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Getting to grips with energy-efficiency

A **SolarGard** product story

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Solar Gard explains the role of solar-control window films as a sustainability solution, demonstrating that energy-efficiency depends on more than just thermal insulation.

Keep cool and carry on: Energy-efficiency depends on more than just thermal insulation.

Increasingly, it is becoming clear that to invest in sustainability is to save money.

At the end of 2010 The Carbon Trust reported that the average payback of **energy efficiency** projects carried out in commercial premises is 48 per cent.

But while the UK government is supporting carbon reduction by introducing grants and green initiatives, these have done little more than skew people's perception of what represents an **energy saving**.

With heavy focus applied to insulation and heating, cooling strategies have been left rather more...

out in the cold.

The hot topic.

The government's Renewable Heat Incentive (RHI) was announced in March 2011 to drastically alter the way heat is generated and used in UK buildings.

It's currently aimed at the business and public sectors, which contribute 38 per cent of the country's carbon emissions, and offers long-term financial support to companies investing in renewable heat installations.

Britain's largest energy users are required by the CRC Energy Efficiency Scheme to start lowering carbon emissions so will naturally be enticed by such offers.

But incentives like the RHI fail to acknowledge that when a **commercial building** is designed, the crowds of people and electrical appliances that then occupy it are not taken into account.

Human bodies and devices such as computers, printers, coffee makers, toasters and refrigerators generate an exceptional amount of heat and cause room temperatures to dramatically increase.

So, instead of heating, most **commercial buildings** need to bring temperatures down in order to maintain a comfortable environment and maintain staff productivity.

Office cooling, namely **air conditioning**, represents a huge energy burden, and can increase a building's emissions by 100 per cent.

So to use it on a daily basis yet take a grant to invest in heating and insulation is



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a notion most people would surely see as perverse.

The reality of air conditioning is that, despite its widespread use, the energy it consumes often goes to waste.

Realistically, without tackling this problem it is unlikely that any commercial building will be able to create a truly energy-efficient environment, no matter how much government grant money it is awarded.

Here comes the sun.

As we all know, when the sun comes out in the UK, it is met with something resembling blind panic.

Whether in the heights of summer or the depths of winter, sunshine causes heat to build up through unprotected glass windows.

These windows then get thrown open to create a through draft, or in colder months, **blinds** will be snapped shut to block out the sun's glare, meaning that lights have to be switched on.

Either way, this behaviour ends up negating the effect of air conditioning, causing wildly fluctuating internal temperatures and eating up a large, unnecessary supply of heat and energy.

Such widespread and basic energy wastage should not be allowed to continue.

Maintaining stable internal temperatures requires more than efficient heating and insulation; businesses need a cooling solution that minimises air conditioning, allows **natural light** to enter the building and helps to block out heat, rather than trap it within the building.

One of the most simple and most cost-effective solutions that can deliver all of these benefits is one you may not have heard of: solar-control window film.

By rejecting up to 82 per cent of **solar energy**, window film can reduce internal temperatures by up to ten degrees.

This stops air conditioning units from being maxed out during sunny spells, meaning that internal temperatures are kept stable and extreme peaks in energy usage are reduced.

Cooling systems can therefore be run more efficiently and inexpensively, reducing a building's cooling load by 30 per cent, or roughly five per cent of the energy bill.

If window film were taken into consideration during the design stages of a new building, savings would be greater still as businesses would reduce cooling requirements from the outset; using smaller, cheaper air conditioning units that are easier to install and maintain.

In plain English, this could mean thousands of pounds in savings to many UK firms.

Love in a cold climate.

With budgets being squeezed and such significant carbon reductions to be made, the heat is on for UK businesses to find meaningful ways to lower emissions.

It is the responsibility of our government to steer them in the right direction.

Improved insulation and heating is, without doubt, an effective means of preventing energy waste, but without considering the likely effects of over-heating businesses are in danger of missing the bigger picture.

While most UK businesses will currently look to insulation as their first port of call for **energy savings**, more vocal support for solutions such as window film by government schemes and incentives, would show these companies that such measures are just the tip of the iceberg.

Solar Gard recently completed an Environmental Product Declaration (EPD)

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which calculated that the carbon payback period for Solar Gard's **solar control** window film is less than 12 months and that the products have a net positive environmental impact.

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