

# Double Glazing Blogger

I'll speak my mind! E-mail me: [glazingblogger@googlemail.com](mailto:glazingblogger@googlemail.com)



## Double Glazing Blogger

Wakefield, West Yorkshire, United Kingdom

22 years old, living in West Yorkshire. I work in the double glazing industry and it's the main source of my content. But I will talk about other business issues, otherwise this would become a very boring site!

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8,499

Monday, November 7, 2011

### Guest Post: Energy Saving Is For Life, Not Just For Christmas

As always, I like to open the floor as it were, to others to be able to contribute on this site. The guest post below focuses on energy efficiency and how the UK's businesses could still be doing more to improve and reduce their carbon foot print. Enjoy!

By Ian Penfold, Architectural Manager, Solar Gard

For many UK businesses, the ENDS Sustainable Business 2011 report makes for uncomfortable reading.

Amid findings that carbon emissions, energy intensity and electricity have all increased over the last twelve months, the report concludes that UK business is 'nowhere near' its target of an 80 percent reduction in greenhouse gas emissions by 2050. Judging by practises currently exhibited by companies across the country, this is not a surprising find.

It was revealed earlier this year that businesses seem to be significantly underestimating the financial benefit of saving energy. This helps to explain why the Carbon Trust found UK businesses are still wasting an astonishing £1.6 billion a year on energy bills.

The energy consumed by UK businesses contributes around 38 per cent of the country's total carbon emissions, and with better business practices a large chunk of this could be avoided. In a time of slow economic growth, these savings would be a major step towards businesses becoming more efficient, more productive and more profitable.

So why does energy efficiency remain such a low priority for so many organisations? In many cases, changing the attitudes and behaviour of staff is seen as too costly, too time consuming or too difficult. But the advice being given on the most appropriate and cost-efficient steps to take also needs to be called into question. At this time of year, most of that advice is on the topic of insulation.

#### The Hot Topic

With winter just around the corner, conserving heat should be high on the agenda for

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every UK business. But surprisingly, despite a wave of government-backed schemes including the Renewable Heat Initiative and the Green Deal, there remains no funding incentive for companies looking to invest in insulation measures. Therefore any organisation that truly sets energy efficiency as a priority will have to bite the bullet and cover the costs themselves.

Furthermore, for most companies, cavity wall insulation is often regarded as the most sensible investment to make. Schemes such as the Carbon Emissions Reduction Target and Warm Front programme, which offer insulation grants to the homeowners market, are very vocal of the benefits and returns that it can provide. But for UK businesses that lack the grants to make multiple energy-saving upgrades, it may not be the change that provides the most enduring cost and carbon reduction benefits.

Whilst cavity wall insulation is a positive step to take, and helps to prevent heat loss to a certain extent, businesses appear to be ignoring another surface that takes up a huge percentage of their wall space: windows.

The outside walls of an office often consist more of glass windows than they do anything else. This fact becomes important when the relative U value of each surface is taken into account.

<http://www.carbontrust.co.uk/news/news/press-centre/2010/pages/uk-businesses-energy-efficiency.aspx>

#### U-Value? U-what?

The U-value of a material defines the level of heat that can be transmitted through it. In

simple terms, the higher the U-value, the more affected your building will be by changes

in the weather. In most buildings, you only have to reach out and touch the surface of your windows to know that an untreated glass surface has a far higher U-value than an un-insulated wall. Therefore in terms of insulation, windows should be seen as the number one priority for energy-conscious companies this winter. The problem is that most businesses will not know how to go about insulating their windows, or be aware of the possibilities available to them.

The most logical step, many believe, is to install low-emissivity (low-e) glazing. By absorbing a significant amount of energy created by heating systems inside the building, low-e glazing is extremely effective at preventing heat loss and keeping energy bills down as a result. However, low-e glazing requires a set of new windows to be installed, a very expensive and un-environmental investment that will make a significant impact on financial and energy ROI.

Fortunately, it isn't the only option that facilities managers can choose from. A new product has emerged onto the market that gives existing windows a superior performance to low-e glazing, and at a fraction of the cost of replacement windows. Yet

despite the major difference it can make to business energy performance, low-e window film may currently mean very little to you.

#### Savings All Year Round



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Window film is a retrofit product so can be applied to existing windows. This eliminates the need for a 'rip and replace' upgrade that requires old windows to be thrown away, contributing to landfill and harming your company's environmental responsibility. This is not just an easier option; it's also around 80 percent cheaper, and by reflecting 63% of interior heat back into the room, there's no compromise on performance either. Additionally with window film, the promise of energy saving extends beyond the winter months, allowing for reduced consumption when the sun comes out, too.

The energy-saving focus is rightly pointed at insulation during these colder months. But it needs to be acknowledged that during summer, internal temperatures dramatically increase due to solar heat gain, and end up being remedied by the use of another costly and energy-hungry solution, air conditioning. Left unchecked, this represents a huge energy burden on businesses that totally negates the energy savings that insulation may provide.

Unlike most low-e glazing, low-e window film is able to keep the office warm in the winter, and also cool in the summer. By blocking a significant amount of solar heat from entering the building when temperatures are high, interiors remain at a stable temperature and the need for air conditioning is reduced. Coupled with its insulation benefits, the result is year round comfort, and a greatly reduced energy burden no matter what the weather is like outside. This can only be positive news for a business' efficiency targets, and more importantly, its bottom line.

### Putting theory into practice

The ENDS Sustainable Business report states that 'It is theoretically possible that new technologies will appear that are efficient and cheap enough to radically alter the [energy] picture' - but does not propose any products that can yet provide the results that are needed. But with strong and immediate benefits available for a relatively low financial outlay, window film is clearly a step in the right direction.

For businesses that are jaded with the mainstream energy-saving options currently being made available to them, it's time to bring lesser-known alternatives out from the cold, and start turning our carbon emissions targets into reality.

at 8:02 PM



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By Double Glazing Blogger

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1. Switch off lights when a room is not in use. This is probably the easiest change you can make: it costs nothing and it can save you up to 15% on your bills by implementing this simple measure.
2. Don't leave office machinery on standby. Turn off your monitor when it's not in use and unplug printers and scanners at the end of the day. A photocopier left on overnight wastes enough energy to print 1500 A4 copies.
3. Turn your thermostat down. Reducing your office temperature by 1°C could cut your heating bills by up to 10%.
4. Use energy-saving light bulbs. Just one can save you £100 over the lifetime of the bulb; they last up to 12 times longer than ordinary light bulbs and give off the same amount of light.
5. Start car sharing with colleagues. Not only will you reduce carbon emissions, you

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can share the stress of the daily commute and the increasingly significant cost.

6. Buy environmentally-friendly company vehicles. Energy efficient cars use less fuel so they produce fewer emissions, as well as saving you money on fuel bills and on road tax.

7. Recycle and reuse waste materials. There is usually a charge for commercial waste collection, so think about how you can reuse materials such as scrap paper and old envelopes before you throw them away. Old envelopes are ideal for internal mail.

8. If you are a retailer, avoid giving out unnecessary carrier bags, or encourage shoppers to reuse them. A carrier bag can take 500 years to decompose so cutting down on the amount of carrier bags you buy will reduce unnecessary waste as well as outgoing costs.

9. Close windows and doors at night to prevent heat loss. A window left open overnight wastes enough energy to drive a small car 35 miles.

10. Don't overfill the kettle at brew time! Heating water uses a lot of energy and boiling more water than you need can cost an extra £20 a year

November 8, 2011 12:44 PM

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