



HUNGERFORD ENVIRONMENTAL  
ACTION TEAM

# HUNGERFORD ENERGY NEWS

*Bringing the Latest Home Energy Stories to You*

## HEAT FROM THE DEEP!

When DG bought his 400-year-old thatched, "chocolate box" oil-centrally heated cottage in Inkpen a few years ago, he resolved to make it as energy efficient as he could and fossil-fuel free. What has followed has been a major energy makeover project.

He began by removing the ground floor concrete floors to a sufficient depth to install 100mm of floor insulation topped by "wet" underfloor (UFL) heating pipework and a final screed. The pipework was installed such that the heating



could be run at a low temperature, so the heat source, a British-made

Kensa Ground Source Heat Pump, can run as efficiently as possible.

The cottage purchase included a small paddock area on the

other side of an adjacent bridleway, which was a perfect area for the underground pipework to provide the heat pump with its *ground source*. DG recalls "The heat pump

*needed not only to replace the heating of the old oil boiler but also existing wood burning heaters. The thatched roof*



*means that the solar panels we hope to install soon will need be ground-mounted in the garden. Along with batteries, the aim is to provide power for the heat pump and other electrical appliances in the home."*

DG says it has been a demanding project so far, taking up more time and expense than anticipated. He remains optimistic that it is all going to be very worthwhile for years to come in comfort, cost *and also for the climate.*