

Beech Thermal Survey

Contents and actions:

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2. Follow up Nextdoor article for communication on the 17th January
3. Agreement to update iRed on sign up status
4. How to calculate CO2 emissions from home energy
5. Request for each councilor to:
 - a. Calculate your CO2 emission from home energy consumption in 2021
 - b. SIGN UP for the Thermal Survey today
 - c. Ask your neighbour to SIGN UP

Objective

Undertake a Thermal Survey of Beech properties to raise awareness, identify opportunities, and lead to real actions that reduce CO2 emissions from home heating

1. Maximise participation. Target to achieve a minimum of 60 out of 240 homes (25%)
2. Assessment of current state. 'Self-assessment' to establish baseline emissions and comparison to other similar homes.
3. Survey to yield a set of individual and average metric that we can be used to identify and prioritise candidate areas for action and to assess current state and track long term progress
4. Workshop with specialists to identify detail actions at end of Thermal survey
5. Follow up to categorise actions, status and outcome after 3 months
6. Follow up annual survey to assess change in metrics annually.

Status

- Leaflet distributed to each home in Beech
- [Beech Climate Action](#) web pages created and live
- GOV.UK Payment link live
- SUMUP credit/debit card payment set up

Sign up data as of 16-1-22

19 households have signed up for the Thermal Survey

- 30% of target of 60 by end of January
- 8% of Beech Households vs 26% target

Row Labels	Grand Total	
Unoccupied	4	2%
Declined	3	1%
CO2 only	1	0%
Signed up	19	8%
(blank)	204	88%
Grand Total	231	

Please note this is the data in our system of record.

House to house calling status

The team are going ‘door to door’ to engage with the community. So far, we have spoken to 110 people approx. 50% of the community with 29% indicating they will sign up for the Thermal Survey:

Door to door feedback	Qty	%
Declined	41	37%
CO2 only	6	5%
Will sign up	32	29%
Need more time	31	28%
	110	

Please note this is a summary of the input from each member of the Climate Action working group.

CO2 assessment status

The following table summarises the average actual annual CO2 emission based on house age. So far we have had 17 households provide this input.

R+C3	Count of Email address	Average of CO2 self assessment KG	Approx year of construction
A	1		2010+
B	3	11454	1990+
C	5	8145	1975+
D	4	6026	1950+
E	2	5300	1900+
F	3	8130	Before 1900
N/A	1		
Grand Total	19	7957	

Next communication

Beech Climate Action

Please sign up for the CO2 Self Assessment and Thermal Survey by 31st January!

1. Do you know how much CO2 you emit each year from home energy consumption?
 - a. The CO2 Self Assessment page can help you understand how to calculate this
2. Do you understand where you are currently wasting heat and money?
 - a. The iRed® Thermal Survey can help you understand the current thermal efficiency of your home and identify areas for improvement.

What is the value of a Thermal Survey?

Rupert Gregory, 37, bought his Victorian end-of-terrace house in Twyford, Hampshire, seven years ago. “When I bought the house, the energy performance certificate [EPC] graded the energy efficiency at an F, which is very low,” said the IT consultant, who lives in the home with his wife, Gemma, 37, and daughters Alice, 3, and Imogen, 6. “It’s now a B.”

So how did he transform his home? By hiring a thermal imaging camera. “We had already invested in the roof and cavity-wall insulation and had the windows replaced. We’d done all the big-ticket items. The thermal camera helped to pick out all those little bits that we missed.” With the camera, Gregory detected draughts coming in from under the skirting boards and from the front door, and plugged the gaps himself. “I was paying about £125 a month for gas and electricity. After the works this went down to £100,” he said.



Source: [The Sunday Times, 16-1-22,](#)

Key dates:

31st January, deadline for ‘Self-Assessment’ and for signing up for a Thermal Survey
14th February to 6th March, Thermal Surveys
27th March workshop to discuss results with specialists

More information:

1. www.beechpc.com/climate-action
2. Beech Coffee and Cake every Friday through January
3. Email clerk@beechpc.com

For more information please see: www.beechpc.com/thermal-survey



BEECH CLIMATE ACTION



How to calculate CO2 emissions from home energy consumption?

A consistent theme from the door to door conversations is that most households:

1. Do not know how much CO2 they emit from home energy each year
2. Do not know how to calculate it

And

- Had not thought of calculating it OR
- Believe they have done everything possible OR
- Know where the problem is but do not believe it is fixable OR
- Treat it like an unopened credit card bill

Here is how to calculate CO2 emissions from home energy consumption.

1. Use your home energy bills and convert kilowatt hours into CO2:

Energy source	Annual usage	Multiply by this number to derive CO2 Source: UK government	Kg of CO2 per annum
Electricity	Kwh	0.212 per kWh	
Gas	Kwh	0.203 per kWh (2) (includes transmission loss)	
Bottled gas	Kg	3.68 kg CO2 per kg of bottled gas	
Oil	Liter	3.18 per litre of oil	
Coal	Kg	2.88 per kg of coal	
Wood	Kg	0.10 per kg of wood	
Total			CO2 kg

2. Or use a CO2 self assessment tool

See our webpage:

www.beechpc.com/self-assessment/