



## Eden Local Agenda 21 Cumbria Green Build Fortnight 2007

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# Domestic Solar Thermal Hot Water System Bampton near Penrith

This Cumbria Green Build Fortnight visit showed-off a modern solar thermal installation at a traditional slate roofed stone cottage. The project has eliminated the need for the householder to use an oil-fired Rayburn in the summer.



The installation is an example of Zen solar panels installed as a drain-back system. It incorporates a simple to use Resol controller, which activates the solar pump when the panel is hotter than the water in the cylinder. Variations of this system can be installed on most types of property with suitable south facing roofs.

Home Call Heating (See Solar Trade Association), will install a range of flat panel and evacuated tube solar thermal systems to generate hot water, particularly as a method of reducing both fuel costs and the CO<sub>2</sub> associated with burning oil or gas. The Bampton example featured equipment from Secon-solar (See website).

Homecall Heating (oil and solar), offers an advisory service, looking at opportunities to reduce dependence on fossil fuels by integrating or transferring to alternative and green technologies, heat pumps, solar, etc, and by concentrating on insulation and reduced demand.

Phil Pennefather also works part-time as the Sustainable Brampton Project Officer, seeking to reduce the environmental impact of that area.



### Contacts:

Phil Pennefather, Homecall Heating, Tel. 07751828980 Email. [pennefather@cybermoor.org.uk](mailto:pennefather@cybermoor.org.uk)

Solar Trade Association: Tel. 01908 442290 [www.greenenergy.org.uk/sta](http://www.greenenergy.org.uk/sta)

Secon-solar: [www.seconsolar.co.uk](http://www.seconsolar.co.uk)