



Case Study – Youth Hostel

Project	Youth Hostel Association, National Forest, Derbyshire, (http://www.yha.org.uk/find-accommodation/peak-district-sherwood/hostels/national_forest/index.aspx)
Equipment	14 x Gasokol TecSol flat plate solar collectors (28m ²), arranged in two banks, one of 10 and one of 4, plumbed in series, installed on porches. Using a plate heat exchanger the system is connected to a 1500 litre thermal store with a flow meter and a 3 level solar controller. The system has a data logger to enable the customer to monitor the solar collectors' heat output and kW hours produced, on a daily, weekly, monthly and annual basis.
Details	The £1.78 million building opened in December 2007, designed to meet the Youth Hostel Association's intention to bring itself up-to-date to meet the needs of today's travellers. The youth hostel accommodates up to 83 people in 23 two, three and four bedded rooms, each with en-suite facilities.
Objective	The building was designed incorporating a number of environmental features including solar energy to supply hot water for visitors washing and showering amenities. Heating is provided by a wood-fuelled boiler, using locally sourced wood chips.
Achievements	The peak hot water demand for the building is in the region of 2000 litres daily with the solar system designed to provide around 50% of this requirement.

