



SMARTER
FLEET
SOLUTIONS

Making the Switch to an Electric (EV) Fleet

Supporting New Zealand's transition to a net-zero emissions economy by 2050





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Executive Summary

What is the purpose of this white paper?

This white paper explains the significance and potential of electric vehicles (EVs) in transitioning New Zealand fleets to a sustainable and low-carbon future.

It provides an overview of what electric vehicles are and their role in decarbonising our transportation systems and discusses the New Zealand Government's commitment to a net-zero emissions economy by 2050 and the public sector's pledge to transition all its vehicles to electric by 2025.

This paper also highlights the challenges and considerations involved with switching to EVs, stressing the need for understanding fleet operations and selecting cost-effective and sustainable assets. It introduces the Argus Tracking & Power Trip integration as a solution to simplify EV adoption, leveraging telematics data for a customised transition strategy. The case study provided features Kāinga Ora and demonstrates the benefits of utilising this integration when making the switch to electric.

Lastly, it emphasises the importance of embracing the EV revolution, with Power Trip offering innovative fleet management solutions for successful and sustainable fleet optimisation.

Introduction

As the world grapples with the urgent need to address climate change and reduce greenhouse gas emissions, the transition to electric vehicles has emerged as a crucial step towards achieving a sustainable and low-carbon future.

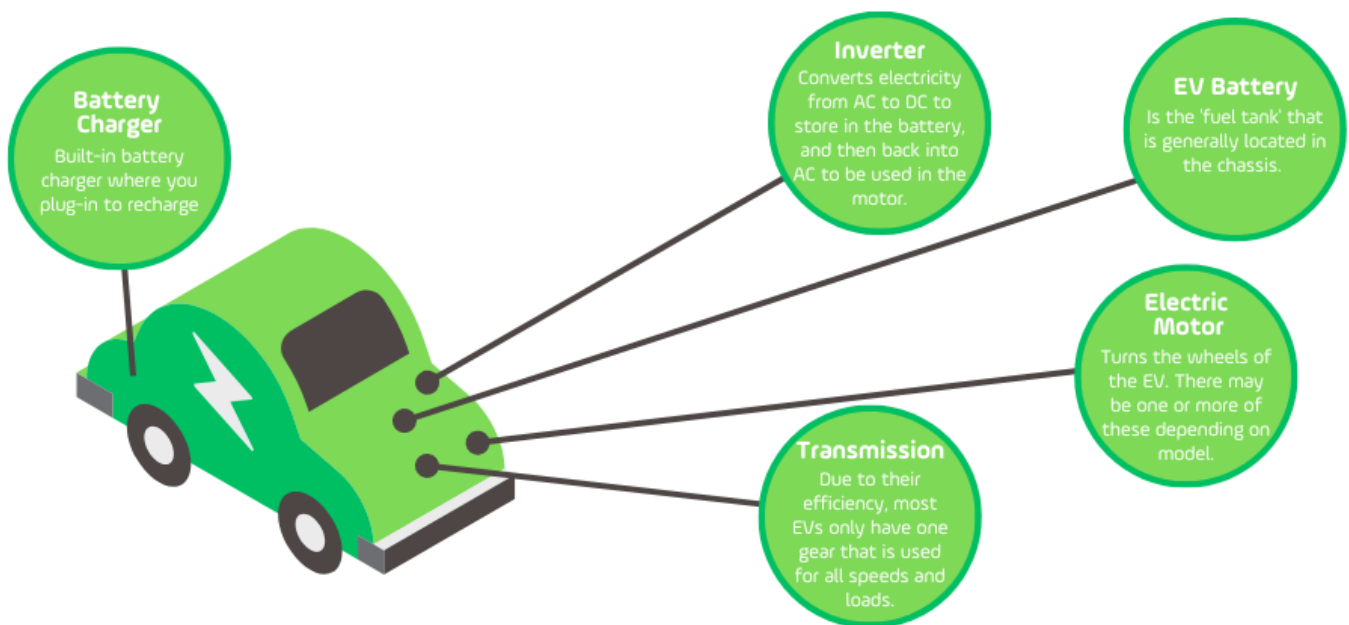
In New Zealand, this transition holds significant importance, with the government's commitment to a net-zero emissions economy by 2050 and the specific target of transitioning all public sector vehicles to electric by 2025. However, this transition goes beyond the public sector, as all fleets in New Zealand will be required to adopt electric vehicles by 2050.

This white paper aims to provide valuable insights and guidance to fleet managers and businesses in New Zealand as they navigate the transition to electric vehicles. It delves into the significance and potential of EVs in decarbonising transportation systems and explores the challenges and considerations involved with making the switch. By understanding the unique needs of fleet operations, selecting suitable EVs, and implementing effective strategies, businesses can ensure a successful and sustainable transition.



What are Electric Vehicles (EVs)?

Electric vehicles (EVs) are a generation of automobiles that revolutionise the way we think about transportation. Unlike traditional internal combustion engine (ICE) vehicles that rely on fossil fuels, EVs are powered by one or more electric motors. These motors draw their energy from rechargeable batteries, which store electricity for the vehicle's operation. By eliminating the need for gasoline or diesel, EVs offer a cleaner and more sustainable mode of transportation, reducing greenhouse gas emissions and dependence on fossil fuels. With advancements in battery technology, EVs are becoming increasingly popular as an eco-friendly and efficient alternative to conventional vehicles.





New Zealand's Transition to a Net-Zero Emissions Economy

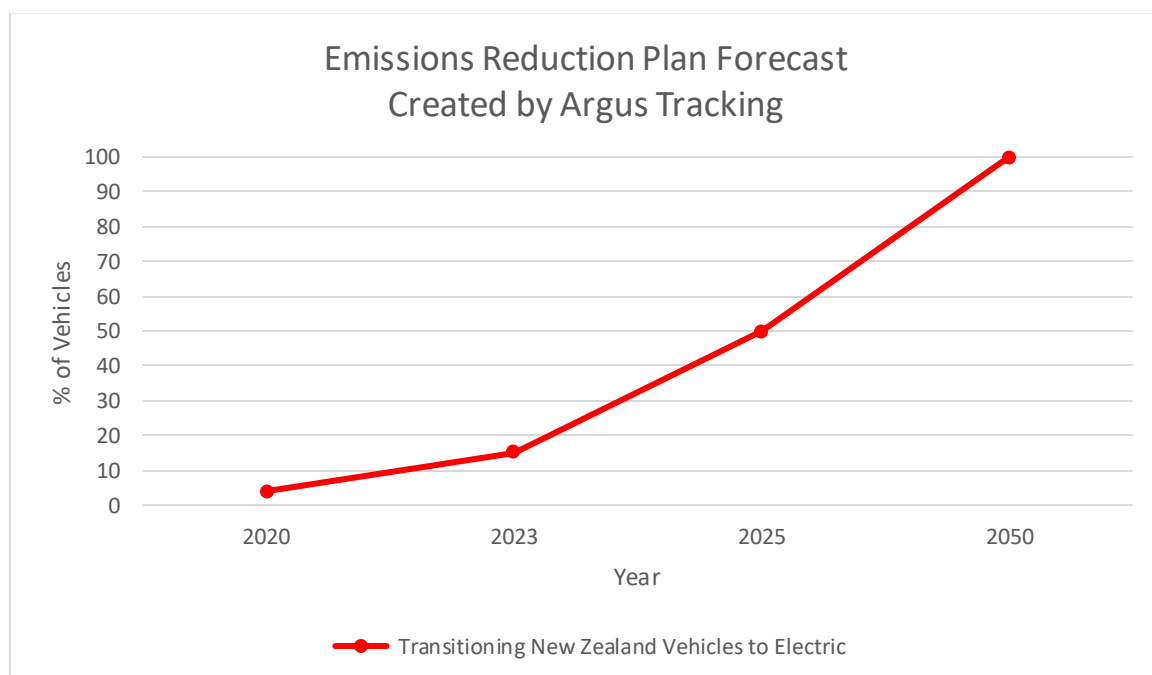
In May 2022, the New Zealand Government took a significant step towards addressing climate change by introducing an Emissions Reduction Plan. This comprehensive plan serves as a crucial roadmap for mitigating greenhouse gas emissions and sets a bold target of achieving net-zero emissions (excluding biogenic methane) by 2050.

By enacting this legislation, the government demonstrates its commitment to tackling the urgent global challenge of climate change while paving the way for a sustainable and resilient future.

How does this affect my fleet?

To help New Zealand achieve this goal, the public sector has pledged to transition all its vehicles to electric (becoming carbon neutral) by 2025. Fleet managers in the public sector may have already begun the significant transition process (or are close to implementing) for hundreds of vehicles.

If your business is not in the public sector, it's still important to remember this plan when purchasing or leasing company vehicles as your fleet will be required to transition to electric by 2050.





Empowering the Transition: Considerations for Switching to Electric

How to determine which EVs suit your fleet

Adopting EVs into your fleet is an excellent decision, offering both environmental benefits and the potential to lower operational expenses. Nevertheless, transitioning to electric can be a complex and time-intensive process that requires careful consideration of various factors.

"...think about the number of vehicles by location and type and whether you are talking about pool cars or tool-of-trade vehicles."

- Rob Halsall of Westpac NZ

It's important to understand your fleet's daily operations to ensure the selection of cost-effective and sustainable assets that align with your driver's needs and commonly travelled routes. By navigating this process thoughtfully, you can pave the way for a greener and more efficient fleet while reaping the rewards of reduced emissions and potential cost savings.

Questions to ask before making the switch to EV

What are the set up costs?	Where will they be charged & how will they be charged?	How is the vehicle utilised?
How does the driver charge the vehicle?	How will the charging be funded?	What are the running costs?
When is the vehicle not used?	Where is the nearest fast charge station?	Will the vehicle return to an office base or individuals homes?



Simplifying EV Adoption with Argus Tracking & Power Trip

In line with New Zealand's commitment to a net-zero emissions economy, the Government has introduced policies to accelerate the transition to low-emission vehicles. However, transitioning to EVs requires careful planning and research to ensure a successful fleet transformation – that's where the Argus Tracking & Power Trip Integration comes in.

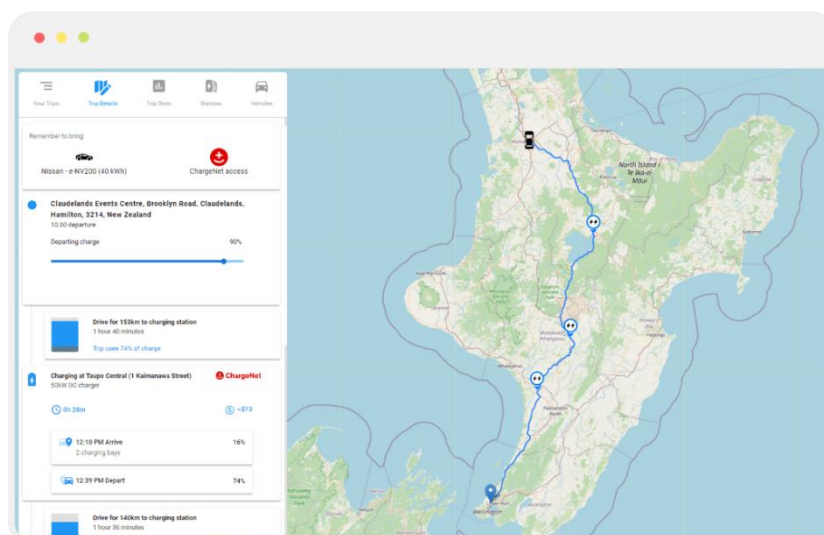


Partnering with Power Trip for EV success

At Argus Tracking, we are proud to collaborate with Power Trip and their innovative Game Plan solution, facilitating a seamless transition to EVs for businesses across New Zealand. Power Trip specialises in optimising, managing, and transitioning fleets to electrified low-emission alternatives, and their Game Plan solution is designed to simplify the process.

Harnessing telematics data for effective EV transition

By integrating Argus Tracking's telematics data, Power Trip's Game Plan can leverage crucial insights to create a customised EV transition strategy for your fleet. This revolutionary solution addresses key questions such as charging locations, vehicle utilisation patterns, nearest charging stations, office base or driver home charging options, and the most suitable EV model for your fleet's specific needs.





Unlock the benefits of EV adoption

The Argus Tracking & Power Trip integration offers New Zealand businesses and organisations a simplified path to EV adoption. By harnessing the power of telematics data and leveraging the expertise of Power Trip's Game Plan, you can confidently make informed decisions about charging infrastructure, vehicle selection, and fleet optimisation.

Join the EV revolution

As EVs gain prominence in the automotive industry, embracing this transition is crucial for businesses and organisations. By partnering with Argus Tracking and Power Trip, you can navigate the complexities of EV adoption with ease, unlocking the economic and environmental advantages of sustainable fleet management.

To learn more about how the Argus Tracking & Power Trip integration is streamlining the EV adoption process, explore the case study below. **Embrace the EV revolution and drive towards a greener future with confidence.**

The Kāinga Ora case study

To gain deeper insights into the integration of Argus Tracking & Power Trip, we invite you to read our compelling case study featuring Kāinga Ora. As a leading organisation in New Zealand, Kāinga Ora is in the process of successfully transitioning its fleet to EVs using the Game Plan solution.



Case Study: Argus teams up with Power Trip for Kāinga Ora's EV Fleet Transition

Argus Tracking is proud to be working in collaboration with Power Trip to assist Kāinga Ora in transitioning its vehicle fleet to electric.

As part of New Zealand's EV-first policy, the government aims to achieve a carbon-neutral public sector by 2025. With a fleet of over 900 vehicles, Kāinga Ora is at the forefront of implementing this policy by leveraging our telematics data with Power Trips Game Plan tool to address the challenges associated with such a large-scale transition.

The Issue

To kickstart the transition process, Kāinga Ora commissioned a fleet consultant to conduct an EV-readiness assessment in 2020. This assessment revealed that a combination of short and long-range electric vehicles (EVs) could fulfil many of Kāinga Ora's travel requirements. However, the COVID-19 lockdowns disrupted travel patterns, making it unclear where the EVs would be charged, the potential challenges drivers might encounter, and the public charging infrastructure they could rely on.

"Transitioning our substantial fleet was a nightmare. We had to manually assess each vehicle and driver one at a time" – Nick Marcusson, Fleet Manager.

Despite the adoption of the EV-first policy, Kāinga Ora needed to conduct detailed assessments for each vehicle and driver to determine the most suitable EVs and address their charging needs. There was a concern that drivers could easily opt for hybrid or internal combustion engine (ICE) vehicles by citing the unsuitability of EVs or lack of charging options.

The Solution: A Game-changing Integration

Argus Tracking's integration with Power Trip's Game Plan provided a solution for Kāinga Ora's fleet transition. Game Plan utilises historical driving data from Argus Tracking to demonstrate how different EV models can meet Kāinga Ora's travel requirements. It also generates charging strategies, considers the frequency of charging and reliance on public infrastructure, and identifies potential private charging locations at frequent stops. Looking ahead, Power Trip is working with Kāinga Ora to bring new innovations to Game Plan, aiming to reduce and rationalise the number of vehicles in the fleet. Furthermore, Kāinga Ora plans to increase staff engagement and education initiatives to demystify EVs and alleviate any anxieties related to their usage.

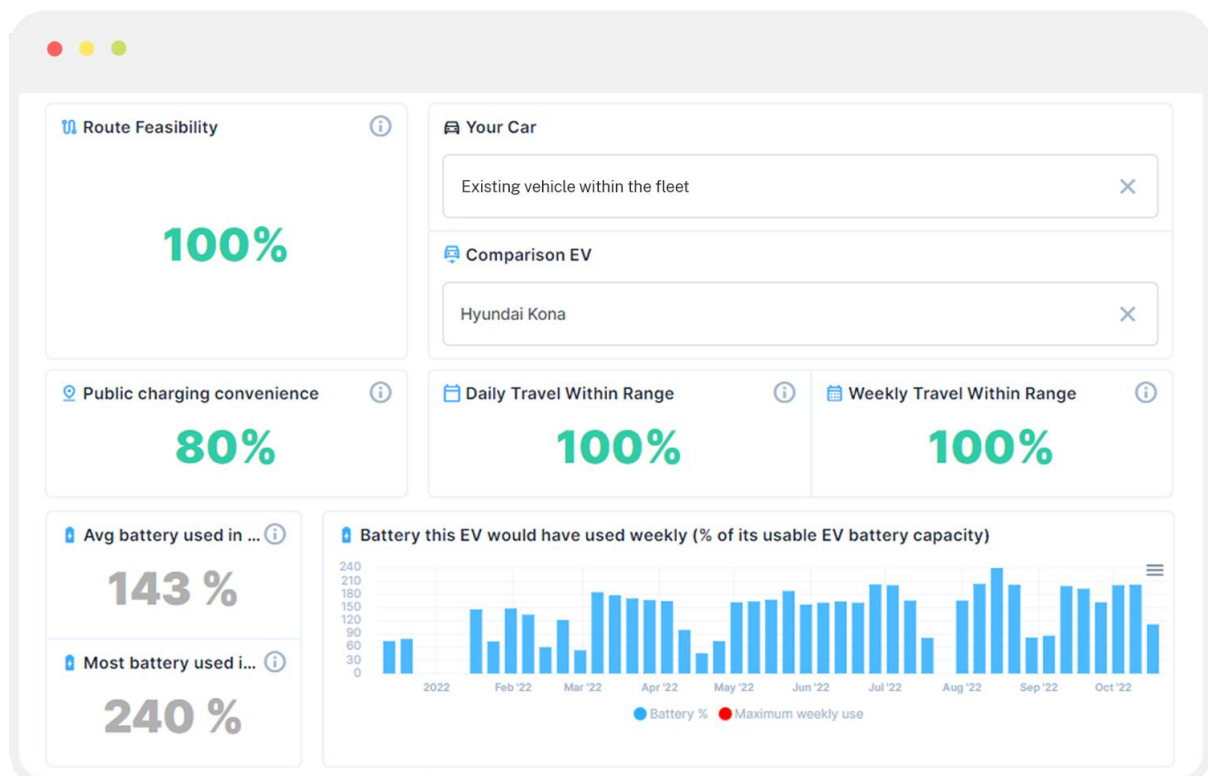


Power Trip

Power Trip is a leading provider of innovative solutions for fleet management and electric vehicle (EV) adoption. Their Game Plan solution offers comprehensive support to organisations like Kāinga Ora in transitioning their fleets to electric. With a focus on addressing the challenges associated with large-scale fleet electrification, Power Trip's Game Plan utilises advanced algorithms and telematics data analysis to determine suitable EV models, develop charging strategies, and provide valuable insights for fleet managers.

Power Trip's commitment to ongoing innovation and driver support ensures a seamless and efficient transition to EVs, empowering organisations to achieve their sustainability goals.

Want to learn more about being a Power Trip customer? Head to their website www.powertrip.earth or email info@powertrip.earth for more information.





Argus Tracking

Who are we and what do we do?

Argus Tracking helps you to keep an eye on everything in real time, wherever you and your drivers are. Our mission is to constantly improve the safety and efficiency of roading networks for our users and the general public by leveraging technology that maximises human focus.



REAL TIME
MONITORING &
ALERTING



FLEET
MANAGEMENT



DASHBOARDS,
REPORTS
BENCHMARKING



ROUTE, JOB
& ASSET
MANAGEMENT



INTEGRATIONS



SERVICE
& SUPPORT

Health & Safety – Visualise your risk

The ability to visualise your fleets Health & Safety risk is crucial. Businesses must be able to ensure their drivers and vehicles are safe and compliant.

Driver Behaviour Insights

Our Driver Behaviour Insights dashboard and scorecard applies virtual demerit points to each of your drivers for any negative driving behaviour, with additional points applied when these actions are:

- In school zones
- On the open road
- At night or in inclement weather conditions (when these actions are at their riskiest).

With this data, we benchmark your employees against the 50,000+ other drivers we monitor daily, so you know how your drivers stack up nationally, who needs improvement, and who is a liability to your organisation.



Other Health & Safety Tools



PANIC BUTTON



ROLLOVER
SENSOR



MAP LAYERS:
TRAFFIC, STREET
& SATELLITE VIEW



CHECK SHEET
APP



HEALTH & SAFETY
REPORTING



FLEET
BEHAVIOUR
/SAFETY
BENCHMARKING



VIRTUAL
SPEED CAM



Compliance – Keep your assets safe & compliant

With the 2015 Health & Safety legislation as well as extended WOF periods, it's imperative that regular vehicle checks are undertaken for the purpose of maintaining a safe fleet and mobile workplace.

Are your vehicles up to scratch?

Vehicle condition can be easily monitored in real-time with our digital vehicle Check Sheets to ensure that your driver's vehicles are safe and maintained to a warrantable standard.



Traditionally, vehicle check sheets have been a paper-based, time-consuming process that was often inaccurate as there was no guarantee that the driver filling it out was at their vehicle at that specific time and date (or at all).

The Argus Tracking iOS & Android Check Sheet App was developed for ease of use and accuracy, enabling you to mitigate your fleet's Health & Safety risk. This tool provides proof that vehicle checks have been undertaken and are accurate, capturing any damage and maintenance issues in a timely manner – keeping paperwork to an absolute minimum.

Other Compliance tools

We offer a full fleet management suite that enables you to manage your fleet's compliance centrally – including automated RUC & Rego purchasing.

Our handy NZTA Sync feature simplifies the compliance process by providing accurate information and removing admin time that was previously involved in ensuring your RUC, Rego, WOF, COF, and service compliance is up to date.



DIGITAL VEHICLE CHECK SHEETS



CHECK SHEET MANAGER



COMPLIANCE WITH NZTA SYNC



SMART RENEW



DRIVER LICENCE EXPIRY REPORTING



RUC COLLECT OFF ROAD RUC MANAGEMENT & CLAIMING





Asset Utilisation & Efficiency

Optimising your fleet has never been easier. We will provide you with the tools needed to monitor and maintain the utilisation and efficiency of your fleet. Designed to ensure that your assets are running as efficiently and sustainably as possible – our tools will help save your business time and money.



Our Asset Utilisation & Efficiency tools:



ONE GLANCE
CUSTOMISABLE
DASHBOARD



IN-DEPTH
DRIVER & VEHICLE



RUNNING COSTS
PER KM, MILE



FUEL REPORTING



GEO-FENCING



PERFORMANCE
BENCHMARKING



GPS LINKED
POOL BOOKING



CO2 Reporting



INTEGRATIONS

Return on Investment (ROI)

We know you'll get an immediate return on investment from use Argus Tracking telematics, and we can prove it. Argus Tracking is designed to not only provide the best GPS Tracking and Fleet Management systems but to also save your organisation time and money.

Whether you're a SME, Corporate, Government, or Enterprise operation we'll give you a tailored solution with the greatest return on investment.

Head to our website www.argustracking.com to read our case studies and use our ROI Calculator to visualise your savings.



Know where your people are

You are responsible for the safety of an employee wherever they are working. See where your drivers are on a map in real-time to give you and your employees piece of mind.

Receive driving alerts & notifications!

Instantly know if your drivers have been in an incident (with our Rollover Sensors), enter or exit Geofences and more. Address issues in real time and identify your most at-risk drivers.

Track overseeds

Identify drivers who are most at-risk. Report lapses and improvements to driver behaviour and demonstrate driver compliance with Health & Safety policies.

Benchmark your fleet...

and individual drivers against the national average. See how your fleet compares and where you may need to make changes.

Ensure your vehicles are safe & compliant

Improve your vehicle maintenance and identify mechanical issues before they become safety concerns, mitigating vehicle downtime and your drivers' exposure to Health & Safety risks.

Reduce fuel costs

by deterring excessive speeding, stopping unapproved vehicle use and making sure you're using the most efficient and sustainable routes.

Highlight your problem areas

See precisely WHERE your fleet performance needs to be improved – it's not just people that need to change, manual and out-of-date processes need to be optimised too.

Reward top performers

Top-performing drivers will be saving you money, fuel, maintenance, driving fines, and risk. Why not reward them?

Increased productivity

Our route optimisation tool ensures employees take the most efficient route to each job, allowing them to complete more daily jobs. Timesheet information is tamperproof and verified in real-time.