

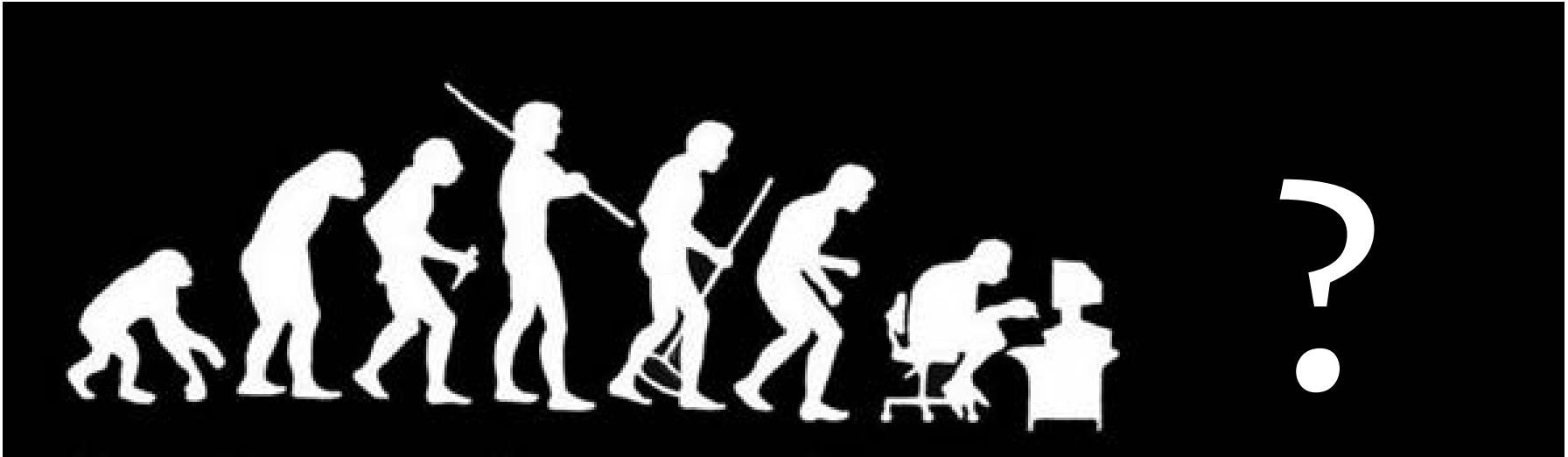


The Lancashire Story

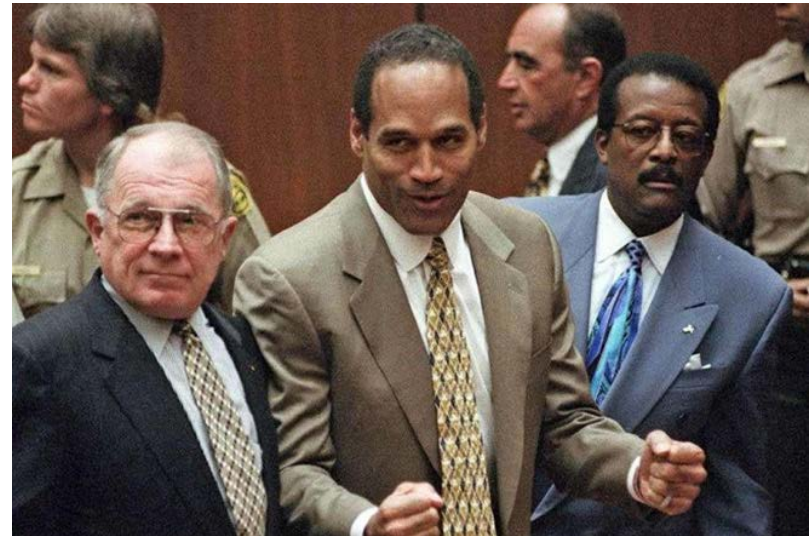
Stuart Pye

Home Improvement and Energy Solutions Manager

Chair of Lancashire Home Energy Officers Group



1995





H.E.C.A.

Home Energy Conservation Act

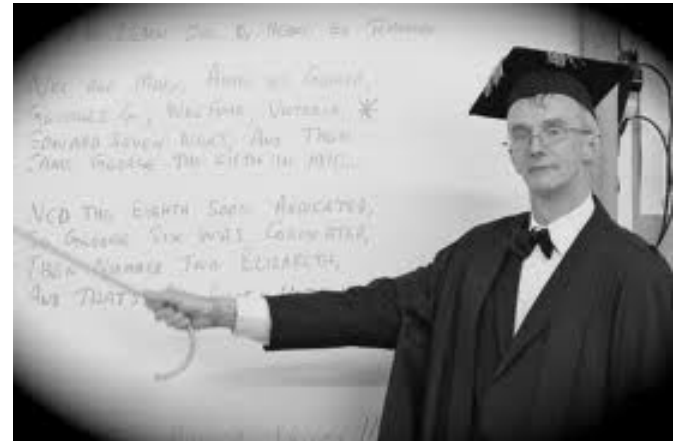
HECA
Officer



HECA Act 1995

Report (setting out energy conservation measures that the authority considers practicable, cost-effective and likely to result in a significant improvement in the energy efficiency of residential accommodation in its area. All properties across all tenures. Data difficult to obtain).

To publish the report and to send a copy to the Secretary of State for the Environment





30 % Improvement
10 year period



Report each
year



COOKBOOKS

YOU'RE DOING IT WRONG



HOME ENERGY
OFFICERS NETWORK



CAN



Carbon Action Network
reducing carbon emissions and fuel poverty



Carbon action news

Issue 40 - summer 2014



Best Practice

Funding

Consultation
Documents

1997



Katrina and the Waves

Eurovision Song Contest

"Love Shine a Light"

the most successful Eurovision entry ever.

The Birth of

- * The first joint scheme with Energy Officers across Lancashire
- * Bulk discount insulation scheme



**millenergy**

Previous Funding Streams

- * HEES

- * Warm Front

- * CERT

Carbon Emission Reduction Target

- * CESP

Community Energy Saving Programme



2008





ECONOMIC CRISIS

affects the entire universe



CLASP. Environment
Resilience
Resources
& Support

Supporting Local Authorities and the public sector

NI 186 – Per Capita CO₂ emissions in the local area



NI 187 - Tackling fuel poverty - percentage of people receiving income based benefits living in homes with a low energy efficiency rating



Re forming Lancers - L.H.E.O.G.



Several Milestones

- * Lancashire Insulation Scheme
- * Additional £800,000 off DECC



- * Warm Homes Healthy People
- * Continued through Public Health
- * £500,000



Boiler Repairs





Events

Food packs and Emergency Packs

Fuel Poverty



People Power

Fuel switching – tariff switching

Expensive fuel

Fuel poor worst tariff



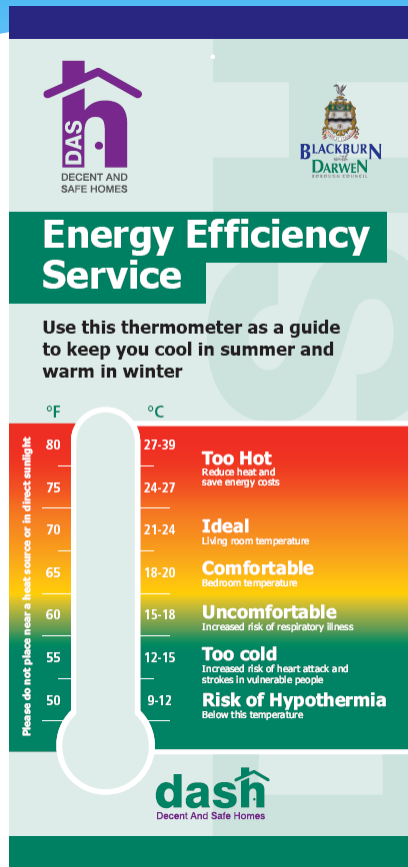


TECHNITHERM®

**WALLTITE®
Spray Foam Insulation**



Affordable Warmth



- * 18-24°C - No risk
- * Below 16 °C – increase in respiratory infections
- * Below 12°C - increase in blood pressure/viscosity
- * Below 9°C - after 2 hours core body temp falls – danger of hypothermia
- * Most people spend more than 90% of time indoors

Excess Winter Deaths



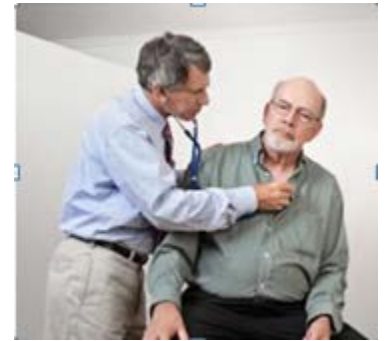
Affordable Warmth

Statistics show that in Britain, a cold spell during a mild winter is followed:

2 days later by a sudden rise in heart attacks

5 days later by a rise in the number of strokes

12 days later by a rise in respiratory illnesses

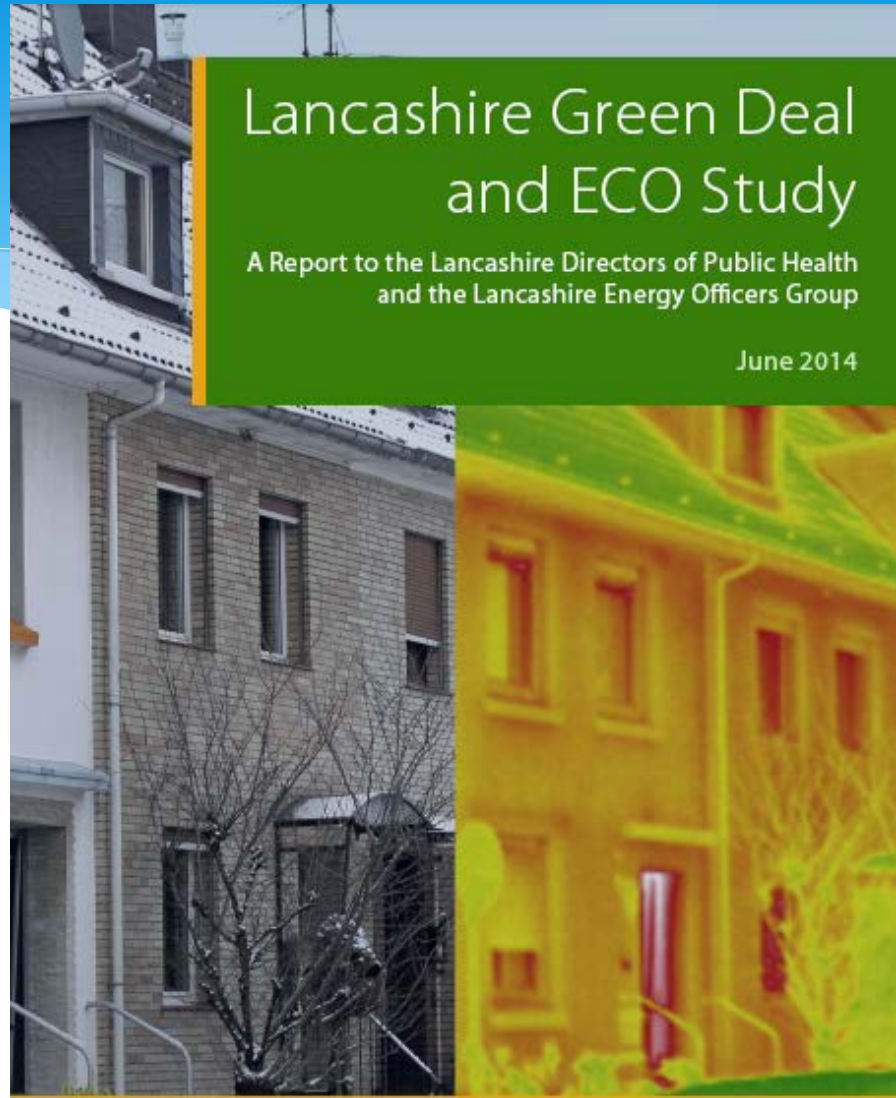


2013 - 14

Lancashire Green Deal and ECO Study

A Report to the Lancashire Directors of Public Health
and the Lancashire Energy Officers Group

June 2014



2014

CLASP. Environment
Resilience
Resources
& Support

Supporting Local Authorities and the public sector

Blackpool Council

CODE OF CONDUCT FOR SOLID WALL INSULATION PROJECTS



A Contractors' Code of Conduct for Solid Wall Insulation Retrofit Projects on Traditional Buildings

DRAFT 2 – Prepared for Blackpool Council by NDM Heath Ltd and the STBA, July 2014

The Future



LHEOG



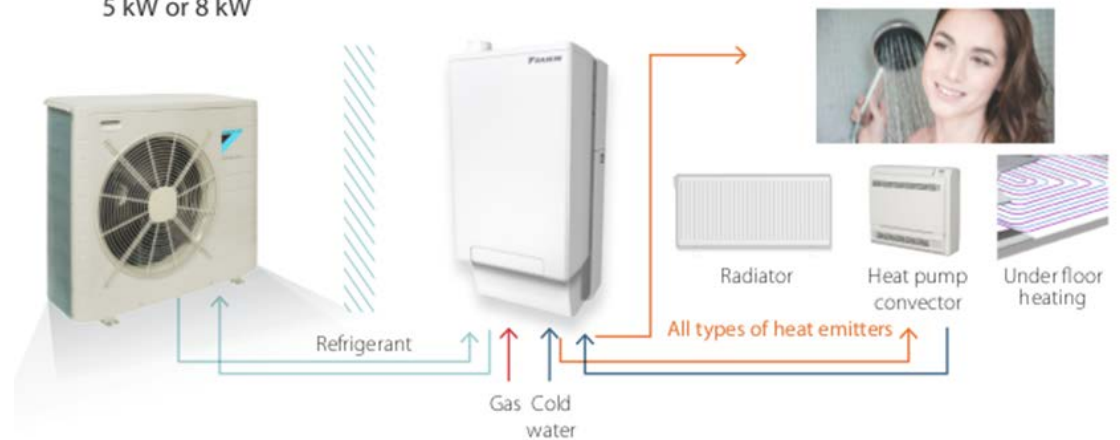
4 NAVITAS



Daikin Altherma
Heat Pump outdoor unit
5 kW or 8 kW

Gas boiler
DHW 33 kW / CH 27 kW

Space heating up to 80°C
Domestic hot water heating



Challenges

- * Ageing Population 1 in 4 born today reach 100
- * Increase in fuel poverty



Private Rented Sector

Now greater than
Socially rented

Worse conditions found



2050 Target

Britain no longer
reliant on gas

1,625,000 boilers annually
will disappear in favour of
other heating



Health Challenges

1,000,000 elderly suffering from dementia

Need to keep them in their own homes.

Above 85 spend 85% of time in their home

Impact on fuel poverty



Scale of Fuel Debt

37,500

Q4 2012

Q1 2013

Q2 2013

GAS

1,358,764

1,477,765

1,555,968

ELECTRIC

1,194,853

1,292,776

1,448,577

Pre-Payment Meters April - June

2013

2,000

DEBT

REQUESTS

TOTAL

GAS

57,978

14,231

72,209

ELECTRIC

60,839

14,390

75,229

New Fuel Poverty Consultation

Cutting the Cost of Keeping Warm – 7th October 2014



Annual Income

After Tax and Housing Costs

*£19,707

*£9,330



Energy Needs

£1,242

£1,513



Targets



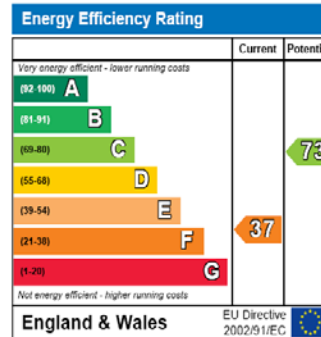
Energy Performance Certificate



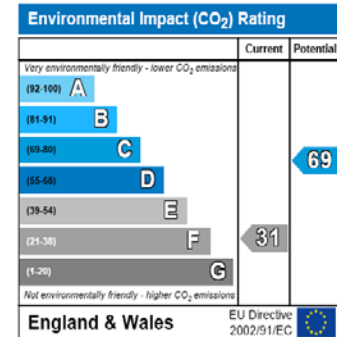
17 Any Street,
Any Town,
County,
YY3 5XX

Dwelling type: Detached house
Date of assessment: 02 February 2007
Date of certificate: [dd mmmm yyyy]
Reference number: 0000-0000-0000-0000-0000
Total floor area: 166 m²

This home's performance is rated in terms of the energy use per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon dioxide (CO₂) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills will be.



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

Estimated energy use, carbon dioxide (CO₂) emissions and fuel costs of this home

| | Current | Potential |
|--------------------------|---------------------------------|---------------------------------|
| Energy Use | 453 kWh/m ² per year | 178 kWh/m ² per year |
| Carbon dioxide emissions | 13 tonnes per year | 4.9 tonnes per year |
| Lighting | £81 per year | £65 per year |
| Heating | £1173 per year | £457 per year |
| Hot water | £219 per year | £104 per year |

Based on standardised assumptions about occupancy, heating patterns and geographical location, the above table provides an indication of how much it will cost to provide lighting, heating and hot water to this home. The fuel costs only take into account the cost of fuel and not any associated service, maintenance or safety inspection. This certificate has been provided for comparative purposes only and enables one home to be compared with another. Always check the date the certificate was issued, because fuel prices can increase over time and energy saving recommendations will evolve.

To see how this home can achieve its potential rating please see the recommended measures.

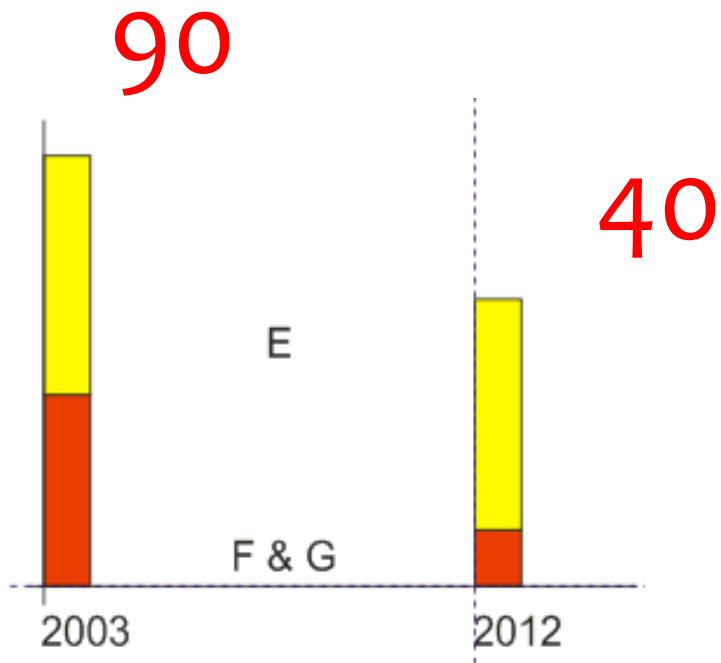


Remember to look for the energy saving recommended logo when buying energy-efficient products. It's a quick and easy way to identify the most energy-efficient products on the market.

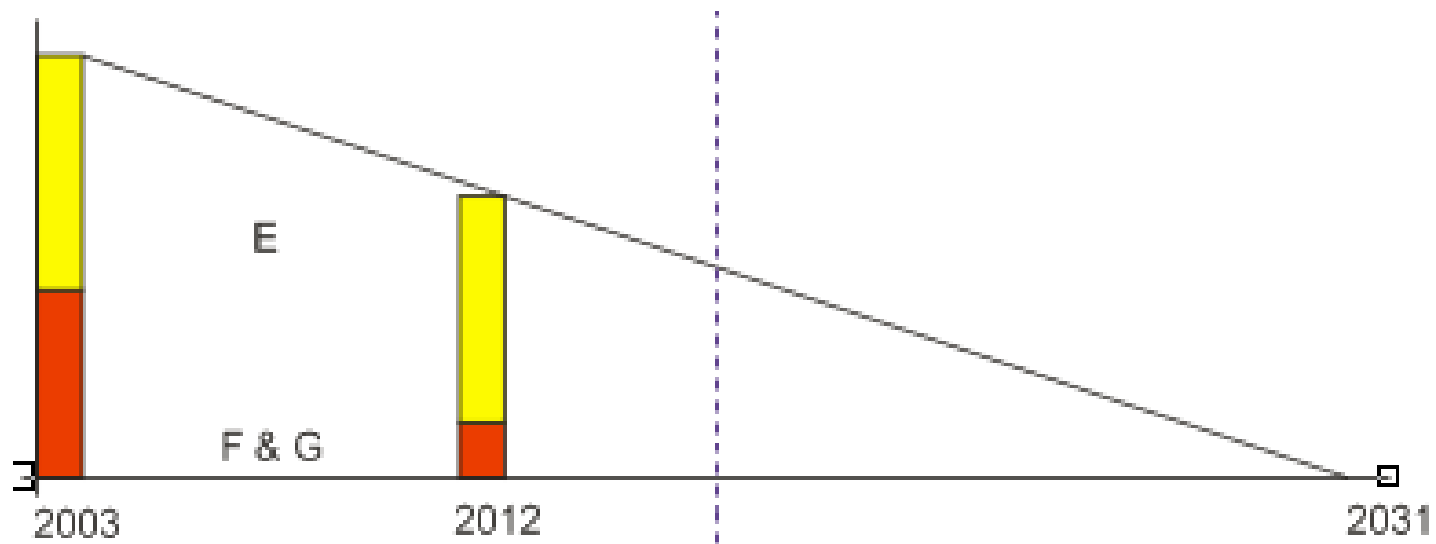
For advice on how to take action and to find out about offers available to help make your home more energy efficient, call 0800 512 012 or visit www.energysavingtrust.org.uk/myhome

- * Band E by 2020
- * Band D by 2025
- * Band C by 2030

SAP Rating



SAPRating





The Green Deal

Concept - Great



Govt Announce £50 Fuel Bill Reduction

Out to Consultation – ECO Response

Cut in funding

Impact fuel poor worst

Changes set in stone



Impact

HHCRO - Warm Front Replacement

Boiler frenzy by some of the more unscrupulous companies so huge profiteering and most of money spent

CSCO - 15% LSOA Free Insulation

Massive Reduction in target – some money left but very little

CERO – Support where Golden Rule cannot be met

Massive Reduction in target means most have met their target

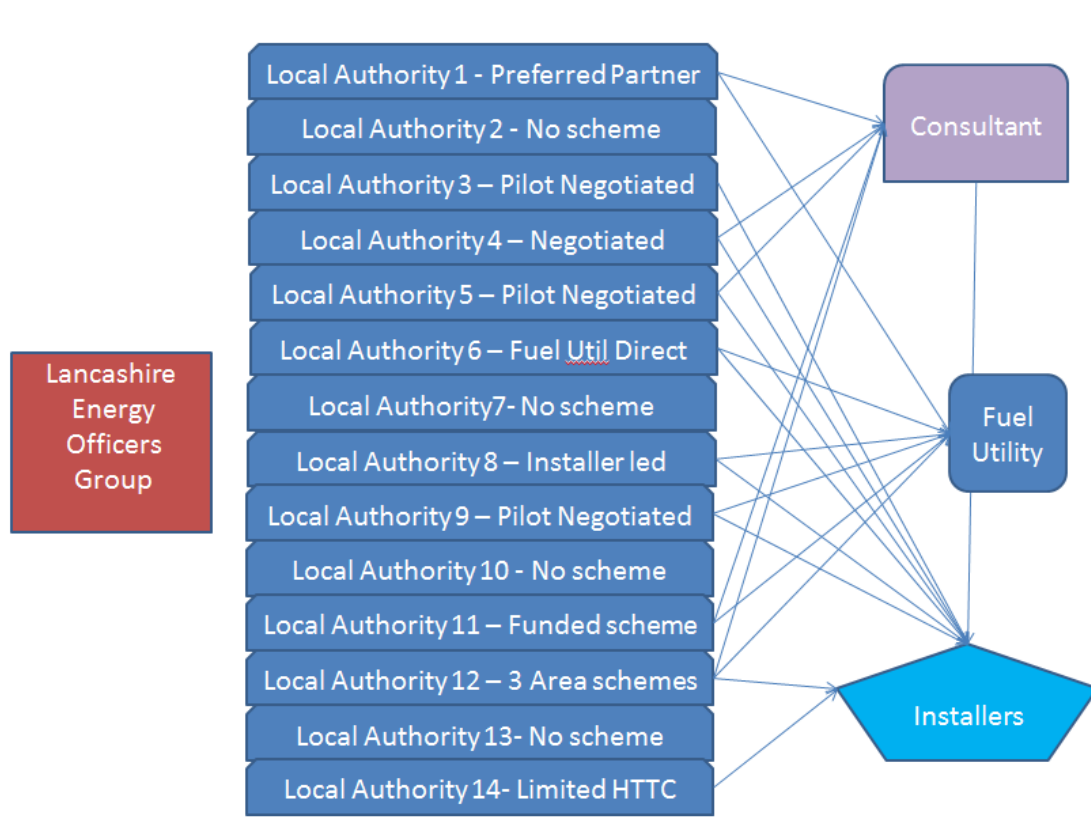
Green Deal-Home Improvement Fund

On the 1st of May 2014 DECC launched £120m available.

A surge in GDHIF applications in July resulted in the allocated budgets being reached. The Funds was then closed to new applications as of 6:30pm on Thursday 24th July.



Solutions - Current Delivery



C.H.I.L.

Cosy

Homes

In

Lancashire

LTD

Getting

Residents

Access

To

Schemes





Wet part of the country – cavity
walls from 1890









Disrepair



Cavity Too Wide



Cavity Uneven Width – Too Narrow



Lack of / Corroded Wall Ties

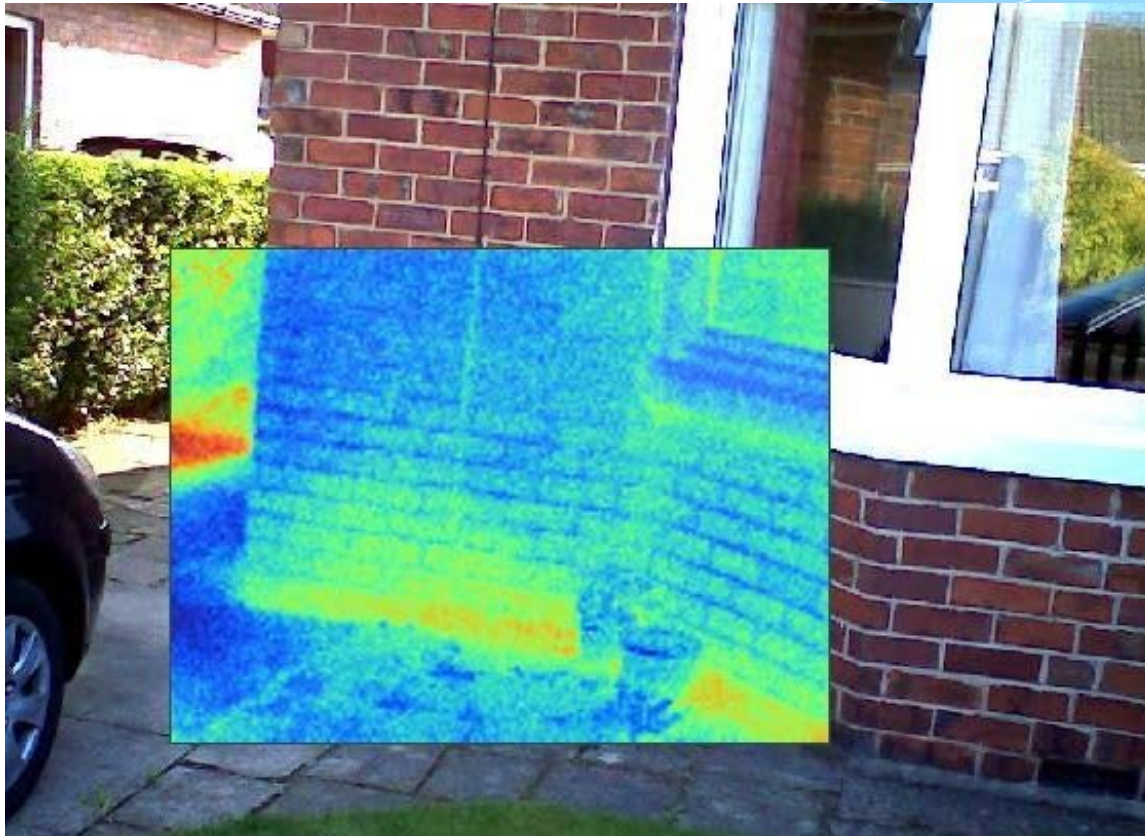




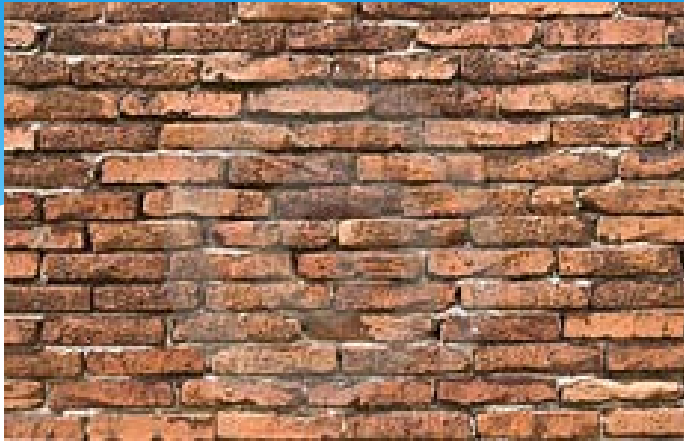
No DPC



Blockages



Exposed Location



Flood Risk



Structural Issues



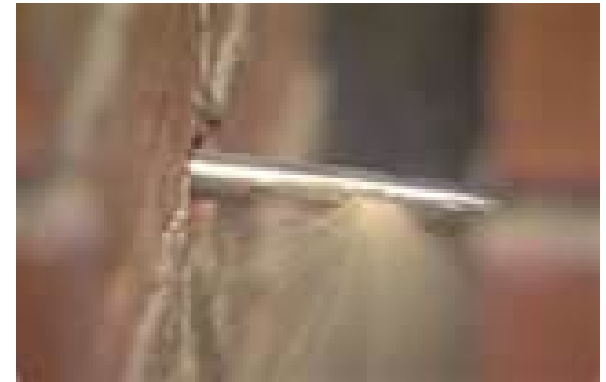
Coursed Stone



Random Stone or Solid Stone



Hard To Treat Solutions (Expensive)





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