

## Special Report to claim 100% available funding from Milestone 6

# Milestone description

#### Trial and evaluation of the imported 2018 model electric campervan:

- Van user trials
- User and technical evaluations
- Insights into mix of users
- Revision of itineraries and promotional material
- Learnings for parallel new van design
- Business systems processes for campervan operation initiated

#### Deliverable

A report that contains, as a minimum, the following contents:

- Descriptions of user campervan trials undertaken
- Summary of results of user and technical evaluations
- Learnings to be applied to the parallel conversion of the electric van chassis
- Any changes to promotional material and itineraries implemented, and
- Any other information that you believe EECA should be aware of.

## Funding Claim

**Progress of Funding:** \$0 out of \$20,000. Claiming \$20k this period. As per discussion 50ct, funding to be release upon receipt of this report.

## Tasks delivered

## Description s of user campervan trials undertaken

- On-going user trials are in place with *thl* crew booking the Nissan eNV200 van to gather an understanding of the electric experience in charging and travel by trialing our electric itineraries around the North Island Coastal Loop.
- Robust testing was undertaken in September to fully iterate improvements to the website, itineraries and gather learnings for next motorhome build

## Summary of results of user and technical evaluations

- Many lines of testing have either been completed and/or are underway:
  - o crew testing of the Nissan eNV200 to gather insights to the electric experience
  - high-level user testing of the eLDV for usability and customer experience in driving the electric motorhome prototype to iterate learnings for the final build
  - o thorough testing of the electric itineraries represented on www.BritzEV.com
  - booking process testing ahead of rental bookings opening up at the end of the month, and
  - o preparation for robust vehicle performance testing ahead of final build.
- <u>See evidence as follows: insights to the electric experience with ongoing crew testing of the</u> electric experience with outputs, themes, learning captured as per example following

Booking	Crew Member	( Range	Charging	Vehicle	Itinerary	Planning
Booking 15-18Aug	Crew Member  Tom Norman	Range was fine around coromandel but then when we charged at thames and had to return to auckland we knew we couldnt make it and just made if to a charge point in putskoe with 4% and the km gauge flashing!	Our biggest issue was getting from auckland to Thames (the first quick charge) we arrived with 6% battery after leaving with 100%. It was such a nervous drive that it made us nervous for the rest of our trip!  We had a great time once we got to coromandel in tiny! The charging points around coromandel work great and everyone at the holiday parks were super helpful and excited about tiny's journey!	Some of the best things about tiny was the super easy set up and comfort of the sleeping area, the ease of being able to ankin pretty much any pilce instead of being able to ankin pretty much any pilce instead of being restricted to van spaces. It was a great drive overall and space saving rests were great. However a couple of things we struggled with:  -not being able to use the heaters/alircon due to the massive reduction of range and power (even when we reduct to de-mist the windscreen to we could see, we opted for manual wiping rather than heaters/-no-fars/alir vent to help reduce condensation overnight  the features like heated seats and steering wheels seem completely under incessary. I would imagine they	.Departing Auckland with full charge (130km of range) -stoped in Takanini with about 70km of range left so fast charged to 80% (100km range) -stoped in Takanini with about 70km of range leftanother fast charge back up to 80% and set off tp the campsite at Shelly Beach -Arriving at shelly beach campsite with with about 30% of charge (25km range) left -pluged in to the campsite for a full charge overnight -The following day we set off full of charge to Whangappoua and then made it to Whitlanga with a much welcomed 50% left -Aquick fast charge back up to 80% then on to Hot water beach, later arriving at the campsite with plenty of charge but plugged in for a full charge overnight -Whet day left for Whangaratu arriving with 45% charge and fast charge back up to 80% -Next day left for Whangaratu arriving with 60% and with another fast charge went to	Thanks for the opportuni a great experience it wou seehow tiny could work not hisland trip! Maybe % some more charge points
				are super heavy as well which doesn't help the range!!  We love the idea and ease of tiny but think it would do so much better with some less weight and it	-then setting off to Walhi arriving with 60% and with another fast charge went to Karenghake Gorge and then back to Walhi campsite and a full charge overnight -final day we left Walhi for Theams -Arriving with about 30-40km of range left and then fast charged and then leaving with 103km of range	help!
				If left the same at the moment I think it might mean very stressed customers/negative feedback due to people being too worried or getting stuck and having to call out recovery	Leaving Theams for Pukeise which was nervous as hell due to us being affraid to exceed 75kmh on a bury highway -later crawling into Dukekoe with 44 K.charge we managed to fast charge which we managed to get back to Mangere branch with 30% charge left	

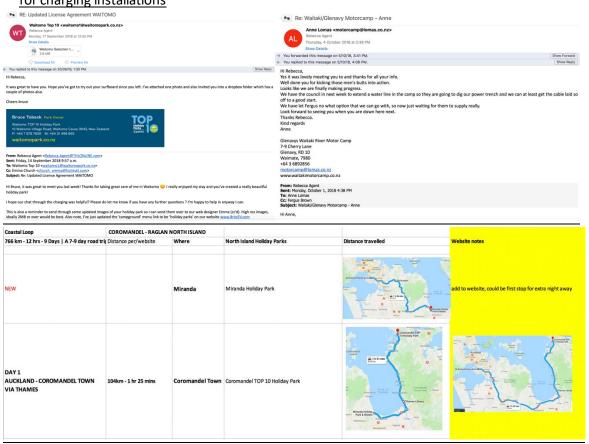
• See evidence as follows: insights to usability and customer experience in driving the electric motorhome prototype achieved with the testing of the LDV. This provided excellent insights



for the customer experience, helped us to test the act of charging specific to this vehicle, and allows us to analyse what cable requirement will be best for the motorhome configuration



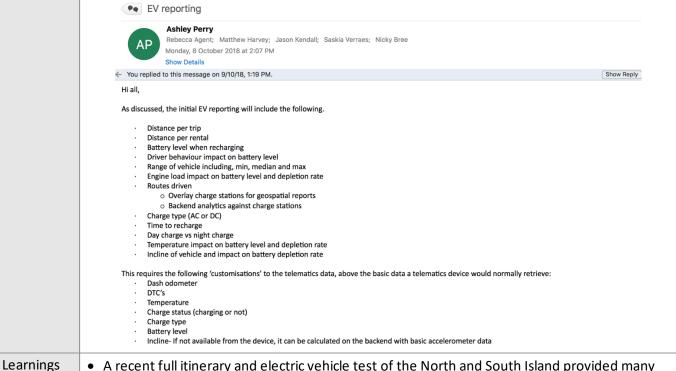
See evidence as follows: thorough testing of the electric itineraries was completed in
 September with Rebecca traveling both the North and South Island routes represented on
 www.BritzEV.com providing extensive edits to the information represented (see "Any changes
 to promotional material and itineraries implemented below") and gave thl an opportunity to
 meet with holiday park owners face to face to walk through the project and review locations
 for charging installations



 See evidence as follows: Further testing is scheduled to test booking process testing ahead of rental bookings opening up at the end of the month, with preparation underway for robust vehicle performance testing ahead of final build, example list of test requirements generated from final reporting outputs expected







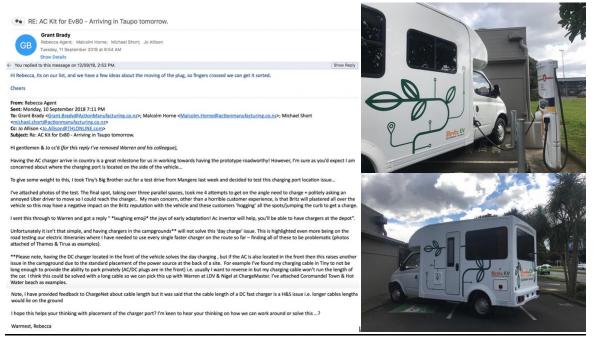
to be applied to the parallel conversion of the electric van chassis

- A recent full itinerary and electric vehicle test of the North and South Island provided many essential insights to customer experience particularly around the act of charging. Learning such as a.) are the itineraries practical and representing fair and true information, b.) are the itinerary distances between destinations do-able, c.) are the charging facilities going to be practical for use with the eLDV, d.)
- See evidence as follows: see below itinerary edits specifically for distance traveled. The learning from test was that the kms traveled on this particular day may not be practical between Waihi – Matamata – Cambridge with the outlined stop off at Hobbiton. On enquiry of an assumed trickle charging point at Hobbiton, it was uncovered: "Thank you for your message. Unfortunately, we do not have charging stations on site. I'd recommend having a full charge when starting your day". Subsequently this stop has been removed & investigations continue if this routing can be achieved upon next phase testing the eLDV prototype in the next month





• See evidence as follows: Example testing of the act of charging at with DC fast chargers and anticipated AC charging at holiday parks. Learnings & feedback has been provided to manufacturing regarding charging port placement on the vehicle and cable requirements for the vehicle. Successful outcomes are a move of the location of the DC charging port, along with the refinement of the cabling types that the manufacturer will supply with the vehicle.



## ChargeNet DC charging learnings



## Coromandel Town Holiday Park Learnings





9(2)(a)



Hot water Beach Top 10 learnings



9(2)(a)

Any changes to promotion al material and itineraries implement ed

- Extensive updates to the <a href="www.BritzEV.com">www.BritzEV.com</a> website (itineraries, vehicle info, bookings processes) have occurred as a result of vehicle trials and itinerary testing. Everything from overall look and feel, branding, voice, usability, mapping and content has been uplifted and updated
- See evidence as follows: see below example edits of Day 1 of the North Island Itinerary, along with updates to the general 'The EV; page that follow

