

## LECHMERE

YEOLAND LANE, YELVERTON, PL20 6BX

RIC AND SONJA CHEADLE



SOLAR PV, WOOD BURNER, SOLAR THERMAL, INSULATION, LOW ENERGY LIGHTING

Ric and Sonja Cheadle are interested in new technologies and in saving resources. They decided to install both solar thermal and solar PV for their home. In May 2009 they had the solar water system mounted on their roof. In September of the following year a 4KW ground mounted solar PV array was installed in their garden, after obtaining the necessary planning permission.



### Energy reduction and conservation:

#### Insulation:

- Draught proofing
- Insulated loft and walls (cavity insulation)
- Double glazing

#### Energy saving devices:

- Low energy bulbs and lighting and energy efficient appliances.
- Energy monitoring, measurement and heating and hot water controls.

Rob and Sonja also reduce energy needs through switching it off etc.

### Energy generation:

#### Solar PV:

- 4KW solar PV panels ground mounted, with variable angle.
- Generating approximately £1400 per annum

#### Solar Thermal:

- 1,5 KW peak output.
- Heats all hot water between May and October

#### Biomass:

wood stove (7KW with back burner – burns wood or solid fuel)

### Technical details:

4KW ground mounted solar panel array (variable pitch).

### Installer:

The Solar PV panels were installed by SourceRenewable. The Solar Thermal system was installed by Ric

### Costs and benefits

Solar PV Panels: £14000 investment

Solar Hot Water: £1500 investment

Payback for PV panels: under 10 years

Payback for solar hot water: under 10 years

### Advice sought:

Via the internet

### Lessons learnt:

Don't delay!

### Contact Details:

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