

Residential building energy demand reduction in India (RESIDE)

Participant Information Sheet

Information for the interested homeowner/participants before signing the consent form

We invite you to participate in a nation-wide research study jointly funded by the Department of Science and Technology (DST), Government of India and the Engineering and Physical Sciences Research Council (EPSRC), United Kingdom.

Before you decide to participate, it is important that we inform you about the purpose of the research, what it involves and how it will be conducted. Please take some time to read the following information and ask any doubt you may have regarding the same.

What is the purpose of the study?

The purpose of this study is to develop a better understanding about electricity use in homes across India and to identify ways of managing and reducing its use.

Why have we been invited to participate?

The research focuses on a variety of homes in different locations. We are inviting you to participate because your home is of a suitable age, type and location.

What should we do if I want to take part?

If, after reading the information about the study, you wish to participate then please complete the “consent form” the researcher will provide you. If you are unsure about participating or have any questions about the study then please get in touch with us and we will be happy to answer them. Our contact details are given at the end of this document.

What will be our role in the study?

Once you agree to participate, we will visit you in your home to install and remove (non-invasive) sensors, record data from time to time and undertake building survey.

- **Sensors:** The following sensors will be installed:
 - One sensor with the capability to record temperature and relative humidity only. This will be installed in a regularly occupied room with/without air conditioning.
 - The other sensor is able to record electricity use only. This will be installed on the main circuit board of the house by a trained electrician.
 - Another sensor will be installed to measure the indoor air quality. We will need to access to your home broadband,
 - The sensors are small, unobtrusive and we request that you ignore them. They will not consume any electricity or disturb anything in the house.
- **Energy assessment (Energy bills / meter readings):** We will need the monthly electricity bills for a period of one year (1 January 2021 – 31 December 2021). We will photograph the bills and take meter readings during each visit so that we can chart electricity use in the homes.
- **Occupant Surveys:** Short 10-15 minute questionnaire surveys will be done face-to-face with you throughout the year. The questions will be about energy use, thermal comfort and factors that influence electricity use in homes.
- **Building survey:** Brief (15-20 minute) visual surveys of the dwelling will be done at the start of the project, to note physical characteristics such as windows and appliances.

The study will be conducted over nine visits (no more than 12) to your home during one year. Each visit will take approximately 10-30 minutes. The timing of the visits will be arranged to suit your availability and convenience. The following table indicates the time and purpose of the visits. The first four visits will be conducted within the first two months.

Visit no.	Approx. timeline	Purpose
Visit 1	March 2022	Recruitment, Energy survey (bills)
Visit 2	March 2022	Energy survey (bills), Building survey, Household survey, Meter reading (MR)
Visit 3	March 2022	Cooling/heating survey, Appliance survey, Meter reading
Visit 4	April 2022	Comfort survey (summer), Meter reading
Visits 5, 6	Optional	Additional visits can be conducted in between if there is any remaining information to be gathered

Are there any disadvantages in the whole study/survey?

There are no risks or disadvantages to you. If, during any visits to your home, you feel that the researcher is intruding on your privacy or you are unhappy for any reason, please bring this to the researcher's attention and the visit can be stopped. You can withdraw from the project at any time without giving a reason. You can also contact us at any time with concerns or questions.

Will my personal data provided in this study be kept confidential?

YES, your personal details will be kept confidential. The research data and findings will be anonymised so that your home is only ever referred to by a random code.

For what will the results of this study be used?

The results will be used ONLY to understand energy use in homes in India and to suggest measures to reduce energy use. The research findings will be published in renowned academic journals and conference papers. As outlined above, **the results will be anonymous so that you and your home are not identifiable at anytime.**

Who is organising and funding the research?

The RESIDE research project is being undertaken by Oxford Brookes University, United Kingdom and the International Institute of Information Technology – Hyderabad, India, Malaviya National Institute of Technology – Jaipur, India,. The research is jointly funded by Engineering and Physical Sciences Research Council (UK), Economic and Social Research Council (UK), Newton Fund (UK), and the Department of Science & Technology (India).

Who has reviewed the study?

This research has been approved by the University Research Ethics Committee of Oxford Brookes University, UK.

Contact for Further Information

If you have any questions or concerns at any time before, during or after the study you can contact

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Thank you for taking time to read this information sheet.