

Faculty of Engineering

Summer Research Program 2023-2024

Project Title: Techno-Economic Assessment of Community Battery Storage Systems

Supervisor(s): Dr Reza Razzaghi

Department: Electrical and Computer Systems Engineering

Email: reza.razzaghi@monash.edu

Website of project supervisor: <https://www.monash.edu/dips>

Objective

The aim of this project is to carry out feasibility assessment of community battery storage systems considering both market and network services that they can provide. The project will undertake financial assessment for these batteries as well as electrical modelling studies to assess their impact on power distribution networks.

Project Details

A community battery is a shared battery (operating 'in front of the meter') through which customers are able to store excess solar PV energy which they can then access at a later time to offset their energy import. In parallel, the community battery can also be used to support network operations and potentially trade in the wholesale markets. With the recent Federal and State Governments grants, the uptake of community batteries has increased. This project aims to study different ownership models of the batteries, evaluate different market and network services they can provide and assess their financial viability considering the installation and operation costs, and various revenue streams.

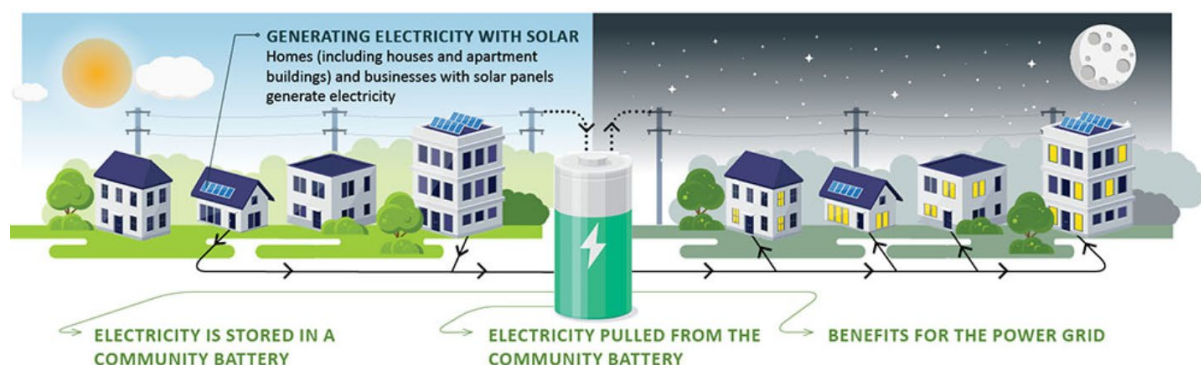


Image Source: DCCEEW

Prerequisites

N/A

Additional Information

Potential applicants are required to attend an interview.