

Thermal Imaging and Home Energy



Thermal Imaging and Home Energy



Aerial Thermal image

Home Energy Web Portal

Aerial Thermal Image



- Captured thermal image of whole city from air.
- First carried out in 2001
- Organised updated flyover last year.

Aerila Thermal Imaging – CITY View





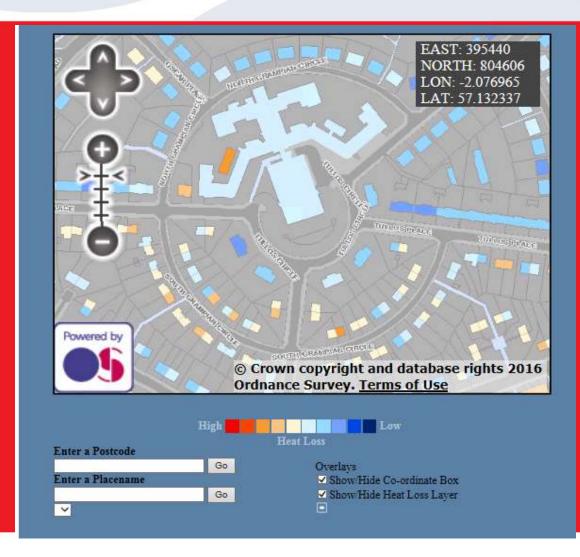




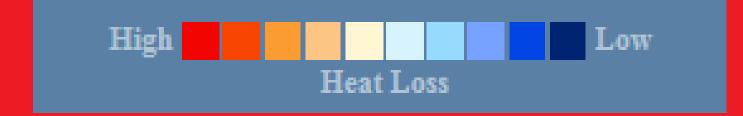
<u>http://www.parthiansystems.co.uk/abe</u> rdeen/indexOS.html



Aerial Thermal Image – Web Search Tool



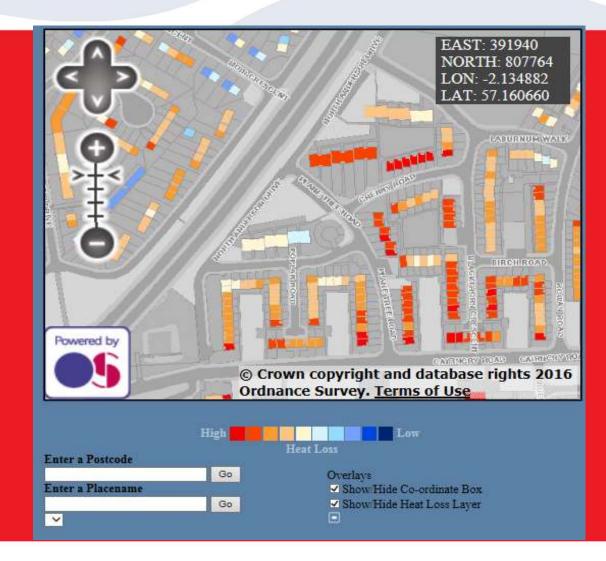




Aberdeen City Council 2006



Aerial Thermal Image – Web Search Tool





Home Energy Web Portal

• A Pilot Project to determine viability of Thermal imaging as an engagement tool



Aims:

- To utilise infra-red thermology in order to engage householders and encourage action to make their homes more energy efficient, or seek advice on behavioural changes.
- To develop a web portal for householders to view thermal image of their home, along with energy information including, indicative EPC banding, improvement measures, cost and savings of measures, carbon emissions, further advice and support (next steps).
- **D** To monitor the effectiveness of web portal in engaging householders
- To provide lower cost data collection on high volume of dwellings informing Local Authority on energy efficiency, carbon mitigation and fuel poverty, which will enable improved schemes to help meet targets in these area.

Aberdeen Home Energy Web Portal



The Scheme

□ Capture c5,500 thermal images of dwellings within Aberdeen City



- Develop web portal to allow householders to view image, along with energy performance and enegy saving data
- Monitor effectiveness of engaging householders with controlled marketing campaigns.
- Produce energy portfolio to inform Aberdeen City Council

Aberdeen Home Energy Web Portal Pilot



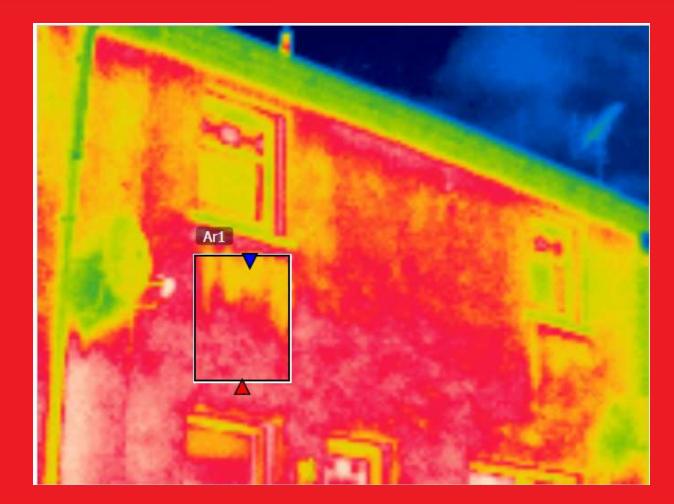
Benefits:

Make energy visible Quick rating/assesment of properties Potentially save money Make for more informed decision making Engage householders Inspire householder action ?

Environmental 8,902 kWh p/y Con-3667 kg p/y Cost £347.80 p/y

irtenvision.com





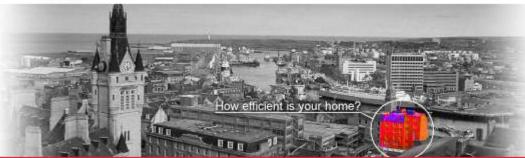


http://www.myadhere.co.uk/









Do you have an invitation code?

If you have received on invitation letter from us, please cell mes on 0608 505 2282 for your code.



Have you used the service before? Log in Nere

Has my home been surveyed?

Check here to see if we have done a survey on your home energy use yet. Please enter your postcode.

Check

What if I have a question?

We will do our best to provide all the support you need using the service and help understanding what your home report means. <u>Just visit this help page</u>.

What is ADHERE?

AGHERE stands for Aberdeen Demestic Home Energy Reporting Engine. This site allows you to were a thermal image of your home and see where you are losing energy. In addition to this the site will estimate your current EOC and highlight potential serving you could make. As part of the Aberdeen City Councils initiative to help you and other Abderdeen residents better understand their Home Energy efficiency.

Over 7000 homes in the Aberdeen region have been surveyed. If your property has been surveyed the data is evailable to you free of charge.

If you need help please call Home Energy Sectiond on OSUS 808 2282 or <u>chek here.</u>

What will you see?

If we have imaged your home you will see a heat survey of your home. Along with this will be calulations representing your home energy, with your EPC reting information.

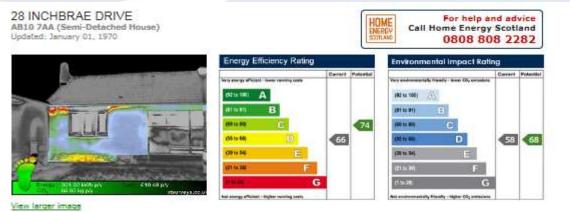
What if the information is wrong?

If the information we estimate for your home is incorrect, for example the type of heating you have installed, you can simply call Home Energy Sections on 0808 805 2282 and they will update the information for you.

We will then recellulate your servings, update your home report and estimated improvement guides based on the new information. This will allow you to make the best pessible decision about any home improvements.

You can learn more here





Home energy features

Calculations are based on assumptions and SAP2012 formula results.

The following potential savings have been based on calculations and on assumptions about your property.

If these are incorrect please call 0808 808 2282 to update them. If improvement states - No improvement available - this suggests no financially viable improvement is available. In this instance Cost savings refer to the potential saving achievable if the property was upgraded to current building regulations. (Which may be achievable but financially unviable)

Walls





Windows Double Glazed Glazing (1) Chanos Cost savings Improvements (Heat loss value:) £89 Per year (Source: assumptions based on council date) Standard 🔻 4.8 1.0 Current Heating (Condensing Boller) Make/model unknown (i) Change Improvements (Source: assumptions based on council date) As fuel costs rise, having an efficient and cost Standard T effective heating system is vital, and it's one Cost savings 100 of the main steps you can take to reducing your £364 Per year carbon dioxide emissions. Upgrade your boiler or Current heat system to an A-rated system to start saving money. Lighting Lighting (1) Change Improvements (Efficiency: 0%) You can cut your lighting bill and energy use by (Source: assumptions based on council date) changing which bulbs you use and how you use Cost savings Standard 🔻 them. Houses typically use a mixture of £75 Per year 100 standard light fittings and downlighters or spotlight fittings. Energy efficient bulbs are ▲ Current available for both types of fittings. Draught proofing Draught () Change Improvements Cost savings (Efficiency: 100.00%) £0 Per year No improvements, draught optimal. (Source: assumptions based on council date) Standard 🔻 100 Current The information contained on this page is estimated based on the thermal image and assumptions about your property construction, heating type and insulation levels. A visual inspection is recommended to verify this information.

Ask us a question

If you have a question, a request or require any help making decisions concerning any improvements please ask us here...

Enter ask what you want here...

Submit



Outcome:

Increased engagement with householders leading to increased actions, providing more affordable warmth and/or reducing carbon emissions.



Response

Neighbourhood	Not Looked up	Looked up	Count	% engaged
Altens	64	17	81	26.5
BRIDGE OF DON	654	338	992	51.7
Cove Bay	171	64	235	37.4
GARTHDEE	1630	312	1942	19.2
HEATHRYFOLD	121	46	167	38
TILLYDRONE	1248	132	1380	8.9
WOODSIDE	89	35	124	39.3
Other	1608	280	1888	17.4
Grand Total	5585	1224	6809	21.9

Outcome part achieved...could have done better

Click to edit Master title style





Questions ?

Kevin Christie Senior Domestic Energy Officer Abedeen City Council T: 01224 213005 E: <u>kevchristie@aberdeencity.gov.uk</u> www.aberdeencity.gov.uk