

# Meeting of Freeland Village Hall

## Sustainability Sub-Group Monday 8<sup>th</sup> March 2010

Present: Martin Shann, Neil Edwards, Martin Merritt, Ray Tollady, Colin Smith

### 1. Energy Efficiency

The group discussed with Ray their thinking on energy efficiency, which is to design to 2010 Building Regulations or better. Ray confirmed that the current cost estimates have been made on the basis of conformance with the 2006 standards and that it was likely that going to the new standards would increase the cost.

Martin (M) explained that the Regulations do not specify how increased efficiency is to be achieved. It can be done in two ways, by improved levels of insulation and tightness, and/or by using renewable technologies. He outlined the strategy that he has been working on. This has two elements:

- A modest improvement in insulation and tightness, that will not hugely increase construction costs and of itself go some way towards meeting the 2010 standards
- Installation of an electrically driven ground source system augmented by solar PV. This will require significant additional funding but if this can be obtained, as previously noted, due to the Feed in Tariffs will significantly reduce long term running costs

The use of a ground source heat system will require under floor heating (although this will work equally well with a conventional gas boiler) Ray confirmed that such a system was consistent with his current thinking on the the overall design which included a suspended wooden floor as asked for by users.

It is thought that adequate ventilation can be achieved by the installation of passive “ventilation stacks” along the roof line and that this is more acceptable than the alternative of a powered heat recovery unit.

### Actions

1. Martin (M) will finalise his Energy Strategy and circulate this to the VH Working Group.
2. Neil will produce an outline Mechanical Design.
3. These will enable Ray to proceed with the detailed design and enable the eventual completion of Part L of the Building Regulations submission and will also provide an estimate of the cost of a Ground Source Heat Pump System and PV panels.
4. Jo will prepare a list of the measures that effect the BREEAM (BRE Environmental Assessment Method) rating.
5. Martin S and Colin will meet next week to start preparing applications for funding for the Ground Source/ PV heating system

### Next Meeting

No meeting was arranged but the sub-Group will continue working using email.