



## RESIDE Post-occupancy evaluation study

### What is the RESIDE project?

RESIDE is a five-year Indo-UK research initiative designed to assess all aspects of residential energy use including performance of the building fabric; in-home appliances including heating, ventilation and air conditioning; indoor environment and occupant behaviour. The project is led by Oxford Brookes University (Oxford, UK) and the International Institute of Information Technology (Hyderabad, India) with Malaviya National Institute of Technology (Jaipur, India). The research is jointly funded by the Department of Science & Technology (India), Engineering and Physical Sciences Research Council (UK), Economic and Social Research Council (UK) and Newton Fund (UK).

### What is the purpose of the RESIDE Post-occupancy evaluation (POE) study?

The purpose of the RESIDE POE study is to develop a better understanding the relationship between energy use, indoor environmental conditions and occupant behaviour in modern urban dwellings designed to high standards. This will help us to identify which energy-using practices can be adapted for energy demand reduction.

### What should we do if I want to take part?

If you wish to participate, a recruitment survey will be conducted by the RESIDE field researcher to understand the dwelling appropriateness and availability of electricity data. The field researcher will then ask you to complete a “consent form”. 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 the study involve?

Once you agree to participate, we will visit you in your home to install sensors that record data from time to time and undertake surveys.

- **Sensors:** The following sensors will be installed:
  - One sensor with the capability to record temperature and relative humidity (Envilog), indoor air quality with CO<sub>2</sub> and PM2.5 sensors (Airveda). We will need access to your home broadband for the Airveda sensors.
  - 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 (Meter readings):** We will take meter readings during each visit so that we can chart electricity use in the homes.
- **Occupant Surveys and interviews:** 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.

## **RESIDE: Residential Building Energy Demand Reduction in India**

- **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 six visits to your home during 1 year. Each visit will take approx 10-20 minutes. The timing of the visits will be arranged to suit your availability and convenience.

### **Are there any benefits in the whole study/survey?**

This study can provide insights into your energy use and your perception of comfort in your own home and can inform where to reduce energy use. You will also be able to access data about indoor environmental conditions of your home. 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 always be kept confidential. **The research data and findings will be anonymized** 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.*

### **Contact for further Information**

If you have any questions about the study you can contact,

**Prof Dr Rajat Gupta**, Oxford Brookes University, Oxford, UK

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Thank you for taking time to read this information fact-sheet.