

EMPOWERING CONSUMERS THROUGH AI-POWERED ENERGY LITERACY TOOL: A CO-DESIGNED APPROACH

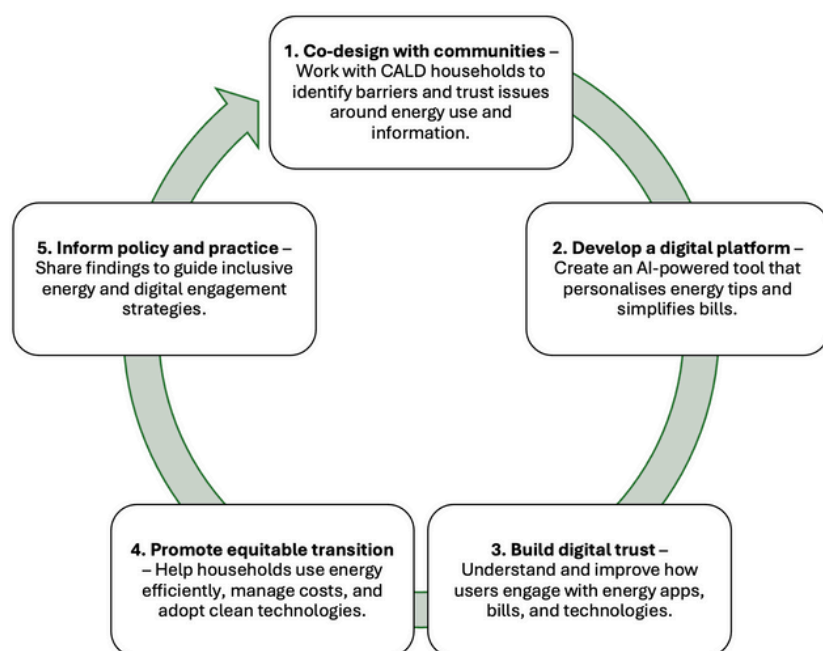
1. INTRODUCTION

- Australia's energy system is rapidly evolving, driven by rooftop solar, smart meters, complex tariffs, and digital platforms.
- Many households struggle to make sense of their energy use and bills.
- Culturally and Linguistically Diverse (CALD) and digitally excluded communities are particularly affected, often finding energy information confusing or inaccessible.

3. PROJECT OVERVIEW

The aim of the project is to co-design an AI-powered digital platform that improves energy literacy, builds trust, and empowers Culturally and Linguistically Diverse (CALD) communities to make confident energy decisions about efficient energy use and bill management.

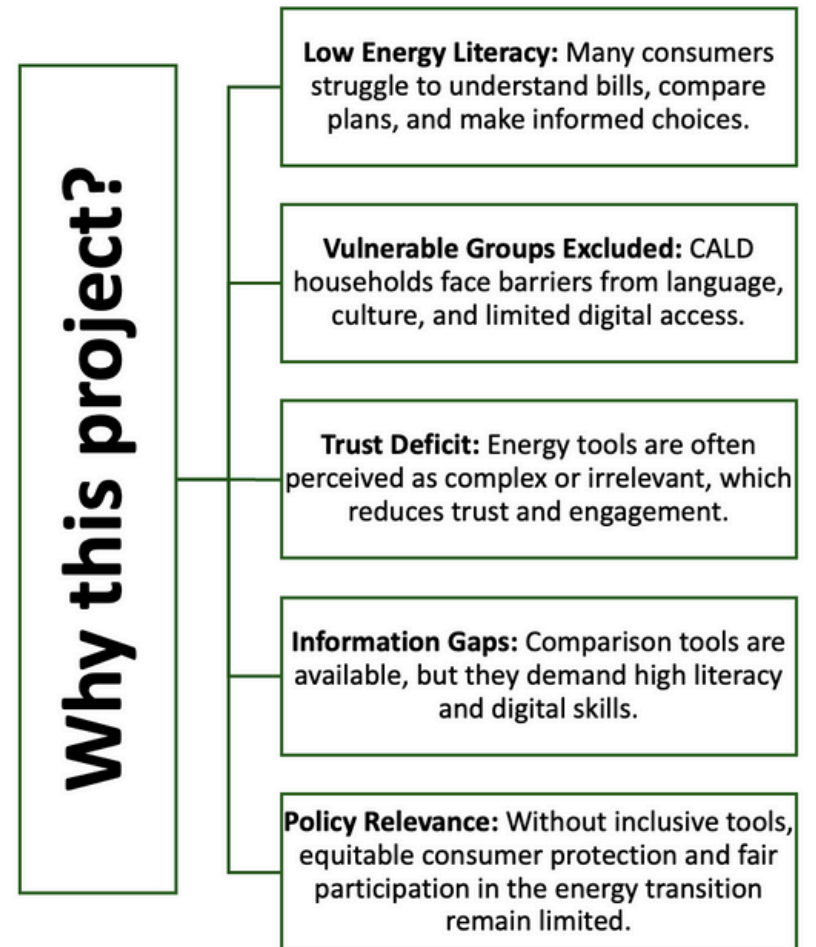
4. PROJECT OBJECTIVES



RESEARCH TEAM

Lead: Dr Bahareh Berenjforoush Azar (UTS)
Co-Leads: Dr Arash Shaghaghi (UNSW)
Contributors: Dr Camille Dickson-Deane, A/Prof. Adrian Camilleri, Prof. Jahangir Hossain, Dr Morteza Saberi, Dr Avinash Singh and A/Prof. Daniel Prior

2. WHY THIS PROJECT



5. METHODOLOGY

This study uses a co-design, mixed-methods approach that combines social research, behavioural insights, and AI modelling to understand how digital tools can build trust and improve energy literacy.

Research Stages:

1. Needs Analysis
2. Co-Design Workshops
3. Prototype Development
4. Evaluation
5. Policy Translation

6. PROJECT IMPACT

This project will inform policymakers, regulators, and community organisations on how co-designed AI tools can enhance inclusiveness, usability, and trust in digital energy engagement. It will promote interactive, evidence-based approaches that empower consumers and strengthen confidence in managing energy use.

Trustworthy
Digital Society