

SOLAR ENERGY

Phoenix House

This is one of the City Council's largest office buildings. In 1997 it became necessary to replace its ageing boiler plant which had become unserviceable. This project was also an opportunity to include an element of renewable solar energy.

A low NOx gas-fired condensing boiler was installed, together with Viessmann DuoSol vacuum tube solar collectors, which supplement the building's domestic hot water requirements.

The total cost of the project was £21,500 and the annual gas bill has been reduced by about £1,500 saving nearly 18 tonnes of CO₂ emissions every year.



New Walk Centre

Viessmann classic flat solar collectors - model Calorsol-W, 10m² total area.

Installed January 1997 at a cost of £15,000 to preheat domestic hot water supply to 8 storey office block, including restaurant for 1,500 staff. Saving approx. 4,200kWh energy = 700kg CO₂ per annum.

Output and performance are monitored by heat meter equipment which is connected to the computerised Building Energy Management System.

Cossington Street Sports Centre

Hitachi evacuated tube solar collector - model NEG.SK21D approx. 3m²

Project to preheat makeup water for swimming pool. Installed at a cost of £11,700 in September 1995.

Designed to raise a 2,500 gallon tank of water from 10°C to 30°C in 7 days in ideal summer conditions. (Total pool capacity 10,000 gallons.)

