

## Scalable Feedback Mechanisms

*This project aims to establish feedback mechanisms within Kenya Power to understand the contribution of eCooking to demand stimulation. These mechanisms should be scalable as the uptake of eCooking accelerates and should enable Kenya Power to make evidence-based and adapt its approach accordingly.*

## Programme Background

This project responds to a direct request from the Government of Kenya, through the Energy Transition Council, for support to accelerate the transition to electric cooking and develop a National eCooking Study and Strategy for Kenya. The National eCooking Study and Strategy will feed into the overarching National Clean Cooking Strategy 2022-2028 and will focus on how energy-efficient eCooking technologies can be scaled-up in Kenya with the intended impacts of minimizing the drudgery and health risks associated with the use of solid fuels for cooking; improving environmental sustainability; and stimulating growth in demand for electricity.

The project will deliver against three objectives:

- (1) to produce a major study highlighting the potential for electric cooking in Kenya and how uptake might best be accelerated;
- (2) to support innovative new ventures within the Kenyan electric cooking sector that can help deliver the above with a particular emphasis upon supply chain development, carbon finance, utility-enabled finance and other forms of innovative consumer financing and profile-raising public awareness activity. These two objectives will contribute to the final objective;
- (3) to support the Kenyan government in the production of an integrated and comprehensive new national clean cooking strategy that is sensitive to Kenya's climate as well as energy access ambitions.

This project, as part of a package of studies for eCAP (ecooking capacity building and market development), will run in parallel to the development of the eCooking Strategy. The findings of the projects carried out under eCAP will be able to feed into the baseline study and the strategy and vice versa (i.e. issues identified during the baseline study can be explored and proposed actions from the strategy can be piloted in relevant eCAP projects).

## Project Background and Scope of Work

The latest census data ([KNBS, 2019](#)) showed that the number of households in Kenya cooking primarily with electricity was still below 1% and the [Household Cooking Sector Study \(EED, 2019\)](#) showed that just 3% of the population own an eCooking appliance. Since then, commercial sales of eCooking devices have increased considerably, with nationwide campaigns airing on prime-time TV, numerous pilot projects and Results-Based Financing (RBF) programmes supporting the sale of over 8,000 Electric Pressure Cookers (EPCs). Several pilots have collected detailed data from consumers, but this data is often not made available to Kenya Power and if it is, it is normally not possible to cross-reference with their customer billing data as the meter numbers of participants are usually not recorded.

The following activities should be undertaken as part of this study:

1. **Collate existing data:** Collate existing datasets from across the country, follow up with participants to obtain meter numbers and cross-reference customer billing and smart-meter data.
2. **Appliance Demand Platform (ADP):** Work collaboratively with A2EI to set up their ADP in partnership with Kenya Power’s Institute for Energy Studies and Research (IESR) & Sales Growth teams to build capacity within Kenya Power to collect, process & analyse data on the uptake/usage of eCooking at scale.
3. **Scalable data collection:** Set up scalable mechanisms for collecting data from consumers who acquire an eCooking appliance<sup>1</sup>. This should include setting up relationships with KEBS and appliance distributors to track appliance sales via import data and retail sales data and implementing the MECS appliance availability survey to track the range of products available across the country.
4. **Report writing:** Synthesise outcomes to inform the eCooking Strategy & KPLC’s Board of Directors.

## Deliverables, budget, and duration

All contracting will be completed prior to the middle of December 2022. The research is expected to commence no later than **7<sup>th</sup> January 2023**. All deliverables must be completed and delivered no later than **15<sup>th</sup> July 2023**. These dates are non-negotiable.

The consultant should demonstrate in their response to these ToRs how the work can be completed within the time available. The total budget is a maximum of £19,166 (ex VAT where applicable). Payment is contingent on successful completion of all deliverables.

Date	Deliverable	Payment Value
December 2022	Contract Signing	25%
15 <sup>th</sup> March 2023	Interim progress report	50%
15 <sup>th</sup> July 2023	Approved final report on key learnings	25%
<b>Total</b>		<b>100%</b>

## Communication and Reporting

The contractual requirements will be managed by Jane Spencer, Project Manager at Loughborough University. All communications and reporting should be sent to [j.e.spencer@lboro.ac.uk](mailto:j.e.spencer@lboro.ac.uk).

The consultant/organisation is expected to communicate regularly throughout the project via four-weekly update meetings or phone calls, and emails, on:

- Research progress and milestones achieved;
- Anticipated challenges or changes to research plans, activities and timelines;
- Upcoming activities and next steps; and
- Delays or concerns on reporting.

All meetings and appointments to discuss the overall progress of the project against the contract will be agreed and arranged in advance at mutually convenient times. Any significant changes to the approved research plan and timelines must be discussed and approved in advance. Loughborough University reserves the right to request the consultant/organisation to make revisions to the deliverables if they do not meet the required

<sup>1</sup> e.g. developing a voucher to present to consumers at the point of sale, offering free electricity tokens for any additional units purchased during their first month of using the eCooking appliance, which would require sharing their meter number to issue the tokens. It could involve a short SMS survey to understand usage patterns & could make consumers aware of Pika na Power classes & online resources.

quality. The consultant/organisation will be required to make these revisions at no additional costs to Loughborough University.

## Responding to these ToRs

Each submission will be evaluated based on the following combination of price and quality;

Quality	Score
Appreciation and understanding of the task.	5%
Quality of proposal and methodology	50%
Skills, expertise and experience of consultant/organisation team members including evidence of similar work completed	10%
Proposed management of the activities including Gantt chart	5%
Price and costs	30%
<b>Total</b>	<b>100%</b>

The University will accept the quotation which is the best value for money i.e. a balance between cost and quality. Shortlisted organisations may be invited to an interview (online) to finalise selection.

Responses should be a maximum of 12 pages (plus up to 3 CVs, 2 pages each).

Please send all responses to [steer@mailbox.lboro.ac.uk](mailto:steer@mailbox.lboro.ac.uk) with the subject 'Scalable Feedback' by midnight (GMT) on **Thursday 17<sup>th</sup> November 2022**.

## Ethical considerations

All research must be in line with the [Code of Practice for research, Promoting good practice and preventing misconduct](#) (UK Research Integrity Office, 2009).

The UK Research Integrity Office (UKRIO) is an independent charity, offering support to the public, researchers and organisations to further good practice in academic, scientific and medical research. Its confidential advice service is available to free of charge to individuals (members of the public, research participants, patients, researchers and students) and subscribing organisations. Their advice service can be [accessed here](#).

At a minimum, participants must not be subjected to physical, social, legal or psychological harm. Due consideration and ethical steps must be taken into safeguarding all participants, especially the vulnerable. A detailed Participation Information Sheet explaining the full scope of the study, what confidentiality entails, and that no participants will be forced into participating, must be provided at recruitment. Participants are to be made aware that participation is fully voluntary and there are no repercussions if they choose to no longer participate in the study at any point in time. Participants should, ideally, sign a consent form which includes consent for the use of photographs and videos.

Confidentiality must be maintained at all times. With regards to confidentiality and privacy of participation, participants must be informed that their anonymity will be maintained in any outputs and that all identifiable

markers will be removed from any data sets that are published. Additionally, due consideration must be made to ensure that participants are safeguarded during the research process in line with the local government issued guidelines around COVID-19.

The consultant will be responsible for securing any research or ethical permissions needed from local authorities in each of the field work locations. There may be additional ethical, or research clearance needed for this kind of user centric design research in the chosen country.

