From: [redacted]
To:
Subject: M192318 FW: Electric vehicles in New Zealand
Date: Friday, 26 July 2019 3:33:23 PM
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Electric Vehicle Uptake in New Zealand and Automotive Industry Perspectives.pdf

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Tena koe e Sean
Thank you for your email of 24 July 2019 regarding electric vehicles.
As part of the development of the Clean Car standard and Clean car discount strategy, your email will be forwarded to the Ministry of Transport as a submission and provided to the Minister for her information.
Nga mihi

[redacted] **Hekeretari Matua | Office of Hon Julie Anne Genter | Associate Minister of Transport**
Level 6.C Bowen House | Parliament Buildings | Wellington | New Zealand

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From: Sean Squires [redacted]
Sent: Wednesday, 24 July 2019 7:01 AM
To: Hon Julie Anne Genter <JulieAnne.Genter@parliament.govt.nz>
Subject: Electric vehicles in New Zealand

Dear Minister,
It is great to see progress on access to electric vehicles for New Zealanders. I note recent incentives to own one, yesterday's news on the difficulties of extinguishing battery fires and also the EECA's report on increasing energy efficiency technology and devices to minimise the increase of renewable energy generation.
I wrote a thesis for my MBA with the University of Waikato in 2018 "Electric Vehicle Uptake in New Zealand and Automotive Industry Perspectives" which agreed with your decision that financial incentive is the best way to increase EV uptake. It also acknowledged the risk of battery fires due to thermal runaway.
My report noted examples of EV uptake from more mature markets and I wanted to pass on a couple of my observations as EV uptake increases.
I was involved in developing the Automotive Engineering EV qualifications in the early stages and while they could prepare New Zealand's Automotive Repair Industry for EVs in the workplace, at the time of writing, the Automotive Repair Industry itself was not particularly concerned about EV safety, servicing or repair training (due to EVs providing such a small percentage of their revenue). My concern is that the uptake in training may not mirror the uptake of EVs, increasing the risk of electrocution and fire.
Electrocution and fire risk are equally important for first responders, as the RNZ news report on battery fires suggests.
Of particular interest to me was the Norwegian governments EV scheme and the

unintended consequences of rapid EV uptake. These are reduced revenue from EVs having access to toll roads, free parking and increased congestion in bus lanes. The reduced revenue aspect is a government's finance consideration but when EVs affect the efficiency of public transport that may increase social divide, increase resentment toward EVs and their perceived wealthier owners and negatively affect uptake.

I have attached my report and if it can be of any help, feel free to use it.

I have experience in the automotive engineering and vocational education sectors, I am now involved in increasing bus EV numbers in Wellington and am happy to discuss EVs and training anytime.

Kind regards,

Sean

Sean Squires | **Southern Fleet Supervisor**

[redacted]

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