

EARTHENERGY™



Ludgvan



Existing housing stock can present several problems for ground source heating installations. Typically there is insufficient garden available to install horizontal ground loops and access for drilling rigs can be difficult. Tenants are in situ and therefore the drilling operation has to be carefully managed. The houses themselves tend to have low levels of insulation leading to large heating requirements and they rarely have low temperature distribution systems.

Penwith Housing Association carefully chose which of their housing stock was best suited to an EarthEnergy™ system. The 14 bungalows finally chosen had insulation levels improved considerably so as to reduce heat loss and lower heat demand. All of the properties had coal fires, which were costly and not ideal for the elderly tenants.

Using the experience we have gained over the last eleven years, we were able to design, and supervise the installation of EarthEnergy™ systems on this scheme. By specifying Powergen's HeatPlant pack and assisting Penwith Housing Association to make a successful bid for funding under the ClearSkies community grant scheme, the scheme was able to go ahead and later went on to win the South west green energy awards

Ground Loop	<i>2 x 40 metre deep boreholes per property</i>
Heat Pump	<i>3.5 kilowatt Calorex 3500DT – one per property</i>
Distribution System	<i>Wet Radiators</i>
Client	<i>Penwith Housing Association</i>
Mechanical & Electrical	<i>Clatworthy Heating and Plumbing</i>
Commissioned	<i>June 2004</i>