

Transition Town Berkhamsted

Greening your Home



Time for questions at the end, and over coffee.

Please stay for refreshments from 9pm, any
volunteers?

Please help us with running costs, etc, by
making a donation. Suggested £3 per person.

Thanks, enjoy the evening.



Home Eco Tips

21 October 2009

Jon Rollit

Eco Lessons Learnt Over the Years



1. Stop as many drafts as possible
 - *Taping up gaps in old Crittall windows can make a huge difference!*
2. Low energy lighting
 - *But still turn lights off in rooms not being used!*
3. Insulate as much as practically possible
 - *Cavity walls and the loft*
4. Fit Thermostat radiator valves
 - *Put another layer on rather turning up the heat!*
5. Wood burner/ open fire
 - *Ideally using free logs*
6. Secondary or Double glazing
 - *But consider the return on investment carefully*

10 Castle Hill Avenue



Before - 2007

After - 2009



10 Castle Hill Avenue



Before - 2007



After - 2009

10 Castle Hill Avenue

Eco Features



- High levels of insulation
 - *Including the garage door*
- Double Glazing with low U value glass
- Solar Hot Water Heating
- Rainwater Collection
 - *For flushing toilets and watering the garden*
- Wood burning stoves
 - *To be installed*



10 Castle Hill Avenue

What has worked?



- Hard to say as we moved back in a month ago!
- Roof insulation working very well
 - *Loft room stayed comfortable over the summer*
 - *Main part of the house nice and cool on hot days*
- Solar Hot Water over the summer
 - *Produced enough hot water for a shower most days*
 - *Not sure about return on investment*
- Draft proofing
 - *Plugging gaps as the build was taking place*
 - *Keep nagging the builder!*

10 Castle Hill Avenue

What hasn't worked



- The first builder
 - *Can recommend a good one now!*
- Mobile phones do not work inside due to foil backed insulation used
 - *Really frustrating!*

Things to consider next time



- Use of more sustainable materials
 - *This will always be a compromise*
- Even more insulation
 - *go for a passive house if possible*
- Heat recovery system

Case Study – 4 Park Street



- What have we done?
- Solid Wall insulation
- Solar Thermal
- Wood Burning Stove



Measures to Reduce Energy Consumption and Impact



ELECTRICITY

- Signed up to Good Energy – 100% renewable
- All light low energy, including spot downlighters
- Bought energy monitor

HEAT

- New timber highly insulating windows
- Flat roof insulation in Kitchen and Dormers
- Extra-thick carpet underlays – rubber crumb made of car tyres.
- Insulation of loft areas and loft hatches
- Insulation of solid wall (internally)

RENEWABLES

- Solar thermal hot water system
- Wood burning stove

Wall Insulation - Considerations



- No straightforward way to insulate solid walls
- Hard to get grant funding
- Risk of condensation
- Insulate on the inside or the outside?
- Payback period is typically long
- Internal - Disruptive and lose space

Wall Insulation



Insulated plasterboard is most space efficient

Radiator pipe buried in external wall, now insulated and it works!

Rising damp prompted us to take action

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