
Homes for Net Zero

Supplier Engagement Day

6th April 2023



Welcome

Agenda

- Introductions
- Overview of the project
- Details of Phase 1 – this commission
- Procurement approach
- Q&A

Slides and a copy of the combined questions and answers will be provided after the event.

We will also share the details of any organisations that want to share their contact details with other potential bidders. If you have not already done so, please complete the form to provide your consent and details. The deadline for completing the form is 18/04/23.

<https://forms.office.com/Pages/ResponsePage.aspx?id=BXCsY8EC6000I-ZJLRst2P-T2mwAnR1NongYixRJiyFURFFMTUhCMzIMM1AzWFBPMIM3RIpYSEFDViQIQCN0PWcu>



Background to the Requirement

To meet our legally binding climate targets we will need to decarbonise energy from use from all homes.

There are a number of areas of research in which we would like to improve our evidence base on:

- Options for taking an **incremental**, rather than whole house, approach to retrofit.
- **Low cost, low disruption measures** which can be packaged together.
- The role of **alternative electric heating** options in specific cases, i.e. other than low temperature heat pumps.
- Potential for **alternative methods of supplying domestic hot water** i.e. other than conventional hot water cylinders.
- The potential need for **space cooling** and the interaction with technologies to decarbonise heating.

We aim to focus on owner occupiers with gas boilers in this initial phase of research.



Overall Objectives

- Deliver a project that will focus on **practical research and monitoring of 1000 real homes** in sectors which are recognised to be challenging to decarbonise from a policy perspective. Notably owner occupiers in gas heated homes.
- Provide a **monitoring methodology** that will gather data that can be used to answer a wide range of research questions.
- **Build on existing energy monitoring infrastructure** to make best use of existing resources e.g. smart metering infrastructure.
- Research data and outputs should be **robust, reliable, transparent and accessible** so that it can be effectively utilised by policy makers and the wider research community in order to maximise the potential value of publicly funded research.



Project Phases

We are aiming for this project to be longitudinal with multiple phases of research.

This commission is only for Phase 1.

There will be an option to extend the contract for a second phase but this is not guaranteed and is reliant on future government spending to be confirmed beyond March 2025.



Phase 1 Overview

Objectives

- Develop a **methodology for producing net zero ready roadmaps for homes**. Building on existing knowledge and methods, the project will aim to create plans for incremental improvements for homeowners to put them on a path to decarbonisation. This will likely include installation and testing of measures such as:
 - Professional draught proofing.
 - Heating system MOTs, packaging boiler maintenance, hydraulic balancing, power flushing of pipes and emitters etc.
 - Upgrading heat emitters.
 - Lowering heating system flow temperatures.
 - Advanced control e.g. zonal control.
 - Loft insulation replacement and improvement.
- Gather **data and evidence on the effectiveness of simple, low cost measures** that homeowners can readily implement to put them on the path to a net zero ready home.
- **Make best use of smart meters** to both provide data to accurately measure gas and electricity consumption as well as providing historical data to use as the baseline energy consumption of homes. Smart meter infrastructure should also be maximised to allow for accurate and reliable data collection and processing.
- **Actively engage with homeowners** and other householders to include them in the decision making processes and gather behavioural data to inform complementary social research questions.



Phase 1 Overview

Scope – UK wide, however we would expect the majority of homes to be in England and Wales.

Timeline - ~Aug 2023 – March 2025

Budget ~ £1 – 1.2million exc.VAT

The second phase of the project is estimated to run from April 2025 – Mar 2027 with an estimated budget of £2.3million. There will be a break clause in the contract at the end of Phase 1, therefore this is not confirmed nor is it guaranteed to be commissioned.



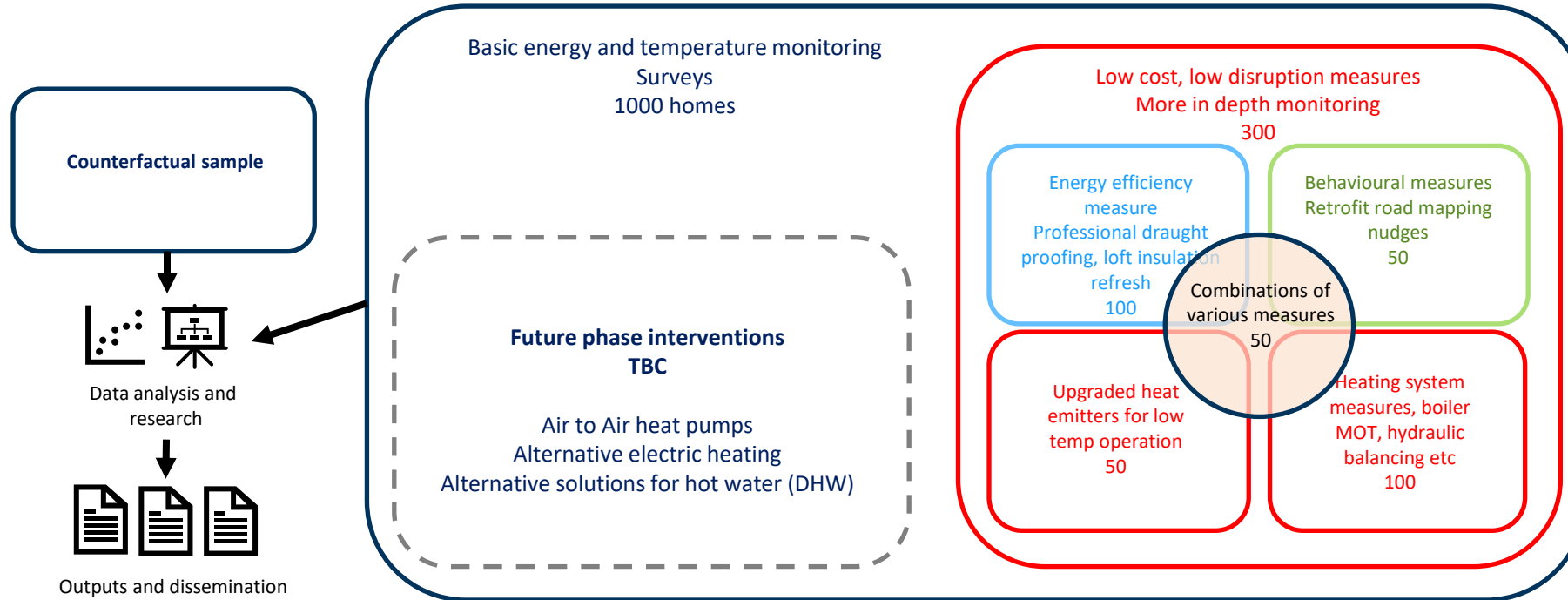
Phase 1 Method Overview

In order to deliver this project within the time and budget available we have proposed the following high level method. However, bidders will be open to propose their own routes for delivering the objectives, research questions and outcomes that will be outlined in the ITT.

- Recruit 1000 homes into the project, building on existing research infrastructure which have homes recruited into existing trials.
- Establish different test groups to answer research questions, engage with households for road mapping and selection of measures.
- Develop a monitoring system to provide robust, reliable and high quality data to answer the research questions.
- Trial the monitoring system in a small number of homes.
- Roll out the monitoring system to the full and install selected measures.
- Monitor homes for 1 year
- Analyse data and report on findings.



Phase 1 Method Overview



Procurement Approach

Timing – The Invitation to tender is estimated to go live in late April/May 2023 and will be open for at least 5 weeks. Detailed timings will be included in the tender pack

Slides and Q&A In the interests of fairness, slides and Q&A from this session will be anonymised and shared with all bidders, including those unable to attend today.

Route to Market – The opportunity will be published via a Contract notice which will be issued on Find a Tender Service (FTS) and Contracts Finder (CF)

Jaggaer eSourcing – The procurement will be managed through our Jaggaer e-sourcing portal. Suppliers can register for access at any time, and it's free of charge to use (<https://beisgroup.ukp.app.jaggaer.com>)

IMPORTANT - All enquiries during the procurement process must be channelled through the procurement e-sourcing system via the “Messages” tab of the ITT on Jaggaer. <https://beisgroup.ukp.app.jaggaer.com/>



Procurement Approach

Terms and Conditions

- Cabinet Office Mid-tier contract T&Cs are expected to form the basis of the contract, we will publish the final version of the T&Cs at the time of the ITT. The Mid-tier terms can be viewed here:
<https://www.gov.uk/government/collections/the-mid-tier-contract>
- They will be final and any bids submitted on condition that T&Cs are amended will be effectively submitting a non-compliant bid.
- If you have questions about the T&Cs you can ask them today or during the ITT Q&A window.
- All Q&A raised during the ITT publication period will be anonymised and shared with all bidders.



Q&A

Please put your questions in the Q&A box on Teams.

We will take away all questions and provide a combined Q&A document that will be made available to all bidders.



Feedback for us

We are keen to receive your feedback on what you have heard today.

Please provide specific feedback on the following points:

- Do you think the budget is about right/too high/too low for the requirement?
- Do you think the requirements are deliverable within the proposed timeline?

Please provide feedback by email to:

Builtenvironmentresearch@beis.gov.uk

