



Department for
Energy Security
& Net Zero

Energy Company Obligation (ECO) Evaluation

Phases 2t and 3: Final technical report

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Contents

1. Introduction	4
1.1 Overview	4
1.1.1 Limitations and considerations	6
2. Survey methodology	8
2.1 Overview of approach	8
3. Questionnaire development and testing	11
3.1 Initial development of the questionnaire	11
3.2 Cognitive testing	11
3.3 Questionnaire updates at wave 2 and 3	13
4. Sampling	14
4.1 Processing the ECO database	14
4.2 Drawing the sample	15
4.3 Response rates	16
5. Weighting and analysis	19
5.1 Weighting	19
5.2 Sensitivity analysis at wave 1	21
5.3 Data processing and coding	22
5.4 Subgroup analysis	24
6. Qualitative fieldwork	27
6.1 Developing the focus of the qualitative research	27
6.2 Method	27
6.4 Qualitative analysis	29
Appendix A: Questionnaire	31
Appendix B: Strata for drawing the sample	116
Appendix C: Survey materials	121
Appendix D: Weighted sample profile	125
Appendix E: Variables used in sensitivity analysis	134
Appendix F: Qualitative topic guide	136

1. Introduction

1.1 Overview

This technical report accompanies the main findings report for the wave 1-3 Energy Company Obligation Household Evaluation.¹ Kantar Public were commissioned to deliver this research by the Department for Business, Energy and Industrial Strategy (predecessor to the Department for Energy Security and Net Zero) in 2019 to capture robust evidence on the impact of ECO, including an understanding of the characteristics of existing ECO recipients and whether the policy has delivered against the objectives. The evaluation sought to address a number of specific research questions:

Who has been reached by the ECO2t and ECO3 phases of the scheme?

- What is the demographic make-up of households reached by ECO?
- To what extent are households low-income, fuel poor or vulnerable?
- How does the demographic make-up of households differ across the different subgroups of interest?

To what extent have the ECO outcomes been achieved?

- Have households in receipt of ECO measures experienced: warmer homes, improved health outcomes, reduced bills, changes to their energy consumption?
- Has there been behavioural and attitudinal changes for participating households? (e.g., Do they turn their heating on more regularly? Have their perceptions about affordability of a warm home changed? Are they more aware of their energy use or alternative energy saving measures?)
- What progress has been made towards achieving statutory fuel poverty commitments and affordable warmth targets?
- How have the outcomes of ECO differed across the different sub-groups of interest?

How effective and efficient has the delivery of the scheme been?

- What has been the experience of participating households and how did they come to be involved in ECO?
- Are the types of measures installed the most appropriate for the property and household type?
- Is take-up of measures influenced by public perception of benefit?
- What role did households have in the decision-making around which measure(s) to install?
- How well informed did households feel about their participation in the scheme?

¹ <https://www.gov.uk/government/publications/evaluation-of-the-energy-company-obligation-eco-phases-2t-and-3>

- To what extent are the most vulnerable households being reached?
- What were the costs incurred by participating households and did they feel they received value for money?
- How did the experience of households differ across different sub-groups of interest?

Are the outcomes achieved additional to what would otherwise have happened in the absence of ECO?

- What do households believe they would have done in the absence of ECO?
- How does what households would have done in the absence of ECO differ across the different sub-groups of interest?

As part of the evaluation, the Department commissioned a three-wave household survey and follow-on qualitative interviews covering ECO2t and ECO3. The research was commissioned to provide insights on the type of households that have been reached by the scheme, households' experience of getting the measures installed and the perceived impact.

This report presents the technical summary from all three waves conducted between 2020 and 2022, summarised in Table 1.1.

Table 1.1 Summary of ECO research waves

Wave	ECO scheme	Audience	Fieldwork period
Wave 1	ECO2t installations between April 2017 and September 2018 ECO3 installation between December 2018 and November 2019	ECO2t: 1,468 surveyed households ECO3: 1,449 surveyed households 40 in-depth telephone interviews	March 2020 – August 2020
Wave 2	ECO3 installations between December 2019 and November 2020	2,265 surveyed households, 40 in-depth telephone interviews	May 2021 – September 2021
Wave 3	ECO3 installations between December 2020 and November 2021	2,061 surveyed households, 40 in-depth telephone interviews, 6 in-home interviews	May 2022 – October 2022

1.1.1 Limitations and considerations

The research goes a long way to addressing the research questions described above. Some potential limitations of the evaluation, which readers should consider include:

- The first wave of fieldwork took place during the early phases of the Covid-19 pandemic. For the survey specifically, this meant that most households took part in March and April 2020, during the first lockdown, when most of the population were required to remain at home (including where possible to work). Survey fieldwork also coincided with an [unseasonably warm and dry Spring](#)². It is probable these factors impacted (positively) on the survey response rate and the profile of those who took part. It is also possible that being at home for long periods of time and the unseasonably warm weather may have had an impact on how participants responded to some questions. However, such risks were mitigated by asking participants to answer in relation to specific reference periods (e.g., “thinking about an average week during winter”).
- The third wave of fieldwork took place during rapid increase in energy bills, with the energy price cap (now replaced by the Energy Price Guarantee) which set a maximum price that energy suppliers could charge consumers for each kWh of energy they used, increasing from £1,277 to £1,971 per year. The 2021/22 winter was also [milder than average](#)³. It is probable that this impacted on households’ use of heating in the home and impacted on how households responded to some questions. The qualitative fieldwork took place during an unseasonably hot summer which also may have had an impact on how participants responded to some questions. However, as with wave 1,

² <https://www.metoffice.gov.uk/about-us/press-office/news/weather-and-climate/2020/2020-round-up>

³ https://www.metoffice.gov.uk/binaries/content/assets/metofficegovuk/pdf/weather/learn-about/uk-past-events/summaries/uk_monthly_climate_summary_winter_2022.pdf

such risks were mitigated by asking participants to answer in relation to specific reference periods (e.g., “thinking about an average week during winter”).

- As with all primary research, there is a reliance on the accuracy of responses received from participants. This is relevant in our research for measurement of perceived impacts on energy costs and measures which require recall of the decision making process when choosing to have energy saving measures installed.

Regardless of limitations, we are confident that findings from the survey and qualitative interviews are highly reliable.

2. Survey methodology

2.1 Overview of approach

The primary aim of the quantitative strand of the research was to collect statistically robust evidence from households that had received a measure under ECO2t and ECO3, to understand who they are, their experiences of ECO and the impacts of their participation.

At each wave, the survey was carried out using a combination of postal questionnaires and an online survey. The target sample size for each wave was 2,000 and the response rate was expected to be c.25%. As such, 8,000 properties were sampled for original issue at each wave. A reserve sample of an additional 4,000 cases was also selected per wave.

2.1.1 Survey approach

At each wave, the survey was carried out using a self-completion approach, with a 16-page paper questionnaire posted to all selected addresses. All households also had the option to complete the survey online.

This hybrid postal and online approach was chosen because the postal address was the only sample information available. The alternative was to conduct a face-to-face survey, which would have delivered a lower degree of sample quality for a much higher cost.

Most questions were categorical in style, requiring respondents to pick one or more responses from pre-coded list. The questionnaire was structured around six broad sections:

- The property – capturing age, tenure, number of floors, size, age and gender of household
- Details of heating in the home – capturing main way of heating home, use of additional heaters, method of paying for heating and perceived temperature of the house
- How respondent found out about the energy saving measures
- Details on the energy saving installation – capturing the cost, and information on the process of installation
- Results of having the measure installed – capturing perceived impacts, changes in behaviour and attitudes
- Household demographics – including income, health or disabilities, receipt of benefits

The questionnaire remained similar between waves to allow for comparisons to be made over time. The full questionnaires from each wave can be found in Appendix A. Questionnaires were accompanied by a covering letter, which explained the purpose of the research and provided the option for households to take part online. The research was branded as the 'Energy Saving Survey' to offer as broad an appeal as possible to households. To maximise response and reduce non-response bias, participants were offered a £10 gift card incentive as a thank you for taking part.

Fieldwork at wave 1 took place between 9 March and 6 May 2020. At wave 2 it took place between 10 May and 2 July 2021, and at wave 3 it took place between 9 May and 1 July 2022.

2.1.2 Reminders and issuing the reserve sample

The approach differed slightly at each wave. At each wave, the planned approach was to issue the original 8,000 households that would receive two reminder packs in week 2 and 4 after the initial invite.

At wave 1 in March 2020, restrictions related to Covid-19 came into force. This raised concerns about whether households would be willing or able to leave their home to return the postal questionnaire, and whether the postal service would be disrupted during fieldwork, meaning that reminders would not be able to be dispatched. Further, the restrictions meant that returned questionnaires could only be booked in and counted at Kantar Public operations centre weekly rather than daily.

In order to mitigate the risk that the target number of interviews would not be achieved because of the Covid-19 restrictions, it was decided that the second reminder would be replaced by issuing 4,000 reserve cases. Post-fieldwork, sensitivity analysis was conducted to see whether the inclusion of the reserve sample unduly affected survey estimates (which could be indicative of bias). This is discussed in section 5.2.

At wave 2, the original 8,000 households were issued, and reminder packs were sent in week 3 and 6 after the initial invite to those who had not yet completed. The second reminder was targeted at households with characteristics that responded at a lower level at wave 1.

At wave 3, the original 8,000 households were issued, and one reminder pack was sent in week 3 after the initial invite to those who had not yet completed. Due to a high response, a second reminder was not necessary.

A summary of communication is shown in Table 2.1.

Table 2.1: Wave 1-3 Timetable of communications

Communication type	Date
Wave 1 invitation: cover letter and questionnaire sent to original sample of 8,000	9 March 2020
Wave 1 reminder 1: reminder letter and questionnaire sent to non-completions from the original 8,000 sample	27 March 2020
Wave 1: invitation: cover letter and questionnaire sent to reserve sample of 4,000	31 March 2020
Wave 2 invitation: cover letter and questionnaire sent to original sample of 8,000	10 May 2021
Wave 2 reminder 1: reminder letter and questionnaire sent to non-completions from the original 8,000 sample	1 June 2021
Wave 2 reminder 2: reminder letter and questionnaire sent to non-completions from the original 8,000 sample	21 June 2021
Wave 3 invitation: cover letter and questionnaire sent to original sample of 8,000	9 May 2022
Wave 3 reminder 1: reminder letter and questionnaire sent to non-completions from the original 8,000 sample	27 May 2022

The response rate was 24% at wave 1, 28% at wave 2 and 26% at wave 3⁴. A summary of the response rate is provided in section 4.3.

⁴ Throughout this technical report, response rates are calculated as the number of usable returns divided by the total number of cases issued (returned questionnaires that were not completed as far as Q57 with 40% or more missing answers were counted as incomplete). This corresponds to Response Rate 1 according to the AAPOR standard definitions of response rates:

http://www.aapor.org/AAPOR_Main/media/publications/Standard-Definitions20169theditionfinal.pdf

3. Questionnaire development and testing

3.1 Initial development of the questionnaire

The Department provided an outline of key question areas to be covered at the outset of the project. Kantar Public used this as the basis of questionnaire design and drew on existing questions as far as possible during the initial questionnaire design. The research team conducted a desk review of relevant questions from previous research within this area. These included:

- Energy Company Obligation (ECO) Customer Journey
- Heat Networks Customer Survey
- Green Deal Customer Journey Survey
- English Housing Survey

BRE were also consulted throughout the questionnaire development phase, providing an additional, external perspective⁵.

The Department and Kantar Public held a questionnaire workshop on 1 November 2019 to finalise the questionnaire for cognitive testing.

3.2 Cognitive testing

As part of the questionnaire development, Kantar Public undertook 18 cognitive interviews with people who had measures installed under ECO2t and ECO3. The main aim of the cognitive testing was to test whether questions were suitably worded, correctly and consistently understood, and easily answered by people who had received a measure under the scheme.

Interviews took place in respondents' home and were conducted by researchers from Kantar Public. Interviews were carried out in two geographical areas: North London, and Hertfordshire/Bedfordshire. Interviews lasted around an hour. Interviewing took place between 20th January and 30th January 2020.

The whole questionnaire was tested, with specific probes for questions which were new, adapted from previous measures or which were felt may be difficult to answer in a paper questionnaire. The questionnaire referred to 'energy saving measures' throughout to refer to installations. Respondents were asked to think about the specific measure that they had installed as on the ECO database.

⁵ BRE is an independent research-based advisory, testing and training organisation, offering expertise in every aspect of the built environment and associated industries. BRE is part of the BRE Trust, which aims to support research and education in the built environment.

3.2.1 Sample for cognitive testing

A total of 18 cognitive interviews were carried out. These were spread over a range of different installation types, tenure, age, gender and region. Recruitment for the cognitive interviewing was carried out by Kantar Public's team of specialist recruiters.

The profile of interviews is shown in Table 3.1.

Table 3.1: Profile of respondents who took part in cognitive interviewing

Profile characteristic	Number of interviews
Tenure: Owner occupier	15
Tenure: Private renter	1
Tenure: Social housing	2
Measure installed: A new boiler	3
Measure installed: Loft insulation	5
Measure installed: Cavity wall insulation	8
Measure installed: Heating controls	2
Obligation: ECO2t	13
Obligation: ECO3	5
Had multiple measures: As part of ECO	3
Had multiple measures: Outside of ECO	5

3.2.2 Key findings of cognitive testing

The survey was generally seen to be easy to complete, of reasonable length overall, with clear instructions. The key findings are summarised below:

- **Dealing with multiple installations:** Some respondents that were interviewed had received more than one measure from ECO. Other respondents had other measures installed outside of the ECO scheme at around the same time, or shortly after the ECO measure. Respondents were unable to separate out the impact from different measures. For example, one respondent was being interviewed about loft insulation received under ECO but had also had new radiators and mentioned throughout the survey that they wasn't certain which measure had caused the impact. It was decided to ask households specifically about the measures they had installed in ECO, which were listed on the front of the questionnaire. In the main survey, households were asked to think about the overall impact, rather than the impact of individual measures.
- **Repetition and overlap:** Respondents felt that some of the questions were asking very similar things. Questions were subsequently streamlined, including removing or merging

questions to reduce repetition in order to improve the respondent experience and reduce burden.

- Interview length: Some questions, particularly those with long answer code lists took respondents quite a long time to read through and select the answer that was applicable to them. Question answer codes lists were reviewed and reduced where applicable.
- Use of the word measure: Throughout the questionnaire the terminology wasn't consistent. For example, we used measure, energy saving measure, energy saving installation etc. Most respondents had no issue with the word 'measure', which appeared throughout the questions in reference to their specific installation(s), as they knew this was referring to the specific installation (such as the cavity wall insulation, boiler etc.). The questionnaire was updated to use consistent terminology.

A second questionnaire workshop between the Department and Kantar Public was held following the cognitive testing on 6 February 2020. This was to discuss the findings and finalise the questionnaire. The final questionnaire used in the research can be found in Appendix A.

3.3 Questionnaire updates at wave 2 and 3

To maintain comparability over time the questionnaire remained mostly unchanged at wave 2 and 3. At the start of each wave it was reviewed and updated to account for any policy or contextual changes, for example at wave 2 a question relating to the impact of Covid-19 was added, and at wave 3 a question about the rise in the energy price cap was added.

4. Sampling

At wave 1, sample for the study was drawn from the ECO2t and ECO3 databases held by the Department. At waves 2 and 3 sample was drawn only from the ECO3 database. Some groups in the sample were boosted to allow for comparisons to be made of key sub-groups, including different obligations and categories, and by nation.

The sample was designed to be a representative sample of households that had received measures under ECO2t and ECO3 and aimed to deliver confidence intervals of no more than +/- 5 percentage points for overall analysis and the analysis of priority sub-groups. Whilst the ECO2t obligation had ended by the time of the wave one survey, ECO3 was ongoing and therefore the ECO3 sample was built on over future waves.

4.1 Processing the ECO database

The Department provided Kantar Public with an anonymised database of ECO installations.

At wave 1, this included 532,675 ECO2t and ECO3 installations made at 407,912 properties between 1 April 2017 and 30 November 2019.

At wave 2, this included 318,252 ECO3 installations made at 163,000 properties between 1 December 2019 and 30 November 2020.

At wave 3, this included 408,436 ECO3 installations made at 191,838 properties between 1 December 2020 and 30 November 2021.

The ECO database is at the installation-level. However, the key analytical unit for the survey is properties and the ECO database was restructured to be at this level.

It was decided that properties with five or more installations should be excluded from the survey. Manual review of these records indicated data quality issues. For example, some of these records had an incomplete address, or the address (as recorded in the database) actually consisted of multiple buildings or flats rather than a single property. The inclusion of these properties in the study would have been problematic, for instance:

- The survey invitation would be very unlikely to be delivered to the right property.
- The information we would have for these properties would be inaccurate – complicating analysis and potentially confusing respondents. For example, the mail merge in the questionnaire would list a high number of installations that did not all apply to the property.

This issue only affected a very small number of properties. After this exclusion there were:

- Wave 1: 528,642 installations (99.3% of the original total) at 407,726 properties (99.95% of the original total)
- Wave 2: 312,982 installations (98.3% of the original total) at 161,984 properties (99.4% of the original total)

- Wave 3: 396,194 installations (97.0% of the original total) at 189,475 properties (98.8% of the original total)

4.2 Drawing the sample

In designing the sample there were two key considerations; to ensure overall results would be robust and to allow for analysis by key sub-groups:

- Obligation type: ECO2t CERO, ECO2t AW Standard, ECO2t AW Flexible⁶, ECO3 AW Standard, ECO3 AW Flexible
- Nation: England, Wales & Scotland.
- Innovation⁷: Innovation and not innovation measures
- Solid wall type⁸: External, internal, neither

A disproportionate sample design was required to meet these objectives. An explicit stratification variable with 18 cells was derived for the sampling at wave 1, 14 cells at wave 2 and 29 cells at wave 3. The full details can be found in Appendix B.

Prior to a systematic sample being selected from each explicit stratum, the sample frame was sorted by several characteristics. This ensured that the drawn sample was representative of the population in terms of these variables. This helped to minimise sampling error to the extent that the population estimates are correlated with these factors. The variables used in the implicit stratification were as follows:

- Measure⁹ (Boiler / Cavity wall insulation / Loft insulation / Solid wall insulation / Other heating / Other Insulation)
- Region (11 former government office regions)
- Urban / Rural classification (3 categories¹⁰)
- Tenure¹¹ (Owner occupied / Private rental / Social / Other)
- Property type¹² (Flat or maisonette / Bungalow / Detached / Terraced / Semi-detached / Other)
- IMD decile (England IMD 2019, Wales IMD 2014 & Scotland IMD 2016 - 1 (most deprived decile) - 10 (least deprived decile))

⁶ ECO2t was only applicable at wave 1

⁷ Wave 2 and 3 only

⁸ Wave 3 only

⁹ Note that this is multi-code – as properties can have multiple measures installed

¹⁰ 1= Conurbation (E/W) & Large Urban (S), 2= City and town (E/W) & Other Urban (S), & 3 = Rural (E/W) & Small town or rural (S)

¹¹ In a small number of cases the “Tenure” listed for a property varied from measure to measure. Where this was the case, the tenure from the last installation installed has been used.

¹² In a small number of cases the “Property type” listed for a property varied from measure to measure. Where this was the case, one value has been selected at random.

- Year of installation¹³ - (wave 1: Apr17-Mar18 / Apr18-Mar19 / Apr19-Nov19, wave 2: Dec 19/Jan-Mar 20/Apr-June 20/Jul – Sep 20/Oct – Nov 20, wave 3: Dec 20/Jan-Mar 21/Apr-June 21/Jul – Sep 21/Oct – Nov 21)

The target sample size for the study was 2,000 and the response rate was expected to be c.25%. As such, 8,000 properties¹⁴ were sampled for original issue. A reserve sample of an additional 4,000 cases was also selected, as discussed in section 2.

4.3 Response rates

4.3.1 Wave 1

The overall response rate was 24%. The response rate was 27% among the original sample of 8,000 that received one reminder and 18% among the reserve sample that did not receive a reminder (Table 4.1). Of the 2,857 responses received, 2,382 were paper questionnaires and 475 were online.

Among obligation types the response rate was lowest among ECO2t AW Standard (15%) and ECO2t CERO (19%), shown in Table 4.2. These were the obligation types that had the longest time gap between the installation and the survey and so were expected to be lower. Response was higher for ECO3 (27%); these households had received a measure more recently.

Response rates were lower among some groups, for example homes in London (8%), or homes that were flats or maisonettes (12%).

Table 4.1: Survey response rates – wave 1

Sample group	Number issued	Number of responses achieved	Response rate
Original sample	8,000	2,154	27%
Reserve sample	4,000	703	18%
Total	12,000	2,857	24%

¹³ Note that this is multi-code – as properties can have multiple measures installed

¹⁴ For wave 3 – 8,001 were selected as original issue.

Table 4.2 Survey response rates by obligation – wave 1

Sample group	Number issued	Number of responses achieved	Response rate
ECO2t CERO	3,858	719	19%
ECO 2t AW Standard	1,530	235	15%
ECO 2t AW Flexible	1,587	525	33%
ECO3 AW Standard	2,604	523	20%
ECO3 AW Flexible	2,759	928	34%
Total	12,000	2,857	24%

4.3.2 Wave 2

Only the original sample issue was used for Wave 2 with no additional or reserve sample needed.

The overall response rate was 28%. Response varied by the obligation type.

Among obligation types the response rate was lowest among ECO3 AW Standard (25%) and highest among ECO3 AW Flexible (34%).

Of 2,265 completed surveys, 1,835 respondents completed a postal questionnaire, and 430 respondents completed the online survey.

Table 4.3: Survey response rates – wave 2¹⁵

Sample group	Number issued	Number of responses achieved	Response rate
ECO3 AW Standard	5,202	1,301	25%
ECO3 AW Flexible	2,872	990	34%
Total	8,000	2,265	28%

4.3.2 Wave 3

Only the original sample issue was used for Wave 3 with no additional or reserve sample needed. The overall response rate was 26%. Response varied by the obligation type.

Among obligation types the response rate was lowest among ECO3 AW Standard (22%) and highest among ECO3 AW Flexible (32%).

¹⁵ Note that there is some overlap between ECO3 AW Standard and ECO3 A3 Flexible categories

Of 2,061 completed surveys, 1,690 respondents completed a postal questionnaire, and 371 respondents completed the online survey.

Table 4.4: Survey response rates – wave 3¹⁶

Sample group	Number issued	Number of responses achieved	Response rate
ECO3 AW Standard	5,224	1,163	22%
ECO3 AW Flexible	2,801	903	32%
Total	8,001	2,061	26%

¹⁶ Note that there is some overlap between ECO3 AW Standard and ECO3 A3 Flexible categories

5. Weighting and analysis

This section outlines the processes used to produce the final data outputs, covering weighting the data, sensitivity analysis to decide whether to include the reserve sample in the final data for wave 1, cleaning the data, and the coding of verbatim responses to open-ended questions.

5.1 Weighting

Weighting was applied to ensure that the sample was representative of the population. The process used to weight the data is outlined below.

5.1.1 Calculating the design weight

As outlined in section 4.2, a disproportionate sample design was used. The sampling fraction varied by stratum and design weighting was applied to compensate for this. The design weight was calculated by inverting the sampling probability for each case.

5.1.2 Calculating non-response weights

Additional weighting was also required to compensate for systematic differences in response probabilities. The sample frame included information about each address¹⁷.

At wave 1, the following variables were used in a logistic regression to estimate the response probability of each respondent:

- Region (11 former Government Office Regions)
- Urban / Rural¹⁸ (Conurbation / City and Town / Rural)
- Housing tenure (Owner occupied / Social Housing / Private Rental)
- Property type (Bungalow / Detached / Flat or Maisonette / Semi-Detached / Terraced / Other)
- Index of Multiple Deprivation (Deciles)
- Scheme (ECO2t / ECO3)
- Obligation and category: CERO / Standard / Flexible
- Type of measure installed¹⁹ (Boiler / Cavity Wall Insulation / Loft Insulation / Microgeneration / Solid Wall Insulation / Windows and Doors / Other Heating)

¹⁷ These variables are either from the ECO database, or are geo-demographic variables that have been merged into the database.

¹⁸ In Scotland, the urban rural classification is a little different. The three categories used are as follows: Large Urban / Other Urban / Small Town or Rural

¹⁹ Note that addresses can have had multiple types of installations at different points in time.

- Date of installation: Wave 1: Apr-Jun 2017 / Jul-Sep 2017 / Oct-Dec 2017 / Jan-Mar 2018 / Apr-Jun 2018 / Jul-Sep 2018 / Oct-Dec 2018 / Jan-Mar 2019 Apr-Jun 2019 / Jul-Sep 2019 / Oct-Nov 2019

At wave 2, the following variables were used in a logistic regression to estimate the response probability of each respondent:

- Region: (11 former Government Office Regions)
- Urban / Rural²⁰: (Conurbation / City and Town / Rural)
- Housing tenure: (Owner occupied / Social Housing / Private Rental)
- Property type: (Bungalow / Detached / Flat or Maisonette / Semi-Detached / Terraced / Other)
- Index of Multiple Deprivation: (Deciles)
- Obligation & Category: (ECO3 Standard - Innovation / ECO3 Standard – Not Innovation / ECO3 Flexible – Innovation / ECO3 Flexible – Not Innovation)
- Type of measure installed²¹: (Boiler / Cavity Wall Insulation / Loft Insulation / Microgeneration / Solid Wall Insulation / Other Heating / Other Insulation)
- Date of installation: (Dec 2019 / Jan - Mar 2020 / Apr - Jun 2020 / Jul - Sep 2020 / Oct - Nov 2020)

At wave 3, the following variables were used in a logistic regression to estimate the response probability of each respondent:

- Region: (11 former Government Office Regions)
- Urban / Rural:²² (Conurbation / City and Town / Rural)
- Housing tenure: (Owner occupied / Social Housing / Private Rental)
- Property type: (Bungalow / Detached / Flat or Maisonette / Semi-Detached / Terraced / Other)
- Index of Multiple Deprivation (Deciles)
- Flex: (Flex / Non-Flex)
- Innovation: (Innovation / Not Innovation)
- Type of measure installed²³ (Boiler / Cavity Wall Insulation / Loft Insulation / Microgeneration / Solid Wall Insulation / Other Heating / Other Insulation)
- For solid wall insulation, type of installation (Internal / External)

²⁰ In Scotland, the urban rural classification is a little different. The three categories used are as follows: Large Urban / Other Urban / Small Town or Rural

²¹ Note that addresses can have had multiple types of installations at different points in time.

²² In Scotland, the urban rural classification is a little different. The three categories used are as follows: Large Urban / Other Urban / Small Town or Rural

²³ Note that addresses can have had multiple types of installations at different points in time.

- Date of installation (Dec 2020 / Jan - Mar 2021 / Apr - Jun 2021 / Jul - Sep 2021 / Oct - Nov 2021)

Non-response weights were calculated as the inverse of the predicted probability (as estimated by the regression model) of any given sampled household taking part in the survey.

5.1.3 Calculating the overall weight

At each wave, the overall weight was calculated by multiplying the non-response weight by the design weight.

At wave 1, the weights were trimmed to improve the precision of estimates. Different thresholds were trialled for trimming the weights. Based on this analysis, the final weight was then trimmed so that there were no weights greater than 8 times the median weight²⁴. This offered the best balance between minimising bias (ensuring the weighted sample profile closely matching the population benchmarks) and minimising the design effect. Following this stage of trimming, the overall design effect due to weighting was estimated to be 2.07 (compared with 2.52 before the trimming).

At waves 2 and 3, the overall design effect due to the weighting was smaller and trimming of the weights was not required.

The overall design effect due to the weighting²⁵ at each wave is shown in Table 5.1:

Table 5.1: Design effects due to weighting – waves 1-3

Wave	Overall design effect
Wave 1	2.07
Wave 2	1.65
Wave 3	1.56

As shown in Appendix D, the profile of the weighted sample remained a good match to the population profile, even after larger weights were trimmed.

5.2 Sensitivity analysis at wave 1

5.2.1 Background

As outlined in section 2.1, reserve sample was issued towards the end of the fieldwork period in wave 1.

The original issue sample was sent two mailings (an initial invitation and a reminder). The purpose of the reminder was twofold – to increase the overall response rate to the study and it was also hoped that this would improve the sample balance by encouraging response from under-represented groups. Nevertheless, it is important to note that the reminder was not

²⁴ This affected 117 cases.

²⁵ Design effect calculated as $-(1 + \text{cov}(W)^2)$ – where $\text{cov}(W)$ is the coefficient of variation of the weights

targeted – it was sent to all non-respondents. There is no guarantee that the reminder did in fact encourage different types of people to respond.

The reserve sample were only sent the initial invitation mailing. Given that no reminder was sent to this group, it was possible that this sample could be less representative of the population. Therefore, there was a concern that including this group in the final sample could potentially add bias.

It was decided that sensitivity analysis should be conducted to see whether the inclusion of the “reserve” unduly affected survey estimates (which could be indicative of bias). The sensitivity analysis covered a range of key variables and key sub-groups (see Appendix E).

5.2 2 Results

For this analysis, we compared the two following datasets:

- Original issue only = 2,154 cases
- All sample (original + reserve) = 2,857 cases

For both sets of data, we produced weighted point estimates and calculated 95% Confidence Intervals (accounting for the complex survey design – the weighting and the pre-stratification) for the agreed list of key variables. We then conducted significance testing (allowing for the fact the samples overlap²⁶) to identify any significant differences (p-value of <0.05). Prior to conducting the analysis, it was decided that:

- If more than 5% of the differences were statistically significant (p-value of <0.05) we would report using the original data only.
- If 5% or less of the differences were statistically significant (p-value of <0.05) we would report using all data (original issue and reserve).

When comparing the overall results (original only vs all sample (original + reserve)), we conducted 81 significance tests and only one of these (1.2% of the tests) had a statistically significant difference (p value of <0.05). We also compared results for key sub-groups. Across all of the sub-groups included in the analysis, only 0.7% of differences were significant (10 out of 1,315 tests had a p value of <0.05).

This analysis indicated that the inclusion of the reserve sample was not having much of an effect on the point estimates. It was therefore decided that all data (2,857 cases) should be used for the reporting.

5.3 Data processing and coding

5.3.1 Comparing data quality between online and postal

Where self-completion, and particularly, postal questionnaires are used there is a risk that respondents do not complete all questions. This is commonly referred to item non-response. The degree of missing data (or item non-response) for those questionnaires that were return

²⁶ The “all sample” data includes the whole of the “original only” data. Standard significance tests assume the two samples are independent. Standard significance testing would overestimate how large a difference needs to be for it to be statistically significant (leading to false negative findings).

by post was examined. Overall, the levels were generally low (for most questions less than five percent of responses). We can therefore be confident that the quality of the postal data is good and comparable to the online data.

5.3.2 Cleaning and editing of data

Returned paper questionnaires were booked in and scanned at an operations centre in High Wycombe, which is housed in a security-protected location with restricted access. Data from the questionnaires were captured by electronic scanning.

Editing instructions were provided to the scanning team. Most edits were to ensure that, for each question, people who should have answered are included in the data (even if as 'Question not answered') and that any who answered in error are excluded. The completed postal questionnaires were checked for internal consistency, completeness and accuracy. The data was also cleaned to ensure that the data was consistent. This involved:

- Adding a new code for 'Question not answered' where respondents should have been filtered to a question but left the postal questionnaire blank.
- If 'Don't know' was selected in conjunction with a valid answer code, answers were removed from 'Don't know'
- If multiple responses were given at a single code question, answers were edited to 'Don't know'

Some additional cleaning and editing also took place, including:

- Number of people living in household – if this question had been left blank, but age and gender of people within the household was not, the number of people in the household was re-coded to show the number of people given at age and gender questions.
- At wave 1, Q39/Q40 were filtered, however the data showed that some respondents answered them who should not have. However, it was decided that this could be caused by unclear instructions on the paper questionnaire and therefore this data was not edited out.

Data cleaning was not required for the online survey. Measures implemented throughout the script ensured that all questions had a valid and clean response.

5.3.3 Coding

The survey contained open-ended questions, allowing respondents to provide verbatim responses. These responses were coded by Kantar Public's in-house coding team. All coded data were incorporated into the final SPSS datafiles.

The coding undertaken was on partial open-ended questions. These allow respondents to enter an answer which cannot be categorised into a pre-existing response option. For each partial open-ended question, the coding team checked whether any of the verbatim responses given in the 'other specify' category could be coded as an existing response option (this exercise is commonly known as back-coding). On questions where the 'other' answer category exceeded 10% of the total number of responses, answers were reviewed, and new codes were created if necessary.

Coding was reviewed by the research team to check the quality of coders' work in terms of what had been backcoded to each answer category and what new codes had been added to the code frame.

5.3.4 SPSS and table outputs

The SPSS datasets were checked and cleaned²⁷, and underwent basic editing. This included: the addition of sample variables needed for analysis; the addition of weighting variables; and the derivation of new variables required for analysis. Key nets and derived variables were agreed with the Department as part of the data specification to ensure outputs meet both analysis and publication requirements. The SPSS datasets and tables were fully quality assured by the research team.

5.4 Subgroup analysis

The analysis was carried out based on agreed key subgroups that were included on the cross-tabulations detailed in Table 5.2.

²⁷ As part of this process, redundant variables were deleted, variables were renamed or re-ordered to match the questionnaires, and values were standardised.

Table 5.2: Key subgroup analysis

Subgroup	Categories
Measure installed	Boiler, solid wall insulation, cavity wall insulation, loft insulation, underfloor insulation, other insulation, microgeneration, windows and doors, other heating, net: any insulation
Solid wall insulation type (wave 3 only)	External, internal
Number of measures	Single measure, multiple measures
Obligation – broad (wave 1 only)	ECO2t, ECO3
Obligation - detailed	ECO2t: CERO (wave 1 only), ECO2t: AW standard (wave 1 only), ECO2t: AW flexible (wave 1 only), ECO3: AW standard, ECO3: AW flexible
Region	England, Scotland, Wales
Region (England)	North East, North West, Yorkshire and the Humber, East Midlands, West Midlands, East of England, London, South East, South West
Tenure	Owner occupied, private rental, social housing
Household income	Less than £16,000 a year, more than £16,000 a year
Age of residents	Working age adults only, working age adults with under 5s, over 65s only, mixed households
Whether paid towards the cost of installation	Yes, No
Likelihood of considering other energy saving installations in the future	More likely, no difference, less likely
Whether benefitted from having measures installed	A great deal, a fair amount, not very much, not at all
Whether have any long standing illness/disability	Yes, No
Whether receiving any benefits	Yes receiving benefits, no not receiving any benefits
Age of property	Pre-1919, 1919-1944, 1945-1964, 1965-1980, 1981-1990, 1911-2002, post 2002

5.4.1 Statistical significance

Results from all surveys are attempts to estimate “true values” in a wider population; all figures come with an associated margin of error. As such, all differences quoted in the reports have

been tested for statistical significance; that is, the difference is significant once the margins of error have been accounted for.

Throughout the report, where the results for one group of participants are compared against the results for another group, any differences discussed are statistically significant at the $p < 0.05$ probability level, unless otherwise stated. A p value < 0.05 means there is a $< 5\%$ probability of observing a difference of this magnitude if, in reality, there was no systematic difference between the two groups when the study was carried out and any observed difference was due to random sampling error alone.

Applying weights to data as described earlier in this section, while tending to make the quoted figures more representative of the population of interest, has the effect of reducing the effective sample size of the data. As such, the effective base size, which is used in any statistical testing, is smaller than the unweighted base size. This effect has been taken into account in determining whether or not differences described throughout the report are statistically significant. Therefore, while the base sizes reported throughout this report are the actual base sizes, the statistical analysis is based on the effective base.

6. Qualitative fieldwork

Follow-up qualitative research was conducted to provide detailed insights on household experiences of the ECO scheme. Specifically, the qualitative strand focused on understanding the decision-making and installation journey, the process of installation and the impact and benefits of ECO measures installed. The qualitative element was conducted among households that had completed the quantitative survey and had agreed to be contacted for further research.

6.1 Developing the focus of the qualitative research

Interim analysis of the quantitative survey data was used to inform the focus and sampling strategy for the qualitative research. The key research questions for the qualitative research developed included:

- What was the decision making journey that participants went on to have the measure installed? (What was the trigger that made them think about the measure; what were the motivations; what were their sources of information)
- What was the process like for getting the measure installed? (Was it easy/difficult and why; how different measures compare in terms of disruptiveness)
- What have been the impacts on the individual of having the measures installed? (On what scale are the impacts on their day-to-day life; extent to which positive or negative; are they mainly financial/environmental/health/comfort levels; what are the most important impacts to the individual and how do they manifest)
- What is driving varied levels of impact or lack of benefits for those that did not report differences compared to before the measure was installed? (Is it harder to see the benefits for insulation compared to heating; what sort of benefits might they have been expecting; how does this impact on their likelihood to have future measures installed)

The discussion guide was designed around the research questions with input from the Department. Alongside these questions, it sought to explore participants' priorities with contextual and attitudinal discussions around environmental, financial and their home and how these factors may play a part in how they received and felt about the ECO scheme. The discussion guide then followed the structure of the scheme journey, from the initial point of finding out about the ECO scheme to the impact it currently has on their home. Journey mapping was used to aid the memory of participants and ensure as much detail as possible was collected from participants, particularly for those who had the measures installed more than one year previously. The final discussion guides from each wave can be found in Appendix F.

6.2 Method

6.2.1 In-depth telephone interviews

At each wave, in-depth interviews of up to 60 minutes in length were conducted with 40 participants via telephone. A small team of trained researchers conducted the interviews, with

a researcher briefing before interviews took place to ensure consistency and reduce interview bias.

Participants received £40 incentive as a gift card of their choice as a thank you for their participation. All interviews were audio recorded with the consent of the participants. Recruitment was carried out by Kantar Public's specialist in-house recruitment team. Participants were recruited because they completed the quantitative survey and agreed to be contacted for further research. Using the list of survey participants, recruiters identified potential qualitative participants to take part, pre-screening them using the available survey data. From this they were contacted via telephone for a screening call to ensure they met all recruitment quotas, before scheduling in the research interview with a qualitative researcher at a time convenient to them.

As this method was socially distanced, complying with Covid-19 guidelines, it remained as originally designed across all waves.

The final achieved sample at each wave is shown in Appendix G.

6.2.2 Post-interview photo task at wave 1

Originally, Kantar Public proposed five in-home quasi-ethnographic interviews to establish rich, detailed case studies alongside the telephone interviews. However, the impact of Covid-19 meant that it was not possible to carry out in-home interviews at wave 1, so an alternative approach was developed.

In order to capture as much information as possible from the CERO group, which will not be included in future waves, Kantar Public and the Department decided to replace the five in-home interviews with a photo task. This was conducted as a post-interview task as a way to reflect on and illustrate the impacts and outcomes of the energy saving measures that the households had installed. All households that took part in the in-depth telephone interviews were invited to take part in the photo task and an additional incentive of £10 was provided if completed.

Respondents were asked to provide at least four photos of the following:

- Photo of the measure(s)
- Before photo of the measure(s)
- Any information they received about the measure, leaflets etc.
- Any sources of information e.g., websites they looked at
- Any impacts they can show evidence of e.g., warmer home
- A photo of their overall feelings about the measure
- Any negative impacts of the measure they have experienced

Overall, 16 participants completed the post-interview photo task.

6.2.3 In-home interviews at wave 3

The impact of Covid-19 meant that it was not possible to carry out in-home interviews at wave 2 either, but the decision was made to carry over the interviews to wave 3. Therefore, at wave

3, 10 in-home interviews (rather than the five that were originally planned) were planned among the participants who had taken part in a telephone interview. This was done to capitalise on their pre-existing engagement and build iteratively on established knowledge and insight.

Interviews were conducted by the same team responsible for telephone interviews, and researchers were paired up as much as possible with participants they had previously spoken to. Researchers organised interviews directly with participants who had agreed not to opt-out of opportunities for further research following the telephone interview. The team followed a strict protocol to ensure participant and interviewer safety. This included a risk assessment, a set of Covid-19 questions being asked prior to the interview, and a 'buddy system' of check-ins during fieldwork. In-home interviews were designed to be participant-led and quasi-ethnographic, to bring to life the ECO households, their homes and impact and installation of the measures.

Participants received a £50 incentive as a gift card to thank them for their participation. All interviews were audio recorded and included participant-directed filming and photography of the measures installed in homes, with the informed consent of the participants.

During the fieldwork period, drop-outs due to ill-health of participants and family members (including due to Covid-19 infection), frequent train strikes and hesitancy to be involved in in-person research meant that 6 of the 10 planned interviews were conducted and the project scope was adjusted to account for this difference.

These videos have not been published because they were intended for internal usage only and will inform ongoing development of the ECO scheme.

6.4 Qualitative analysis

The qualitative analysis approach included the following elements:

A process-driven element using a matrix mapping framework technique, as part of which data is coded and systematically summarised into an analytical framework organised by issue and theme. The framework was developed to reflect the research objectives and according to the themes emerging from the initial debrief session. The completed Excel framework allowed the research team to review and sort the data by theme, by case and across groups of participants ensuring a thorough review of the data. Analysis of photos received was also analysed in this way and was used to support the depth of the qualitative findings. At wave 1, photos chosen for the final report were considered to be illustrative of the points made in the report while also ensuring anonymity. Photography of homes captured during phase 3 were reviewed by researchers in light of survey findings and incorporated into analysis and case study development.

An interpretative element focused on identifying features and patterns within the data, mapping the range and nature of data, finding associations, defining concepts, undertaking sub-group analysis. This process created descriptive accounts and explanatory data, which came from aggregating patterns as well as from weighing up the salience and dynamics of issues and searching for structures within the data that have explanatory power. Researcher analysis sessions were used to support interpretation of the data, during which the team comes together to discuss and test emerging themes and insights. A researcher from the Department attended one of these sessions to hear initial findings from the research as well as provide input and guidance into areas of interest for reporting.

Case studies were developed for key sections of the report to provide a more holistic view of a participant's context, attitudes, motivations and the impact of the measure on their home. These were chosen to reflect a variety of perspectives, mostly from those who have reported less positive experiences. Names were changed for the case studies to provide anonymity to participants.

Appendix A: Questionnaire

Wave 1

KANTAR



Department for
Business, Energy
& Industrial Strategy

Energy Saving Survey

This survey is about the [MEASURE FROM DATABASE] that you had installed in [MM/YY].

This survey is about the below measures which you have had installed:

- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]

Thank you for taking the time to answer these questions. The questionnaire should take no longer than 25 minutes to complete and we will keep your answers completely confidential.

As a thank you for taking part we will send you a £10 voucher.

Who should complete the questionnaire?

Any adult aged 16 or older can complete the questionnaire as long as they have joint or sole responsibility for energy bills and were living in this property when the energy saving measures were installed.

How do I fill out the questionnaire?

Please answer the questions as fully as you are able by crossing the boxes or writing in the spaces provided. Please return the completed questionnaire in the pre-paid envelope.

Most questions on the following pages can be answered by putting a cross in the box next to the answer that applies to you, like this:

Occasionally a question will ask you to “choose all that apply.” Please cross as many boxes as apply to you when you see this instruction.

Please try to answer every question. If you cannot remember, do not know, or the question does not apply to you then please cross the relevant box where shown or leave the question blank.

If you mark the wrong box, fill in the box and put a cross in the right one like this:

Please use black or blue ink to complete the questionnaire.

If it is difficult for you to complete the questionnaire, you can ask a friend, family member or carer to help you or fill it in on your behalf.

Where can I get more information?

✉ REDACTED

☎ Survey helpline: REDACTED

If you have any queries about the survey or need help completing the questionnaire, please contact Kantar.

Thank you for taking the time to complete this questionnaire

ASK ALL

Q1. Firstly, can we check that energy saving improvements described on the front page were installed at this property, and you or someone else still living there lived there at the time?

1. Yes
2. No
3. Don't know

If yes, please complete the survey. If no or don't know, there is no need to take part.

To begin, we have a few questions about the property that you currently live in

ASK ALL

Q2. How many floors does your home have?

Please only include the total number of floors in your home, including the ground floor.

Please choose one answer only

1. One floor
2. Two floors or more

ASK ALL

Q3. Do you (or your household) own or rent the home that you live in?

Please choose one answer only

1. Own home outright (no mortgage to pay off)
2. Own home but with a mortgage to pay off
3. Part own and part rent (shared ownership)
4. Rent privately
5. Rent from council or local authority
6. Rent from housing association, housing co-operative, charitable trust or registered social landlord
7. Live here rent-free
8. Something else (please specify)

ASK ALL

Q4. Roughly when was your home built?

If you are not sure, please select 'Don't know'

Please choose one answer only

1. Before 1919
2. 1919 – 1930
3. 1931 – 1944
4. 1945 - 1964
5. 1965 - 1980
6. 1981 - 1990
7. 1991- 1995
8. 1996 – 2001
9. After 2002
10. Don't know

ASK ALL

Q5. How many people are there in your household altogether, including any children and yourself? *Please write in the box provided*

ENTER NUMBER

ASK ALL

Q6. And what is the gender of each person in your household? Please include yourself and any children. Please tick one answer per person only

MALE/FEMALE/OTHER for up to 10 people

ASK ALL

Q7. And how old is each person in your household? Again, please include yourself and any children. Please tick one answer per person only

AGE CATEGORIES for up to 10 people:

1. Under 5
2. 6-13
3. 14-17
4. 18-64
5. 65+

Details of heating in home

ASK ALL

Q8. Thinking about an average week during winter, on how many week days (Mon-Fri) is someone at home during the day (9am-5pm)?

Please write in the box provided

ENTER NUMBER

ASK ALL

Q9. Which of these is the main way you heat your home?

Please choose all that apply

1. Central heating – mains gas
2. Central heating – other (e.g. oil or liquid petroleum gas)
3. Electric radiators or storage heaters
4. Open fire or wood burning stove
5. Something else (please specify)
6. Don't know

ASK ALL

Q10. Before the installation of the measure(s), which of these other type(s) of heater did you use in your home?

Please choose all that apply

1. Gas fire (mains gas)
2. Gas fire (bottled gas)
3. Electric plug-in room heaters (including fan/radiant heaters)
4. Other electric heaters (including towel rails or underfloor heating)
5. Open fire burning coal/wood/smokeless fuel
6. Enclosed fire or stove burning coal / wood / smokeless fuel
7. Aga or Rayburn stove (any fuel)
8. Something else (please specify)
9. None of these

ASK IF USE OTHER TYPES OF HEATING (Q10=1-8)

Q11. Thinking about these other types of heater, overall, do you use them more or less often since installing the measure(s)?

Please choose one answer only

1. Use a lot less now
2. Use a little less now
3. No difference
4. Use a little more now
5. Use a lot more now

ASK ALL

Q12. Which methods do you use to pay for your fuel?

Please choose all that apply

1. Direct debit (including online direct debit)
2. Pay after receiving bill (by post, telephone, online or at bank/post office)
3. Pre-payment meter
4. Included in rent
5. Other (specify)
6. Don't know

ASK ALL

Q13. What help, if any, does your household receive to help with fuel bills?

Please choose all that apply

1. Winter fuel payment
2. Warm home discount scheme
3. Cold weather payment
4. National Concessionary Fuel Scheme
5. None of these
6. Don't know

ASK ALL

Q14. As a result of the measure(s) being installed, would you say your energy bills are more or less affordable now?

Please choose one answer only

1. More affordable now
2. No difference
3. Less affordable now
4. Don't know

ASK ALL

Q15. Before the measure(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?

Please choose one answer only

1. Very easy
2. Easy
3. Difficult
4. Very difficult
5. Don't know

ASK ALL

Q16. Before the measure(s) were installed, was your home...

Please choose one answer only

1. Much colder than you would have liked
2. A bit colder than you would have liked
3. About right
4. A bit warmer than you would have liked
5. A lot warmer than you would have liked
6. Both too warm and too cold

ASK ALL

Q17. After the measure(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?

Please choose one answer only

1. Very easy
2. Easy
3. Difficult
4. Very difficult
5. Don't know

ASK ALL

Q18. After the measure(s) were installed, was your home...

Please choose one answer only

1. Much colder than you would have liked
2. A bit colder than you would have liked
3. About right
4. A bit warmer than you would have liked
5. A lot warmer than you would have liked
6. Both too warm and too cold

How you found out about the energy saving measures

ASK ALL

Q19. How did you find out that you might be able to have measure(s) installed?

Please choose one answer only

1. Approached by salesperson (knocking on your door or calling you)
2. Leaflet or letter
3. Advert, on the news or online
4. Through a friend or relative/word of mouth
5. Some other way (please specify)
6. Don't know/can't remember

ASK IF Q19 = 1,2

Q20. And was this from...

Please choose one answer only

1. An energy company or a company installing the measure
2. My landlord/local authority/housing association
3. A charity/community group/other advice service
4. Someone else (please specify)
5. Don't know / can't remember

ASK IF Q19 = 1,2

Q21. You said you were approached about having measure(s) installed. How many organisations in total approached you, including the one you decided to move forward with?

If you were approached by an organisation working on behalf of another (e.g. a company working on behalf of the council), please only count that as one organisation.

Please choose one answer only

1. One
2. Two or three
3. More than three
4. Don't know

ASK ALL

Q22. Did you feel pressured at any point into having the measure(s) installed?

Please choose one answer only

1. Yes
2. No
3. Don't know

ASK ALL

Q23. At the time when you found out about the measure(s), were you receiving any of the following advice or support?

Please choose all that apply

1. Debt advice
2. Advice to keep my home warm
3. Help to switch to a cheaper energy deal
4. Advice to manage my health
5. Any other advice or support
6. None of the above

ASK IF Q23 = 1,2,3,4,5

Q24. Did the advice and support you were receiving recommend that you could get the measure(s) installed?

Please choose one answer only

1. Yes
2. No
3. Don't know

ASK ALL

Q25. Were you ever told that you were eligible to have the measure(s) installed for any of the following reasons?

Please choose all that apply

1. I live in council/local authority/housing association property
2. Someone in the household receives certain benefits/tax credits
3. Someone aged 60+ lives in the household
4. A disabled person lives in the household
5. Someone in the household has a health condition
6. Dependent children live in the household
7. The type of property I live in (e.g. with solid walls or hard to treat cavity walls)
8. The area I live in

9. I was not told why I was eligible
10. Don't know/can't remember

ASK ALL

Q26. What were your reasons for having the measure(s) installed?

Please choose all that apply

1. To save money on energy bills
2. To make my home warmer or more comfortable
3. To bring my home up to modern standards
4. The boiler/heating was broken or nearing the end of its life
5. To increase my home's value
6. To reduce energy use for environmental reasons
7. I was doing other work to my home
8. The measures were offered for free/at a reduced price
9. I was offered insulation to get new heating
10. I had no choice – landlord/building owner said that the work had to be done
11. Another reason (please specify)
12. Don't know/can't remember

ASK ALL

Q27. If you had more than one measure installed at the same time, why did you choose to have both of these installed at the same time?

Please choose all that apply

1. I was only allowed one if I also had another measure
2. I was advised that having both would be best for me
3. I asked if I could have both
4. The measures were offered for free/at a reduced price
5. Another reason [please specify]
6. Not applicable – I only had one measure

7. Don't know

ASK ALL

Q28. Were you made aware of the range of different energy saving measures you could have had installed in your home?

Please choose one answer only

1. Yes
2. No
3. Don't know/Don't remember

ASK ALL

Q29. Did you receive enough advice in advance about the measures you had installed?

Please choose one answer only

1. Yes
2. No
3. Don't know/Don't remember

ASK ALL

Q30. Did anyone involved in the installation discuss with you if the measure(s) might influence ventilation, condensation and/or mould growth in your home?

Please choose one answer only

1. Yes
2. No
3. Don't know/can't remember

ASK ALL

Q31. Who made the decision to have measure(s) installed?

Please choose one answer only

1. I made the decision solely by myself

2. I made the decision jointly with someone else who lived in the household
3. I made the decision jointly with someone else who did not live in the household
4. Somebody else made the decision (e.g. landlord, family member) (please specify)
5. Don't know / can't remember

ASK ALL

Q32. Were you given a guarantee with instructions about what to do if there were problems with the measure(s)?

Please choose one answer only

1. Yes
2. No
3. Don't know/Don't remember

The energy saving installation.

ASK ALL

Q33. Were the measure(s) installed for free, or did you pay towards the cost of installation?

Please choose one answer only

1. It was free
2. I paid towards the cost of installation
3. Don't know

ASK IF Q33 = 2

Q34. How much in total did you pay towards the cost of having the measure(s) installed?
Please provide your best estimate

Please write in the boxes provided

ENTER NUMBER

ASK IF Q33 = 2

Q35. Did you do any of the following to pay for the measure(s)?

Please choose all that apply

1. Get a loan
2. Extend my mortgage
3. Use a credit card
4. Borrow from family or friends
5. Use money from savings
6. None of these

ASK ALL

Q36. How likely would you have been to have the measure(s) installed, if there had been no help with funding?

Please choose one answer only

1. Very likely
2. Fairly likely
3. Fairly unlikely
4. Very unlikely
5. Don't know

ASK ALL

Q37. Had you considered installing the measure(s) before you found out you could get help paying for them?

Please choose one answer only

1. Yes
2. No
3. It was not my decision to make because I'm renting the property

ASK IF Q37=1

Q38. Which of the following best applied to you?

Please choose one answer only

1. I had looked into installing the measure(s) but decided against it
2. I had looked into installing the measure(s) but not taken it any further
3. I had firm plans to install the measure(s) soon
4. I was in the process of installing the measure(s)

ASK IF Q37=2

Q39. Which of the following best applied to you?

Please choose one answer only

1. I had never heard of the measure(s)
2. I had heard of the measure(s) but was not aware that it/they could be installed in my home
3. I had heard of the measure(s) but had not thought about installing it/them in my home

ASK IF Q38 = 1

Q40. Why had you decided not to have the measure(s) installed?

Please choose all that apply

1. It would have been too expensive
2. It would have been too disruptive
3. I didn't think there would be any benefit
4. I didn't know where to go for more information
5. Lack of time
6. Been put off by negative stories about energy efficiency measures.
7. Another reason (please specify)

ASK ALL

Q41. Overall, how satisfied or dissatisfied were you with the process of having the measure(s) installed?

Please choose one answer only

1. Very satisfied

2. Fairly satisfied
3. Neither satisfied nor dissatisfied
4. Fairly dissatisfied
5. Very dissatisfied
6. Don't know

ASK ALL

Q42. Thinking about the time it took to have the measure(s) installed, how did this compare with your expectations?

Please choose one answer only

1. It took longer to install than expected
2. It took less time to install than expected
3. It took the amount of time that I expected
4. I had no expectations
5. Don't know

Before you had the energy saving measures installed

ASK ALL

Q43. Before you had the measure(s) installed, which, if any, of the following stopped you from making changes to your home to reduce heating costs?

Please choose all that apply.

1. Cost of improvements being too high
2. No guarantee that it would save me money
3. Didn't trust installers/suppliers
4. Confused/received conflicting information
5. Didn't know what to do
6. Hassle/disruption of making improvements
7. Other priorities (e.g. new baby, other home improvements)
8. Landlord/freeholder wouldn't allow/hadn't been discussed

9. Had never thought about trying to reduce heating costs
10. Had already done everything I could
11. Something else (please specify)
12. None of these

ASK ALL

Q44. And before you had your measure(s) installed did you have any of these problems with your home?

Please choose all that apply.

1. Difficulty heating my home to a comfortable temperature even with the heating on
2. It was too expensive to heat my home to a comfortable temperature
3. Damp walls, floors, foundations etc
4. Rot in windows frames or floors
5. Mould/mildew
6. Condensation/steamed up windows
7. Draughts
8. Something else (please specify)
9. None of these
10. Don't know

ASK ALL

Q45. Which of the following energy saving measures have you had installed in the last 5 years?

Were any of these installed at the same time, or within 6 months of (before or after) the measure(s) we have been asking you about?

Please do not include any measures that were already in the property when you moved in.

	Installed after the measure(s) we have been asking you about	Installed at same time / within 6 months of the measure(s)	Installed up to 5 years before the measure(s) we have been asking you about
Double glazing			
Loft insulation			
Cavity wall insulation			
Solid wall insulation			
New boiler or heating system			
Heating controls (e.g. thermostat)			
Draught proofing			
Low Energy Lighting			
Don't know			

ASK ALL

Q46. As a result of having energy saving measures installed, would you say you are more or less likely to consider other energy saving installations in the future?

Please choose one answer only

1. A lot more likely
2. A little more likely
3. No difference
4. A little less likely
5. A lot less likely
6. Don't know

ASK ALL

Q47. How likely are you to recommend similar energy saving measures under this scheme to people you know?

Please choose one answer only

1. I have already recommended similar measures
2. Very likely
3. Quite likely
4. Neither likely nor unlikely
5. Quite unlikely
6. Very unlikely
7. Don't know

Result of having the measure installed

The following questions are about the impact of the energy saving measures you had installed. If you had more than one thing installed around the same time, you may find it easier to think about the impact of all these things together.

ASK ALL

Q48. How much have you benefitted from having the measure(s) installed in your home?

Please choose one answer only

1. A great deal
2. A fair amount
3. Not very much
4. Not at all
5. Don't know
6. Too early to tell

ASK ALL

Q49. And which, if any, of these things have you noticed as a result of having the measure(s) installed?

Please choose all that apply

1. My home is warmer and more comfortable

2. My home is less draughty
3. I have less condensation
4. I have less mould or mildew
5. I have lower levels of damp
6. Lower levels of illness (e.g. colds, asthma)
7. None of these
8. Too early to tell

ASK ALL

Q50. And which of these things have happened as a result of the measure(s) you have had?

Please choose all that apply

1. I spend less on my energy bills
2. My heating is switched on for less time
3. My heating is switched on for longer
4. I use electric room heaters or other additional sources of heating less often
5. I use more rooms than you did before
6. None of these
7. Don't know

ASK ALL

Q51. Has your home generally felt warmer or cooler since the measure(s) were installed?

Please choose one answer only

1. A great deal warmer
2. A little warmer
3. About the same
4. A little cooler
5. A great deal cooler
6. Don't know

ASK ALL

Q52. Since the measure(s) were installed, which of the following best describes how the temperature drops when the heating is switched off?

Please choose one answer only

1. Drops a lot more quickly
2. Drops a little more quickly
3. Drops at about the same speed
4. Drops a little more slowly
5. Drops a lot more slowly
6. Don't know

ASK ALL

Q53. Have you had any of the following problems since your measure(s) were installed?

Please choose all that apply

1. Faults with the measures requiring repair
2. Damp walls, floors, foundations etc
3. Rot in windows frames or floors
4. Mould/mildew
5. Condensation/steamed up windows
6. Draughts
7. Something else (please specify)
8. None of these problems
9. Don't know

ASK ALL

Q54. Would you say your energy bills are now...

Please choose one answer only

1. A lot higher compared with before the energy saving measures were installed

2. A little higher compared with before the energy saving measures were installed
3. No different
4. A little lower compared with before the energy saving measures were installed
5. A lot lower compared with before the energy saving measures were installed
6. Don't know

ASK ALL

Q55. Would you say the measure(s) have had an impact on the health of you and/or other people in your household?

Please choose one answer only

1. Yes – impact on physical health
2. Yes – impact on mental health
3. Yes – impact on both physical and mental health
4. No - it has made no difference

ASK IF HAD AN IMPACT ON HEALTH (Q55 = 1-3)

Q56. What type of impact have the measure(s) had on the health of you and/or other people in your household?

Please choose one answer only

1. A strong positive impact
2. Some positive impact
3. Some negative impact
4. A strong negative impact
5. Don't know

Some questions about your household

We now have some questions about your household. Understanding more about who has energy saving measures installed in their home allows the Department for Business, Energy and Industrial Strategy (BEIS) to better develop policies in the future.

This research is carried out in line with the Market Research Society Code of Conduct and your answers will be completely confidential.

ASK ALL

Q57. Which of these options best describes the working status of the chief income earner in your household?

Please choose one answer only

1. Full-time paid work (30+ hours per week)
2. Part-time paid work (8 – 29 hours per week)
3. Part-time paid work (Under 8 hours per week)
4. Retired
5. Still at school
6. In full time higher education
7. Unemployed (seeking work)
8. Not in paid employment (not seeking work)

ASK ALL

Q58. Thinking back to when you had the measure(s) installed, which of these options best describes your household’s total income, before taxes and any other deductions at that time?

This includes the combined earnings of the household from employment or self-employment, income from benefits and pensions, and income from other sources such as interest from savings.

If you are an individual living in a shared house, please answer with your own income

Please choose the row which most closely applies. Please choose one answer only.

Annual	Monthly	Weekly
Under £5,000	Under £400	Under £100
£5,000 – £9,999	£400 – £829	£100 – £199
£10,000 – £15,999	£830 – £1329	£200 – £309
£16,000 – £19,999	£1,330 – £1,649	£310 – £389
£20,000 – £24,999	£1,650 – £2,099	£390 – £489
£25,000 – £29,999	£2,100 – £2,499	£490 – £579
£30,000 – £34,999	£2,500 – £2,899	£580 – £679
£35,000 – £39,999	£2,900 – £3,349	£680 – £769
£40,000 – £44,999	£3,350 – £3,749	£770 – £869
£45,000 – £49,999	£3,750 – £4,149	£870 – £969
£50,000 - £74,999	£4,150 - £6,249	£970 - £1,449
£75,000 or more	£6,250 or more	£1,450 or more

ASK IF Q58 = BLANK

IF YOU DID NOT ANSWER Q58 ABOUT YOUR HOUSEHOLD'S TOTAL INCOME, PLEASE ANSWER Q59

Q59. Is your household's total income, before taxes and any other deductions, £16,000 or more a year?

Please choose one answer only

1. Yes - £16,000 or more per year
2. No - less than £16,000 a year
3. Don't know
4. Prefer not to say

ASK ALL WHO RENT OR PAY A MORTGAGE

Q60. How frequently do you pay rent, or make a payment towards your mortgage?

Please choose one answer only

1. Weekly
2. Every two weeks
3. Every four weeks
4. Monthly
5. Quarterly (every three months)
6. Annually
7. Not applicable

ASK ALL WHO RENT

Q61. In this time period, how much rent does the landlord/council/housing association charge for your accommodation, excluding water rates?

ENTER NUMBER

Don't know

ASK ALL WHO OWN

Q62. In this time period, what is the total of your payments on (all) your mortgage(s) or loan(s) - please INCLUDE any payments for endowment policies but EXCLUDE any other items

ENTER NUMBER

Don't know

ASK ALL

Q63. Is anyone in your household, including yourself, currently receiving any of these benefits?

Please choose all that apply

1. None of these
2. Universal credit
3. Job seekers allowance
4. Income support
5. Employment support allowance
6. Working tax credit
7. Child benefit
8. Child tax credit
9. Pension credit
10. Housing benefit
11. Council Tax benefit
12. Disability Living Allowance/ others
13. Other state benefits
14. Don't know
15. Prefer not to answer

ASK ALL

Q64. Does anyone in your household have any long-standing illness, disability or infirmity that limits their normal day to day activities? *By 'long-standing' we mean anything that has troubled you over a period of time or that is likely to affect you over a period of time.*

Normal day to day activities include everyday things like eating, washing, walking and going shopping

Please choose one answer only

1. Yes
2. No

3. Prefer not to say

ASK IF HAS LONGSTANDING HEALTH CONDITION (Q64 =1)

Q65. To what extent does this long-standing illness, disability or infirmity limit the day to day activities of this person? *Normal day to day activities include everyday things like eating, washing, walking and going shopping*

Please choose one answer only

1. It limits their activities all of the time
2. It limits their activities some of the time

ASK IF HAS LONGSTANDING HEALTH CONDITION (Q64=1)

Q66. Do any of these conditions or illnesses affect this person in any of the following areas?

Please choose all that apply

1. Vision for example blindness or partial sight
2. Hearing for example deafness or partial hearing
3. Mobility for example walking short distances or climbing stairs
4. Dexterity for example lifting or carrying objects, using a keyboard
5. Learning or understanding or concentration
6. Memory
7. Mental health
8. Stamina or breathing or fatigue
9. Socially or behaviourally for example associated with autism, attention deficit order or Asperger's syndrome
10. Something else (please specify)

Final questions

ASK ALL

Q67. Kantar may conduct further research on this topic in the future. Would you be happy for someone from Kantar to re-contact you and invite you to participate in this research in the next 12 months?

Please choose one answer only

1. Yes

2. No

ASK ALL

Q68. The Department for Business, Energy and Industrial Strategy (BEIS) may conduct further research on this topic in the future. Would you be happy for someone from BEIS to re-contact you and invite you to participate in this research in the next 12 months?

Please choose one answer only

1. Yes

2. No

ASK ALL WHO AGREE TO EITHER RECONTACT

Q69. Please provide a telephone number that you would be happy to be contacted on.

ENTER NUMBER

ASK ALL WHO AGREE TO EITHER RECONTACT

Q70. Please provide your name in the box below.

ENTER NAME

ASK ALL WHO AGREE TO EITHER RECONTACT

Q71. Please provide your email address in the box below.

ENTER EMAIL

ASK ALL

We would like your permission to link the information you provided in this survey with other datasets held by the Government to help us understand people's experiences of using and paying for energy. These records include but are not limited to:

Department for Business, Energy and Industrial Strategy (BEIS) includes information on energy usage in your property

Department for Work and Pensions (DWP) includes information about benefit receipt

Department of Health and Social Care (DHSC) includes high-level information about your use of NHS services (e.g. number of appointments attended, or broad category of illness being treated)

You can change or withdraw your permissions at any time by contacting the research team at REDACTED or by calling REDACTED. If you withdraw your permission, data that has already been linked will be retained but no future linking will take place.

Q72. Do you give permission for the information you have provided in this survey and home address to be passed to the Department for Business, Energy and Industrial Strategy, so your records can be identified and linked to your survey responses?

Please choose one answer only

1. Yes
2. No

ASK ALL

This is the end of the survey. Thank you for taking part in the Energy Saving Survey.

Please return the questionnaire to us in the pre-paid envelope. Where can you get more information about the survey? Telephone REDACTED

Email: REDACTED

You can contact Kantar if you have accessibility requirements, or difficulties completing the questionnaire. If it is difficult for you to complete the questionnaire, you can ask a friend, family member or carer to help you or fill it in on your behalf.

Wave 2

KANTAR



Department for
Business, Energy
& Industrial Strategy

Energy Saving Survey

This survey is about the [MEASURE FROM DATABASE] that you had installed in [MM/YY].

This survey is about the below measures which you have had installed:

- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]

Thank you for taking the time to answer these questions. The questionnaire should take no longer than 25 minutes to complete and we will keep your answers completely confidential.

As a thank you for taking part we will send you a £10 voucher.

Who should complete the questionnaire?

Any adult aged 16 or older can complete the questionnaire as long as they have joint or sole responsibility for energy bills and were living in this property when the energy saving measures were installed.

How do I fill out the questionnaire?

Please answer the questions as fully as you are able by crossing the boxes or writing in the spaces provided. Please return the completed questionnaire in the pre-paid envelope.

Most questions on the following pages can be answered by putting a cross in the box next to the answer that applies to you, like this:

Occasionally a question will ask you to “choose all that apply.” Please cross as many boxes as apply to you when you see this instruction.

Please try to answer every question. If you cannot remember, do not know, or the question does not apply to you then please cross the relevant box where shown or leave the question blank.

If you mark the wrong box, fill in the box and put a cross in the right one like this:

Please use black or blue ink to complete the questionnaire.

If it is difficult for you to complete the questionnaire, you can ask a friend, family member or carer to help you or fill it in on your behalf.

Where can I get more information?

 REDACTED

 Survey helpline: REDACTED

If you have any queries about the survey or need help completing the questionnaire, please contact Kantar.

Thank you for taking the time to complete this questionnaire

ASK ALL

Q1. Firstly, can we check that the energy saving improvements described on the front page were installed at this property, and that you or someone else still living there lived there at the time?

Please choose one answer only

1. Yes
2. No
3. Don't know

If yes, please complete the survey. If no or don't know, there is no need to take part.

To begin, we have a few questions about the property that you currently live in

ASK ALL

Q3. Do you (or your household) own or rent the home that you live in?

Please choose one answer only

1. Own home outright (no mortgage to pay off)
2. Own home but with a mortgage to pay off
3. Part own and part rent (shared ownership)
4. Rent privately
5. Rent from council or local authority
6. Rent from housing association, housing co-operative, charitable trust or registered social landlord
7. Live here rent-free
8. Something else (please specify)

ASK ALL

Q4. Roughly when was your home built?

If you are not sure, please select 'Don't know'

Please choose one answer only

1. Before 1919
2. 1919 – 1930
3. 1931 – 1944
4. 1945 - 1964
5. 1965 - 1980
6. 1981 - 1990
7. 1991- 1995
8. 1996 – 2001
9. After 2002
10. Don't know

ASK ALL

Q5. How many people are there in your household altogether, including any children and yourself? *Please write in the box provided*

ENTER NUMBER

ASK ALL

Q6. And what is the gender of each person in your household? Please include yourself and any children. Please tick one answer per person only

[show spaces for up to 10 people]

1. Male
2. Female
3. In another way
4. Prefer not to say

ASK ALL

Q7. And how old is each person in your household? Again, please include yourself and any children. Please tick one answer per person only

AGE CATEGORIES for up to 10 people:

1. Under 5

- 2. 6-13
- 3. 14-17
- 4. 18-64
- 5. 65+

Details of heating in home

ASK ALL

Q8. Thinking about an average week during last winter (before coronavirus restrictions were introduced), on how many week days (Mon-Fri) was someone at home during the day (9am-5pm)?

Please write in the box provided

ENTER NUMBER

ASK ALL

Q9. Before you had the measures installed, did your property have any of the following?

Please tick one answer per row

	Yes	No	Don't know
1. Double or triple glazing			
2. Loft insulation			
3. Wall insulation			
4. Draught proofing			
5. Solar panels			
6. Heat pump			
7. Smart meter			

ASK ALL

Q10. Before the installation of the measure(s), which of these was the main way you heated your home?

Please choose all that apply

1. Central heating – mains gas
2. Central heating – other (e.g. oil or liquid petroleum gas)
3. Electric radiators or storage heaters
4. Open fire or wood burning stove
5. Something else (please specify)
6. Don't know

ASK ALL

Q11. Before the installation of the measure(s), which of these other type(s) of heater did you use in your home?

Please choose all that apply

1. Gas fire (mains gas)
2. Gas fire (bottled gas)
3. Electric plug-in room heaters (including fan/radiant heaters)
4. Other electric heaters (including towel rails or underfloor heating)
5. Open fire burning coal/wood/smokeless fuel
6. Enclosed fire or stove burning coal / wood / smokeless fuel
7. Aga or Rayburn stove (any fuel)
8. Something else (please specify)
9. None of these

ASK IF USE OTHER TYPES OF HEATING (Q10=1-8)

Q12. Thinking about these other types of heater, overall, do you use them more or less often since installing the measure(s)?

Please choose one answer only

1. Use a lot less now
2. Use a little less now
3. No difference

4. Use a little more now
5. Use a lot more now

ASK ALL

Q14. What help, if any, does your household receive to help with fuel bills?

Please choose all that apply

1. Winter fuel payment
2. Warm home discount scheme
3. Cold weather payment
4. National Concessionary Fuel Scheme
5. None of these
6. Don't know

ASK ALL

Q15. As a result of the measure(s) being installed, would you say your energy bills are more or less affordable now?

Please choose one answer only

1. More affordable now
2. No difference
3. Less affordable now
4. Don't know
5. Too early to tell

ASK ALL

Q16. Before the measure(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?

Please choose one answer only

1. Very easy
2. Easy
3. Difficult
4. Very difficult
5. Don't know

ASK ALL

Q18. After the measure(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?

Please choose one answer only

1. Very easy
2. Easy
3. Difficult
4. Very difficult
5. Don't know

How you found out about the energy saving measures

ASK ALL

Q20. How did you find out that you might be able to have measure(s) installed?

Please choose one answer only

1. Approached by salesperson (knocking on your door or calling you)
2. Leaflet or letter
3. Advert, on the news or online
4. Through a friend or relative/word of mouth
5. Some other way (please specify)
6. Don't know/can't remember

ASK IF Q20 = 1,2

Q21. And was this from...

Please choose one answer only

1. An energy company or a company installing the measure
2. My landlord/local council/housing association
3. A charity/community group/other advice service
4. Someone else (please specify)
5. Don't know / can't remember

ASK ALL

Q22. Did you feel pressured at any point into having the measure(s) installed?

Please choose one answer only

1. Yes
2. No
3. Don't know

ASK ALL

Q23. At the time when you found out about the measure(s), did any of the following organisations recommend that you could get them installed?

Please choose all that apply

1. A registered charity
2. A community group
3. A health service
4. Your local council
5. None of the above

ASK ALL

Q24. Were you ever told that you were eligible to have the measure(s) installed for any of the following reasons?

Please choose all that apply

1. I live in council/local authority/housing association property

2. Someone in the household receives certain benefits/tax credits
3. Someone aged 60+ lives in the household
4. A disabled person lives in the household
5. Someone in the household has a health condition
6. Dependent children live in the household
7. The type of property I live in (e.g. with solid walls or hard to treat cavity walls)
8. The area I live in
9. I was not told why I was eligible
10. Don't know/can't remember

ASK ALL

Q25. What were your reasons for having the measure(s) installed?

Please choose all that apply

1. To save money on energy bills
2. To make my home warmer or more comfortable
3. To bring my home up to modern standards
4. The boiler/heating was broken or nearing the end of its life
5. To increase my home's value
6. To reduce energy use for environmental reasons
7. I was doing other work to my home
8. The measures were offered for free/at a reduced price
9. I was offered insulation to get new heating
10. I had no choice – landlord/building owner said that the work had to be done
11. Another reason (please specify)
12. Don't know/can't remember

ASK ALL

Q26. If you had more than one measure installed at the same time, why did you choose to have both of these installed at the same time?

Please choose all that apply

1. I was only allowed one if I also had another measure
2. I was advised that having both would be best for me
3. I asked if I could have both
4. The measures were offered for free/at a reduced price
5. Another reason [please specify]
6. Not applicable – I only had one measure
7. Don't know

ASK ALL

Q27. Were you made aware of the range of different energy saving measures you could have had installed in your home?

Please choose one answer only

1. Yes
2. No
3. Don't know/Don't remember

ASK ALL

Q28. To what extent do you agree or disagree with the following statement:

'I would have been interested in having more measures installed if they had been available at the same time or shortly afterwards'

Please choose one answer only

1. Strongly agree
2. Agree
3. Neither agree nor disagree
4. Disagree
5. Strongly disagree
6. Don't know

Ask if would not have been interested in having more measures installed (Q28=3 or 4)

Q29. Why would you not have been interested in having more measures installed at the same time or shortly afterwards, if they had been available?

Please choose all that apply

1. It would have been too disruptive
2. It would have been too expensive to have everything done at once
3. I don't believe more measures would make much difference to my home
4. The landlord/freeholder wouldn't allow it
5. Another reason (please specify)
6. Don't know

ASK ALL

Q30. Did you receive enough advice in advance about the measure(s) you had installed?

Please choose one answer only

1. Yes
2. No
3. Don't know/Don't remember

ASK ALL

Q31. Did anyone involved in the installation discuss with you if the measure(s) might influence ventilation, condensation and/or mould growth in your home?

Please choose one answer only

1. Yes
2. No
3. Don't know/can't remember

ASK ALL

Q33. Were you given a guarantee with instructions about what to do if there were problems with the measure(s)?

Please choose one answer only

1. Yes
2. No
3. Don't know/Don't remember

The energy saving installation.

ASK ALL

Q34. Were the measure(s) installed for free, or did you pay towards the cost of installation?

Please choose one answer only

1. It was free
2. I paid towards the cost of installation
3. Don't know

ASK IF Q36 = 2

Q35. How much in total did you pay towards the cost of having the measure(s) installed?
Please provide your best estimate

Please write in the boxes provided

ENTER NUMBER

ASK IF Q33 = 2

Q36. Did you do any of the following to pay for the measure(s)?

Please choose all that apply

1. Get a loan
2. Extend my mortgage
3. Use a credit card
4. Borrow from family or friends
5. Use money from savings
6. Use money from regular income
7. None of these

ASK ALL

Q37. How likely would you have been to have the measure(s) installed, if there had been no help with funding?

Please choose one answer only

1. Very likely
2. Fairly likely
3. Fairly unlikely
4. Very unlikely
5. Don't know

ASK ALL

Q38. Overall, how satisfied or dissatisfied were you with the process of having the measure(s) installed?

Please choose one answer only

1. Very satisfied
2. Fairly satisfied
3. Neither satisfied nor dissatisfied
4. Fairly dissatisfied
5. Very dissatisfied
6. Don't know

ASK ALL

Q39. Thinking about the time it took to have the measure(s) installed, how did this compare with your expectations?

Please choose one answer only

1. It took longer to install than expected
2. It took less time to install than expected
3. It took the amount of time that I expected
4. I had no expectations
5. Don't know

Before you had the energy saving measures installed

ASK ALL

Q40. Before you had the measure(s) installed, which, if any, of the following stopped you from making changes to your home to reduce heating costs?

Please choose all that apply.

1. Cost of improvements being too high
2. No guarantee that it would save me money
3. Didn't trust installers/suppliers
4. Confused/received conflicting information
5. Didn't know what to do
6. Hassle/disruption of making improvements
7. Other priorities (e.g. new baby, other home improvements)
8. Landlord/freeholder wouldn't allow/hadn't been discussed
9. Had never thought about trying to reduce heating costs
10. Had already done everything I could
11. Something else (please specify)
12. None of these

ASK ALL

Q41. And before you had your measure(s) installed did you have any of these problems with your home?

Please choose all that apply.

1. Difficulty heating my home to a comfortable temperature even with the heating on
2. It was too expensive to heat my home to a comfortable temperature
3. Damp walls, floors, foundations etc
4. Rot in windows frames or floors
5. Mould/mildew

6. Condensation/steamed up windows
7. Draughts
8. Something else (please specify)
9. None of these
10. Don't know

ASK ALL

Q42. Before you found out you could get help paying for the measure(s), which of these best applied to you?

Please choose one answer only

1. I had never heard of the measure(s)
2. I had heard of the measure(s) but was not aware that it/they could be installed in my home
3. I had heard of the measure(s) but had not thought about installing it/them in my home
4. I had looked into installing the measure(s) but decided against it
5. I had looked into installing the measure(s) but not taken it any further
6. I had firm plans to install the measure(s) soon
7. I was in the process of installing the measure(s)
8. It was not my decision to make because I'm renting the property

ASK IF Q44=4 or 5

Q43. Why had you decided not to have the measure(s) installed?

Please choose all that apply

1. I researched the cost for the work but it would have been too expensive.
2. It would have been too disruptive to get the work done
3. I did not think there would be enough benefit from having the measure(s)
4. I did not know where to go for more information
5. I did not have time to get the work done
6. I was put off by negative stories about energy efficiency measures
7. Another reason (please specify)

ASK ALL

Q44. In addition to the measure(s) we have been asking you about, have you had other energy saving measures installed?

Please do not include the measures that are on the front of the questionnaire, or any measures that were already in the property when you moved in. We are interested in any additional measures you have had installed.

	Installed at around the same time as the measure(s) we have been asking you about	Installed after the measure(s) we have been asking you about	Installed up to 3 years before the measure(s) we have been asking you about
Insulation			
New windows or doors			
New boiler or heating system			

ASK ALL

Q45. As a result of having energy saving measures installed, would you say you are more or less likely to consider other energy saving installations in the future?

Please choose one answer only

1. A lot more likely
2. A little more likely
3. No difference
4. A little less likely
5. A lot less likely
6. Don't know

ASK ALL

Q46. How likely are you to recommend similar energy saving measures under this scheme to people you know?

Please choose one answer only

1. I have already recommended similar measures
2. Very likely
3. Quite likely
4. Neither likely nor unlikely
5. Quite unlikely
6. Very unlikely
7. Don't know

Q47. Coronavirus restrictions have been in force in the UK since March 2020. Did these restrictions impact on your decision to install the energy saving measure(s) in any of the following ways?

Please choose all that apply

1. I installed more measure(s) than planned
2. I installed fewer measure(s) than planned
3. I installed the measures sooner than planned
4. I delayed installing the measure(s)
5. Another way (please specify in the box provided)
6. None of these
7. Don't know

Result of having the measure installed

The following questions are about the impact of the energy saving measures you had installed. If you had more than one thing installed around the same time, you may find it easier to think about the impact of all these things together.

ASK ALL

Q48. How much have you benefitted from having the measure(s) installed in your home?

Please choose one answer only

1. A great deal
2. A fair amount

3. Not very much
4. Not at all
5. Don't know
6. Too early to tell

ASK ALL

Q49. And which, if any, of these things have you noticed as a result of having the measure(s) installed?

Please choose all that apply

1. My home is warmer and more comfortable
2. My home is less draughty
3. I have less condensation
4. I have less mould or mildew
5. I have lower levels of damp
6. Lower levels of illness (e.g. colds, asthma)
7. The value of my home has increased
8. None of these
9. Too early to tell

ASK ALL

Q50. And which of these things have happened as a result of the measure(s) you have had?

Please choose all that apply

1. I spend less on my energy bills
2. My heating is switched on for less time
3. My heating is switched on for longer
4. I use electric room heaters or other additional sources of heating less often
5. I use more rooms than you did before
6. None of these
7. Don't know
8. Too early to tell

ASK ALL

Q51. Has your home generally felt warmer or cooler since the measure(s) were installed?

Please choose one answer only

1. A great deal warmer
2. A little warmer
3. About the same
4. A little cooler
5. A great deal cooler
6. Don't know

ASK ALL

Q52. Since the measure(s) were installed, which of the following best describes how the temperature drops when the heating is switched off?

Please choose one answer only

1. Drops a lot more quickly
2. Drops a little more quickly
3. Drops at about the same speed
4. Drops a little more slowly
5. Drops a lot more slowly
6. Don't know

ASK ALL

Q53. Have you had any of the following problems since your measure(s) were installed?

Please choose all that apply

1. Faults with the measures requiring repair
2. Damp walls, floors, foundations etc
3. Rot in windows frames or floors
4. Mould/mildew
5. Condensation/steamed up windows
6. Draughts

7. Something else (please specify)
8. None of these problems
9. Don't know

ASK ALL WHO HAD FAULTS WITH THE MEASURE (Q53=1)

Q54. Who paid for the repairs to be made?

Please choose all that apply

1. The energy company or the company installing the measure(s)
2. My landlord/local authority/housing association
3. I had to pay
4. Someone else
5. The repairs have not been made yet
6. Don't know

ASK ALL

Q55. Would you say your energy bills are now...

Please choose one answer only

1. A lot higher compared with before the energy saving measures were installed
2. A little higher compared with before the energy saving measures were installed
3. No different
4. A little lower compared with before the energy saving measures were installed
5. A lot lower compared with before the energy saving measures were installed
6. Don't know
7. Too early to tell

ASK ALL

Q56. Would you say the measure(s) have had an impact on the health of you and/or other people in your household?

Please choose one answer only

1. Yes – impact on physical health
2. Yes – impact on mental health
3. Yes – impact on both physical and mental health
4. No - it has made no difference
5. Too early to tell

ASK IF HAD AN IMPACT ON HEALTH (Q57 = 1-3)

Q57. What type of impact have the measure(s) had on the health of you and/or other people in your household?

Please choose one answer only

1. A strong positive impact
2. Some positive impact
3. Some negative impact
4. A strong negative impact
5. Don't know

Some questions about your household

We now have some questions about your household. Understanding more about who has energy saving measures installed in their home allows the Department for Business, Energy and Industrial Strategy (BEIS) to better develop policies in the future. This research is carried out in line with the Market Research Society Code of Conduct and your answers will be completely confidential.

ASK ALL

Q58. Which of these options best describes the working status of the chief income earner in your household?

Please choose one answer only

1. Full-time paid work (30+ hours per week)
2. Part-time paid work (8 – 29 hours per week)
3. Part-time paid work (Under 8 hours per week)

4. Retired
5. Still at school
6. In full time higher education
7. Unemployed (seeking work)
8. Not in paid employment (not seeking work)

ASK ALL

Q59. Thinking back to when you had the measure(s) installed, which of these options best describes your household’s total income, before taxes and any other deductions at that time?

This includes the combined earnings of the household from employment or self-employment, income from benefits and pensions, and income from other sources such as interest from savings.

If you are an individual living in a shared house, please answer with your own income

Please choose the row which most closely applies. Please choose one answer only.

Annual	Monthly	Weekly
Under £5,000	Under £400	Under £100
£5,000 – £15,999	£400 – £1,329	£100 – £309
£16,000 – £24,999	£1,330 – £2,099	£310 – £489
£25,000 – £34,999	£2,100 – £2,899	£490 – £679
£35,000 – £44,999	£2,900 – £3,749	£680 – £869
£45,000 – £54,999	£3,750 – £4,579	£870 – £1,049
£50,000 - £74,999	£4,580 – £6,249	£1,050 - £1,449
£75,000 or more	£6,250 or more	£1,450 or more

ASK IF Q59 = BLANK

IF YOU DID NOT ANSWER Q58 ABOUT YOUR HOUSEHOLD’S TOTAL INCOME, PLEASE ANSWER Q59

Q60. Is your household’s total income, before taxes and any other deductions, £16,000 or more a year?

Please choose one answer only

1. Yes - £16,000 or more per year
2. No - less than £16,000 a year
3. Don't know
4. Prefer not to say

ASK ALL WHO RENT OR PAY A MORTGAGE

Q61. How frequently do you pay rent, or make a payment towards your mortgage?

Please choose one answer only

1. Weekly
2. Every two weeks
3. Every four weeks
4. Monthly
5. Quarterly (every three months)
6. Annually
7. Do not pay any rent or mortgage
8. Don't know

ASK ALL WHO RENT

Q61. In this time period, how much rent does the landlord/council/housing association charge for your accommodation, excluding water rates?

ENTER NUMBER

Don't know

ASK ALL WHO OWN

Q62. In this time period, what is the total of your payments on your mortgage for this property- please INCLUDE any payments for endowment policies but EXCLUDE any other items

ENTER NUMBER

Don't know

ASK ALL

Q64. Is anyone in your household, including yourself, currently receiving any of these benefits?

Please choose all that apply

1. Income Support
2. Income-Based Jobseeker's Allowance (JSA)
3. Income-Based Employment and Support Allowance (ESA)
4. Universal Credit
5. Pension Guarantee Credit (excluding Pension Savings Credit)
6. Child Tax Credit
7. Working Tax Credit
8. Disability Living Allowance
9. Personal Independence Payment (PIP)
10. Attendance Allowance
11. Carer's Allowance
12. Severe Disablement Allowance
13. Industrial Injuries Disablement Benefits
14. Contribution-Based Jobseeker's Allowance (JSA)
15. Contribution-Based Employment and Support Allowance (ESA)
16. Housing Benefit
17. Other state benefits
18. Don't know
19. Prefer not to answer

ASK ALL

Q65. What is the ethnic group of people within your household?

Please choose all the options that best describes the ethnic group or background of the people within your household. You can select more than one option.

1. White English/Welsh/Scottish/Northern Irish/British
2. Any other White background

3. Indian
4. Pakistani
5. Bangladeshi
6. Chinese
7. Any other Asian background
8. Black African
9. Black Caribbean
10. Any other Black background
11. Arab
12. Any other single ethnic group
13. Mixed / Multiple ethnic groups

ASK ALL

Q66. Does anyone in your household have any long-standing illness, disability or infirmity that limits their normal day to day activities? *By 'long-standing' we mean anything that has troubled you over a period of time or that is likely to affect you over a period of time.*

Normal day to day activities include everyday things like eating, washing, walking and going shopping

Please choose one answer only

1. Yes
2. No
3. Prefer not to say

ASK IF HAS LONGSTANDING HEALTH CONDITION (Q64 =1)

Q67. To what extent does this long-standing illness, disability or infirmity limit the day to day activities of this person? *Normal day to day activities include everyday things like eating, washing, walking and going shopping*

Please choose one answer only

1. It limits their activities all of the time
2. It limits their activities some of the time

ASK IF HAS LONGSTANDING HEALTH CONDITION (Q64=1)

Q68. Do any of these conditions or illnesses affect this person in any of the following areas?

Please choose all that apply

1. Vision for example blindness or partial sight
2. Hearing for example deafness or partial hearing
3. Mobility for example walking short distances or climbing stairs
4. Dexterity for example lifting or carrying objects, using a keyboard
5. Learning or understanding or concentration
6. Memory
7. Mental health
8. Stamina or breathing or fatigue
9. Socially or behaviourally for example associated with autism, attention deficit order or Asperger's syndrome
10. Something else (please specify)

Q69. In September 2020, the UK Government introduced the Green Homes Grant, a new scheme which will pay towards the costs of energy saving home improvements to your home.

Had you heard of the Green Homes Grant before today?

Please choose one answer only

1. Yes, and I have already applied or used the scheme
2. Yes, and I am considering applying
3. Yes, but I have not considered applying
4. Yes, but I am not eligible for the scheme
5. No, I had not heard of it before today
6. I am not sure whether I have heard of it before today

Final questions

ASK ALL

Q70. Kantar may conduct further research on this topic in the future. Would you be happy for someone from Kantar to re-contact you and invite you to participate in this research in the next 12 months?

Please choose one answer only

1. Yes
2. No

ASK ALL

Q71. The Department for Business, Energy and Industrial Strategy (BEIS) may conduct further research on this topic in the future. Would you be happy for someone from BEIS to re-contact you and invite you to participate in this research in the next 12 months?

Please choose one answer only

1. Yes
2. No

ASK ALL WHO AGREE TO EITHER RECONTACT

Q72. Please provide a telephone number that you would be happy to be contacted on.

ENTER NUMBER

ASK ALL WHO AGREE TO EITHER RECONTACT

Q73. Please provide your name in the box below.

ENTER NAME

ASK ALL WHO AGREE TO EITHER RECONTACT

Q74. Please provide your email address in the box below.

ENTER EMAIL

ASK ALL

We would like your permission to link the information you provided in this survey with other datasets held by the Government to enrich the research findings to help us understand

people's experiences of using and paying for energy. These records include but are not limited to:

Department for Business, Energy and Industrial Strategy (BEIS) includes information on energy usage in your property

Department for Work and Pensions (DWP) includes information about benefit receipt

Department of Health and Social Care (DHSC) includes high-level information about your use of NHS services (e.g. number of appointments attended, or broad category of illness being treated)

You can change or withdraw your permissions at any time by contacting the research team at REDACTED <mailto:energysavingsurvey@kantar.com> or by calling REDACTED . If you withdraw your permission, data that has already been linked will be retained but no future linking will take place.

Q75. Do you give permission for the information you have provided in this survey to be linked to your home address to be passed to the Department for Business, Energy and Industrial Strategy, so your records can be identified and linked to your survey responses?

Please choose one answer only

1. Yes

2. No

ASK ALL

This is the end of the survey. Thank you for taking part in the Energy Saving Survey.

Please return the questionnaire to us in the pre-paid envelope. Where can you get more information about the survey? Telephone REDACTED

Email: REDACTED

You can contact Kantar if you have accessibility requirements, or difficulties completing the questionnaire. If it is difficult for you to complete the questionnaire, you can ask a friend, family member or carer to help you or fill it in on your behalf.

Wave 3

KANTAR



Department for
Business, Energy
& Industrial Strategy

Energy Saving Survey

This survey is about the [MEASURE FROM DATABASE] that you had installed in [MM/YY].

This survey is about the below measures which you have had installed:

- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]
- [MEASURE FROM DATABASE] that you had installed in [MM/YY]

Thank you for taking the time to answer these questions. The questionnaire should take no longer than 25 minutes to complete and we will keep your answers completely confidential.

As a thank you for taking part we will send you a £10 voucher.

Who should complete the questionnaire?

Any adult aged 16 or older can complete the questionnaire as long as they have joint or sole responsibility for energy bills and were living in this property when the energy saving measures were installed.

How do I fill out the questionnaire?

Please answer the questions as fully as you are able by crossing the boxes or writing in the spaces provided. Please return the completed questionnaire in the pre-paid envelope.

Most questions on the following pages can be answered by putting a cross in the box next to the answer that applies to you, like this:

Occasionally a question will ask you to “choose all that apply.” Please cross as many boxes as apply to you when you see this instruction.

Please try to answer every question. If you cannot remember, do not know, or the question does not apply to you then please cross the relevant box where shown or leave the question blank.

If you mark the wrong box, fill in the box and put a cross in the right one like this:

Please use black or blue ink to complete the questionnaire.

If it is difficult for you to complete the questionnaire, you can ask a friend, family member or carer to help you or fill it in on your behalf.

Where can I get more information?



Survey helpline: REDACTED

If you have any queries about the survey or need help completing the questionnaire, please contact Kantar.

Thank you for taking the time to complete this questionnaire

ASK ALL

Q1. Firstly, can we check that the energy saving improvements described on the front page were installed at this property, and that you or someone else still living there lived there at the time?

Please choose one answer only

1. Yes
2. No
3. Don't know

If yes, please complete the survey. If no or don't know, there is no need to take part.

To begin, we have a few questions about the property that you currently live in

ASK ALL

Q2. Do you (or your household) own or rent the home that you live in?

Please choose one answer only

1. Own home outright (no mortgage to pay off)
2. Own home but with a mortgage to pay off
3. Part own and part rent (shared ownership)
4. Rent privately
5. Rent from council or local authority
6. Rent from housing association, housing co-operative, charitable trust or registered social landlord
7. Live here rent-free
8. Something else (please specify)

ASK ALL

Q3. Roughly when was your home built?

If you are not sure, please select 'Don't know'

Please choose one answer only

1. Before 1919

2. 1919 – 1930
3. 1931 – 1944
4. 1945 - 1964
5. 1965 - 1980
6. 1981 - 1990
7. 1991- 1995
8. 1996 – 2001
9. After 2002
10. Don't know

ASK ALL

Q4. How many people are there in your household altogether, including any children and yourself? *Please write in the box provided*

ENTER NUMBER

ASK ALL

Q5. And how old is each person in your household? Again, please include yourself and any children. Please tick one answer per person only

AGE CATEGORIES for up to 10 people:

1. Under 5
2. 6-13
3. 14-17
4. 18-64
5. 65+

Details of heating in home

ASK ALL

Q6. Thinking about an average week during last winter, on how many week days (Mon-Fri) was someone at home during the day (9am-5pm)?

Please write in the box provided

ENTER NUMBER

ASK ALL

Q7. Before you had the measures installed, did your property have any of the following?

Please tick one answer per row

	Yes	No	Don't know
1. Double or triple glazing			
2. Loft insulation			
3. Wall insulation			
4. Draught proofing			
5. Solar panels			
6. Heat pump			
7. Smart meter			

ASK ALL

Q8. Before the installation of the measure(s), which of these was the main way you heated your home?

Please choose all that apply

1. Central heating – mains gas
2. Central heating – other (e.g. oil or liquid petroleum gas)
3. Electric radiators or storage heaters
4. Open fire or wood burning stove
5. Something else (please specify)
6. Don't know

ASK ALL

Q9. Before the installation of the measure(s), which of these other type(s) of heater did you use in your home?

Please choose all that apply

1. Gas fire (mains gas)
2. Gas fire (bottled gas)
3. Electric plug-in room heaters (including fan/radiant heaters)
4. Other electric heaters (including towel rails or underfloor heating)
5. Open fire burning coal/wood/smokeless fuel
6. Enclosed fire or stove burning coal / wood / smokeless fuel
7. Aga or Rayburn stove (any fuel)
8. Something else (please specify)
9. None of these [skip to Q11]

ASK IF USE OTHER TYPES OF HEATING (Q9=1-8)

Q10. Thinking about these other types of heater, overall, do you use them more or less often since installing the measure(s)?

Please choose one answer only

1. Use a lot less now
2. Use a little less now
3. No difference
4. Use a little more now
5. Use a lot more now

ASK ALL

Q11. The energy price cap is the maximum amount that energy suppliers can charge per unit for gas and electric. In February 2022 it was announced that the price cap will increase. Since the change in the energy price cap, have your energy bills changed?

My energy bills have gone up by a lot

My energy bills have gone up by a little

There has been no change

My energy bills have gone down by a little

My energy bills have gone down by a lot

Don't know

Too early to tell

ASK ALL

Q12. Since the change in the energy price cap was announced, have you reduced your energy use?

Please select all that apply

Yes - I use less energy now to minimise costs

Yes - I use less energy now due to warmer weather

No

Don't know

Too early to tell

ASK ALL

Q13. What support, if any, does your household receive to help with fuel bills?

Please choose all that apply

1. Winter fuel payment

2. Warm home discount scheme

3. Cold weather payment

4. National Concessionary Fuel Scheme

5. None of these

6. Don't know

ASK ALL

Q14. Before the measure(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?

Please choose one answer only

1. Very easy

2. Easy

3. Difficult
4. Very difficult
5. Don't know

ASK ALL

Q15. After the measure(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?

Please choose one answer only

1. Very easy
2. Easy
3. Difficult
4. Very difficult
5. Don't know

How you found out about the energy saving measures

ASK ALL

Q16. How did you find out that you might be able to have measure(s) installed?

Please choose one answer only

1. Approached by salesperson (knocking on your door or calling you)
2. Leaflet or letter
3. Advert, on the news or online
4. Through a friend or relative/word of mouth
5. Some other way (please specify)
6. Don't know/can't remember

ASK ALL

Q17. Did you feel pressured at any point into having the measure(s) installed?

Please choose one answer only

1. Yes

2. No
3. Don't know

ASK ALL

Q18. At the time when you found out about the measure(s), did any of the following organisations recommend that you could get them installed?

Please choose all that apply

1. A registered charity
2. A community group
3. A health service
4. Your local council
5. None of the above

ASK ALL

Q19. Were you ever told that you were eligible to have the measure(s) installed for any of the following reasons?

Please choose all that apply

1. I live in council/local authority/housing association property
2. Someone in the household receives certain benefits/tax credits
3. Someone aged 60+ lives in the household
4. A disabled person lives in the household
5. Someone in the household has a health condition
6. Dependent children live in the household
7. The type of property I live in (e.g. with solid walls or hard to treat cavity walls)
8. The area I live in
9. I was not told why I was eligible
10. Don't know/can't remember

ASK ALL

Q20. What were your reasons for having the measure(s) installed?

Please choose all that apply

1. To save money on energy bills
2. To make my home warmer or more comfortable
3. To update or modernise the heating and insulation in my home
4. The boiler/heating was broken or nearing the end of its life
5. To increase my home's value
6. To reduce energy use for environmental reasons
7. I was doing other work to my home
8. The measures were offered for free/at a reduced price
9. I was offered insulation to get new heating
10. I had no choice – landlord/building owner said that the work had to be done
11. Another reason (please specify)
12. Don't know/can't remember

ASK ALL

Q21. If you had more than one measure installed at the same time, why did you choose to have both of these installed at the same time?

Please choose all that apply

1. I was only allowed one if I also had another measure
2. I was advised that having both would be best for me
3. I asked if I could have both
4. The measures were offered for free/at a reduced price
5. Another reason [please specify]
6. Not applicable – I only had one measure
7. Don't know

ASK ALL

Q22. Were you made aware of the range of different energy saving measures you could have had installed in your home?

Please choose one answer only

1. Yes
2. No
3. Don't know/Can't remember

ASK ALL

Q23. To what extent do you agree or disagree with the following statement:

'I would have been interested in having more measures installed if they had been available at the same time or shortly afterwards'

Please choose one answer only

1. Strongly agree [skip to Q25]
2. Agree [skip to Q25]
3. Neither agree nor disagree [skip to Q25]
4. Disagree
5. Strongly disagree
6. Don't know [skip to Q25]

Ask if would not have been interested in having more measures installed (Q23=4 or 5)

Q24. Why would you not have been interested in having more measures installed at the same time or shortly afterwards, if they had been available?

Please choose all that apply

It would have been too disruptive

It would have been too expensive to have everything done at once

I didn't think more measures would have made my home any warmer

I didn't think more measures would have made my energy bills cheaper

The landlord/freeholder wouldn't allow it

Another reason (please specify)

Don't know

ASK ALL

Q25. Did you receive enough advice in advance about the measure(s) you had installed?

Please choose one answer only

1. Yes
2. No
3. Don't know/Can't remember

ASK ALL

Q26. Did anyone involved in the installation discuss with you if the measure(s) might influence ventilation, condensation and/or mould growth in your home?

Please choose one answer only

1. Yes
2. No
3. Don't know/Can't remember

ASK ALL

Q27. Were you given a guarantee with instructions about what to do if there were problems with the measure(s)?

Please choose one answer only

1. Yes
2. No
3. Don't know/Can't remember

The energy saving installation.

ASK ALL

Q28. Were the measure(s) installed for free, or did you pay towards the cost of installation?

Please choose one answer only

1. It was free [skip to Q31]
2. I paid towards the cost of installation
3. Don't know [skip to Q31]

ASK IF Q28 = 2

Q29. How much in total did you pay towards the cost of having the measure(s) installed?
Please provide your best estimate

Please write in the boxes provided

ENTER NUMBER

ASK IF Q28= 2

Q30. Did you do any of the following to pay for the measure(s)?

Please choose all that apply

1. Get a loan
2. Extend my mortgage
3. Use a credit card
4. Borrow from family or friends
5. Use money from savings
6. Use money from regular income
7. None of these

ASK ALL

Q31. How likely would you have been to have the measure(s) installed, if there had been no help with funding?

Please choose one answer only

1. Very likely

2. Fairly likely
3. Fairly unlikely
4. Very unlikely
5. Don't know

ASK ALL

Q32. If you had more than one measure installed, which of the following best describes what you would have done if there had been no help with funding?

Please choose one answer only

I would have had all the measures installed anyway

I would have had some of the measures installed but not others

I would not have had any of the measures installed

Not applicable – I only had one measure

Don't know

ASK ALL

Q33. Overall, how satisfied or dissatisfied were you with the process of having the measure(s) installed?

Please choose one answer only

1. Very satisfied
2. Fairly satisfied
3. Neither satisfied nor dissatisfied
4. Fairly dissatisfied
5. Very dissatisfied
6. Don't know

ASK ALL

Q34. Thinking about the time it took to have the measure(s) installed, how did this compare with your expectations?

Please choose one answer only

1. It took longer to install than expected
2. It took less time to install than expected
3. It took the amount of time that I expected
4. I had no expectations
5. Don't know

Before you had the energy saving measures installed

ASK ALL

Q35. Before you had the measure(s) installed, which, if any, of the following stopped you from making changes to your home to reduce heating costs?

Please choose all that apply.

1. Cost of improvements being too high
2. No guarantee that it would save me money
3. Didn't trust installers/suppliers
4. Confused/received conflicting information
5. Didn't know what to do
6. Hassle/disruption of making improvements
7. Other priorities (e.g. new baby, other home improvements)
8. Landlord/freeholder wouldn't allow/hadn't been discussed
9. Had never thought about trying to reduce heating costs
10. Had already done everything I could
11. Something else (please specify)
12. None of these

ASK ALL

Q36. And before you had your measure(s) installed did you have any of these problems with your home?

Please choose all that apply.

1. Difficulty heating my home to a comfortable temperature even with the heating on

2. It was too expensive to heat my home to a comfortable temperature
3. Damp walls, floors, foundations etc
4. Rot in windows frames or floors
5. Mould/mildew
6. Condensation/steamed up windows
7. Draughts
8. Something else (please specify)
9. None of these
10. Don't know

ASK ALL

Q37. Before you found out you could get help paying for the measure(s), which of these best applied to you?

Please choose one answer only

1. I had never heard of the measure(s) [skip to Q39]
2. I had heard of the measure(s) but was not aware that it/they could be installed in my home [skip to Q39]
3. I had heard of the measure(s) but had not thought about installing it/them in my home [skip to Q39]
4. I had looked into installing the measure(s) but decided against it
5. I had looked into installing the measure(s) but not taken it any further
6. I had firm plans to install the measure(s) soon [skip to Q39]
7. I was in the process of installing the measure(s) [skip to Q39]
8. It was not my decision to make because I'm renting the property [skip to Q39]

ASK IF Q37= 4 or 5

Q38. Why had you decided not to have the measure(s) installed?

Please choose all that apply

1. I researched the cost for the work but it would have been too expensive.
2. It would have been too disruptive to get the work done

3. I did not think there would be enough benefit from having the measure(s)
4. I did not know where to go for more information
5. I did not have time to get the work done
6. I was put off by negative stories about energy efficiency measures
7. Another reason (please specify)

ASK ALL

Q39. In addition to the measure(s) we have been asking you about, have you had other energy saving measures installed?

Please do not include the measures that are on the front of the questionnaire, or any measures that were already in the property when you moved in. We are interested in any additional measures you have had installed.

	Installed at around the same time as the measure(s) we have been asking you about	Installed after the measure(s) we have been asking you about	Installed up to 3 years before the measure(s) we have been asking you about	None of these
Insulation				
New windows or doors				
New boiler or heating system				

ASK ALL

Q40. As a result of having energy saving measure(s) installed, would you say you are more or less likely to consider other energy saving installations in the future?

Please choose one answer only

1. A lot more likely
2. A little more likely
3. No difference [skip to Q42]

4. A little less likely [skip to Q42]
5. A lot less likely [skip to Q42]
6. Don't know [skip to Q42]

**ASK IF MORE LIKELY TO CONSIDER ENERGY SAVING MEASURES IN THE FUTURE
(Q40=1 OR 2)**

Q41. Why are you more likely to consider other energy saving installations in the future?

Please choose one answer only

To save money on energy bills

To make my home warmer or more comfortable

To update or modernise the heating and insulation system in my home

To increase my home's value

To reduce energy use for environmental reasons

Another reason (please specify)

Don't know

ASK ALL

Q42. How likely are you to recommend similar energy saving measures under this scheme to people you know?

Please choose one answer only

1. I have already recommended similar measures

2. Very likely

3. Quite likely

4. Neither likely nor unlikely

5. Quite unlikely

6. Very unlikely

7. Don't know

Result of having the measure installed

The following questions are about the impact of the energy saving measures you had installed. If you had more than one measure installed around the same time, you may find it easier to think about the impact of all these measures together.

ASK ALL

Q43. How much have you benefitted from having the measure(s) installed in your home?

Please choose one answer only

1. A great deal
2. A fair amount
3. Not very much
4. Not at all
5. Don't know
6. Too early to tell

ASK ALL

Q44. And which, if any, of these things have you noticed as a result of having the measure(s) installed?

Please choose all that apply

1. My home is warmer and more comfortable
2. My home is less draughty
3. I have less condensation
4. I have less mould or mildew
5. I have lower levels of damp
6. Lower levels of illness (e.g. colds, asthma)
7. The value of my home has increased
8. None of these
9. Too early to tell

ASK ALL

Q45. Since the measure(s) were installed, which of the following best describes how you use your heating during the winter months?

Please choose one answer only

My heating is switched on a lot more

My heating is switched on a little more

There has been no change in how I use my heating

My heating is switched on a little less

My heating is switched on a lot less time

Don't know

Too early to tell

ASK ALL

Q46. Has your home generally felt warmer or cooler since the measure(s) were installed?

Please choose one answer only

1. A great deal warmer

2. A little warmer

3. About the same

4. A little cooler

5. A great deal cooler

6. Don't know

ASK ALL

Q47. Since the measure(s) were installed, which of the following best describes how the temperature drops when the heating is switched off?

Please choose one answer only

1. Drops a lot more quickly

2. Drops a little more quickly

3. Drops at about the same speed

4. Drops a little more slowly

5. Drops a lot more slowly
6. Don't know

ASK ALL

Q48. Have you had any of the following problems since your measure(s) were installed?

Please choose all that apply

1. Faults with the measures requiring repair
2. Damp walls, floors, foundations etc [skip to Q50]
3. Rot in windows frames or floors [skip to Q50]
4. Mould/mildew [skip to Q50]
5. Condensation/steamed up windows [skip to Q50]
6. Draughts [skip to Q50]
7. Something else (please specify) [skip to Q50]
8. None of these problems [skip to Q50]
9. Don't know [skip to Q50]

ASK ALL WHO HAD FAULTS WITH THE MEASURE (Q48=1)

Q49. Who paid for the repairs to be made?

Please choose all that apply

1. The energy company or the company installing the measure(s)
2. My landlord/local authority/housing association
3. I had to pay
4. Someone else
5. The repairs have not been made yet
6. Don't know

ASK ALL

Q50. Had you not had the measure(s) installed, do you think your energy bills would be higher, lower or no different?

Please choose all that apply

- A lot higher
- A little higher
- No difference
- A little lower
- A lot lower
- Don't know
- Too early to tell

ASK ALL

Q51. Would you say the measure(s) have had an impact on the health of you and/or other people in your household?

Please choose one answer only

1. Yes – impact on physical health
2. Yes – impact on mental health
3. Yes – impact on both physical and mental health
4. No - it has made no difference [skip to Q53]
5. Too early to tell [skip to Q53]

ASK IF HAD AN IMPACT ON HEALTH (Q51 = 1-3)

Q52. What type of impact have the measure(s) had on the health of you and/or other people in your household?

Please choose one answer only

1. A strong positive impact
2. Some positive impact
3. Some negative impact
4. A strong negative impact
5. Don't know

Some questions about your household

We now have some questions about your household. Understanding more about who has energy saving measures installed in their home allows the Department for Business, Energy and Industrial Strategy (BEIS) to better develop policies in the future. This research is carried out in line with the Market Research Society Code of Conduct and your answers will be completely confidential.

ASK ALL

Q53. Which of these options best describes the working status of the chief income earner in your household?

Please choose one answer only

1. Full-time paid work (30+ hours per week)
2. Part-time paid work (8 – 29 hours per week)
3. Part-time paid work (Under 8 hours per week)
4. Retired
5. Still at school
6. In full time higher education
7. Unemployed (seeking work)
8. Not in paid employment (not seeking work)

ASK ALL

Q54. Thinking back to when you had the measure(s) installed, which of these options best describes your household's total income, before taxes and any other deductions at that time?

This includes the combined earnings of the household from employment or self-employment, income from benefits and pensions, and income from other sources such as interest from savings.

If you are an individual living in a shared house, please answer with your own income

Please choose the row which most closely applies. Please choose one answer only.

Annual	Monthly	Weekly
Under £5,000	Under £400	Under £100
£5,000 – £15,999	£400 – £1,329	£100 – £309
£16,000 – £24,999	£1,330 – £2,099	£310 – £489
£25,000 – £34,999	£2,100 – £2,899	£490 – £679
£35,000 – £44,999	£2,900 – £3,749	£680 – £869
£45,000 – £54,999	£3,750 – £4,579	£870 – £1,049
£50,000 - £74,999	£4,580 – £6,249	£1,050 - £1,449
£75,000 or more	£6,250 or more	£1,450 or more

ASK IF Q54 = BLANK

IF YOU DID NOT ANSWER Q54 ABOUT YOUR HOUSEHOLD’S TOTAL INCOME, PLEASE ANSWER Q55

Q55. Is your household’s total income, before taxes and any other deductions, £16,000 or more a year?

Please choose one answer only

1. Yes - £16,000 or more per year
2. No - less than £16,000 a year
3. Don’t know
4. Prefer not to say

ASK ALL WHO RENT OR PAY A MORTGAGE

Q56. How frequently do you pay rent, or make a payment towards your mortgage?

Please choose one answer only

1. Weekly
2. Every two weeks
3. Every four weeks

4. Monthly
5. Quarterly (every three months)
6. Annually
7. Do not pay any rent or mortgage
8. Don't know

ASK ALL WHO RENT

Q57. In this time period, how much rent does the landlord/council/housing association charge for your accommodation, excluding water rates?

ENTER NUMBER

Don't know

ASK ALL WHO OWN

Q58. In this time period, what is the total of your payments on your mortgage for this property- please INCLUDE any payments for endowment policies but EXCLUDE any other items

ENTER NUMBER

Don't know

ASK ALL

Q59. Is anyone in your household, including yourself, currently receiving any of these benefits?

Please choose all that apply

1. Income Support
2. Income-Based Jobseeker's Allowance (JSA)
3. Income-Based Employment and Support Allowance (ESA)
4. Universal Credit
5. Pension Guarantee Credit (excluding Pension Savings Credit)
6. Child Tax Credit
7. Working Tax Credit
8. Disability Living Allowance

9. Personal Independence Payment (PIP)
10. Attendance Allowance
11. Carer's Allowance
12. Severe Disablement Allowance
13. Industrial Injuries Disablement Benefits
14. Contribution-Based Jobseeker's Allowance (JSA)
15. Contribution-Based Employment and Support Allowance (ESA)
16. Housing Benefit
17. Other state benefits
18. Don't know
19. Prefer not to answer

ASK ALL

Q60. What is the ethnic group of people within your household?

Please choose all the options that best describes the ethnic group or background of the people within your household. You can select more than one option.

1. White English/Welsh/Scottish/Northern Irish/British
2. Any other White background
3. Indian
4. Pakistani
5. Bangladeshi
6. Chinese
7. Any other Asian background
8. Black African
9. Black Caribbean
10. Any other Black background
11. Arab
12. Any other single ethnic group
13. Mixed / Multiple ethnic groups

ASK ALL

Q61. Does anyone in your household have any long-standing illness, disability or infirmity that limits their normal day to day activities? *By 'long-standing' we mean anything that has troubled you over a period of time or that is likely to affect you over a period of time.*

Normal day to day activities include everyday things like eating, washing, walking and going shopping

Please choose one answer only

1. Yes
2. No [skip to Q64]
3. Prefer not to say [skip to Q64]

ASK IF HAS LONGSTANDING HEALTH CONDITION (Q64 =1)

Q62. To what extent does this long-standing illness, disability or infirmity limit the day to day activities of this person? *Normal day to day activities include everyday things like eating, washing, walking and going shopping*

Please choose one answer only

1. It limits their activities all of the time
2. It limits their activities some of the time

ASK IF HAS LONGSTANDING HEALTH CONDITION (Q64=1)

Q63. Do any of these conditions or illnesses affect this person in any of the following areas?

Please choose all that apply

1. Vision for example blindness or partial sight
2. Hearing for example deafness or partial hearing
3. Mobility for example walking short distances or climbing stairs
4. Dexterity for example lifting or carrying objects, using a keyboard
5. Learning or understanding or concentration
6. Memory
7. Mental health
8. Stamina or breathing or fatigue

9. Socially or behaviourally for example associated with autism, attention deficit order or Asperger's syndrome

10. Something else (please specify)

Final questions

ASK ALL

Q64. Kantar may conduct further research on this topic in the future. Would you be happy for someone from Kantar to re-contact you and invite you to participate in this research in the next 12 months?

Please choose one answer only

1. Yes
2. No

ASK ALL

Q65. The Department for Business, Energy and Industrial Strategy (BEIS) may conduct further research on this topic in the future. Would you be happy for someone from BEIS to re-contact you and invite you to participate in this research in the next 12 months?

Please choose one answer only

1. Yes
2. No

[for postal] If you are happy to be re-contacted by Kantar, BEIS or both, please answer Q66, Q67 and Q68. If you do not wish to be re-contacted, skip to Q69.

ASK ALL WHO AGREE TO EITHER RECONTACT

Q66. Please provide a telephone number that you would be happy to be contacted on.

ENTER NUMBER

ASK ALL WHO AGREE TO EITHER RECONTACT

Q67. Please provide your name in the box below.

ENTER NAME

ASK ALL WHO AGREE TO EITHER RECONTACT

Q68. Please provide your email address in the box below.

ENTER EMAIL

ASK ALL

We would like your permission to link the information you provided in this survey with other datasets held by the Government to enrich the research findings to help us understand people's experiences of using and paying for energy. These records include but are not limited to:

Department for Business, Energy and Industrial Strategy (BEIS) includes information on energy usage in your property

Department for Work and Pensions (DWP) includes information about benefit receipt

Department of Health and Social Care (DHSC) includes high-level information about your use of NHS services (e.g. number of appointments attended, or broad category of illness being treated)

This will not affect your eligibility for benefits or other public services. You can change or withdraw your permissions at any time by contacting the research team at REDACTED or by calling REDACTED. If you withdraw your permission, data that has already been linked will be retained but no future linking will take place.

Q69. Do you give permission for the information you have provided in this survey to be linked to your home address to be passed to the Department for Business, Energy and Industrial Strategy, so your records can be identified and linked to your survey responses?

Please choose one answer only

1. Yes

2. No

ASK ALL

This is the end of the survey. Thank you for taking part in the Energy Saving Survey.

Please return the questionnaire to us in the pre-paid envelope. Where can you get more information about the survey? Telephone REDACTED

Email: REDACTED

You can contact Kantar if you have accessibility requirements, or difficulties completing the questionnaire. If it is difficult for you to complete the questionnaire, you can ask a friend, family member or carer to help you or fill it in on your behalf.

Appendix B: Strata for drawing the sample

Table B.1: Strata for the wave 1 sample

Sample group	Population N	Population %	Total sampled	Original issue
England ECO2t CERO	128,315	31.5	2,678	1,785
England ECO2t AW Standard	73,305	18.0	931	621
England ECO2t AW Flexible	7,770	1.9	742	495
England ECO3 AW Standard	83,958	20.6	1,830	1,220
England ECO3 AW Flexible	18,152	4.5	1,608	1,072
England Multiple strata	4,342	1.1	209	139
Scotland ECO2t CERO	35,051	8.6	819	546
Scotland ECO2t AW Standard	12,272	3.0	175	116
Scotland ECO2t AW Flexible	1,093	0.3	117	78
Scotland ECO3 AW Standard	13,249	3.2	323	216
Scotland ECO3 AW Flexible	5,853	1.4	581	387
Scotland Multiple strata	1,253	0.3	67	45

Wales ECO2t CERO	4,769	1.2	223	149
Wales ECO2t AW Standard	7,239	1.8	206	137
Wales ECO2t AW Flexible	3,193	0.8	683	456
Wales ECO3 AW Standard	4,775	1.2	233	155
Wales ECO3 AW Flexible	2,599	0.6	516	344
Sample group	Population N	Population %	Total sampled	Original issue
Wales Multiple strata	538	0.1	59	39
Total	407,726	100	12,000	8,000

Table B.2: Strata for the wave 2 sample

Sample group	Population N	Population %	Total sampled	Original issue
England - ECO3 Flex - No Innovation	22,597	13.95	2,376	1,584
England - ECO3 Flex - Innovation	126	0.08	126	126
England - ECO3 Standard (non-flex) - No Innovation	112,528	69.47	5,391	3,543
England - ECO3 Standard (non-flex) - Innovation	1,261	0.78	900	600
England - Multiple measure types	308	0.19	168	112
Scotland - ECO3 Flex - No Innovation	6,718	4.15	948	632
Scotland - ECO3 Flex - Innovation	9	0.01	9	9
Scotland - ECO3 Standard (non-flex) - No Innovation	11,643	7.19	768	512
Scotland - ECO3 Standard (non-flex) - Innovation	60	0.04	60	40
Scotland - Multiple measure types	117	0.07	66	44
Wales - ECO3 Flex - No Innovation	2,528	1.56	666	444
Wales - ECO3 Standard (non-flex) - No Innovation	4,047	2.50	498	332
Wales - ECO3 Standard (non-flex) - Innovation	18	0.01	18	18
Wales - Multiple measure types	24	0.01	6	4
Total	161,984	100	12,000	8,000

Table B.3: Strata for the wave 3 sample

Sample group	Population N	Population %	Total sampled	Original issue
England - No SWI - No innovation - Non flex	125,976	66.5	5,683	3,789
England - No SWI - No innovation - Flex	28,307	14.9	2,618	1,745
England - No SWI - Innovation - Non flex	2,688	1.4	502	335
England - No SWI - Innovation - Flex	630	0.3	241	160
England - Internal SWI - No innovation - Non flex	4,252	2.2	298	199
England - Internal SWI - No innovation - Flex	790	0.4	113	75
England - External SWI - No innovation - Non flex	394	0.2	52	35
England - External SWI - No innovation - Flex	231	0.1	62	41
England - External SWI - Innovation - Non flex	57	0.0	31	21
Scotland - No SWI - No innovation - Non flex	10,584	5.6	323	215
Scotland - No SWI - No innovation - Flex	5,855	3.1	366	244
Scotland - No SWI - Innovation - Non flex	217	0.1	27	18
Scotland - No SWI - Innovation - Flex	21	0.0	5	4
Scotland - Internal SWI - No innovation - Non flex	523	0.3	25	16
Scotland - Internal SWI - No innovation - Flex	228	0.1	22	15
Sample group	Population N	Population %	Total sampled	Original issue

Scotland - Internal SWI - Innovation - Non flex	3	0.0	1	1
Scotland - External SWI - No innovation - Non flex	462	0.2	41	27
Scotland - External SWI - No innovation - Flex	1,193	0.6	216	144
Scotland - External SWI - Innovation - Non flex	300	0.2	110	73
Scotland - External SWI - Innovation - Flex	86	0.0	65	44
Wales - No SWI - No innovation - Non flex	4,104	2.2	463	308
Wales - No SWI - No innovation - Flex	1,536	0.8	355	237
Wales - No SWI - Innovation - Non flex	370	0.2	173	115
Wales - No SWI - Innovation - Flex	46	0.0	44	30
Wales - Internal SWI - No innovation - Non flex	333	0.2	58	38
Wales - Internal SWI - No innovation - Flex	231	0.1	83	56
Wales - External SWI - No innovation - Non flex	44	0.0	14	9
Wales - External SWI - No innovation - Flex	13	0.0	9	6
Wales - External SWI - Innovation - Non flex	1	0.0	1	1
Total	189,475	100	12,001	8,001

Appendix C: Survey materials

Invite letter

KANTAR

The Resident(s)
<ADDRESS_LINE_1>

<ADDRESS_LINE_2>

<ADDRESS_LINE_3>

<ADDRESS_LINE_4>

<POSTCODE>



Department for
Business, Energy
& Industrial Strategy

Department for Business

Energy and Industrial Strategy

1 Victoria Street

London

SW1H 0ET

Date: XX
Our ref.: <SERIAL>

Dear Sir/Madam,

This is an invitation for your household to take part in the Energy Saving Survey, which is an official government study. This survey is about the following measures that you have had installed recently:

- [MEASURE FROM DATABASE] that you had installed in [MM/YY].
- [MEASURE FROM DATABASE] that you had installed in [MM/YY].
- [MEASURE FROM DATABASE] that you had installed in [MM/YY].
- [MEASURE FROM DATABASE] that you had installed in [MM/YY].

The research is being conducted on behalf of the Department for Business, Energy and Industrial Strategy (BEIS). We are contacting you because the measure(s) were installed as part of a government supported scheme. <https://www.ofgem.gov.uk/environmental-programmes/eco> Kantar have been contracted to deliver this survey to help review how well the scheme is working and inform future planning and policy design. We really value your opinions and very much hope you will take part.

As a thank you for taking part you will be sent a **£10 voucher**.

To take part, please **fill in the enclosed questionnaire** and post it back to us in the pre-paid envelope provided by [Date]. Alternatively, you can complete the survey online using the details below:



Go to this website: www.energysavingsurvey.co.uk

Enter your username: 123456

Enter your passcode: abcdef

Anyone aged 16 or older can complete the questionnaire, as long as they have joint or sole responsibility for energy bills and were living in this property when the energy saving measures were installed. It should take up to 25 minutes to complete depending on your answers.

Participation in the research is entirely voluntary, your answers will be kept confidential and used by the Kantar and BEIS researchers, for research purposes only. An independent research agency, Kantar, is carrying out this research on behalf of BEIS. All research is carried out in line with the Market Research Society Code of Conduct. To view the Kantar Privacy Policy, please visit uk.kantar.com/surveys. Please get in touch using the contact details below if you have any difficulties accessing this.

If you have any questions, accessibility requirements, or difficulties completing the survey please contact Kantar using the details below. You can ask a friend, family member or carer to help you.

Thank you in advance for your participation in this important research.

Yours sincerely,

Andrej Miller

Head of ECO and Warm Home Discount,

Energy Efficiency & Local Directorate,

BEIS

To talk to someone about the study or ask not to be contacted further, please contact Kantar between 9am and 5pm, Monday to Friday on:

Email: REDACTED <mailto:energysavingsurvey@kantar.com> **Tel:** REDACTED

To confirm the authenticity of this research you can contact BEIS on REDACTED

Reminder letter

KANTAR

The Resident(s)

<ADDRESS_LINE_1>

<ADDRESS_LINE_2>

<ADDRESS_LINE_3>

<ADDRESS_LINE_4>

<POSTCODE>

Date: XX

Our ref.: <SERIAL>



Department for
Business, Energy
& Industrial Strategy

Department for Business,
Energy and Industrial Strategy

1 Victoria Street

London

SW1H 0ET

Dear Sir/Madam,

We recently invited your household to take part in the **Energy Saving Survey**, an official government study about the following measures that you have had installed recently:

- [MEASURE FROM DATABASE] that you had installed in [MM/YY].
- [MEASURE FROM DATABASE] that you had installed in [MM/YY].
- [MEASURE FROM DATABASE] that you had installed in [MM/YY].
- [MEASURE FROM DATABASE] that you had installed in [MM/YY].

If you haven't yet completed the survey, we would be grateful if you could respond by **[Date]**.

The research is being conducted on behalf of the Department for Business, Energy and Industrial Strategy (BEIS). We are contacting you because the measure(s) were installed as part of a government supported scheme. <https://www.ofgem.gov.uk/environmental-programmes/eco> We really value your opinions and very much hope you will take part.

Why take part in this survey?

- Your views will help review how well the scheme is working and help future planning and policy design
- It's quick – it should only take around 25 minutes to complete
- As a thank you for taking part you will be sent a **£10 voucher**.

Please **fill in the enclosed questionnaire** and post it back to us in the pre-paid envelope provided. Alternatively, you can complete the survey online using the details below:



Go to this website: www.energysavingsurvey.co.uk

Enter your username: **123456**

Enter your passcode: **abcdef**

Anyone aged 16 or older can complete the questionnaire, as long as they have joint or sole responsibility for energy bills and were living in this property when the energy saving measures were installed.

Participation in the research is entirely voluntary, your answers will be kept confidential and used by the Kantar and BEIS researchers, for research purposes only. An independent research agency, Kantar, is carrying out this research on behalf of BEIS. All research is carried out in line with the Market Research Society Code of Conduct. To view the Kantar Privacy Policy, please visit uk.kantar.com/surveys. Please get in touch using the contact details below if you have any difficulties accessing this.

If you have any questions, accessibility requirements, or difficulties completing the survey please contact Kantar using the details below. You can ask a friend, family member or carer to help you.

Thank you in advance for your participation in this important research.

Yours sincerely,



Andrej Miller

Head of ECO and Warm Home Discount,

Energy Efficiency & Local Directorate, BEIS

To talk to someone about the study or ask not to be contacted further, please contact Kantar between 9am and 5pm, Monday to Friday on:

✉ **Email: REDACTED**

☎ **Tel: REDACTED**

To confirm the authenticity of this research you can contact BEIS on REDACTED

Appendix D: Weighted sample profile

Wave 1

Sample group	Population	Weighted survey sample
Region: E12000001 North East	4.5%	4.2%
Region: E12000002 North West	14.9%	13.2%
Region: E12000003 Yorkshire and The Humber	11.9%	11.6%
Region: E12000004 East Midlands	6.8%	7.9%
Region: E12000005 West Midlands	8.9%	9.2%
Region: E12000006 East of England	6.8%	7.0%
Region: E12000007 London	6.6%	4.8%
Region: E12000008 South East	8.3%	8.7%
Region: E12000009 South West	8.7%	9.3%
Region: S99999999 Scotland	16.9%	17.8%
Region: W99999999 Wales	5.7%	6.4%
Urban / Rural: Conurbation (E/W) / Large Urban (S)	38.4%	34.9%
Urban / Rural: City and town (E/W) / Other urban (S)	37.5%	39.8%
Urban / Rural: Rural (E/W) / Small town or Rural (S)	24.1%	25.3%
Housing tenure: Owner occupied	61.9%	63.5%
Housing tenure: Private rental	13.8%	12.8%
Housing tenure: Social housing	24.3%	23.7%
Property type: Flat/maisonette	23.4%	20.9%
Property type: Bungalow	13.8%	14.7%
Property type: Detached	19.0%	20.4%
Sample group	Population	Weighted survey sample

Property type: Terraced	23.7%	22.5%
Property type: Semi-detached	20.1%	21.4%
Property type: Other (mobile homes)	0.1%	0.1%
Index of Multiple Deprivation Decile: 1	18.5%	16.3%
Index of Multiple Deprivation Decile: 2	13.0%	11.8%
Index of Multiple Deprivation Decile: 3	10.8%	11.2%
Index of Multiple Deprivation Decile: 4	10.4%	10.7%
Index of Multiple Deprivation Decile: 5	10.0%	11.3%
Index of Multiple Deprivation Decile: 6	9.0%	9.2%
Index of Multiple Deprivation Decile: 7	8.3%	9.3%
Index of Multiple Deprivation Decile: 8	7.7%	7.2%
Index of Multiple Deprivation Decile: 9	6.5%	6.7%
Index of Multiple Deprivation Decile: 10	5.9%	6.5%
Obligation and Category: ECO2t CERO	41.8%	42.7%
Obligation and Category: ECO2t AW Standard	23.8%	21.0%
Obligation and Category: ECO2t AW Flexible	3.1%	3.4%
Obligation and Category: ECO3 AW Standard	26.0%	27.4%
Obligation and Category: ECO3 AW Flexible	6.7%	7.2%
Type of installation: Boiler	28.4%	28.8%
Type of installation: Cavity Wall Insulation	40.8%	41.1%
Type of installation: Loft Insulation	21.8%	21.4%
Type of installation: Microgeneration	0.1%	0.02%
Type of installation: Solid Wall Insulation	10.1%	10.9%
Type of installation: Windows and Doors	0.2%	0.1%
Type of installation: Other heating	21.1%	19.7%
Sample group	Population	Weighted survey sample
Type of installation: Other insulation	6.5%	6.4%

Date of installation: Apr-Jun 2017	6.9%	6.8%
Date of installation: Jul-Sep 2017	10.1%	9.4%
Date of installation: Oct - Dec 2017	10.9%	10.7%
Date of installation: Jan-Mar 2018	12.4%	11.6%
Date of installation: Apr-Jun 2018	14.1%	14.3%
Date of installation: Jul-Sep 2018	15.4%	15.7%
Date of installation: Oct-Dec 2018	3.1%	3.6%
Date of installation: Jan-Mar 2019	7.1%	6.6%
Date of installation: Apr-Jun 2019	7.6%	8.1%
Date of installation: Jul-Sep 2019	8.9%	10.2%
Date of installation: Oct-Nov 2019	7.0%	7.0%
Number of measures installed: 1	75.2%	75.4%
Number of measures installed: 2	20.3%	20.4%
Number of measures installed: 3	4.1%	3.8%
Number of measures installed: 4	0.4%	0.3%

Wave 2

Sample group	Population	Weighted survey sample
Region: E12000001 North East	5.8%	5.5%
Region: E12000002 North West	16.7%	16.9%
Region: E12000003 Yorkshire and The Humber	13.8%	14.5%
Region: E12000004 East Midlands	10.3%	10.9%
Region: E12000005 West Midlands	14.4%	13.9%
Region: E12000006 East of England	4.7%	5.2%
Region: E12000007 London	5.0%	4.2%
Region: E12000008 South East	6.0%	6.4%
Region: E12000009 South West	7.7%	7.2%
Region: S99999999 Scotland	11.4%	11.2%
Region: W99999999 Wales	4.1%	4.1%
Urban / Rural: Conurbation (E/W) / Large Urban (S)	43.5%	42.9%
Urban / Rural: City and town (E/W) / Other urban (S)	41.4%	41.6%
Urban / Rural: Rural (E/W) / Small town or Rural (S)	15.1%	15.6%
Housing tenure: Owner occupied	73.8%	74.4%
Housing tenure: Private rental	12.5%	12.8%
Housing tenure: Social housing	13.7%	12.9%
Property type: Flat/maisonette	19.8%	18.3%
Property type: Bungalow	11.1%	11.6%
Property type: Detached	12.0%	12.8%
Property type: Terraced	29.2%	29.2%
Property type: Semi-detached	27.9%	28.0%
Property type: Other (mobile homes)	<0.1%	<0.1%

Sample group	Population	Weighted survey sample
Index of Multiple Deprivation Decile: 1	19.9%	20.5%
Index of Multiple Deprivation Decile: 2	14.4%	13.3%
Index of Multiple Deprivation Decile: 3	12.2%	13.1%
Index of Multiple Deprivation Decile: 4	11.2%	10.1%
Index of Multiple Deprivation Decile: 5	9.7%	9.6%
Index of Multiple Deprivation Decile: 6	8.5%	9.5%
Index of Multiple Deprivation Decile: 7	7.7%	7.9%
Index of Multiple Deprivation Decile: 8	6.5%	5.9%
Index of Multiple Deprivation Decile: 9	5.6%	5.7%
Index of Multiple Deprivation Decile: 10	4.5%	4.4%
Obligation and Category: ECO3 Flex - No innovation	19.8%	19.3%
Obligation and Category: ECO3 Flex - Innovation	0.1%	0.1%
Obligation and Category: ECO3 Standard - No innovation	79.4%	79.9%
Obligation and Category: ECO3 Standard - Innovation	1.0%	1.0%
Type of installation: Boiler	53.6%	52.2%
Type of installation: Cavity Wall Insulation	23.5%	24.7%
Type of installation: Loft Insulation	18.8%	18.8%
Type of installation: Microgeneration	0.2%	0.2%
Type of installation: Solid Wall Insulation	5.7%	7.1%
Type of installation: Other heating	48.3%	48.1%
Type of installation: Other insulation	29.4%	27.8%
Date of installation: Dec 2019	9.7%	8.8%
Date of installation: Jan - Mar 2020	24.0%	23.8%

Sample group	Population	Weighted survey sample
Date of installation: Apr - Jun 2020	15.9%	15.1%
Date of installation: Jul - Sep 2020	30.4%	30.9%
Date of installation: Oct - Nov 2020	9.7%	8.8%
Number of measures installed: 1	45.6%	45.4%
Number of measures installed: 2	23.6%	24.0%
Number of measures installed: 3	22.8%	21.2%
Number of measures installed: 4	8.0%	9.5%

Wave 3

Sample group	Population	Weighted survey sample
Region: E12000001 North East	7.5%	7.4%
Region: E12000002 North West	16.2%	16.6%
Region: E12000003 Yorkshire and The Humber	13.6%	13.4%
Region: E12000004 East Midlands	10.7%	11.2%
Region: E12000005 West Midlands	12.1%	11.8%
Region: E12000006 East of England	6.1%	6.1%
Region: E12000007 London	5.7%	5.8%
Region: E12000008 South East	7.4%	7.4%
Region: E12000009 South West	6.7%	6.8%
Region: S99999999 Scotland	10.3%	10.0%
Region: W99999999 Wales	3.5%	3.6%
: Urban / Rural: Conurbation (E/W) / Large Urban (S)	43.5%	43.7%
Urban / Rural: City and town (E/W) / Other urban (S)	40.8%	40.0%
Urban / Rural: Rural (E/W) / Small town or Rural (S)	15.6%	16.2%
Housing tenure: Owner occupied	73.4%	72.7%
Housing tenure: Private rental	12.0%	12.0%
Housing tenure: Social housing	14.6%	15.3%
Housing tenure: Other	<0.1%	<0.1%
Property type: Flat/maisonette	20.5%	21.3%
Property type: Bungalow	11.3%	11.6%
Property type: Detached	13.9%	13.7%
Property type: Terraced	27.4%	26.5%
Property type: Semi-detached	26.8%	26.9%

Sample group	Population	Weighted survey sample
Property type: Other (mobile homes)	<0.1%	<0.1%
Index of Multiple Deprivation Decile: 1	17.8%	17.8%
Index of Multiple Deprivation Decile: 2	13.9%	14.0%
Index of Multiple Deprivation Decile: 3	11.8%	11.7%
Index of Multiple Deprivation Decile: 4	11.3%	10.8%
Index of Multiple Deprivation Decile: 5	10.3%	10.8%
Index of Multiple Deprivation Decile: 6	8.9%	9.1%
Index of Multiple Deprivation Decile: 7	8.1%	8.2%
Index of Multiple Deprivation Decile: 8	6.8%	6.5%
Index of Multiple Deprivation Decile: 9	6.2%	6.2%
Index of Multiple Deprivation Decile: 10	4.9%	4.9%
Innovation measure: No	97.7%	97.9%
Innovation measure: Yes	2.3%	2.1%
Obligation: Non-flex	79.3%	80.0%
Obligation: Flex	20.7%	20.0%
Type of installation: Boiler	54.0%	53.5%
Type of installation: Cavity wall insulation	27.5%	28.6%
Type of installation: Loft insulation	16.3%	15.9%
Type of installation: Microgeneration	0.3%	0.4%
Type of installation: Other heating	55.3%	55.4%
Type of installation: Other insulation	26.2%	24.4%
Type of installation: Solid wall insulation	4.8%	5.0%
Type of solid wall insulation: External	3.4%	3.6%
Type of solid wall insulation: Internal	1.5%	1.4%
Type of solid wall insulation: No wall insulation	95.2%	95.0%

Sample group	Population	Weighted survey sample
Date of installation: Dec-2020	9.2%	10.2%
Date of installation: Jan-Mar 2021	30.6%	30.6%
Date of installation: Apr-Jun 2021	35.6%	34.9%
Date of installation: Jul-Sep 2021	14.5%	14.7%
Date of installation: Oct-Nov 2021	14.6%	14.1%
Number of measures installed: 1	43.2%	44.0%
Number of measures installed: 2	19.3%	19.3%
Number of measures installed: 3	22.6%	22.0%
Number of measures installed: 4	14.8%	14.7%

Appendix E: Variables used in sensitivity analysis

The key variables included in the sensitivity analysis:

- Q57: Working status
- Q58: Income
- Q63: Benefits
- Q64: Illness / disability
- Q6/Q7: Age of household (number of people in the household and presence of children)
- Q17: After the measures(s) were installed, how easy or difficult was it to heat your home to a comfortable temperature?
- Q41: Overall, how satisfied or dissatisfied were you with the process of having the measure(s) installed?
- Q47: How likely are you to recommend similar energy saving measures under this scheme to people you know?
- Q48: How much have you benefitted from having the measure(s) installed in your home?
- Q54: Would you say your energy bills are now...(a lot higher, a little higher, no different, a little lower, a lot lower)
- Q3: Tenure
- Date of installation

The following sub-groups were included in the sensitivity analysis:

- Measure installed
- Boiler
- Solid wall insulation
- Cavity wall insulation
- Loft insulation
- Underfloor insulation
- Other insulation
- Microgeneration
- Windows and doors

- Other heating
- NET: Any insulation
- Obligation
- ECO2t: CERO
- ECO2t: AW Standard
- ECO2t: AW Flexible
- ECO3: AW Standard
- ECO3: AW Flexible
- Region
- England
- Scotland
- Wales

Appendix F: Qualitative topic guide

Wave 1

1. Introduction - 2 minutes

Section aim: Introduce research, reassure about confidentiality and set tone of discussion
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- **Thanks & Introduction:** Introduce yourself and Kantar Public Division – independent research agency.
- **About the client:** Research on behalf of BEIS – department responsible for energy saving policy.
- **Purpose of discussion:** Explain that they have been selected to participate because of their interest at the end of a recent survey about energy saving. The purpose is to discuss in more depth their experiences of the ECO scheme and any energy saving measures installed and to understand further the impact. Emphasis will be on the ECO scheme.
- **[If applicable] Photo task:** If they have consented, explain that this will be discussed further at the end of the interview for useful photos for them to share. Photos will be shared with BEIS. Explain that if they would not like photos to be identifiable, we can work with them to accommodate this.

Researcher note: throughout the interview, listen out for opportunities for photographs. There is a list of examples in Section 7, however please consider anything which will illustrate the decision making process or impact of ECO measures.

- **How their information will be used:** Information will be used for this research only and we will delete all identifiable information a year after the end of the research, in line with GDPR. Their views and experiences will be looked at together with views of others taking part in interviews across the country. These views will be analysed by theme then a report written based on those themes. This report will include anonymised verbatim quotes and be published on the gov.uk website.
- **Ethical considerations:** Confidential research, voluntary participation. BEIS will not know that they have taken part and their participation in the research will in no way impact any future contact they may have with BEIS.
- **Duration:** 45 - 60 minutes.
- **Incentive:** £40 as a thank you for taking part in the research plus £10 for taking part in the photo task.
- **Reassurances:** No right or wrong answers - we are simply asking for people's views.

- **Reminder about audio recording:** the discussion will be recorded so that we can accurately capture their views, and so researchers can listen back when analysing the data. The recorder is encrypted and only the research team will have access to the recordings. The audio from a small number of interviews will be shared with BEIS, where they will be listened to internally only. They will be stored for up to a year, and will be deleted afterwards in line with GDPR.
- **Any questions/concerns?**
- **Start recording:** acknowledge consent for being recorded.

2. Background and context - 10 minutes

Section aim: to warm participants up to the discussion and gain background information on the participant, their home and attitudes towards household finances and energy saving.

- Introduction and thoughts about their home
 - Please can you tell me a little bit about your home [spontaneous]
 - Who you live with; the property; how long they have lived there
 - How do you feel about your home
 - What you looked for in a property to buy/rent
 - What aspects of your home are most important to you e.g. looking nice, location, being fit for purpose, affordability
 - How they use home, both pre and post COVID-19 i.e. time spent at home, type of activities
- Measures and heating their home
 - What measure(s) have you had installed, and when

Researcher note: refer to information on profile sheet

- How do you currently heat your home
 - Compare with before the measure
- How often do you have the heating on – reasons
 - Probe for seasonal changes
 - Are you conscious of how much you have the heating on or it is not something you think about so much

- **What do you need from your home in terms of heating? Spontaneous, then ask to prioritise:**
 - Managing or reducing cost of bills
 - Environmental motivations
 - Keeping the home comfortable
 - Usage information i.e. understanding how you use energy in home

- Attitudes towards household finances
 - How do you approach household finances e.g. is there a method or is it not something they think about as much?
 - How important or otherwise is saving money on bills for you?
 - Explore ways they do this, e.g. monitoring bills, spreadsheets, limiting heating use
 - **Are household bills and finances something that worry or concern you – reasons**

- Attitudes towards energy and the environment
 - What comes to mind when you think about environmental issues?
 - What about in the home? E.g. recycling, reusing things, thinking about measures, growing vegetables etc.
 - Views on energy saving and energy efficiency generally and in the home
 - Are they important or less important to you when thinking about your home?

3. Knowledge of ECO scheme - 5 minutes

Section aim: to understand participant's awareness of the ECO scheme and attitude towards government schemes of this kind

- Spontaneous awareness of ECO scheme
 - How would you describe it?
 - Understanding of who operates ECO scheme? i.e. a government scheme
 - Had you heard of ECO before the survey/today?

Researcher note: Read out description of ECO scheme... "The Energy Company Obligation (ECO) is a government energy efficiency scheme in Great Britain to help reduce carbon emissions and ensuring every household is able to keep their home warm by obliging large

energy suppliers to promote energy saving measures. The scheme began in April 2013, and over time it has been amended. Ofgem administers the scheme on behalf of the Department for Business, Energy & Industrial Strategy.

- Understanding measures installed were part of this scheme
 - Where did understanding come from?
 - Were they aware of their eligibility for the scheme?
- Attitudes towards scheme
 - Sentiment e.g. positive, negative
 - Factors influencing sentiment. Refer back to attitudes discussed in Section 2 e.g. cost saving, environmental impact
- Views on government involvement
 - Spontaneous views towards Ofgem and BEIS
 - **Whether government involvement influences trustworthiness**

4. Energy saving measure journey -

20 minutes

Section aim: to understand decision making at each step of the journey to having measure(s) installed and immediate impacts

Researcher note: Please annotate a journey map throughout the interview, to use and refer back to throughout the interview. Throughout the rest of the guide: discuss the participant's experiences of having measures installed. Establish rough timings for each stage and record this on the map. Fully explore all participant can remember throughout the process, including key points of contact, what worked well / less well, how they felt at each point of contact – and record on the map.

4a. Triggers for thinking about the measure(s)

- *Researcher note: probe for each measure if applicable or understand process if multiple measures installed all at the same time, Distinguish between ECO and other measures where applicable. How did they hear about the measure(s)*
 - **Who did it come from**
 - What was this experience like
 - **How did they feel about the interaction**
 - [Especially for renters] Describe level of control over the situation

- What first made you consider getting the measure(s)
 - E.g. friends/family, information from an energy provider, information from local council/BEIS
 - If local council: were they referred and if so why
 - Were they thinking of getting the measure before hearing about the scheme
- **Why they were interested**
- Any research undertaken? Where did you look for information about the measure(s) e.g. online, installation company, friends and family
 - **How useful were these sources of information**
 - Which were most trustworthy
- What were your initial impressions of the idea of getting measure(s). Probe using responses from Section 2 e.g. cost saving, environment, etc.
 - Overall positive/negative – reasons
 - What they expected the benefits to be
 - Any concerns they had
- [If multiple measures] Explore any differences in experience for each measure

4b. Deciding to have the measure(s)

Researcher note: probe for each measure

- Who made the decision to get the measure
 - Who was involved in the decision/did anyone help in the decision making process
 - If not involved, how did they feel about the decision
- **Were they offered a range of options for the ECO measure**
 - How did they find this out, e.g. from someone else/company or own research
 - If many, how did they decide on which option to go for
 - What were the main considerations – [spontaneous listen] cost, comfort, health, environment
 - If few options, would they have wanted more information or more choice
- **What was the most important reason you decided to have the measure installed [spontaneous]**
 - **Did they pay towards it? Would they have been able/willing to contribute if free. If they did pay, would they have been willing to pay more and if so how much?**
 - Were there any other factors or reasons?

- Probe: environment (did you know the measure was better for the environment)
- Probe: cost (did you think it would save money on bills)
- Probe: comfort (did you hope it would make your house more comfortable)
- Probe: health (did you think that it would benefit your health)
- Sources of information accessed e.g. online, installation company, friends and family
 - Have you kept any materials?
- How easy or difficult was the decision
 - How long did it take to decide
- Did you feel confident in the decision
- [If multiple measures] Explore any differences in experience for each measure

4c. Measure(s) installation experience

Researcher note: probe for each measure

- What was your experience of having the measure(s) installed [spontaneous]
 - What were your expectations of what it would be like
 - How long did it take
- Who installed the measure
 - Did you trust them to do a good job. What made them trustworthy?
- Did anything work well as part of this step in the process
- Did you have any concerns or difficulties
- Is there anything you would improve about the process
- **While the measure was being installed, what impact did this have on your day to day life**
 - Did it change anything about your day to day life
 - How disruptive or otherwise was it
- **Did you receive any information about what to do in case of any issues with your measure?**
 - **What information do you have?**
 - Were you given information about this – did it feel clear
 - Who gave you this information – form the information came in (e.g. writing)
 - Did you receive contact details in case of any issues
 - Did you ask for it or was it given without prompting

- [If multiple measures] Explore any differences in experience for each measure

4d. Experiences of having the measure(s)

Researcher note: probe for each measure

- What are your perceptions of the measure(s) now?
 - Has it been a good thing or a bad thing for your household? – reasons
 - Is it working as it was meant to/described to you?
 - How has it compared to your expectations?
 - [If multiple measures] are your perceptions more or less positive for some compared to others?

5. Reflections on impact of the measure(s) - 10 minutes

Section aim: to understand overall reflections on having the measures installed and exploring high level impacts

- Since having the measure installed, what impact has it had on your home?
 - **Do you heat your home differently?**
 - The measure will make your house more energy efficient, is this important to you
 - **Have you noticed any changes in the comfort of your home (e.g. warmer house)**
 - **Have you noticed any changes to your bills**
 - **Have you noticed any differences in your wellbeing/wellbeing of those in your household**
 - **Have you noticed any changes to your health, either mental or physical/ health of those in your household**
 - **Have you noticed any negative impacts**
 - E.g. measure not working properly, mould etc.
 - **[If low impact] Why is that?**
 - What could have made it have a bigger impact
 - How different is this your expectations

- Impact of measure on participant's behaviour and attitudes
 - Has it changed the way you think about energy saving measures – either positively or negatively
 - Has it changed the way you monitor bills or household finances - feelings
 - Have you sought to understand the impact of the measure on your property's value
 - Have there been any unexpected impacts?

- Reflections between short term and longer term impacts
 - Explore any expectations or 'metrics for success' in future e.g. earning back installation costs, increasing value of property, etc.
 - Explore who will benefit e.g. them, future tenants, owner, etc.

- Overall reflections on the impact of measures
 - What has been the biggest impact of the measure(s)
 - How worthwhile do you feel the measure(s) have been
 - **[If CERO/contributing] Was it/they worth the money – why**

Section aim: to understand the extent to which having the measure installed has changed behaviour or impacted on thoughts about future behaviour, e.g. advocacy, willingness to have more measures.

6. Future

behaviour - 10 minutes

- **Whether likely or not to install future energy efficiency measures**
 - **Probe: with or without subsidy? How much would they be willing/able to contribute?**
 - Factors influencing e.g. positive/negative impact from previous experience, cost of future measures, knowledge/understanding of energy saving measures
 - Explore any perceived trade off between disruption, impact, and cost of installation [if applicable]

- Level of research /planning done into energy efficiency measures post installation
 - Drivers of research e.g. desire to reduce costs further, advice from installation company, information from council/landlord
- [For tenants] Would you ask landlord for installation of further measures?
 - In this property
 - In future properties
 - What would prompt this e.g. comparison to current experience of living in property with measure(s)
- How would you describe a scheme to your neighbour
 - Factors to weigh up in decision, experience of installation, impact (short and longer term)
- **Would you recommend friends and family install ECO measure(s)? Why? Why not?**

7. Close and photo task - 3 minutes

Section aim: to capture any final thoughts and wrap up the discussion

- Final thoughts / comments around BEIS ECO scheme. Advice to BEIS on future energy efficiency policy
- Explain photo task [below]
- Explain incentive process (£40 for interview, £10 for photo task)
- Reminder around audio recording, confirm consent to share with BEIS or not
- Thank and close

Photo task

Researcher note: Use the below information to explain the photo task to participants who have opted-in. Please guide participants on which photos would be most appropriate, and send an email follow-up from REDACTED with the below instructions

Dear [participant name]

You mentioned that you would be happy to provide photos to Kantar to show some of the impacts or decision making. By providing photos you will be helping our analysis and understanding of everything you've told us today. We'd like to see at least four photos [RESEARCHER TO SELECT] of:

- Photo of the measure(s)
- Before photo of the measure(s)
- Any information they received about the measure, leaflets etc.
- Any sources of information e.g. websites they looked at
- Any impacts they can show evidence of e.g. warmer home
- A photo of their overall feelings about the measure
- Any negative impacts of the measure they have experienced

If you are worried about personal information being identifiable, we're happy for you to blur or cover any personal information or Kantar can help you do this if you would like.

The photos may be used for the following purposes, if you are not happy with these uses please let us know.

- Internal BEIS reports
- Internal presentations with BEIS or other Government departments
- Photos which are not personally identifiable may be used in public reports

Please take photos and send them with a caption describing the photo to REDACTED within three days MM/YY.

As a thank you for sharing the photos, you will receive an additional incentive of £10 on top of your £40 interview incentive.

Wave 2

Introduction

(3 minutes)

Section aim: Introduce research, reassure about confidentiality and set tone of discussion

- **Thanks & Introduction:** Introduce yourself and Kantar Public – independent research agency.
- **About the client:** Research on behalf of BEIS – department responsible for energy saving policy and tackling fuel poverty.
- **Purpose of discussion:** Explain that they have been selected to participate because of their interest at the end of a recent survey about energy saving. The purpose is to discuss in more depth their experiences of the ECO scheme and any energy saving measures installed and to understand further the impact. Emphasis will be on the ECO scheme.
- **How their information will be used:** Information will be used for this research only and we will delete all identifiable information a year after the end of the research, in line with GDPR. Their views and experiences will be looked at together with views of others taking part in interviews across the country. These views will be analysed by theme then a report written based on those themes. This report will include anonymised verbatim quotes and be published on the gov.uk website.
- **Ethical considerations:** Confidential research, voluntary participation. BEIS will not know that they have taken part and their participation in the research will in no way impact any future contact they may have with BEIS or any other government department.
- **Duration:** 45 - 60 minutes.
- **Incentive:** £40 as a thank you for taking part in the research.
- **Reassurances:** No right or wrong answers - we are simply asking for people's views.
- **Reminder about audio recording:** the discussion will be recorded so that we can accurately capture their views, and so researchers can listen back when analysing the data. The recorder is encrypted and only the research team will have access to the recordings. The audio from a small number of interviews will be shared with BEIS, where they will be listened to internally only. They will be stored for up to a year, and will be deleted afterwards in line with GDPR.
- **Any questions/concerns?**
- **Start recording: acknowledge consent for being recorded.**

2. Background and context

(5 minutes)

Section aim: to warm participants up to the discussion and gain background information on the participant, their home and attitudes towards energy saving.

To set the tone of the interview, provide clarity on what is expected of the participant, offer #

- **Participant introduction and thoughts about their home**
 - Description of their home [spontaneous]
 - Members of household; type of property; length of time living in property
 - Feelings towards their home
 - Features they looked for when buying/renting property
 - Most important aspects of a home e.g. looking nice, location, being fit for purpose, affordability

- **Impact of Covid-19**
 - Use of home, both pre and post COVID
 - Time spent at home, type of activities
 - Impact of COVID

3. Measures and heating their home

(5 minutes)

Section aim: to identify which measures the participant has had installed and establish their attitude towards heating their home.

Researcher note: refer to information on profile sheet

- **Types of measures installed**
 - When these were installed

- **Current way of heating their home**
 - Frequency of heating – reasons
 - Probe for seasonal changes
 - Compare with before measures were installed

- **Heating needs [spontaneous], then ask to prioritise:**
 - Managing or reducing cost of bills
 - Environmental motivations
 - Keeping the home comfortable
 - Usage information i.e. understanding how energy is used in the home

- **Attitudes towards energy saving/ environmental issues**
 - Views on energy saving and energy efficiency generally and in the home
 - Views on environmental issues generally and in the home
 - probe whether attitude changes behaviour in their home and in what ways.

4. Energy saving measures journey (25 minutes)

Section aim: to understand decision making at each step of the journey to having measure(s) installed and immediate impacts

Researcher note: Create journey map with the following stages a) Triggers for thinking about the measure(s), b) Deciding to have measure(s) installed, c) Measure(s) installation experience, d) Experience of / impact of having the measure(s).

Throughout the rest of the guide:

- Discuss the participant's experiences of having measures installed.
- Establish rough timings for each stage and record this on the map.
- Fully explore all participant can remember throughout the process, including key points of contact, what worked well / less well, how they felt at each point of contact – and record on the map.

4a. Triggers for thinking about the measure(s)

Researcher note: probe for each measure if applicable or understand process if multiple measures installed all at the same time, Distinguish between ECO and other measures where applicable

- **Triggers for first thinking about the measure(s)**
 - E.g. friends/family, information from an energy provider, information from local council/BEIS
 - If local council: were they referred and if so, why
 - Were they thinking of getting the measure before hearing about the scheme?
 - What were they told about the scheme (spontaneous)
 - probe for effectiveness of measures

- **Interest in measure(s)**
 - Thoughts on measure(s) before hearing about the scheme
 - Development of interest
 - Probe: factors that sparked interest in measure(s) e.g. views on environment, cost, comfort and health generally and in the home.

- **Research into measure(s) and sources used**
 - Online, installation company, friends and family
 - How useful were these sources of information
 - Most trustworthy sources

- **Initial impressions of the idea of getting measure(s)**
 - Probe using responses from Section 2 e.g. cost saving, environment, etc.
 - Overall positive/negative – reasons
 - Expected benefits
 - Any concerns they had

- **[If multiple measures] Explore any differences in experience for each measure**

4b. Deciding to have measure(s) installed

- **Decision to have measure(s) installed [spontaneous] then probe for**

- Sources of information accessed
 - online, installation company, friends and family
- Whether they have kept any of these materials
- Who made the decision to get the measure(s)
 - People involved in the decision/help received in the decision-making process
 - If not involved, how did they feel about the decision
- [For renters] describe level of control in decision making process
 - how this made them feel

Researcher note: refer to profile sheet whether cost was/ was not a barrier to having the measures installed.

- **Explore main motivations in deciding to get the measure installed**
 - Spontaneous
 - Probe: environment, cost, comfort, health
 - [If cost was not an issue] explore why they got the measure and what changed their mind
 - [If house was already easy to heat to a comfortable temperature] explore why they got the measure
 - [If they got it for free] would they be willing to have paid for some of the measures
- **Reflection on decision**
 - Easy or difficult decision
 - How long did it take to decide
 - Confidence in decision
- **[If multiple measures] Explore any differences in experience by measure**

4c. Measure(s) installation experience

Researcher note: probe for each measure

- **Experience of having measure(s) installed [spontaneous]**
 - Who installed the measure(s)
 - Trust in person installing measures – reasons why
 - Time installation work took

- Time from choosing measures to finishing installation
- Whether installation process was faster/ slower/ as expected
 - if faster/ slower, why was this
- Whether installation experience met expectations
- Whether it was disruptive/ how disruptive
 - reasons why
- **Installation aftercare**
 - Any support/guidance provided on how to maintain measures installed
 - Information provided about what to do in case of any issues with measure
 - Clarity of information received
 - Source and form of information (e.g. writing)
 - Any contact details for issues
 - Whether information was requested or given without prompting
- **Reflection on installation experience**
 - Things that went well at this stage
 - Any concerns or difficulties
 - Ways the installation process could be improved
 - Impact installation of the measure had on daily life
 - Changes to day-to-day life
 - [if the installation was disruptive] whether it was worth it
- **[If multiple measures] Explore any differences in experience for each measure**

4d. Experience of / impact of having the measure(s)

Researcher note: probe for each measure

- **Perceptions of impact of the measure(s) post installation**
 - Explore whether measure(s) are working as they are meant to/described
 - Current experience compared to expectations

- **Impact on household – reasons**

- Probe for impact on:
 - Way the property is heated
 - Comfort of home
 - Bills
 - Wellbeing of individual or household
 - Mental or physical health of individual or household
 - Positive or negative impact
 - [If low or negative impact] causes of low or negative impact
 - Ways impact could have been improved

- **[If mental or physical impact was seen] Explore self- reported health impacts**

- How their health has been improved/ worsened
- Why they feel the new measures have improved/ worsened their health
- What types of changes they have seen to their health conditions
- How these changes have impacted on their day-to-day life
 - e.g. feelings in wellbeing, activities they undertake, frequency of doctor/hospital visits.

- **[If multiple measures] Explore any differences in experience and impact for each measure**

5. Satisfaction with measures

(10 minutes)

Section aim: to understand extent of satisfaction with the measure(s) installed at each step in the journey.
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Researcher note: go through for each measure they have had installed. If participant has already mentioned aspects they were/ were not satisfied with, follow up and explore.

- **Explore overall satisfaction with ECO journey**

- [spontaneous]
- Prompt by journey stage:
 - Being informed about the ECO scheme/ availability of the measures

- Selection
- *Installation*
- *Impact*
- **If applicable, explore reasons for satisfaction with impact of the measures**
 - Spontaneous
 - probe for energy bills more affordable, easier to heat home to a comfortable temperature, can have the heating on longer, property retains heat better, impact on health, increased value of property.
- **If applicable, explore dissatisfaction with installation**
 - probe for type of disruption
 - probe for level of disruption
 - [if multiple measures] impact of multiple measure(s) on level of disruption
- **If applicable, explore reasons for dissatisfaction with the impact of the measures**
 - Spontaneous
 - then probe for:
 - faulty measures, ,
 - variable weather makes determining impact of measure(s) challenging,
 - no or negative difference in terms of damp/ rot/mildew draught
 - no or negative difference to cost of bills/ usage of energy
 - Check how frequently they check their bills
 - Check whether cost of heating per hour has changed since measures installed
 - If cost of heating has changed, has this impacted on how long they have the heating on.
 - no or negative difference to impact on health
- **Recommendations for how journey/ stage could be improved**

6. Views on multiple measures

(10 minutes)

Section aim: to understand household attitudes towards having multiple measures installed at the same time
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- **Explore participant awareness of multiple measures:**
 - Having multiple measures installed at once
 - Which measures are available to be installed at once
 - source of knowledge e.g. from someone else/company or own research.

Interviewer to incorporate responses given in energy saving journey

- **Explore participant's attitude/ perception of having multiple measures installed at once**
 - Benefits of having multiple measures installed at once
 - Negatives to having multiple measures installed at once
 - Ways to overcome these negatives
- **If participant did not get multiple measures, explore if they were offered them**
 - Types of measures
 - Explore why they decided against them – spontaneous then probe for cost, inconvenience of installation
- **If applicable, explore how participant decided to get multiple measures installed**
 - If offered options, how did they decide on which options to go for
 - Main considerations – [spontaneous]
 - then probe for cost, comfort, health, environment, whether they were recommended with other measures
 - If few options, would they have wanted more information or more choice
- **If applicable, explore experience of installation of multiple measures**
 - Organisation
 - whether they had to speak with multiple companies
 - experience of speaking with multiple companies
 - Time measures took to install
 - Benefits

- Drawbacks
- Possible improvements

7. Thank you and close

(2 minutes)

Section aim: to capture any final thoughts and wrap up the discussion

- Final thoughts / comments around BEIS ECO scheme
- Explain incentive process (£40 for interview)
- Thank and close

Wave 3 telephone interview discussion guide

Introduction

(3 minutes)

Section aim: Introduce research, reassure about confidentiality and set tone of discussion

- **Thanks & Introduction:** Introduce yourself and Kantar Public – independent research agency who have been asked to conduct this research on behalf of the Department for Business, Energy, and Industrial Strategy (BEIS)
- **About the client:** Research on behalf of BEIS – department responsible for energy saving policy and tackling fuel poverty.
- **Purpose of discussion:** Explain that they have been selected to participate because of their interest at the end of a recent survey about energy saving and agreed to be re-contacted to take part in further research about their experiences. The purpose is to discuss in more depth their experiences of the Energy, Company Obligation Scheme (ECO) and any energy saving measures installed and to understand further the impact. Emphasis will be on the ECO scheme.
- **How their information will be used:** Information will be used for this research only and we will delete all identifiable information a year after the end of the research, in line with GDPR. Their views and experiences will be looked at together with views of others taking part in interviews across Great Britain. These views will be analysed by theme then a report written based on those themes. This report will include anonymised verbatim quotes and it will be published on the gov.uk website.
- **Ethical considerations:** Confidential research, voluntary participation. BEIS will not know that they have taken part and their participation in the research will in no way impact any future contact they may have with BEIS or any other government department.
- **Duration:** 45 - 60 minutes.
- **Incentive:** £40 as a thank you for taking part in the research.
- **Reassurances:** No right or wrong answers - we are simply asking for people's views and experiences about taking part in the scheme.
- **Reminder about audio recording:** the discussion will be recorded so that we can accurately capture their views, and so researchers can listen back when analysing the data. The recorder is encrypted and only the research team will have access to the recordings. The audio from a small number of interviews will be shared with BEIS, where they will be listened to internally only. They will be stored for up to a year, and will be deleted afterwards in line with GDPR.
- **Any questions/concerns?**

- **Start recording: acknowledge consent for being recorded.**

2. Background and context

(5 minutes)

Section aim: to warm participants up to the discussion and gain background information on the participant, their home and attitudes towards energy saving.

- **Participant introduction and thoughts about their home**
 - Description of their home [spontaneous]
 - Members of household; type of property; length of time living in the property
 - Feelings towards their home [general and level of comfort]
 - Features they looked for when buying/renting property
 - Most important aspects of a home e.g. looking nice, location, being fit for purpose, affordability

3. Measures and heating their home in general (5 minutes)

Section aim: to identify which measures the participant has had installed and establish their attitude towards heating their home.

Researcher note: refer to information on profile sheet. It might also be helpful to acknowledge that we are experiencing a heatwave, but try to encourage the participant to think about the how, why and when the measures were installed.

- **Types of measures installed**
 - When these were installed
- **Current way of heating their home**
 - Frequency of heating – reasons
 - Probe for seasonal changes
 - Probe for changes since increase in energy prices
 - Compare with before measures were installed

- **Heating needs. Encourage participants to prioritise:**
 - Managing or reducing cost of bills
 - Environmental motivations
 - Keeping the home comfortable
 - Usage information i.e. understanding how energy is used in the home

- **Attitudes towards energy saving/ environmental issues**
 - Views on energy saving and energy efficiency generally and in the home
 - Views on environmental issues generally and in the home
 - probe whether attitude changes behaviour in their home and in what ways.

4. Decision Making Journey (15 minutes)

Section aim: To understand more about the decision making process

- **Triggers for first thinking about the measure(s)**
 - How did they hear about the scheme?
 - Online, friends, neighbours, community groups, family, information from an energy provider / installation company, information from local council/BEIS
 - If local council: were they referred and if so, why?
 - If friends/ neighbours/ community groups/ family what did they do next?/ Did they look at measure in person?
 - What were they told about the scheme? / Were they given any information / directed to resources informing them about the measure(s)?
 - What sources did they access / were they given / who did they turn to learn more about the scheme measures
 - How useful did they find the sources accessed?
 - Probe: Which ones would they recommend to a friend / family member? And, why?
 - If they did limited research into scheme, why was this?

- **Initial impressions of the idea of getting measure(s)**
 - Did they have any concerns before the measures were put in place?

- Probe: Perception on bills, level of comfort, perceived level of disruption when the measures were being installed.
 - What were their expectations of the measure(s)?
 - Probe: Perception on bills, level of comfort, perceived level of disruption before the measures were installed.
 - Probe: Was there anything informing their expectations e.g. prior knowledge of scheme/ anecdotal evidence from others with measures?
- **Explore main motivations in deciding to get the measure installed**
 - Probe: views on environment, cost, comfort, health, increase home value. Explore where these assumptions came from. i.e media, articles, friend of a friend etc
 - Were they aware of any other energy saving methods available?
 - If 'yes': what measures were discussed? [and with whom]?
 - If 'no': if participants had more information around other measures, would they have considered a different installation?
 - If government support wasn't available for people, what do they think is stopping people from getting the energy saving measure(s)?
 - Did they receive any advice before deciding to get measures?
 - If 'yes' what type of advice/ how useful was it? / how sufficient was the advice?
 - If 'no' what additional advice would have been useful before making a decision?
- **Decision making process**
 - Who made the decision to get the measure(s)?
 - People involved in the decision decision-making process
 - If not involved, how did they feel about the decision, how much were they told about the measures and what the installation process would look like?
 - The level of control they had in the decision-making process [i.e if they rent]
 - how this made them feel
- **[If multiple measures] Explore any differences in experience for each measure**

4. Installation Journey (15 minutes)

Section aim: To understand more about the installation experience

Researcher note: probe on each measure. There may be some confusion concerning what counts as aftercare, last year some participants mentioned a certificate or leaflets. This is fine, but ensure to probe on what kind of aftercare the participant received and if this was sufficient and helpful.

- **Experience of having measure(s) installed**

- Who installed the measure(s)
 - Trust in person installing measures – reasons why
 - If multiple measures: did the same installers do each measure? If yes or no what was the experience of this?
- Time installation work took
 - If multiple measures: was the installation of different measures done at the same time? If yes or no what was the experience of this?
- Time from choosing measures to finishing installation
- Whether installation process was faster/ slower/ as expected
 - if faster/ slower, why was this?
- Whether installation experience met expectations
 - Were the measures visually appealing?

- **Reflection on installation experience**

- Overall, was the installation experience positive or negative?

- **If applicable, explore dissatisfaction with installation and the impact that the installations had on daily life**

- Any concerns or difficulties
- Any disruption
 - Probe: Type of disruption
 - Probe: Level of disruption
 - [if multiple measures] impact of multiple measure(s) on level of disruption
 - Probe those who had solid wall insulation
 - Probe those who had complex roof jobs

- Probe those who had underfloor insulation
- Limited aftercare?
- Ways that the installation process could be improved
- Ways that the installation process disruption could have been mitigated
- Impact that the installation/disruption had on day-to-day life
- Was the disruption worth it
- **If applicable, explore satisfaction with installation and the impact that the installations had on daily life**
 - Satisfaction with length of installation process
 - Satisfaction with company providing measures
 - Thorough aftercare provided?
 - Any changes that the installation had on daily life
 - Probe those who had underfloor insulation
 - Probe those who had solid wall insulation
- **[If multiple measures] Explore any differences in experience for each measure**

5. Impact of measures (15 minutes)

Section aim: to understand the impact of measures

Researcher note: Acknowledge that we are experiencing a heatwave but encourage the participant to think about colder times. Go through for each measure they have had installed. If participant has already mentioned any impact, follow up and explore.

- **Impact on household**
 - Probe for impact on: use of heating and the temperature of the home
 - How easy or difficult is it to heat your home after the measure was installed?
 - For those who said that heating their home was easier after the measure was installed:
 - Explore how heating the home was easier after the measure was installed
 - Probe: explore if the home retains heat / length of time it takes to heat the home / explore if there are any differences in other rooms

- For those who said that heating their home was difficult to heat to a comfortable temperature after the measure was installed:
 - Explore how heating their home was difficult to heat to a comfortable temperature after the measure was installed
 - Probe: explore if the home doesn't retain heat / length of time it takes to heat home / explore if there are any differences in other rooms
- **Changes in temperature**
 - **For those who said that their home is cooler:** explore for reasons for why this could be. Probe: Have the measures worked/ is this the intended effect? Did the measures make it cooler in the summer and warmer in the winter [or no difference]? How did this make them feel? / Impact on wellbeing?
 - **For those who said that their home is warmer:** explore for reasons for why this could be. Probe: Have the measures worked? Did the measures make it cooler in the summer and warmer in the winter [or no difference]? How did this make them feel? / Impact on wellbeing?
 - **For those who said that their heating is on more:** explore reasons for why this could be. Probe: is it because of comfort / affordability? Have the measures worked? Did seasonal changes make a difference? How did this make them feel? / Impact on wellbeing?
 - **For those who said that their heating is on less:** explore reasons for why this could be. Probe: Has the home reached an ideal temperature? Are there any other reasons? Did seasonal changes or increase in energy prices make a difference? How did this make them feel? / Impact on wellbeing?
 - **For those who said that their heating use hasn't changed:** explore assumptions for why this could be. Did seasonal changes or increase in energy prices make a difference? How did this make them feel? / Impact on wellbeing?

Researcher note: Keep the bills section light.

- **Bills**
 - Did they notice any difference in their energy bills?
 - Explore reasons for why this could be.
 - How often did they check their energy bills?
 - Explore reasons why
 - Taking into account the measures you had installed, and the rising energy bills, do you think that your bills would have been more or less expensive than now?
 - Probe: If less expensive, explore reasons behind this
 - Probe: if more expensive, explore reasons behind this

Researcher note: Check time. The impact on health is less of a priority to BEIS, its ok to skip this section if needed.

- **Impact on health**
 - Did they feel there has been any impact on mental health?
 - Probe: has it improved or worsened
 - Probe: have changes impacted their day-to-day life
 - Did they feel there has been any impact on physical health?
 - Probe: has it improved or worsened
 - Probe: if they have existing health issues have these impacted? – is there evidence of this e.g. frequency of doctor/ hospital visits, change in medicine, feelings of wellbeing
 - Probe: have changes impacted their day-to-day life

- **[If multiple measures] Explore any differences in experience and impact for each measure**

6. Satisfaction with measures

(10 minutes)

Section aim: to understand extent of satisfaction with the measure(s) installed at each step in the journey.

Researcher note: go through for each measure they have had installed. If participant has already mentioned aspects they were/ were not satisfied with, follow up and explore.

- **Explore overall satisfaction with ECO journey**
 - Prompt by journey stage:
 - Being informed about the ECO scheme/ availability of the measures
 - Selection
 - Installation
 - Impact

- **If applicable, explore reasons for satisfaction with impact of the measures**
 - Probe: Energy bills more affordable, easier to heat home to a comfortable temperature, can have the heating on longer, property retains heat better, impact on health, increased value of property.

- Would they have the energy saving measure(s) installed if they had to pay for it themselves?
 - If yes, how much would they be prepared to contribute?
- **If applicable, explore reasons for dissatisfaction with the impact of the measures**
 - Probe:
 - faulty measures,
 - variable weather makes determining impact of measure(s) challenging,
 - Aesthetics:
 - no or negative difference in terms of damp/ rot/mildew draught
- **Overall, has getting the measures through the scheme impacted on their views on energy saving?**
 - Would they consider getting additional energy measures installed if they had to contribute towards such measures themselves?
 - If the participants mentions anything about the environment in the background and context section [2] then probe: Has your experience on the scheme impacted your views on the environment / energy saving?
- **Recommendations for how journey/ stage could be improved**
- **Final thoughts / comments around BEIS ECO scheme [wrap up the discussion]**

7. Thank you and close

(2 minutes)

- Incentive process
- Ethnography
- Request permission to pass the interview on to BEIS (Make sure that the recording is still on at this point)
- Thank you and close

Explain incentive process: “You will receive a £40 incentive via the perks platform as a thank you for your time and contribution”

About the Perks incentive

PERKS INCENTIVES: Within 7 working days of completing the research you should receive an email from rewards@perks.com containing a code to access your incentive. PERKS are an online platform and offer a range of options to spend your money on:

- order E-VOUCHERS for a range of websites

- physical LOVE2SHOP CARDS that will be posted to you
- donate to CHARITY
- make a PAYPAL payment to an account of your choice

We are also able to send a voucher to you if you do not have email access.

Ethnography / Invitation to take part in the in-home interviews

- **If the participant has expressed interest** in the recruitment about taking part in the in home interviews state:

“we mentioned during recruitment that we would also be doing a follow-on stage to this research involving a f2f interview in your home. You said that you were open to this, is this something that we can still contact you about”

- **If the participant did not express interest** in the recruitment about taking part in the in home interviews state:

“we mentioned during recruitment that we would also be doing a follow-on stage to this research involving a f2f interview in your home. You initially said that you were not open to this, is this something that we can still contact you about”

Request permission to pass the interview to BEIS:

“I said at the beginning that this interview would be recorded. Our client, the Department for Business, Energy and Industrial Strategy, would be interested in listening to some of the recordings. Do you give your permission to pass your interview, which include your name and interview answers, on to them?”

- Yes
- No

Thank and close

Wave 3 In-home discussion guide

Guidelines and briefing

Before starting the in-home interviews, remind the participants who Kantar Public are, the purpose of the research and how their data will be used, stored and deleted.

- **Introduction:** Introduce yourself and Kantar Public – independent research agency who have been asked to conduct this research on behalf of the Department for Business, Energy, and Industrial Strategy (BEIS)
- **About the client:** Research on behalf of BEIS – department responsible for energy saving policy and tackling fuel poverty.
- **Purpose of the visit:** Remind participants about their involvement in research, that as a result of receiving Energy Company Obligation Scheme (ECO) measures they have:
 - completed a survey about the measures they had installed
 - taken part in a tele-depth interview in August where they confirmed they were willing to take part in in-home research
- This final phase will involve them showing us and talking through the measures that were installed in their home. The purpose is to understand in more depth their experiences of having measures installed under the Energy Company Obligation Scheme (ECO). Explain that the main benefit of in-home research is that through them showing and us observing, we can understand more directly how the installation measures have made an impact on their home and life.

Give participant the consent form and talk them through the following information.

Researcher to say: *"As mentioned before, the approach to this research will involve a face-to-face interview in your home. With your permission, this will also involve taking pictures and /or filming parts of the interview to gain a deeper understanding of the impact of the measures installed under the scheme."*

- **How their information will be used:** Participant views and experiences will be looked at together with the views of others taking part in the in-home research across Great Britain. To support the findings of this research, the outputs from this research will be used internally within BEIS and shared in confidence with energy suppliers that BEIS has a close-working relationship with. Filmed outputs will not be anonymised and may be used as case studies to support the findings of this research. No personal data or information will be collected, requested or used from other members of the household.
- **Ethical considerations:** The research is entirely voluntary and participants can withdraw from the research at any time. Taking part in the research will in no way affect participant current or future relationship with BEIS or any other government department. Taking part in this research will also have no bearing on participants access to benefits in any government department.
- **Request permission to audio record:** the interview will be audio recorded so that we can accurately capture their views, and so researchers can listen back when analysing the data. They will be stored for up to a year, and will be deleted afterwards in line with

GDPR. More information about Kantar Public's privacy notice can be found here: <https://www.kantar.com/uki/surveys/>.

Only proceed if participant has signed consent form and the participant information sheet.

- **Duration:** Up to 60 minutes.
- **Incentive:** Participants will receive a £50 as a thank you for taking part in the research.
- **Reassurances:** No right or wrong answers - we are simply asking for people's views and experiences about taking part in the scheme. Participants have the right to withdraw from the research at any time.
- **Any questions/concerns?**

Researcher note: Guidance on recording

- **Before taking pictures or filming anything, make sure that:**
 - you have gone through the guidance and briefing
 - you make clear to the participant that they can stop the interview at any point and ask us not to film / take photographs of anything
 - you ask for the participant's permission before filming or taking a photo of anything: "Is it ok if I can take a picture of this"
 - before you film or take a photo of anything that you explain why you would like to do so
 - there are no other people in the photographs or filming
 - there are no pictures of other people e.g. wedding photos, family photos are in the photographs or filming

Researcher note: Guidance on note taking

- **Please follow this approach to ensure you capture relevant information for analysis purposes**
 - refer to existing information on participant (this will be recorded on capture sheet / note pad) so you either confirm or probe high level responses they have provided
 - use the capture sheet provided to make light notes during the interview
 - record useful quotes in one column, and moderator observations in another, mark suitability of a quote or topic for a 'vox pop' at the end of the interview
 - return to these vox pops at the end of the interview – depending on the interviewee, you may want to write down the exact words they say or rephrase it slightly while retaining the sense of the comment. Please make sure participants are comfortable with this before recording and remind them that they can withdraw consent at any time

Show and Tell: Home context

5 minutes

Aim: This section aims to capture how the home is used and the participants general feelings towards their home. **Use the notes from the tele-depth interviews to guide you to ask specific probes**

Note to researcher: Request permission to start audio recording and capture observations of the home context with a pen and note-pad.

Throughout this section, observe and note participant reactions / expressions. Sensitive prompt any sudden change of expressions / reactions and what prompted this.

- **Research instruction, request to film:**
 - Ask the participant to provide you a brief overview of their home.

- **Ask them to include:**
 - How long the participant has been living in the property
 - The type of property
 - Who the participant lives with?
 - How much time they generally spend at home
 - Areas of their home that have been improved as a result of the ECO scheme
 - Probe – spontaneous reasons for this
 - Any concerns / issues / planned or additional changes?
 - 3 words to describe their home
 - Why those three words?

Show and tell: Home Tour

5 minutes

Researcher: Ask the participant to give you a walking tour of their home and talk you through each room and how they are used. **Use the probes below and the notes from the tele-depth interviews to guide you. Note in your note-pad any observations and request permission to film where relevant / interesting**

Throughout this section, observe and note participant reactions / expressions. Sensitive prompt any sudden change of expressions / reactions and what prompted this.

- **Request a tour of the home**

Researcher note: The researcher is not expected to go around filming every room. During the tour – take detailed notes and observations.

- **Researcher instruction:**

- Ask the participant to give you a home tour, note the layout and set up of the home and the number of rooms.

- **Researcher instruction:** Ask the participant to give you an overview of how each room is used / which are used most and least often

- Probe - reasons and preferences for using different rooms
- Probe for spontaneous thoughts / impact at various points in the interview
- Probe where relevant, what the space / room felt like before the measures were installed

- **Experiences of damp / condensation:**

- Ask the participant if they had experienced damp / condensation before the measures were installed?
- Have participants noticed a changed in the damp / condensation since the measures were installed?

Researcher instruction: Where possible, ask the participant to show you any evidence of damp / condensation. Ask the participant to talk through this on film. Use the questions below to **guide you to probe for spontaneous thoughts:**

- Where relevant – which rooms did the damp / condensation appear in? / Are they visible throughout the year / assumptions of what triggered the damp / condensation
- Explore the impact that the damp / condensation had on the home and on the participant /

Show and tell: Measures

10 minutes

Aim: The aim of this section is to understand in further detail about the measures that were installed. **Refer to the participant notes from the tele-depths interviews and use the questions and probes below to guide you. Note in your note-pad any observations and ask the participant to share their spontaneous thoughts on film.**

Throughout this section, observe and note participant reactions / expressions. Sensitive prompt any sudden change of expressions / reactions. Enquire how the participant felt throughout the process.

Ask the participant to show you where the measures were installed.

- **Researcher instruction, request to audio record / if very relevant / interesting vox-pop:**
- **Overview:** Ask the participant to tell you what measures were installed in their home
 - Probe – spontaneous thoughts and impact at various points in the interview
 - Probe – 3 words to describe their experience of taking part in the scheme
 - Why those three words?
- **Detail:** Ask the participant to tell you where measures were installed in their home
 - Probe – spontaneous thoughts and impact at various points in the interview
 - Probe – where relevant, explore the use of the room[s] since the measure [s] were installed
 - Probe – what impact have the measure[s] had on the home / household in general

Tell me / show me: Temperature

10 minutes

- **Researcher instruction, request to film:**
 - Ask the participant to talk through the temperature and level of comfort of the home before the measure(s) were installed.
 - Probe – how have the measure[s] affected their and other members of the household's overall level of comfort around the home?
 - Probe- Did they use other ways of keeping warm before the specific measures were installed?
 - Probe – What was the impact of this?
 - Probe – how long the room / home retained heat for / what was the impact of this?
- **If the participant said that the measures haven't made a difference ('either because its too early' / or 'we haven't had a cold enough winter'/ boiler isn't working wall cavity not working)**
 - Probe on ways of keeping warm / any differences in rooms
 - Probe on their expectation of the measures when it does get cold - spontaneous thoughts
- **Ask the participant to tell you how they feel now after having the measures installed.**
 - Probe – on ease of heating the home / specific rooms e.g if participant has new storage heaters, does the participant need to go into every room and set the heaters? / what is their experience of this?

- Probe – if the participant has new windows does the room feel different compared to what it did before? / explore reasons for this.
- Probe – on temperature of the home or rooms / if the home retains heat – where relevant, does this differ by room?
- **Any concerns or issues?**

Tell me: Use of heating

10 minute

Aim: The aim of this section is to understand participant priorities and decisions around heating the home. **Refer to the participant notes from the tele-depths interviews where relevant. Note in your note-pad any observations. Use the probes below to guide you.**

Throughout this section, observe and note participant reactions / expressions. Sensitive prompt any sudden change of expressions / reactions and what prompted this.

- **Researcher instruction, request to film:**
- **Researcher note:** Ask the participant to talk you through how they heat their home. Use the following probes:
- **[Refer to tele-depth interview notes]** *“In your interview, you mentioned that your heating is easier / more difficult to use since the measures have been installed, can you tell and show me a bit more about why you said that / what you meant by that.”*
 - Probe – impact of this
- **Priorities and decisions**
 - **Ask the participant to talk through what is important to them when considering heating their home.**
 - Probe – How are decisions made in their home when it comes to heating the home? / is there anyone else who might be involved in the decision around when the heating is put on?
 - Probe – is deciding when to put the heating on an amicable agreement?
 - Probe - Explore active vs passive management of heating i.e Is the heating on a timer or used as and when / is the house heated to a certain temperature?
 - Probe – spontaneous thoughts - if the house is heated to a certain temperature, have the installations helped them to achieve / retain the temperature easier /longer?
 - Probe – impact of this

Tell me: The installation process and aftercare

15 minutes

Aim: The aim of this section is to understand participant experiences of the installation process. **Where relevant, refer to the participant notes from the tele-depths interviews. Note in your note-pad any observations. Use the probes below to guide you. Where relevant, ask the participant to show you.**

Throughout this section, observe and note participant reactions / expressions. Sensitive prompt any sudden change of expressions / reactions.

Researcher instruction, request to film:

“Can you tell me more about your experience of the installation process. You mentioned that the installation for X took Y number of days / hours, what impact did this have on your daily life? / were there any changes to your or other household members routine that you had to make?”

*[Note to researcher: if the participant had multiple measures installed, ask what impact did this have on daily life? / **Probe on** access to rooms around the house / any work-arounds in place. Then ask about the impact the installation had on other members of the household e.g children, people with mobility issues / health issues. **If needed, follow up with the relevant probes below**].*

- **Probe [underfloor insulation]** – did the participant experience any access issues to the specific rooms e.g kitchen to make dinner
 - How did they feel about this
 - where relevant, what did the participant do whilst this was happening (any work-arounds)
- **Probe [underfloor insulation]** – did the participant hear any noise?
 - Where relevant, what kind of noise did they experience?
 - How did they feel about the noise?
 - How long did the noise go on for? / how did this impact them?
 - Where relevant, what did the participant do whilst this was happening? (any work-arounds)
- **Probe [roof insulation]** – did the participant experience any access issues to the stairs / rooms upstairs
 - How did they feel about this
 - where relevant, what did the participant do whilst this was happening (any work-arounds)
- **Probe [roof insulation]** – did the participant hear any noise?
 - Where relevant, what kind of noise did they experience?

- How did they feel about the noise?
- How long did the noise go on for? / how did this impact them?
- Where relevant, what did the participant do whilst this was happening? (any work-arounds)
- **Probe [wall cavity / solid wall insulation]** – did the participant experience any access issues access issues to specific rooms
 - How did they feel about this
 - where relevant, what did the participant do whilst this was happening (e.g any work-arounds)
- **Probe [wall cavity / solid wall insulation]** – Any noise?
 - Where relevant, explore what kind of noise and how long it went on for
 - How did they feel about this
 - where relevant, what did the participant do whilst this was happening (any work-arounds)
- **Probe [new windows]** – did the participant experience any access issues / any comfort issues - was it cold? / draughty?
 - where relevant, what did the participant do whilst this was happening?
 - How did they feel about this?
- **Probe [new windows]** – Any noise?
 - Where relevant, explore what kind of noise and how long it went on for
 - How did they feel about this?

Researcher instruction, request to film: After the workers left and you had the measure(s) installed did you receive any aftercare information?

- Where relevant, what information did you receive? / do you still have the information?
- Where relevant, what could have been done to minimise the disruption?
- What sort of aftercare / information would have been helpful?
- Take pictures of any evidence of aftercare – if there isn't any sensitive information; Do the participants still have the leaflet / any info of how they heard about the scheme?

Researcher instruction, request to film: *“Thinking back on your whole experience of having the measures installed and taking part in the scheme, how would you describe your experience in 3 words? Probe – why those 3 words?”*

Close

- Has the participant looked into additional energy saving measures on top of what they have had installed – (**where relevant**) which ones? How did they find out about the [other] measures?
- Would they have the energy saving measure(s) installed if they had to pay for it themselves?
 - Probe: given the rise in energy prices, does this make a difference if they would decide to pay for the measures?
- How does the participant feel having taken part in the research to share their experience?
-

Thank the participant and explain how the incentive will work. Space for reflection

An open space to write up reflections as soon as you've left the property

Prompts:

- General thoughts on the quality of instalments, condition & warmth of the property
- Non-verbal cues from participant (e.g emotional state, reactions to installations)

Ease of communication between researcher and participant

Appendix G: Achieved sample for the qualitative research

Wave 1

Sample group	Completed
Total	40
Obligation: CERO	15
Obligation: AW Standard	15
Obligation: AW Flexible	10
Number of measures: Single measure	20
Number of measures: Multiple measures	20
Measure: Insulation	23
Measure: Heating	4
Measure: Mix	13
Level of disruption: Highly disruptive	7
Level of disruption: Quite disruptive	10
Level of disruption: Not very disruptive	13
Level of disruption: Not at all disruptive	10
Level of impact: High impact	11
Level of impact: Medium impact	16
Level of impact: Low impact	13
Benefit: Positive	29
Benefit: Negative	6
Benefit: Neutral/no impact	5
Gender: Male	14
Gender: Female	26

Sample group	Completed
Age: Under 18	0
Age: 18-24	1
Age: 25-34	8
Age: 35-44	6
Age: 45-54	10
Age: 55-64	7
Age: 65+	8
Region: Greater London	0
Region: South East	3
Region: South West	7
Region: West Midlands	6
Region: North West	5
Region: North East	2
Region: Yorkshire and the Humber	3
Region: East Midlands	3
Region: East of England	1
Region: Scotland	4
Region: Wales	6
Region: Northern Ireland	0
Tenure: Own home	26
Tenure: Private Renter	8
Tenure: Social Housing renter	6
Property type: House	35
Property type: Flat	2
Property type: Other	3

Wave 2

Sample group	Completed
Total	40
Obligation: AW Standard	20
Obligation: AW Flexible	20
Innovation measure	7
Number of measures: Single measure	20
Number of measures: Multiple measures	20
Measure: Solid wall insulation	7
Measure: Underfloor insulation	10
Measure: Other measures	23
Satisfaction with measures: Very satisfied	26
Satisfaction with measures: Very dissatisfied	1
Satisfaction with measures: Fairly satisfied or fairly dissatisfied	13
Barriers to getting measures installed: Cost	9
Ease of heating home to a comfortable temperature before the measures: Very easy	5
Ease of heating home to a comfortable temperature before the measures: Easy	13
Ease of heating home to a comfortable temperature before the measures: Neither easy nor difficult, Difficult, Very difficult	22
Gender: Male	20
Gender: Female	20

Sample group	Completed
Age: 18-24	2
Age: 25-34	8
Age: 35-44	6
Age: 45-54	6
Age: 55-64	10
Age: 65+	8
Income: Under £5,000	8
Income: £5,000 - £15,999	15
Income: £16,000 - £24,999	9
Income: £25,000 – £34,999	3
Income: £35,000 - £44,999	1
Income: £45,000 - £49,999	1
Income: £50,000 - £74,999	2
Income: £75,000 or more	1
Tenure: Own home	24
Tenure: Private Renter	9
Tenure: Social Housing renter	6
Property type: House	28
Property type: Flat	7
Property type: Other	5

Wave 3

Sample group	Completed
Total	40
Obligation: AW Standard	20
Obligation: AW Flexible	20
Innovation measure	7
Number of measures: Single measure	10
Number of measures: Multiple measures	30
Measure: Solid wall insulation	12
Measure: Underfloor insulation	7
Measure: Other measures	21
Satisfaction with measures: Very satisfied	16
Satisfaction with measures: Satisfied	13
Satisfaction with measures: Neither satisfied nor dissatisfied	1
Satisfaction with measures: Dissatisfied	3
Satisfaction with measures: Very dissatisfied	7
Ease of heating home to a comfortable temperature after the measures: Very easy	8
Ease of heating home to a comfortable temperature after the measures: Easy	19
Ease of heating home to a comfortable temperature after the measures: Neither easy nor difficult	4
Ease of heating home to a comfortable temperature after the measures: Difficult	6
Sample group	Completed
Ease of heating home to a comfortable temperature after the measures: Very difficult	3
Home temperature since installation: A great deal cooler	2
Home temperature since installation: A little cooler	3

Home temperature since installation: About the same	11
Home temperature since installation: A little warmer	12
Home temperature since installation: A great deal warmer	12
Gender: Male	20
Gender: Female	20
Age: 18-24	0
Age: 25-34	5
Age: 35-44	8
Age: 45-54	7
Age: 55-64	8
Age: 65+	12
Income: Under £5,000	6
Income: £5,000 - £15,999	11
Income: £16,000 - £24,999	12
Income: £25,000 – £34,999	5
Income: £35,000 - £44,999	1
Income: £45,000 - £49,999	3
Income: £50,000 - £74,999	1
Income: £75,000 or more	1
Sample group	Completed
Tenure: Own home	25
Tenure: Private Renter	9
Tenure: Social Housing renter	4
Tenure: Other	2
Property type: House	22
Property type: Flat	8
Property type: Other	10

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