

**Chairperson and Community Board Members**  
WAIKANAE COMMUNITY BOARD

2 OCTOBER 2018

Meeting Status: **Public**

Purpose of Report: For Decision

## **ELECTRIC VEHICLE CHARGERS AND PARKING**

### **PURPOSE OF REPORT**

- 1 This report seeks the Waikanae Community Board's endorsement for the installation of an Electric Vehicle Fast Charger (50 kW DC) at Waikanae.
- 2 To promote the use of the Electric Vehicle Fast Charger the report also seeks endorsement for changes to current parking designations to 'Electric Vehicle Only' parking with a time restriction of P60.

### **DELEGATION**

- 3 The Waikanae Community Board has the delegated authority to consider this matter under Part D of the Governance Structure and Delegations:

*"Authority to approve or reject officer recommendations relating to **traffic control and signage matters** for existing local roads, except those matters that involve significant safety issues. Community Boards will be consulted about these matters but final delegation will rest with Council officers."*

### **BACKGROUND**

- 4 On January 31<sup>st</sup> 2017, the Waikanae Community Board approved the implementation of an EV-only and P120 parking restriction (including the installation of associated signage and ground marking) on the carpark next to a proposed EV charging point on Tutere Street as part of the 'Spark Plug' partnership. (report SP-17-097). The 'Spark Plug' partnership has since proved unfeasible and has been replaced by the trans-regional 'Horowhenua and Kāpiti Electric Roads' project.
- 5 The 'Horowhenua and Kāpiti Electric Roads' project is a partnership between Electra, ChargeNet, Horowhenua Council and Kāpiti Coast District Council, with funding from the Energy Efficiency Conservation Authority's (EECA) Low Emission Vehicle Contestable Fund (LEVCF) to install nine EV Fast Chargers in five strategic locations in Kāpiti and Horowhenua.
- 6 The project aims to support a transition to low emission transport options by strengthening the nationwide recharging network and encouraging the uptake of Electric Vehicles (EVs) within Horowhenua and Kāpiti districts. It supports business, private drivers and passengers of EV's to easily reach destinations in Horowhenua and Kāpiti. (see Appendix 1 for more details of this project and partnership).

- 7 Five fast chargers are to be installed in communities around Kāpiti, the proposed sites are:
- Paekākāriki
  - Raumati Beach
  - Paraparaumu Coastlands (x2)
  - Waikanae or Waikanae Beach

## ISSUES AND OPTIONS

### Issues

#### ***Waikanae Beach EV Fast Charger***

- 8 A 50kW DC Fast Tritium Veefil EV Charger is substantially faster and easier to use than the previous planned 'Spark Plug' charger. It offers conveniently short charging times - an 80% battery charge can be achieved in 20-60mins depending on the make and model of electric vehicle. The 50kW DC model does not require EV drivers to supply their own charging cord.
- 9 The site for a fast charger requires an adequate power supply, lighting and perpendicular parks to be safely accessible to all EV's (some vehicle models have the charger at the back of the car and need to reverse into the park). A location that is close to local businesses and amenities benefits both EV drivers and local businesses.
- 10 A P60 'EV only' parking restriction is recommended to enable optimum use of the charger. Two designated P60 'EV only' parks are recommended so that when the charger is in use another EV driver can 'queue' to use it.
- 11 Two sites have been assessed as suitable locations to install an EV charger – Tutere St in Waikanae Beach and the Waikanae Park and Ride in Waikanae.
- 12 Waikanae residents and EV drivers have been surveyed to offer their feedback on these two sites. On 19<sup>th</sup> Sept the survey results showed:
- 56% preferred the Tutere St site
  - 44% preferred the Waikanae Park and Ride.
- 13 The project is due to be completed by April 2019, see Appendix 1 for more timeline detail.

### Options

- 14 This report proposes two options for an EV charger site in Waikanae.

#### Option 1

##### **Tutere St, Waikanae Beach**

- 15 For an EV fast charger the parking layout needs to be changed from an angle park to a perpendicular (or right angle) one to support the infrastructure requirements of the Charger. This will result in the reduction of one car park from the current carparks available.

- 16 Recommended parking restrictions for this option is 'P60', 'EV only' for one or two parks (the second park enables drivers to queue for the charger).
- Survey results: 56% of responses prefer this site
  - Feedback on the survey noted a preference for this site because it is closer to the highway and referred to as a nice place to visit especially with its cafes and playground - 'the beach has more of a "have a stroll and grab a coffee feel"'.
- 17 This is the preferred option as it supports the survey results undertaken by Waikanae residents in September.

## Option 2

### Waikanae Park and Ride

- 18 This site at Waikanae Park and Ride already has an EV charging station but it is not a fast charger. EV only parking is already in place and no changes to parking layout or parking restrictions are required.
- Survey results: 44% of responses prefer this site.
  - Feedback on the survey noted a preference because the parks existed already, being near a supermarket appealed and that Waikanae businesses could benefit from the exposure. Other comments indicated concerns the parks would be used by non EV drivers and that it was too far away from the highway.

## CONSIDERATIONS

### Legal considerations

- 19 The Council's legal Counsel have confirmed that there are no legal considerations.
- 20 The signage and road-marking used are in accordance with New Zealand Transport Agency (NZTA) guidelines. NZTA have gazetted standard symbols for EV charging and parking and these will be used.

### Financial considerations

- 21 The 50kW DC charger infrastructure, installation, subsequent signage and road marking costs are covered by the 'Horowhenua and Kāpiti Electric Roads' partnership.
- 22 The Council's \$40,000 contribution to the 'Horowhenua and Kāpiti Electric Roads' partnership has been allocated from Strategy and Planning. There are sufficient funds to support this initiative within the Environmental Sustainability budget.

### Tāngata whenua considerations

- 23 There are no known issues relating to iwi or the Treaty of Waitangi.

## SIGNIFICANCE AND ENGAGEMENT

### Consultation already undertaken

- 24 An email informing Council's intention to submit a proposal to the EECA Low Emission Vehicle Contestable Fund was sent to all Community Board members on March 19th 2018.
- 25 An initial announcement of successful Low Emission Vehicle Funding (LEVF) applications was announced by EECA on August 7th. Following this announcement, a notice was put out in the Elected Members Bulletin available to community board members.
- 26 A presentation about the project and options for sites was given to the Waikanae Community Board on August 11<sup>th</sup>. A subsequent survey was developed to ask the public which site they preferred.
- 27 Waikanae residents were surveyed from Sept 12 – 20<sup>th</sup>.
- 28 Once the chargers are in place further publicity will occur through the Council's media channels to promote their placement and uptake.

## RECOMMENDATIONS

- 29 That the Waikanae Community Board endorses the installation of an Electric charger in Waikanae and:
  - 29.1 Agrees to recommend to Council that Tutere Street, Waikanae Beach location is the preferred site for the EV Charger installation.
  - 29.2 Recommends to Council to change the parking designation of one carpark to P60 'EV only' parks, to promote use of the Charging station.

<b>Report prepared by</b>	<b>Approved for submission</b>	<b>Approved for submission</b>
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<b>Sustainable Communities Coordinator</b>	<b>Acting Group Manager Strategy and Planning</b>	<b>Group Manager Infrastructure Services</b>

## ATTACHMENTS

- Appendix 1: 'Horowhenua and Kāpiti Electric Roads' cost and timeline
- Appendix 2 (a): proposed sites for EV parks
- Appendix 2 (b): signage and charger visualisation
- Appendix 3: Survey results

Appendix 1 (a) *Horowhenua and Kāpiti Electric Roads project*

The total value of this project is \$545,000; this includes a \$40,000 contribution by the Kāpiti Coast District Council, the table below outlines funding contributions from organisations and co-funding from EECA.

Organisation	Contribution	Overall percentage
Electra (Project Lead)	\$80,000	14.7%
Kāpiti Coast District Council	\$40,000	7.3%
Horowhenua District Council	\$40,000	7.3%
ChargeNet NZ	\$130,000	25.7%
<b>SUBTOTAL</b>	<b>\$300,000</b>	<b>55.0%</b>
EECA Co-funding	\$245,000	45.0%
<b>GRAND TOTAL</b>	<b>\$545,000</b>	<b>100.0%</b>

**Timeline****First 90 days (August – October 2018)**

- a. locations selected, and formal community consultation
- b. electricity connections requested
- c. EV Charger Units ordered
- d. branding of units arranged
- e. detailed site plans drawn up

**Following 90 days (November 2018 – January 2019)**

- a. electricity connections arranged
- b. charging units and associated gear delivered on site and installed (civil works and electrical works)
- c. electrical testing, inspection, and livened
- d. location added to Charge Net NZ billing network and public maps

**Subsequent 90 days (February – April 2019)**

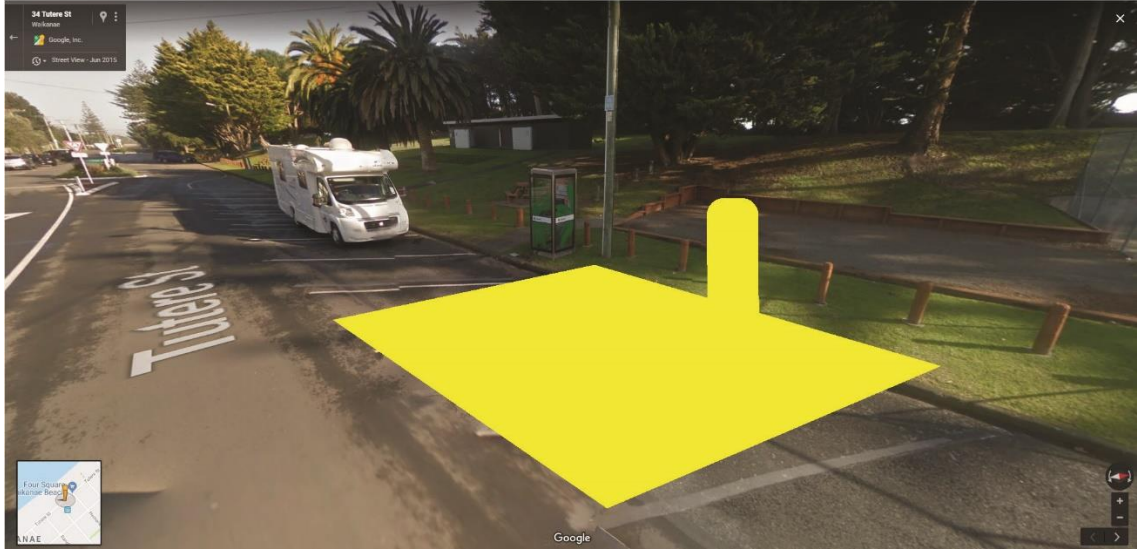
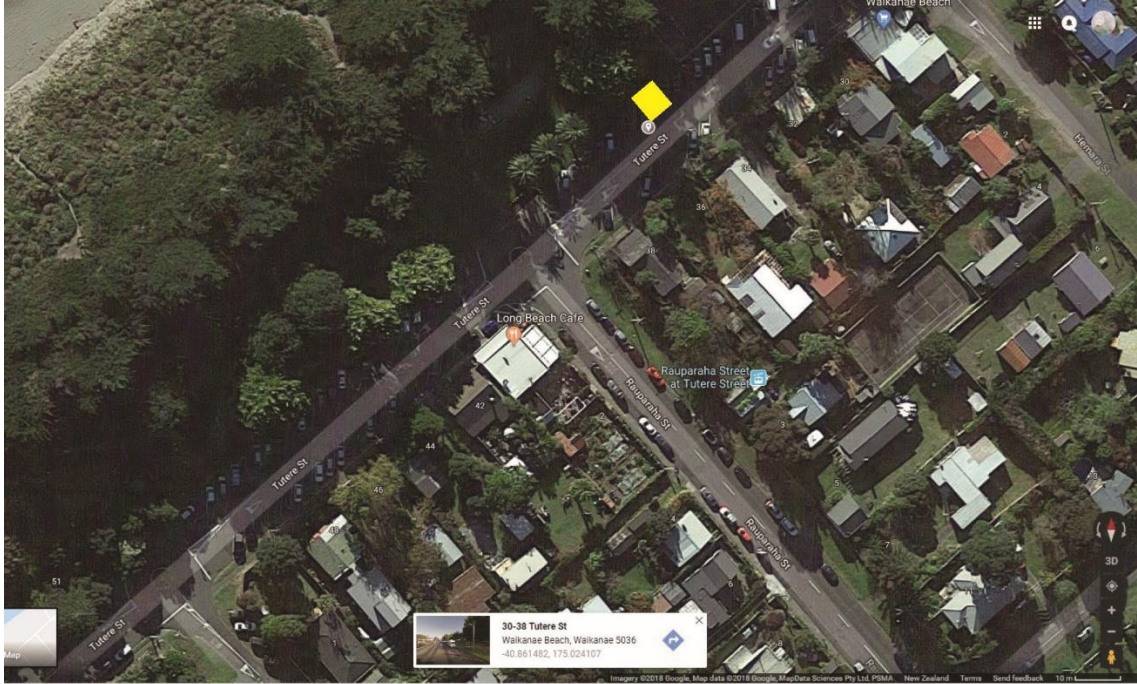
- a. promotion and public launch of sites (Facebook and local newspaper media release)
- b. contingency for installation in case of unforeseen delays

**Further information:**

<https://www.kapiticoast.govt.nz/Our-District/on-to-it/sustainable-communities/the-future-just-got-more-electric/>

Appendix 2 (a): **Proposed sites:**

Tutere St, Waikanae Beach

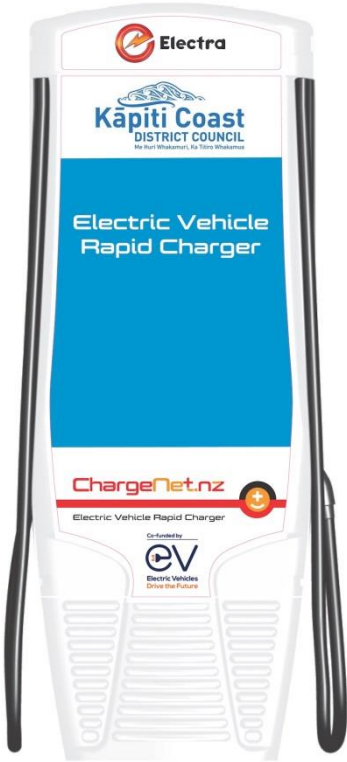


Waikanae Park and Ride



Appendix 2(b)

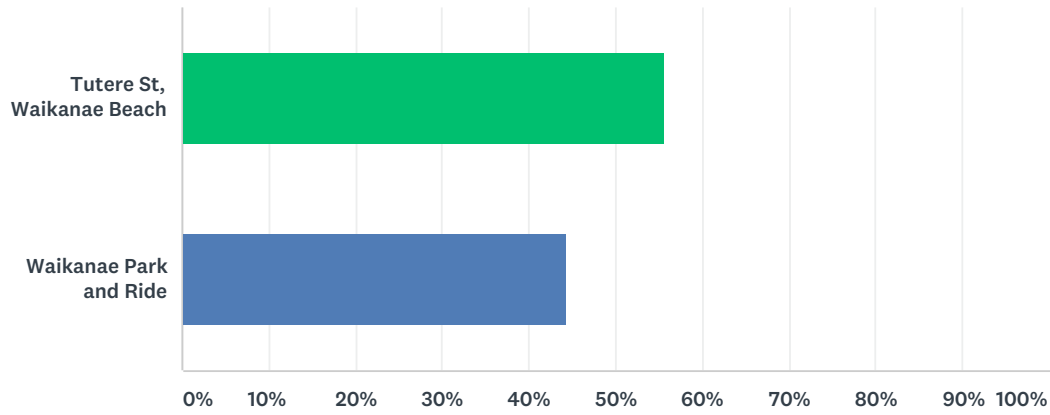
Signage and charger





## Q1 Potential sites for EV chargers

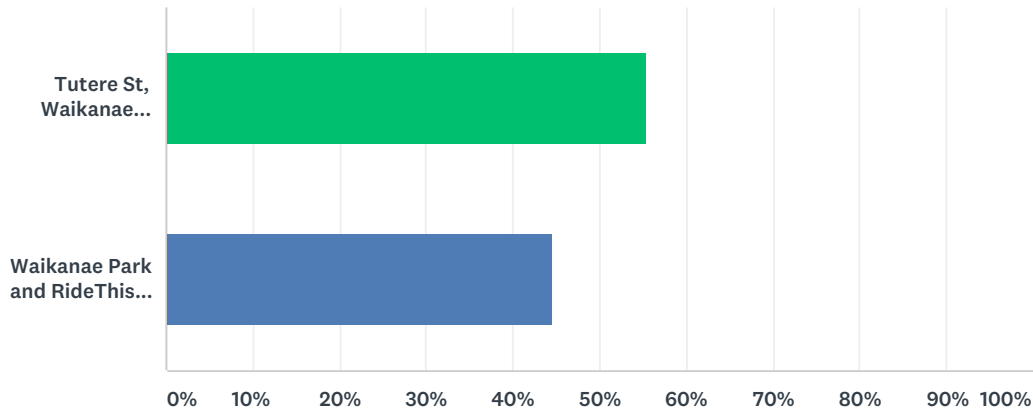
Answered: 36 Skipped: 29



ANSWER CHOICES	RESPONSES	
Tutere St, Waikanae Beach	55.56%	20
Waikanae Park and Ride	44.44%	16
TOTAL		36

## Q2 Where would you prefer to see an EV fast charger installed?

Answered: 65 Skipped: 0



ANSWER CHOICES	RESPONSES
Tutere St, Waikanae Beach For this type of charger the parking layout needs to be changed from an angle park to a perpendicular (or right angle) one – this will result in the reduction of one park. Suggested parking restrictions: 'P60', 'EV only' for one or two parks (the second park enables drivers to queue for the charger).	55.38% 36
Waikanae Park and Ride This site is being suggested because it already has three EV only parks. No changes to parking layout or parking restrictions are required.	44.62% 29
<b>TOTAL</b>	<b>65</b>

#	ANY COMMENTS OR QUESTIONS?	DATE
1	Needs to be a cafe or somewhere to wait nearby. A beach walk is a good option too while the car charges.	9/20/2018 6:33 AM
2	Waikanae New World...	9/20/2018 2:41 AM
3	I think the first option is the Park and Ride, but as they have 3 already, I will vote for Tutere Street	9/19/2018 8:41 AM
4	Easier for those heading north	9/17/2018 2:36 PM
5	close to the espressway is best esp as most people needing a chargeup, will be coming off the highway.	9/16/2018 10:36 AM
6	This is a no-brainer.	9/15/2018 12:19 PM
7	Can you put a slow charger in too please. Not everyone can fast charge!	9/15/2018 10:41 AM
8	Much closer to the expressway, plus the benefit of the nearby children's play area. Obviously there are cafes at both destinations.	9/15/2018 7:33 AM
9	Neither site is really a "passing through" site anymore now the hiway is in, but the beach local has more of a have a 20 min stroll and grab a coffee feel, I would make it only p30 mins not 60 (	9/14/2018 8:29 PM
10	Less likely to have ice cars parked in the EV charger space. Closer to express way. Nice cafe and beach to enjoy.	9/14/2018 8:17 PM
11	The primary users of fast chargers are people travelling. Tutere St is closer to the express way than the park n ride so more convenient for travellers. There are also two "watering holes" really close by where people can grab a coffee while charging. Park n Ride location is good for L2 (slower and longer charge times) but not for the fast charge. I realise that it is more work to locate at Tutere St, but it would be shortsighted to locate it at the park n ride just because the parks are already there. I absolutely agree with the P60 EV only designation for both parks.	9/14/2018 8:03 PM
12	Closer to express way. Park and ride ones always iced	9/14/2018 8:02 PM

## Electric Vehicle Charger site for Waikanae

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13	Tutere St is closer to expressway and a nice place to visit. Definitely need two parks positioned to allow charging from either.	9/14/2018 7:17 PM
14	Park and ride is too far removed from the main highway	9/14/2018 5:09 PM
15	As an EV user myself I know fast chargers are used by people on longer journeys, so many may access the Waikanae fast charger via the Expressway on route to somewhere else. The supermarketssand facilities in Waikanae could be more useful to travellers, and Waikanae shops could benefit from the business/exposure.	9/13/2018 3:53 PM

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