



Case Study – Industrial Unit

Project	Biozyme Laboratories Ltd Blaenavon, Gwent
Equipment	2 x Gasokol tecSol A-frame mounted horizontal flat plate collectors (4m ²) connected to a 210 litre twin coil unvented copper hot water cylinder.
Details	Biozyme Laboratories bulk manufacture enzymes and biochemicals for the medical industry. Operating from two purpose built units with a combined footprint of 2280 msq. and an annual energy bill of £53,000. The primary energy usage being heating, refrigeration and lighting.
Objective	The company needed to replace an aging heating and hot water system, faced with this opportunity; they took a low carbon solution. With the aid of a loan from the Carbon Trust they installed high efficient boilers, solar thermal to provide water heating, and zoned lighting systems, and shut down procedures for production equipment, eliminating wasted energy.
Achievements	The energy saving systems were installed in 2005. The customer reports that they have delivered cost savings of £4,500 per annum and emission savings of 42 tonnes of CO ₂ per annum. Payback is estimated to be 4.8 years.



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