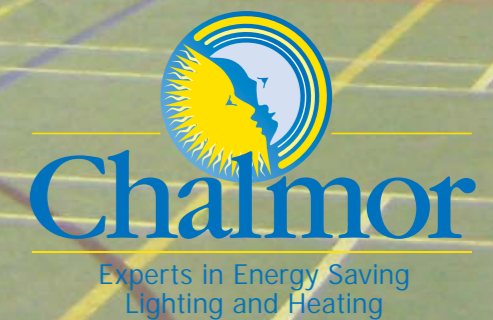
Lower energy costs...

Reduced carbon emissions...

Improved control...

Significant maintenance savings...

You can't lose





## ABOUT CHALMOR

For more than 25 years Chalmor has been driving down energy costs by delivering optimised energy reduction solutions with a fast return on investment. Chalmor can provide a complete service ranging from early stage design, supply of equipment, project management and complete project installation.

In recent years Chalmor has successfully reduced energy consumption, costs and carbon emissions in a wide range of public sector organisations throughout the UK. Reference sites and case studies are available, including Fire Services College, Addenbrookes Hospital, City University London, University of Manchester and Reaseheath College.

Also, Chalmor's unique **LifeSaver** Scheme enables you to implement an energy saving project for no initial outlay. The scheme can be tailor made to ensure the investment is funded through the reduced costs and financial savings.

Find out more about Chalmor and the products/ services we offer at [www.chalmor.co.uk](http://www.chalmor.co.uk)

## CHALMOR'S ENERGY-SAVING SOLUTIONS

### BRILLIANCE/INTELLIGENCE

A versatile family of light fittings with high efficiency T5 linear fluorescent light sources in 3, 4 and 6 lamp configurations, available in long life (24,000 hours) and ultra long life (48,000 hours) versions. Intelligence options include built-in occupancy and daylight controls.

### ENDURANCE

Low energy light fittings with exceptionally long life (60,000 hours), bright white light with excellent colour rendering and comprehensive controllability. Ideal for low and high bay lighting applications and available for indoor and outdoor use.

### RENEW T5

The new ReNew T5 is a truly engineered solution that enables existing fluorescent fittings to be upgraded to use high efficiency T5 lamps with high frequency control gear - backed by a 5-year warranty. As such, it offers a number of benefits over and above T5 adapters.

### LIGHTING CONTROLS

The Autolux Universal Controller is a highly flexible, easy to use, competitively-priced 6-channel controller providing a combination of timed switching, occupancy and response to changing light levels - the functionality of a high-end lighting management system for a fraction of the cost.

### HEATING CONTROLS

Chalmor's family of heating controllers offers cost-effective solutions for all types of heating system including electric, warm air, radiant and wet heating systems, incorporating a range of control functions for enhanced flexibility.



# Do you need to..... Reduce energy consumption? Minimise carbon emissions? Lower energy and maintenance costs? With no capital outlay?

## Addenbrookes Hospital

Addenbrookes Hospital in Cambridge has significantly reduced its energy consumption and carbon footprint by upgrading over 1000 existing T8 and T12 fluorescent light fittings. Chalmor's EasiFit T5 adapters convert the existing fittings to energy efficient T5 light sources with electronic, EMC-compliant control gear. Delivering a payback of just 1.2 years, the project also provides the hospital with substantial maintenance savings, due to the extended life of the lamps.



## Fire Service College

Maintenance-free Endurance light fittings from energy services specialist Chalmor are helping the Fire Service College save around 33% on the energy and maintenance costs of lighting its vehicle workshop. With a 60,000 hour life, the Endurance fittings will not need re-lamping for approximately 19 years, saving over £20,000 in maintenance costs alone. Plus, with a predicted reduction in electricity consumption of 460 MWh during their life, Endurance fittings will deliver a saving of over £22,000 in electricity costs, equating to a reduction in carbon dioxide emissions of 276 tonnes.



## Reaseheath College

Chalmor EMU energy management systems and temperature control sensors are helping Reaseheath College to reduce running costs through improved control of energy consumption and automation of routine tasks. The projected savings on energy and labour costs are expected in the order of £35,000 per annum, giving a projected return on investment of less than 1.3 years.

## Myerscough College

A combination of energy efficient Brilliance T5 fluorescent light fittings and BlueWave two-channel controllers. The fittings are controlled off inline with daylight which is helping Myerscough College near Preston save a predicted £39,000 per annum on lighting costs. The savings on carbon emissions, combined with a fast payback, enabled the College to qualify for a substantial energy efficiency grant from the Learning Skills Council (LSC).



## HM Prison Service

Chalmor has been working closely with HM Prison Service and the Carbon Trust to help the Prison Service meet its Carbon Reduction Commitment (CRC) obligations. Solutions include upgrading older fluorescent lighting to high efficiency T5 fluorescent lighting and replacement of 400W high pressure sodium (SON) lighting with Brilliance fittings in sport facilities.



### Examples of Running Costs

	Current Running Costs	Projected Running Costs with BRILLIANCE	Projected Running Costs with ENDURANCE
No. Of Fittings	100	100	100
Running Hours	8,760	*3,494	**6,155
Annual kWh	419,328	75,479	91,728
Maint Cost pa	£4,259	£328	†£0.00
<b>Total Cost pa</b>	<b>£33,612</b>	<b>£5,661</b>	<b>£6,421</b>

### Examples of Potential Savings

	With BRILLIANCE	With ENDURANCE
<b>Total Savings</b>	<b>£27,191</b>	<b>£28,328</b>
Budget Project Investment Cost	£52,000	£52,000
Payback <i>installed</i>	1.9 years	1.8 years
Payback <i>supply only</i>	1.3 years	1.4 years

\* Savings from occupancy and daylight based upon 7p electricity unit rate  
 \*\* Running hours for the Endurance is based on using Autolux controls  
 † No maintenance expected for 5 years



Chalmor's LifeSaver plan is designed to help organisations implement energy efficient solutions without major capital investment. Instead, the equipment is financed from the savings achieved! LifeSaver aims to reduce the cost of ownership and to make energy saving projects even more affordable - with no capital investment and extended warranty for complete peace of mind there is every reason to start saving now!