

R-Tech Materials is a leading provider of world-class materials expertise. The laboratories at Testing House, provide one of Europe's largest ranges of commercially available mechanical testing equipment. Ineco Energy were tasked with delivering energy savings through the installation of LED lighting & Solar PV panels at Testing House.

Background

R-Tech were considering refurbishing their offices because the existing lighting was old, inefficient and beginning to fail when they heard about the Carbon Trust's - Green Business fund and the capital contributions available.

R-Tech approached Ineco Energy to learn more about the possibility of upgrading to LED Lighting to reduce their electricity bills.



Solution

Early on Ineco identified an opportunity to not only upgrade the lighting but also install solar panels on the roof due to R-tech's location in the South Wales providing excellent solar irradiance levels when compared with the rest of the UK.

A detailed survey of the offices highlighted the need to upgrade the lighting as several of the existing halogen lights were broken and the light levels were poor. Our surveyors captured room dimensions & asset tagged each fitting to ensure that we had a clear picture of the existing environment and the energy that it uses.

Our design team undertook a bespoke lighting design for a variety of rooms with different applications i.e. a canteen requires different light levels to a corridor. This ensured the appropriate lighting was provided for the area used in accordance with CIBSE guidelines. Ineco selected high quality, UK manufactured LED light fittings which enabled us to reduce the number of fittings by over a third!

R-Tech invited several accredited suppliers to quote for the works but selected Ineco Energy as the accredited supplier of choice because our solution was designed for efficiency; to provide the optimum light levels, using the least number of fittings to deliver the greatest return.

Results

Energy Savings
72%

Carbon Savings
442 tonnes

Financial Savings
£ 187,170

"R-Tech Materials prides itself on accurate information, quality service and in-depth knowledge. It was a pleasure to work with Ineco Energy who delivered on those values when installing both LED lighting & Solar PV projects at Testing House."

Director, R-Tech Materials