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## Capsol audits effect of solar-control window film

A [Solar Gard](#) product story

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**Solar Gard has brought out Capsol, an energy-efficiency audit tool that helps businesses measure the impact of solar heat-gain on, and the likely cost of cooling, their office buildings.**

The Capsol audit and Solar Gard's corresponding consulting service can be used to predict the impact of retro-fitting solar-control window film and to provide an accurate assessment of the resulting reduction in the building's annual cooling costs.

Capsol is a complex modelling software tool that works by recreating a building's exact properties.

Then, using real local weather and construction-material information, Capsol provides an accurate reading of future heat absorption by the building, as well as any subsequent energy savings once solar-control window film is applied.

Capsol can also estimate temperatures before and after window film is installed, giving customers a deeper understanding of the comfort factors affecting occupants.

Other data supplied by Capsol analysis includes bespoke advice on heating and cooling times, a precise assessment of **CO2** reduction and emissions, and a clear indication of likely peak energy usage.

Peter Reece, managing director of Solar Gard UK, said: 'The Capsol audit and Solar Gard's reports give businesses the means to help accurately calculate the return on investment (ROI) of installing window film over a given period against likely cooling costs.

'Since the most traditional cooling choice is to simply crank up the air conditioning, Capsol helps demonstrate how window film can offer businesses an environmentally friendly alternative that can also save them money.

With UK meteorologists predicting annual temperature increases over the next few decades, the issue of cooling office buildings without increasing air conditioning is becoming an even greater challenge.

To compound matters, impending EU legislation will soon require all businesses to publish details on their carbon footprint.

Reece added: 'The use of air conditioning by businesses will continue to grow unless more environmentally friendly options are explored.

'At present, up to 30 per cent of a company's annual energy bill comes from air conditioning.

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'Businesses need to look at every possible avenue to reduce their carbon footprint.

'Clearly, assessing the impact of window film on an office building and evaluating this in terms of ROI could prove to be a very smart move,' he concluded.

The audit and report take two weeks to complete.

The audit fee is fully redeemable against a future installation of solar-control window film from Solar Gard.

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