

# LETF Round 13 project summary

Round 13 of the LETF launched on 1 March 2024 for Demonstration of Vehicles, Technology & Off-Road. The round closed on 2 April 2024.

EECA has approved 11 projects that would allocate **co-funding of \$3,265,195**.

## 1. **Red Phase Technologies Limited/Kwetta \$500,000**

### Technology

Red Phase Technologies will deploy large-scale bus depot charging systems for EV bus fleets. This project will showcase our cutting-edge technology, enabling seamless grid interface and scalable hardware for future large, electrified fleets. The relocatable hardware can be optimised for use at various sites. Using software-driven kW precision power management, the system delivers efficient and reliable charging at a megawatt scale if required. For bus fleets, the focus is on optimising instantaneous charge rate to minimize grid load at critical times while ensuring busses are fully charged and ready to go when required.

## 2. **CentrePort Limited \$500,000**

### Vehicle

CentrePort is committed to achieving Net Zero Emissions by 2040, with an initial target of 50% reduction by 2030. A core component of CentrePort's emissions is on our container operating plant, with an initial focus on procuring two electric Empty Container Handlers (ECH) and associated on-port charging infrastructure. These will integrate with existing and future operational systems and infrastructure.

## 3. **Hikotron Limited \$178,620**

### Technology

Hikotron Limited will work with Wells Energy Innovation, to deploy a 'Buffered' DC Rapid EV Charger. This charger uses battery storage and uses a proprietary DC method of delivering charge to EVs, offering significant cost savings. It also enables fast charging in remote areas with limited electricity, can even connect to solar power where available and can offer fast charging at peak times without impacting the grid

## 4. **Beech Orchard Limited \$26,900**

### Off-road

Bird Wood Orchard will demonstrate an e-Tuatara in their kiwifruit orchard to trial and explore new and innovative ways to reduce their carbon footprint.

## 5. **Reliance Transport Limited \$248,284**

### Vehicle

Reliance Transport Limited will commission a battery electric Mobicon (2 High) container handler for warehouse operations.

## 6. **Port of Auckland Limited \$500,000**

### Vehicle

Port of Auckland will procure an electric Empty Container Handler (ECH) along with charger and set up the required infrastructure. This project will help with understanding and evaluating the operations of these electric machines in a port context. Port of Auckland expect to use this project to inform future electric cargo handling equipment purchases.

## 7. **WEL Networks Limited \$311,753**

### Technology

The Recipient will design, procure, and install a BESS supported public EV charging station. This will remove the requirement for a costly and time-consuming transformer upgrade. This BESS will reduce lines fees and could earn revenue through trading in energy markets.

## 8. **Optimal Fleet Solutions Limited \$202,000**

### Software

Optimal Fleet Solutions Limited will develop Scope 3 emissions modelling and reporting portal resulting from transport upstream and downstream supply chain activity. The model will be designed to consume real-time data from global SIM cards, fuel spend data from operators, and

telemetry GPS data.

9. **ProTransport Limited \$343,500**

Technology

ProTransport will take an existing trailer with four brake-only axles and fit in two DynaDrive electric axles, a 420Kwh battery pack, software and controls in the truck which then becomes a drive/brake-assist system integrated with the trucks' own computers.

10. **CB Civil and Drainage Limited \$391,638**

Off-road

CB Civil & Drainage Limited will develop an innovative smart asset solution to monitor, manage and optimise the performance and lifecycle of physical assets.

The software will generate data driven insights on emissions, operating costs, maintenance, and productivities across a 12-month field trial of electric excavators (2t and 24t) against their diesel alternatives.

Lessons learned will be shared as an industry case study to promote the commercial viability of plant decarbonisation and demonstrate how technology can support a best practice approach to asset decision making.

11. **Kenai Limited \$62,500**

Off-road

Kenai Limited will demonstrate a 2t JCB electric digger while transforming the land around Mokoia Pā into a public park.