

Conditionally approved projects - First Round Low Emission Vehicles Contestable Fund

The projects needed to contribute to at least one of the following objectives:

- Increasing the variety and supply of electric vehicles (EVs) available.
- Improving the availability of servicing or charging infrastructure in areas where demand is not fully developed.
- Increasing demand for EVs.
- Developing innovative products or systems to take advantage of growing EV usage.

The fund's investment focus for the first funding round was demonstration projects that can be implemented relatively quickly.

These projects needed to result in:

- Lessons on how to overcome challenges to implementing new low emission vehicle technologies that can be used to replicate the same outcomes elsewhere.
- Investor and consumer confidence in the viability of these technologies in New Zealand.
- Opportunities to scale-up the demonstration model.
- Increased visibility of EVs and the associated technology and infrastructure.

PROJECTS CONDITIONALLY APPROVED FOR FUNDING:

1. Foodstuffs (NZ) Ltd **\$500,000**
Electric grocery delivery vans

Foodstuffs NZ will use 28 100% electric delivery vans at a range of Four Square, New World and PAK'nSAVE stores throughout New Zealand and install public charging stations at some of the supermarkets where these vans are based. This will be a highly visible and influential demonstration of a fully electric zero emission van for delivery services.

2. Auckland Transport **\$75,000**
Smart Pole electric vehicle charging in public spaces

Auckland Transport will replace two existing street poles with Smart Poles to demonstrate the potential of this scalable technology for repetitive deployment of public infrastructure to support EV charging, and other functions such as way-finding signage, push-to-talk emergency calling, WiFi, adaptive street lighting and other sensors.

3. Waste Management NZ Ltd **\$500,000**
Establishment of two electric truck conversion facilities

Waste Management is converting three trucks to 100% plug-in electric by EMOSS in the Netherlands. The first of these arrived in Auckland in December 2016 and will shortly commence

trials. The remaining two are expected to arrive in early 2017. Upon successful completion of these trials, this project will contribute funding towards the design and conversion of two further diesel trucks with different power demands and establish an electric truck conversion and service facility in Auckland. This facility will convert additional heavy vehicles from Waste Management's fleet and assist other New Zealand fleets with their designs, avoiding the high initial costs of freighting overseas. This project will develop heavy electric vehicle skills and jobs, which will in turn help facilitate uptake of EVs in New Zealand.

4. **Auckland Transport \$500,000**
Demonstration of an electric bus

Auckland Transport will receive co-funding for a 100% electric bus and associated charging infrastructure to be used by Auckland bus operators in regular operation over a range of routes to gather data and enable assessments as to the best operating environment for electric buses on New Zealand roads. This information will be shared with other public transport funders and providers to build awareness and understanding of the potential of electric buses.

5. **Tranzit Group Ltd \$369,250**
Demonstration of an electric bus (in association with Auckland University of Technology)

Tranzit Group will demonstrate the use of a 100% electric bus and associated charging infrastructure to assess the feasibility of operating an electric bus fleet in a New Zealand urban environment. The electric bus will be used on services under contract with AUT - between University campuses on the North Shore, Central City and South Auckland.

6. **Mevo Ltd \$500,000**
Demonstration of 50 electric vehicle car share scheme

The Mevo project will demonstrate a car sharing fleet of 50 high quality plug-in hybrid electric vehicles (PHEVs) in Wellington's CBD. This includes the installation of 64 kerbside charging stations, throughout the CBD. Regular users are expected to be local businesses including Victoria University Wellington, Meridian Energy and Biz Dojo, and local residents. A quarter of the kerbside charging stations will be available for public EV charging.

7. **Z Energy Ltd \$42,260**
Demonstration and promotion of electric car sharing (in association with Mevo Ltd)

Z Energy will encourage its customers to experience driving an electric vehicle via the Mevo car sharing service. Z will lease and host MEVO electric vehicles at two centrally located Z sites in Wellington, making the technology visible and accessible to a broad range of customers. Promotions will encourage visitors to these Z sites to obtain and use a single-use code for a free temporary registration with Mevo and one hour use of any Mevo car at a discounted rate.

8. **Green Cabs Ltd \$223,722**

Introduction of electric vehicles into the taxi fleet to prove commercial viability

Green Cabs led the way on the use of (non-plug-in) hybrid cars as taxis; this project will pilot the use of a range of electric vehicles in their commercial taxi fleet. The project will help to normalise and demystify EVs through high visibility and ride experience.

9. Auckland Transport **\$207,050**

Establishment of priority parking and 60 charging stations for electric vehicles at park and ride facilities in Auckland

Auckland Transport will raise the profile of electric vehicles in Auckland by giving EVs priority parking and installing 60 charging stations at Auckland Transport public parking and park and ride sites across the region. This project will use strategically located sites to maximize the visibility of priority EV parking and use of charging infrastructure to the public, and will gather data for assessment of future investment opportunities.

10. Thames-Coromandel District Council **\$175,000**

Three fast charging stations for electric vehicles on the Coromandel Scenic Touring Route

This project will establish a network of three fast charging stations around the Coromandel Peninsula in order to promote the region to the domestic and tourist EV-driving market. The fast chargers will be located at Tairua, Whitianga and Coromandel Town, which are not on any current plans for EV charging infrastructure rollout. The provision of a strategically positioned network of fast chargers will promote the use of New Zealand's abundant renewable electricity supply to tourists, and stimulate the popularity of electric vehicles.

11. Unison Networks Ltd **\$119,000**

Two fast charging stations for electric vehicles to create the Electric Thermal Explorer Highway between Taupo and Napier

Unison Networks will install two fast chargers on the 'Thermal Explorer Highway' route between Taupo and Napier. As well as being a popular tourism route, this highway is also the primary transport link between the Central North Island and Hawke's Bay region. This project is expected to remove a barrier to EV uptake in the Central North Island and promote the use of New Zealand's abundant renewable electricity to the tourist market.

12. The Warehouse **\$98,800**

Installation of charging stations at 20 Warehouse stores

The Warehouse will install, and provide free for six months, electric vehicle charging stations at 20 stores in areas that are underserved for EV charging. This project, and the promotion of it by the Warehouse, will make EV charging infrastructure highly visible to large numbers of shoppers.

13. Hutt City Council **\$6,500**

Public EV charging station in a large carpark/parking building

Hutt City Council will promote the installation of electric vehicle charging infrastructure in commercial carparks by running a competitive tender for an EV charger in a large car park. It is hoped that this process will lead carpark owners to conclude that installing EV charging infrastructure should be a business as usual practice.

14. Counties Power Limited **\$50,000**

Fast charging station in Pukekohe

Counties Power will install a public fast charging station in Pukekohe, which does not currently have fast charging infrastructure. This will enable increased use of electric vehicles by local businesses and is also expected to be used by EV owners travelling to Pukekohe to watch race events.

15. PowerNet Limited **\$20,000**

Encouraging EV uptake in Southland business fleets

PowerNet will engage with, encourage and facilitate Southland businesses (initially targeting 10 businesses) to incorporate one or more electric vehicles (EVs or PHEVs) into their fleet mix. The vehicles will be highly visible to the public. PowerNet will also supply and install charging infrastructure at an agreed business location.