

A project plan designed to enable development of a Wintec electric vehicle.

With the global focus shifting from the burning of fossil fuels there has been a rise in the uptake of alternative energies. The most apparent mobility alternative in modern society is that of the electric vehicle and as such the major motor groups are extending their offerings to include both hybrid and 100% electric vehicles. As in most modern cities in the world ~70% of vehicle usage is single passenger trips. With this in mind we see the one area of the electric vehicle sector which is underdeveloped is the single seat electric vehicle (SSEV).

This project will be the beginning of an ongoing contribution from CEID towards NZ' greener future. The scope for this project is clear; in order to fabricate a SSEV a detailed project plan is needed. The project plan must include all of the necessary information to ensure the vehicle can built to road legal status.

The project requires;

- a literature review to determine the current SSEV market
- an outline of the standards required to meet road legal status
- a breakdown of the various systems of an EV identifying the componentry of each system
- a production plan that includes time blocks, gantt and fabrication dependencies

Industry supervisor: Nil. This project supports future research at Wintec.

Project supervisor: Dr. Paul Ewart and Brent Phillips