

## MINO-783 Estimated electric vehicle RUC revenue

31 May 2023

Provide an estimate of how much RUC revenue would have been raised at a non-discounted RUC rate for the currently exempt light electric vehicle fleet.

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### Waka Kotahi NZ Transport Agency's response:

- Waka Kotahi estimates that \$116 million in revenue would have been raised from the light electric vehicle fleet at the non-discounted RUC rate.

### Analysis used

- The \$116 million figure was estimated through the use of Te Manatū Waka Ministry of Transport's publicly available information on Vehicle Kilometres Travelled (VKT). This information outlines the passenger vehicle fleet in New Zealand travelled 43.35 billion kilometres in 2021 ([RD009 Vehicle kilometres travelled by light vehicles \(billion km\)](#)).
- As at 31 December 2021, the total light vehicle fleet in New Zealand was 4,277,757 vehicles.
- Using this data, it is estimated that, on average, a light vehicle travelled approximately 10,134 kms in 2021 (or 28 kms per day).
- Using the days since the first registration date of all active electric vehicles, Waka Kotahi calculated an estimated distance travelled for the active electric fleet.
- A non-discounted RUC value of \$76 dollars per 1,000 km travelled was applied to the estimated distance travelled (since 1 August 2012) of the electric fleet.

### Caveats on the information supplied

It is important to note the following caveats in relation to the total provided:

- Data was extracted from the Motor Vehicle Register (MVR) and is current as at 29 May 2023.
- Data can only be reported on vehicles that have ever been entered the Motor Vehicle Register (MVR). Imports for private use would not be recorded.
- Electric vehicle data is limited to all actively registered vehicles as at 11 May 2023 with the following attributes:
  - Vehicle Type is:
    - PASSENGER CAR/VAN
    - GOODS VAN/TRUCK/UTILITY
    - BUS
    - MOTOR CARAVAN
  - Motive Power is:
    - ELECTRIC
    - ELECTRIC [DIESEL EXTENDED]
    - ELECTRIC [PETROL EXTENDED]
    - PLUGIN DIESEL HYBRID
    - PLUGIN PETROL

- The light vehicle fleet data, used to calculate average distance travelled, is limited to registered vehicles as at 31 December 2021 with the following attributes:
  - Vehicle Type is:
    - PASSENGER CAR/VAN
    - GOODS VAN/TRUCK/UTILITY
    - BUS
    - MOTOR CARAVAN
  - Gross Vehicle Mass is  $\leq 3500\text{kg}$
- Registered - in relation to a vehicle, means registered under Part 17 of the Land Transport Act 1998, and consequently a vehicle will have plates issued to it.
- Active - the vehicle has not been deregistered and the registration has not lapsed.
- Lapsed - the vehicle has not had a valid vehicle licence for 12 months or more.
- The data includes vehicles that may or may not be currently licensed for road use.
- Licence - in relation to a vehicle, a vehicle has paid its current annual licensing fee to be allowed to travel on New Zealand roads. Commonly referred to as 'Rego'.
- Vehicle attributes are free text or user-selection. Mistakes may occur with these types of entries (e.g. mis-spellings, wrong selection type).
- The Road User Charges (Exemption Period for Light Electric RUC Vehicles) Order 2012 commenced on 1 August 2012.
- Waka Kotahi used the Te Manatū Waka estimated VKT for the full light fleet travel as a proxy. This will not identify any specific changes in EV driving behaviour versus that of the rest of the light vehicle fleet, if this has occurred.
- Te Manatū Waka are still developing a methodology to examine VKT in more detail (including singling out EVs).