

Appleby Magna Thermal Imaging Project

Appleby
Environment

Appleby
Magna Parish
Council

**Communities
Cutting Carbon**



Appleby Magna??

- Rural village, c. 500 houses
- Mix of housing types inc:
 - historic buildings
 - modern executive homes
 - social housing
- Socially mixed:
 - farmers, ex-miners
 - commuters
 - retired



Working Together

Appleby Environment

- Longstanding community group
- Working on a range of issues
- 30+ supporters
- Enthusiastic volunteers

Appleby Magna Parish Council

- Systems for managing tenders, contracts, budgets
- Reassurance of 'community interest'
- Allayed privacy concerns

New Approach

Individual Problem?

- We all know energy saving is important
- There is lots of information out there
- But most of us don't make the changes needed

Shared Problem?

- Thermal imaging of our community
 - ▣ New, visually engaging approach
 - ▣ Significance of us all making changes
 - ▣ Simple solutions not high pressure sales

Martin Hosier of TS Thermal Survey

“This has been a really unusual project.

It is interesting to compare buildings of all types and ages within one community”



What we Wanted to Achieve

- Make energy saving a community issue
- Make people feel their individual actions added up to something bigger
- Provide people with information & options on their own property
- Analyse results at community level
 - ▣ No-one named and shamed
 - ▣ Motivated to take action

Explaining Our Approach

- Before survey
 - ▣ Leaflets door to door
 - ▣ Parish News & village website
 - ▣ Local press
- Before exhibition
 - ▣ Repeat

A Thermal Image of Appleby

Appleby Environment & Appleby Magna Parish Council

The Parish Council, supported by Appleby Environment, has been successful in obtaining money from the County Council & Rural Community Council for a thermal imaging survey of buildings in Appleby. This will take place in the next few weeks - exact dates depend on the weather. No access to property is required and all findings will be presented anonymously.

During such a cold winter we are all concerned with wasting money on our energy bills while still keeping warm. This survey will help us identify where we are losing heat from our houses, showing us how we can save energy. This not only benefits our finances, but also helps to address climate change (which is still happening despite the weather!).

If your property is visible from the street then it will be surveyed automatically by a car mounted camera or from its boundary using a hand held camera. Some houses, such as those with long drives, would require access onto private property and will not be included automatically. If you live in a house like this please could you let Marilyn or Sonia know straightaway (details below) if you are happy for the surveyors to come down your drive to obtain an image of your house.

There will be an exhibition in the Church Hall on **March 5th** with display of the findings and lots of practical advice.

To find out more about Appleby Environment's activities or how you can help with this project, visit our web page on the village web site at www.applebymagna.org.uk.

Appleby Environment

Chair: Sonia Liff, 01530 272327, sonia@applebymagna.org.uk
Secretary: Marilyn Duxdale, 01530 270816, marilyn@applebymagna.org.uk
Treasurer: Michael Dyer, 01530 270857, michael@dyer23.org.uk

Thermal Imaging Project Q&A



How and when will the survey be undertaken?

The images have to be taken during the hours of darkness and when the temperature is below 5°C. Typically surveys will be undertaken between 1pm and midnight but if weather conditions have delayed the survey then these hours may be extended.

The survey is being undertaken by a private company selected through a tendering process by the Parish Council. You will not be contacted by the company.

How will the results be made known to villagers?

The public exhibition will focus on the overall issues raised in the context of reducing carbon footprint using examples of houses which cannot be identified or where we have the owner's permission.

Every house that has been surveyed will have access to their image for a small cost. Details of the overall results will be published on the village web site.

How will possible improvements to insulation be identifiable to individual house owners?

In two ways: the public exhibition will highlight improvements common to certain types of houses. Household can assess these against their own property.

Secondly it may be possible to commission additional specific reports for an individual house indicating the financial saving per year for a number of measures to reduce heat loss. These additional surveys will be available at around £20 per property, a substantial discount on any commercially available survey.

How much of my house will be surveyed?

The survey will be of the main elevation facing the road. Any further information will be gained by extrapolating from this image to cover the remaining property.

Grant to help show wasted energy

AN APPLEBY Magna Environment have been given the Communities grant to produce a thermal image of all the houses in the village. The images gathered from the survey will then become part of an exhibition to be held on Saturday March 5, in Appleby's Church Hall. The exhibition will give practical help on how to keep the heat in - helping residents to stay warm and save money.

live there are ways to save energy - and lots of them are inexpensive and simple to do. "Heating houses is also a major part of household energy use so we also want to use the aspect of Appleby's carbon footprint. As a village we can then think about how to reduce our impact on the environment." The grant was awarded to the 21st by the Rural Community Council and the county council as part of a countywide initiative.

Information Byway, c/o 23 Millers Lane, Appleby Magna, Southcote DE12 7AA

Thermal Images of a Whole Village Exhibition
5th March
Appleby Magna Church Hall

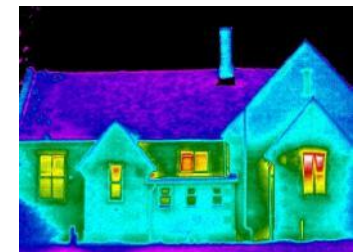
Huge Heating Bill this Winter?

The Thermal Imaging Survey results may help stop the heat going through the roof next year!

Exhibition and Displays at Church Hall
Appleby Magna
Saturday 5th March 11:30am to 3:30pm
See your own house - Admission is free

Supported by a Climate Friendly Communities grant from the Communities Cutting Carbon project, run by Leicestershire County Council and the Rural Community Council

Appleby Parish Council, Appleby Environment
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Appleby Magna, Southcote DE12 7AA



The Benefits of Publicity

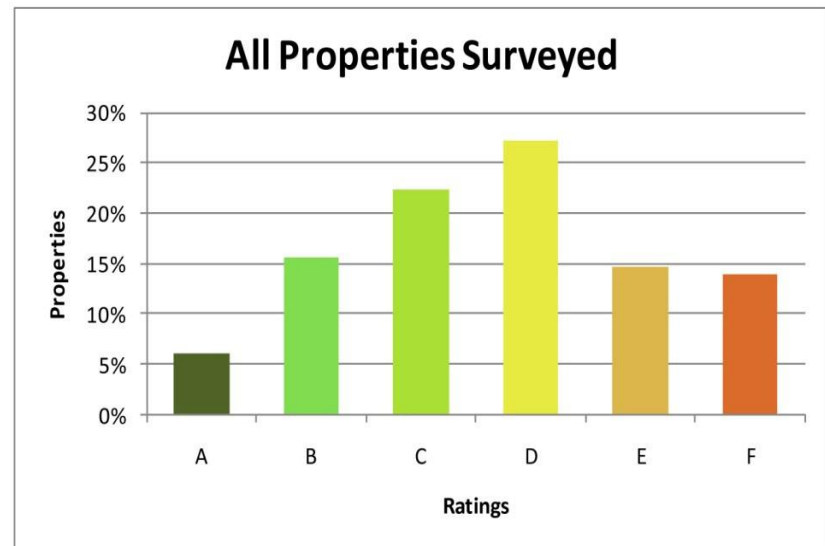
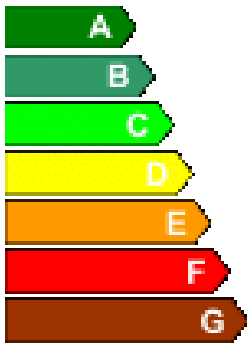
- Everyone knew imaging was happening & why
- Positive response
 - Only 1 person asked not to be included
 - Many invited us onto their land to get a better image
- High turnout for event
- Village talking point before the event

The Imaging Process

- Engaged contractors TS Thermal Survey Ltd
- Pictures taken over four evenings in January
- We provided list of houses, location, access etc
- Images linked to spreadsheet of addresses
- Specialist software used to provide rating for houses (A-G)
 - ▣ This allowed us to produce graphs of results by housing type/road etc

Preparation

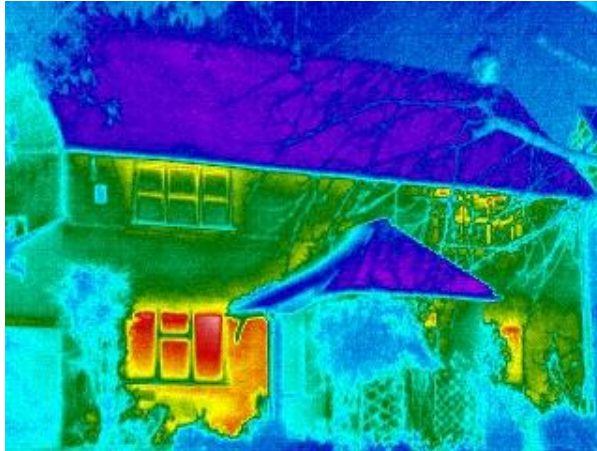
- Significant effort up-front so we could use the images as we wanted



Energy Grade distribution for all houses in Appleby

Analysis of Images

- Had to learn to ‘read’ images
- Combined this with local knowledge
 - Age of properties
 - Property types
 - Personal contacts



Spreadsheet

Similar Age, Different Developer

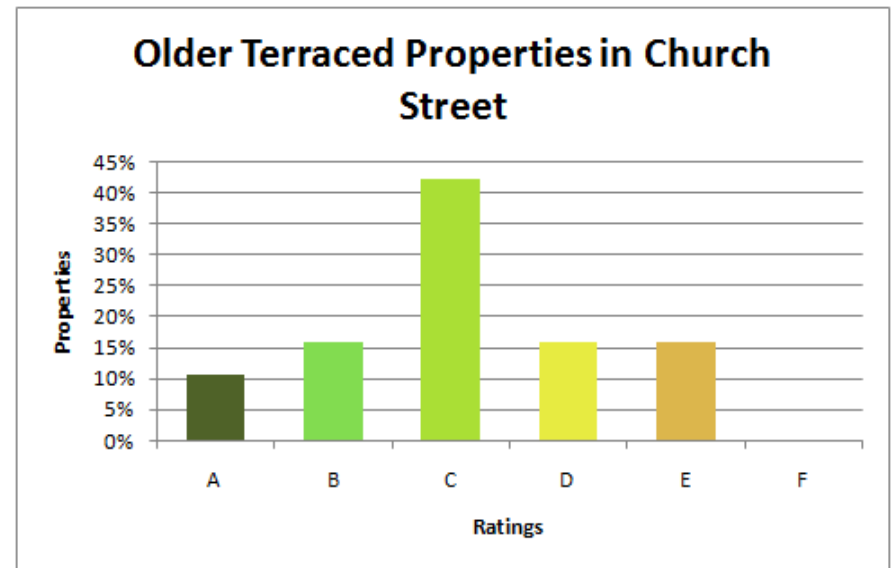
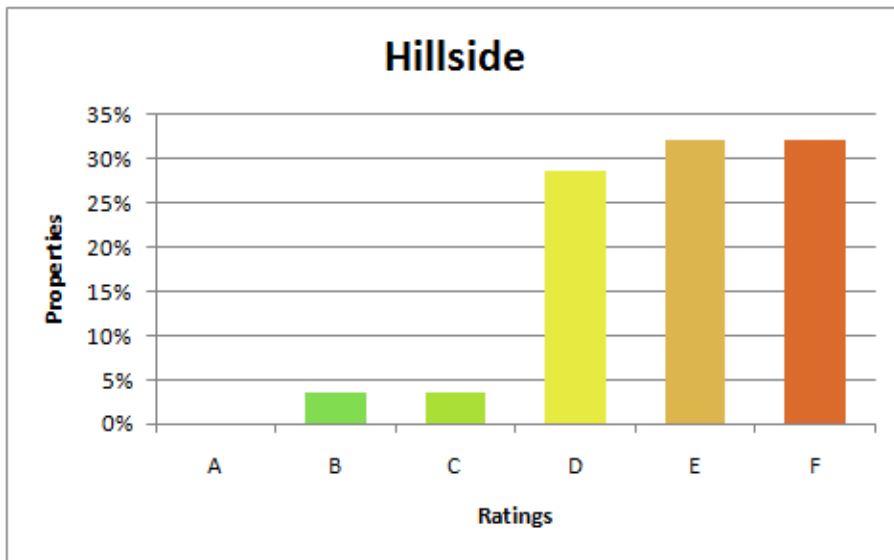
Didcott Way



Garton Close



1960s vs Victorian



Engaging People via the Exhibition

- Display panels
overview of findings
- Rolling presentation
of all images (487)
- Opportunity to view
image of own
property
- Talk to the Surveyor



Green Achievements

- Generated interest in ‘mundane’ topic of insulation by using thermal imaging
- Demonstrated
 - ▣ new houses not always better than old
 - ▣ houses can look similar, act differently
 - ▣ ‘simple’ solutions like closing curtains make a difference
- Changed people’s attitudes towards their home’s insulation
 - ▣ Comments like ‘I didn’t realise my cavity walls were still letting out heat’

Community Achievements

- Major talking point in the village
- 157 people attended the Exhibition
- Stands from RCC, NWLDC, National Forest extended interest and information
- Tea & biscuits kept people talking!
- Sent out over 70 images after event

- Recruited supporters to Appleby Environment
 - ▣ More active support for our other projects on transport and local food

How we Achieved It

Volunteers and Supporters

- Our volunteers and supporters backed by Parish Council
- Twelve volunteers worked directly on the project
 - ▣ over 160 hours, worth £1,120

Communities Cutting Carbon grant

- Communities Cutting Carbon fund grant of £4,250
 - ▣ covered 73% of costs
 - ▣ This allowed us to engage professional contractors making the detailed analysis possible

Legacy

- We have
 - ▣ Made images available to householders
 - ▣ Put our analysis on our website
 - ▣ Negotiated discounts for people who want more detailed reports
 - ▣ Circulated information on what can be done
 - ▣ Shown the potential for the community to reduce its carbon footprint

What Next?

- We have raised awareness and interest and provided information ... But we need to keep up the momentum
- Planning Autumn events including:
 - ▣ Having an 'Open Eco-houses' event where people can visit energy efficient houses
 - ▣ Identifying sources of low cost materials; DIY-helpers; and local trades people
 - ▣ Targeted leaflets aimed at those in different housing types