

Vince White General Manager, QFleet

Department of Energy
and Climate



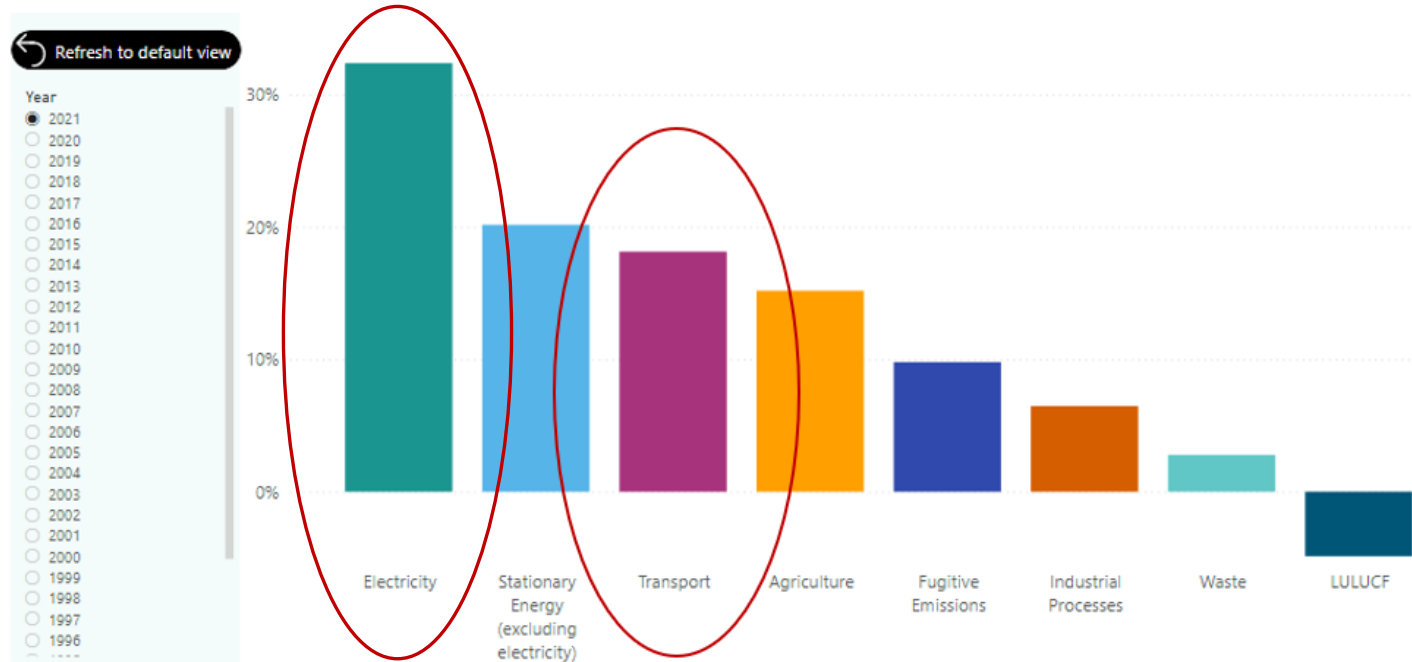
Queensland
Government

Agenda

1. Queensland Government ZEV Strategy
2. QFleet EV Strategy
3. QFleet EVs
4. Electric Vehicle Charging Infrastructure Program
5. Electric Vehicle Charging Infrastructure - lessons learnt
6. What you will need to do.

Emissions by sector

The graph below displays annual emissions by sector from 1990 to 2021. The data can be viewed by year, showing how each sector's impact on total emissions have changed over time.



Energy and

Jobs Plan



Queensland
Government

Driving towards our goals



Zero net emissions by 2050

We will achieve this target by investing in people, programs and infrastructure as part of our commitment to addressing climate change.



70% renewable energy by 2032

We will deliver on our \$4 billion commitment to Queensland's energy transformation by providing clean, affordable and reliable energy for all Queenslanders.



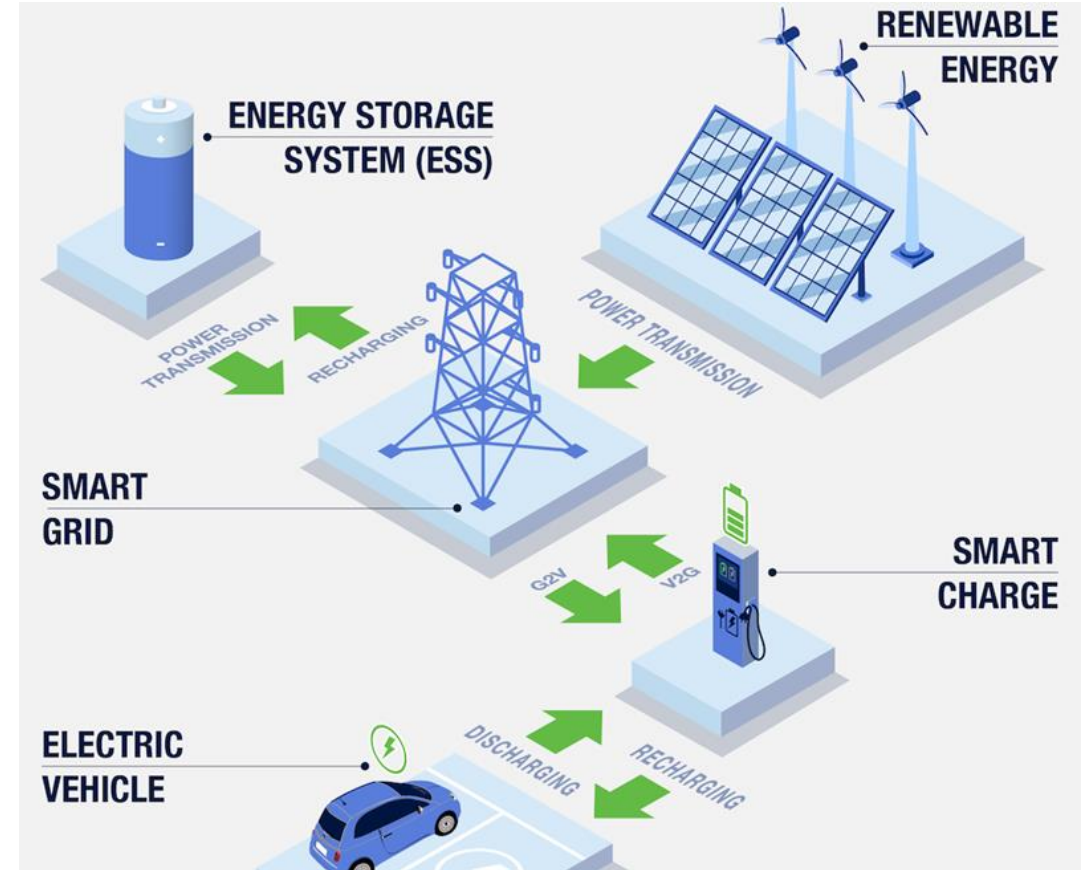
100% of eligible government passenger vehicles to be zero emission by 2026

We will continue transitioning our fleet to zero exhaust emission vehicles, resulting in significant savings for Queensland taxpayers.



ZEV ready government buildings by 2026

We will install charging infrastructure for fleet vehicles in government owned and leased buildings with a focus on sites the public can also use.



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QFleet's emissions reduction journey | 2010 – 2023 and beyond

The Queensland Government has made a strong commitment towards the introduction of zero exhaust emission vehicles. Through the introduction of the Queensland Energy and Jobs Plan, we will deliver infrastructure and investment in renewable energy to meet our 50 per cent renewable energy target by 2030.

QFleet's transition of the government's fleet to electric vehicles includes:



2010

- QFleet First Electric Vehicle
- QFleet Fleet Efficiency and Utilisation Policy



2018

- QFleet Environmental Strategy
- QFleet Emissions Reduction Guide
- QFleet Electric Vehicle Transition Strategy 2018-2022



2020

- QFleet Utilisation Standard



2022

- Queensland's Zero Emission Vehicle Strategy 2022-2032 & Action Plan 2022-2024



2023

- QFleet Electric Vehicle Transition Strategy 2023-2026

QFleet

EV Charging Infrastructure

Transitioning to Net zero

QFleet

EVs

- Fleet size: nearly 11,000 vehicles
- Annual turnover: \$150M
- Commercialised business unit

QFleet

- 1,000 active
- Target to have 3,000 EVs by 2026
- All eligible passenger vehicles (excluding police, emergency services, fire)

EVs

EV Charging Infrastructure

Transitioning to Net zero

EVs



- QFleet \$3,000 rebate
- Qld Electric Superhighway
- 180 7KwH chargers
- Complex!

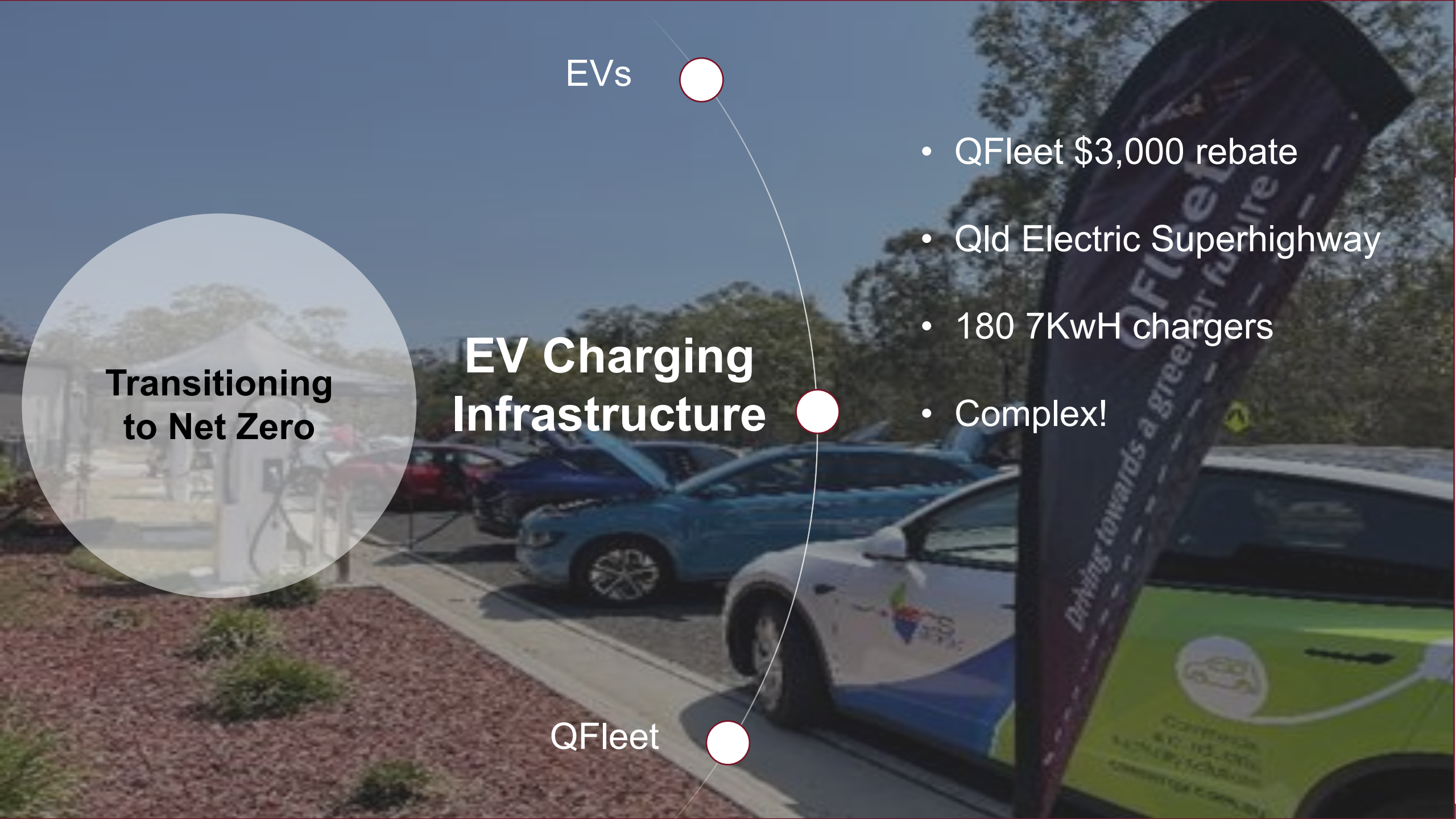
EV Charging Infrastructure



QFleet



Transitioning
to Net Zero

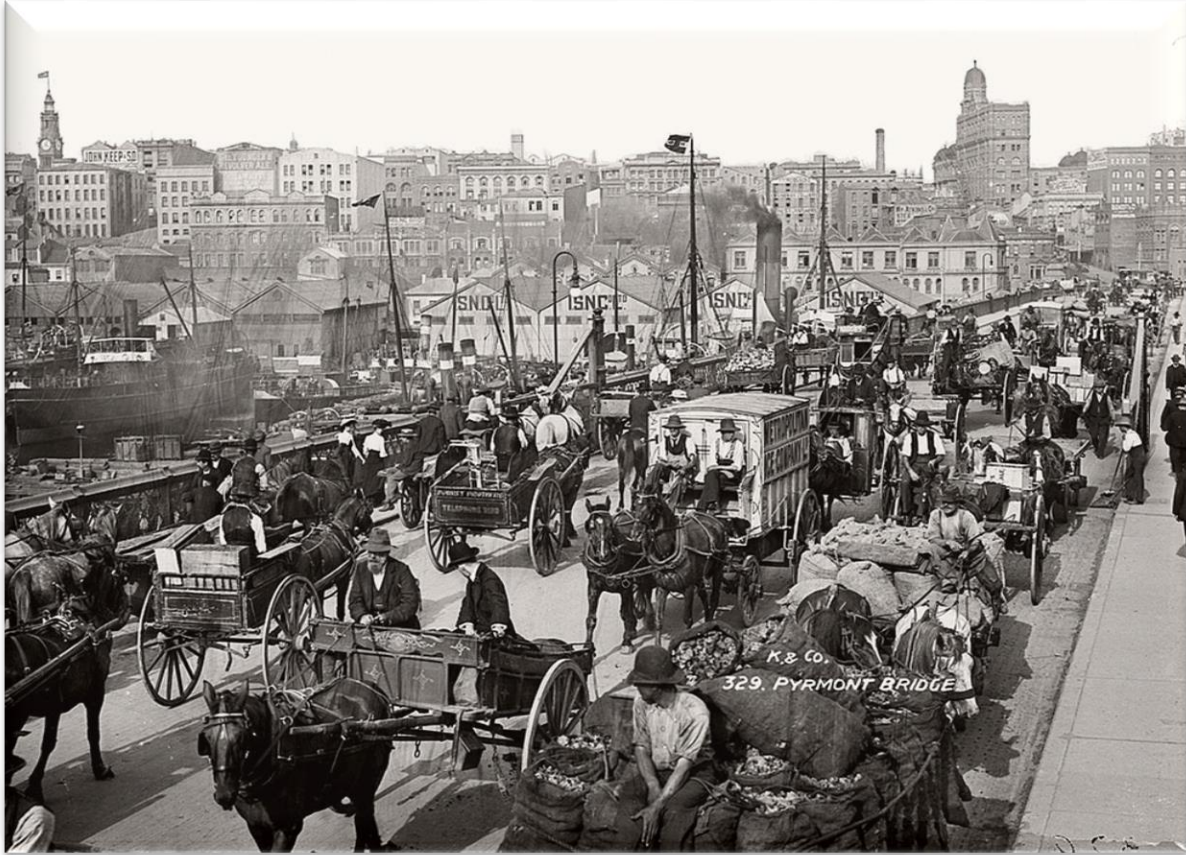




New York 1900



New York 1915

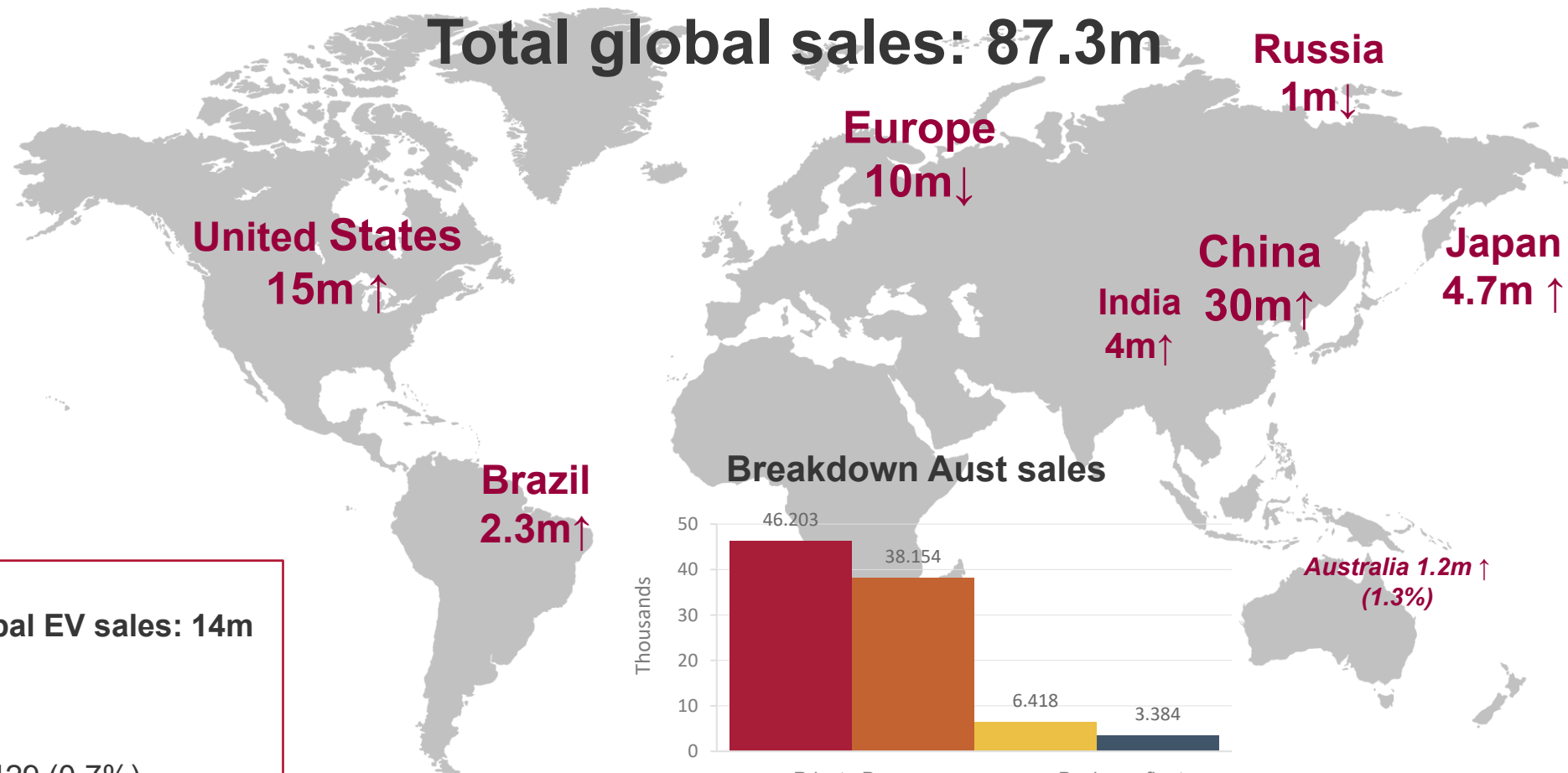


Sydney 1900

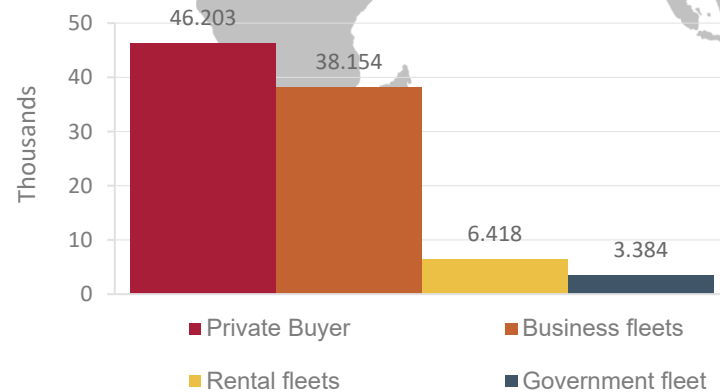


Sydney 1915

Global motor vehicle sales 2023 (volume)



Breakdown Aust sales



2023 Total Global EV sales: 14m

China – 9m

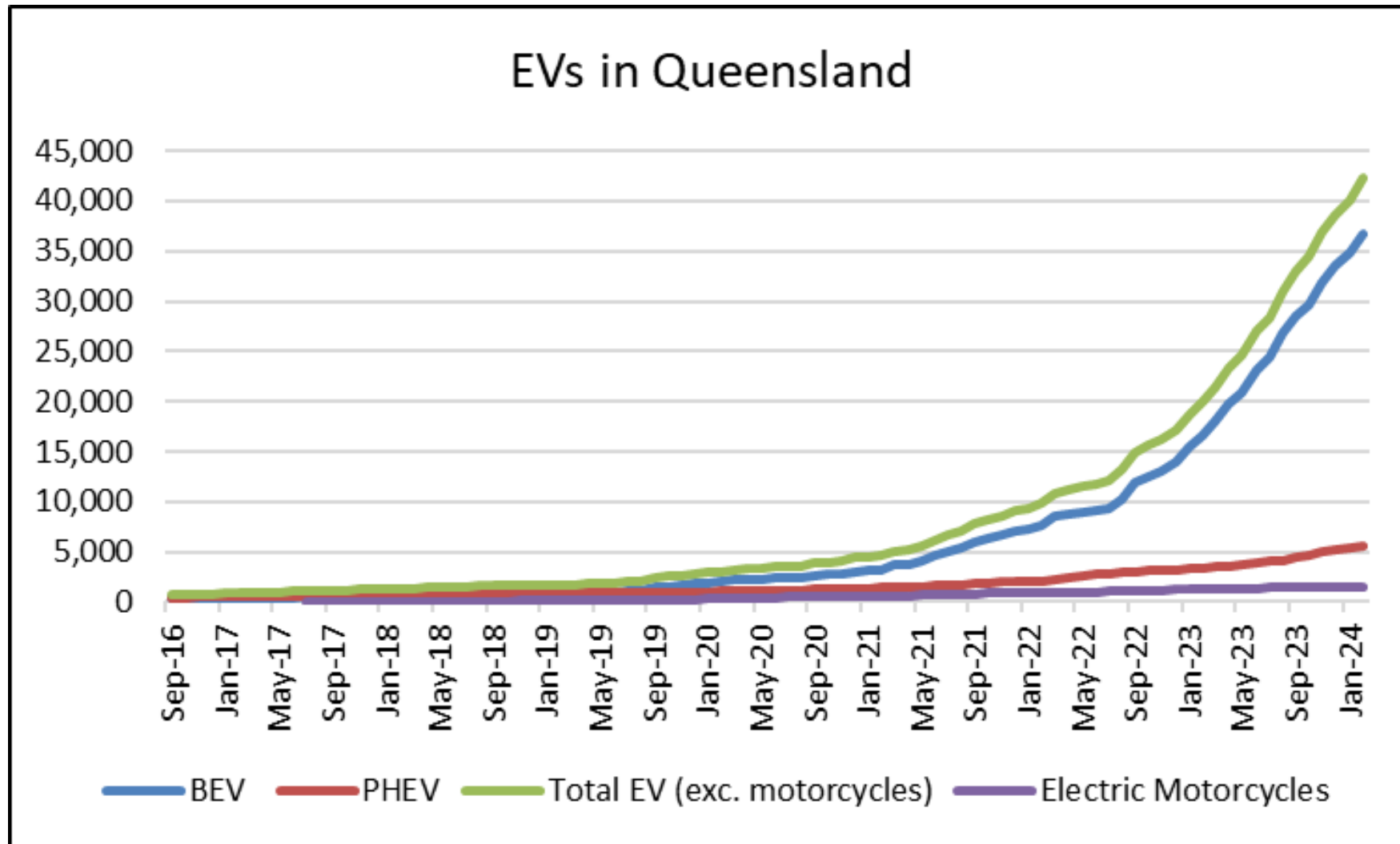
Europe – 2m

USA – 1.2m

Australia – 98,429 (0.7%)

(including PHEVs)

Electric vehicles in Queensland



QFleet

Driving towards net zero

Fleet operators have significant upfront capital costs to purchase and deploy the electric vehicles and associated charging infrastructure. This won't stop them buying EVs, but it will require them to develop a careful electrification transition strategy.



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Plugshare charging map – SEQ

The image shows a screenshot of the PlugShare website's charging map for the SEQ (South East Queensland) region. The interface includes a top navigation bar with the PlugShare logo, user profile information for 'Vince White's Profile', and a vehicle type 'Tesla Model 3'. A sidebar on the left contains a search bar and a menu with options such as 'Legend', 'Filters', 'Pay with PlugShare History', 'Add Station', 'Trip Planner', 'Recent Activity', 'Settings', 'Help', 'Submit Feedback', 'PlugShare Store', and 'Get the App'. The main map area displays a dense collection of charging stations, each represented by a green icon with a plug symbol. The map also shows geographical features like roads, rivers, and parks. At the bottom right, there are controls for map style (Map, Terrain, Satellite) and a scale bar. The footer contains copyright information for Recargo, Inc. and various links like Privacy Settings, Privacy Policy, Terms of Use, Developers, Stats, FAQ, and Advertise.

Electric Vehicle Charging Infrastructure

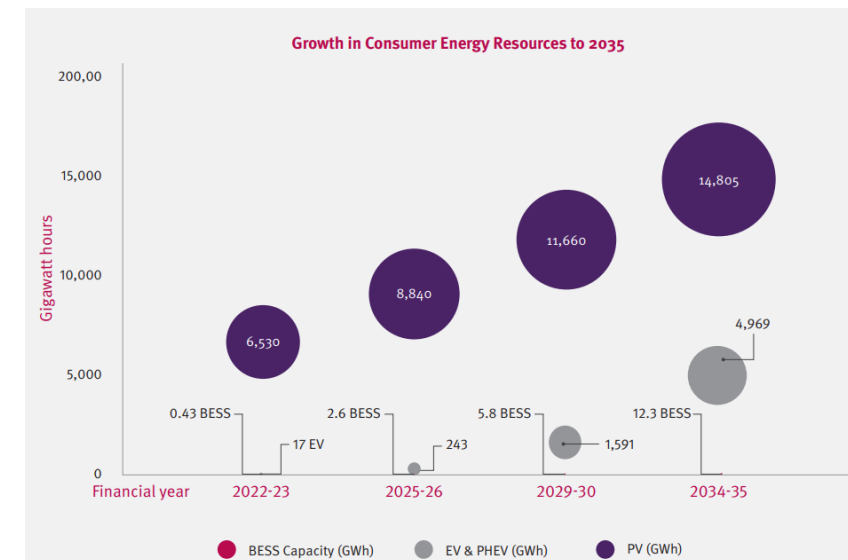
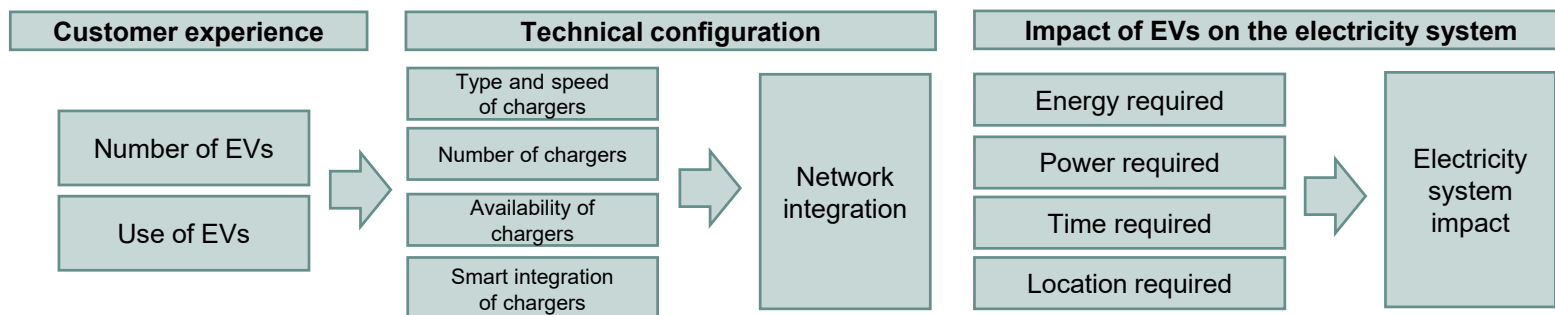
ACTION 2.5: Integrate Queensland's zero emissions vehicles

The Queensland Government will invest **\$12 million** for charging infrastructure and trials to support efficient integration of electric vehicles into the electricity system and **\$30 million** to make government buildings zero emission vehicle (ZEV) ready.

This \$42 million commitment is on top of already significant commitments, including \$45 million for rebates towards new electric vehicle purchases and \$10 million to support more public charging options. This action will also support the replacement of government fleet vehicles (to seed the second-hand electric vehicle market) and updates to regulations and tariffs.

ZEV strategy targets

- ✓ 50% of new passenger vehicle sales to be zero emissions by 2030 and 100% by 2036.
- ✓ 100% of eligible Queensland Government Fleet passenger vehicles to be zero emission by 2026.
- ✓ Every new TransLink funded bus added to the fleet to be a zero-emission bus from 2025 in south east Queensland and from 2025-2030 across regional Queensland.
- ✓ Net zero emissions by 2050.



Program status – January 2024



301

Chargers installed

1038

Installs pending

226

Publicly accessible
(installed and pending)

439

Applications
(Round 1)

Program challenges



Fire safety – complex buildings



Rapid DC chargers

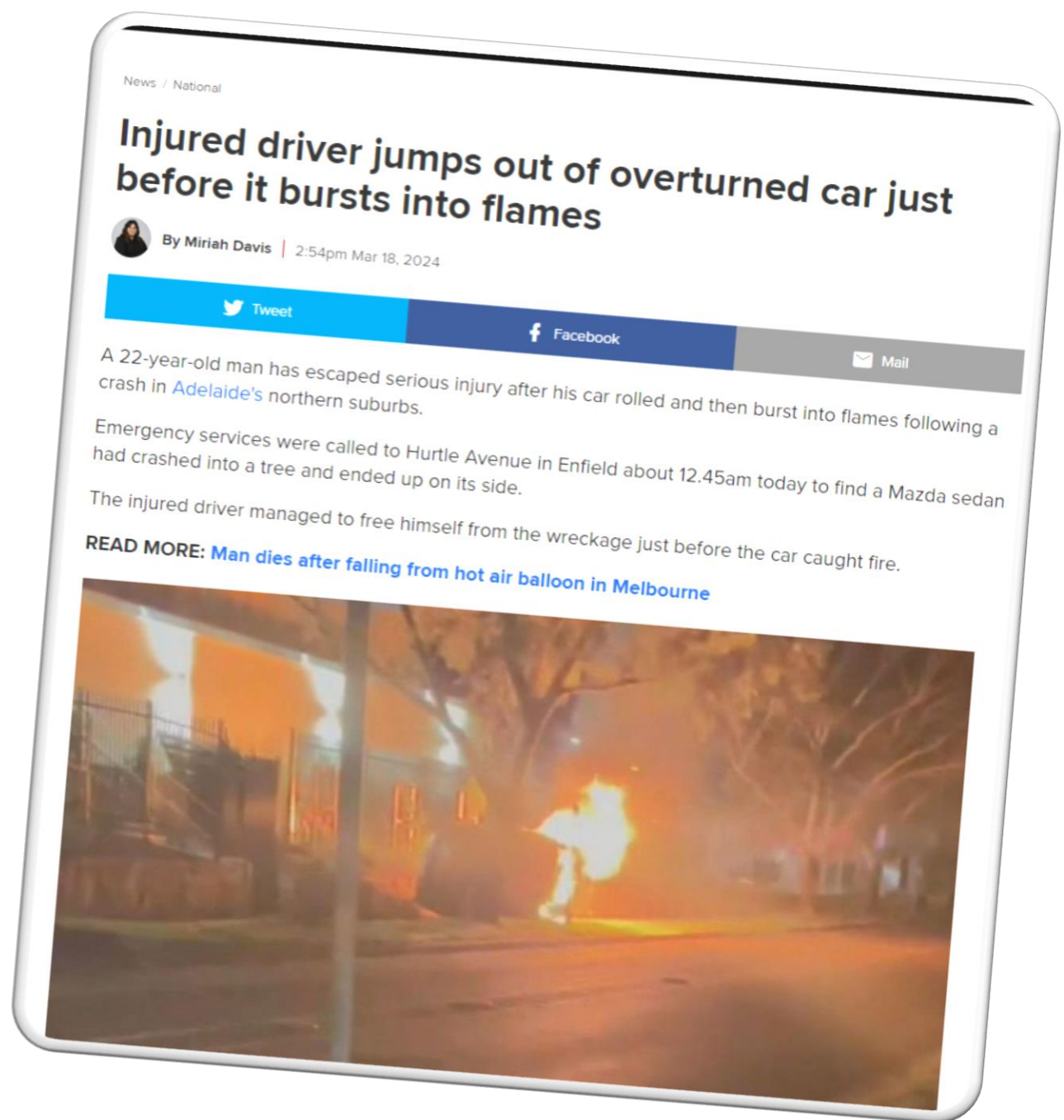


Behavioural change



Availability of contractors

Fire Safety

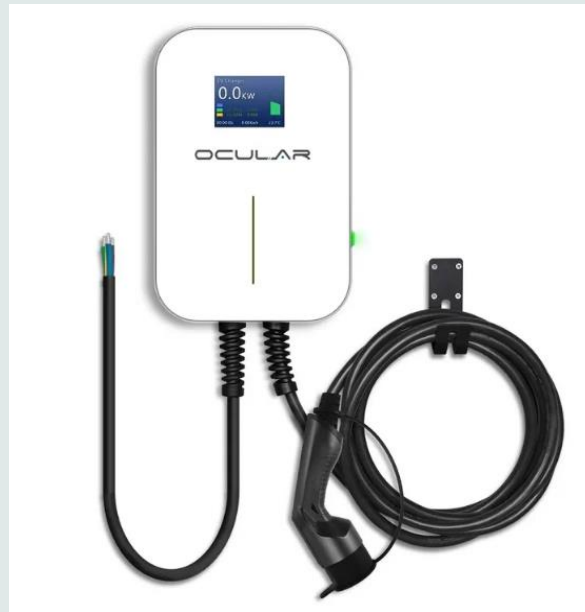


Learnings and tips – cables

Tethered chargers



Cable length

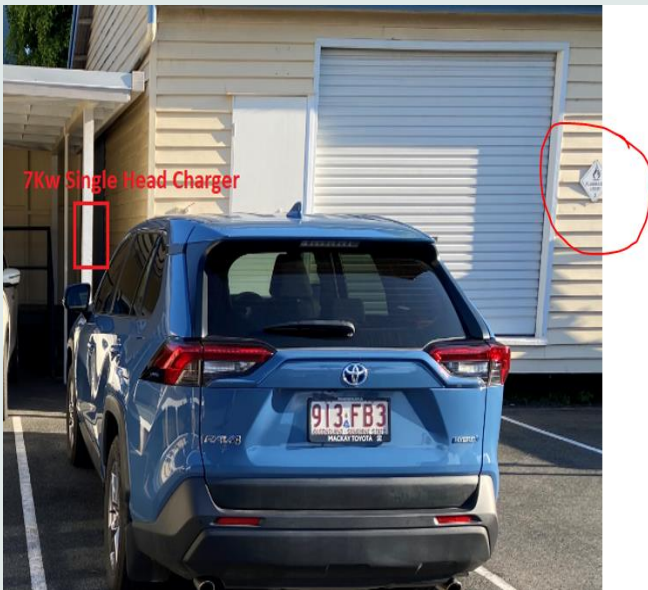


Avoid cable trip hazard



Learnings and tips – installs

Charger location



Charger signage



Right-sized conduits



Learnings and tips – leased premises

Lease renewal



Complex buildings
or infrastructure

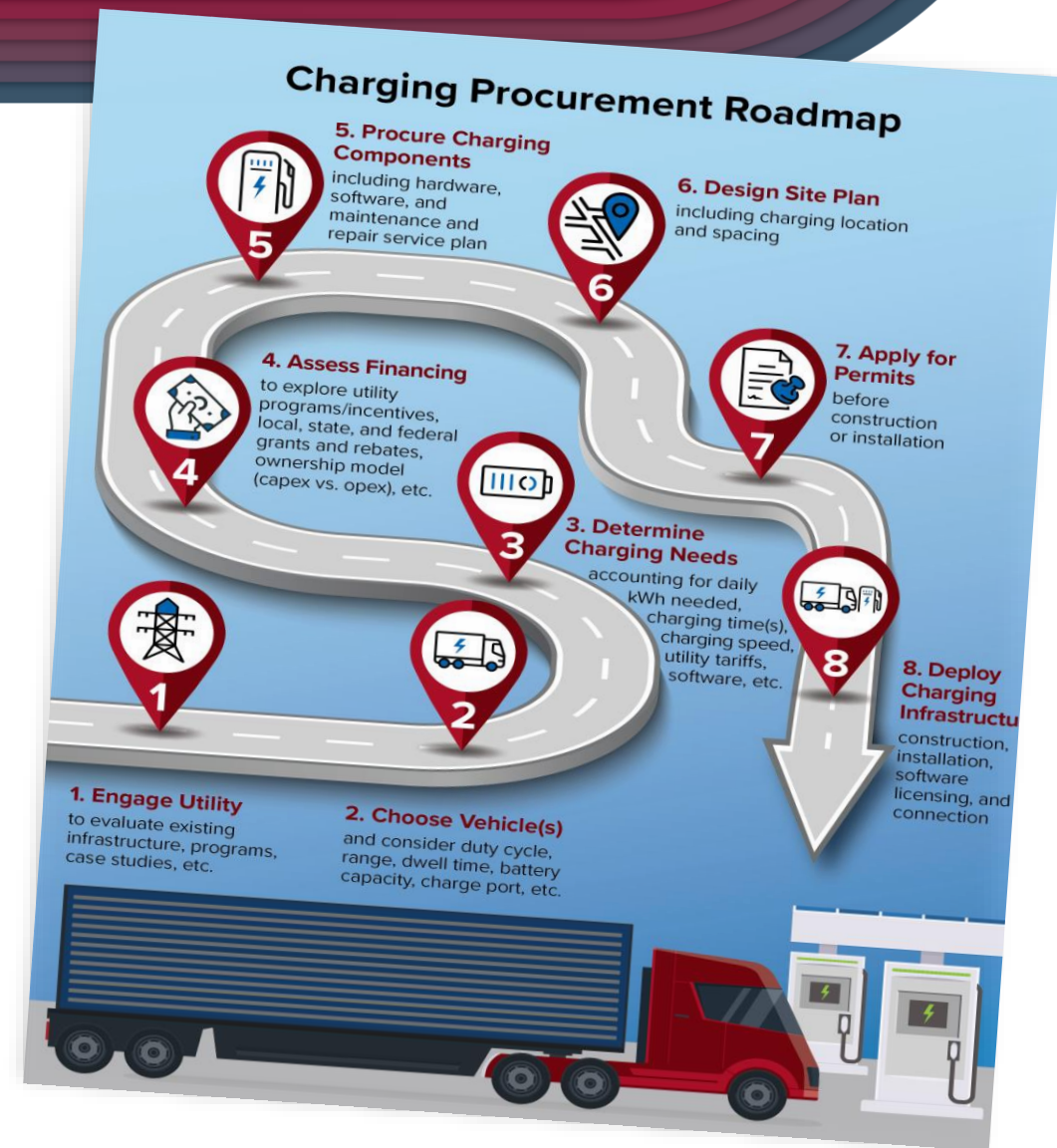


Have a Plan B

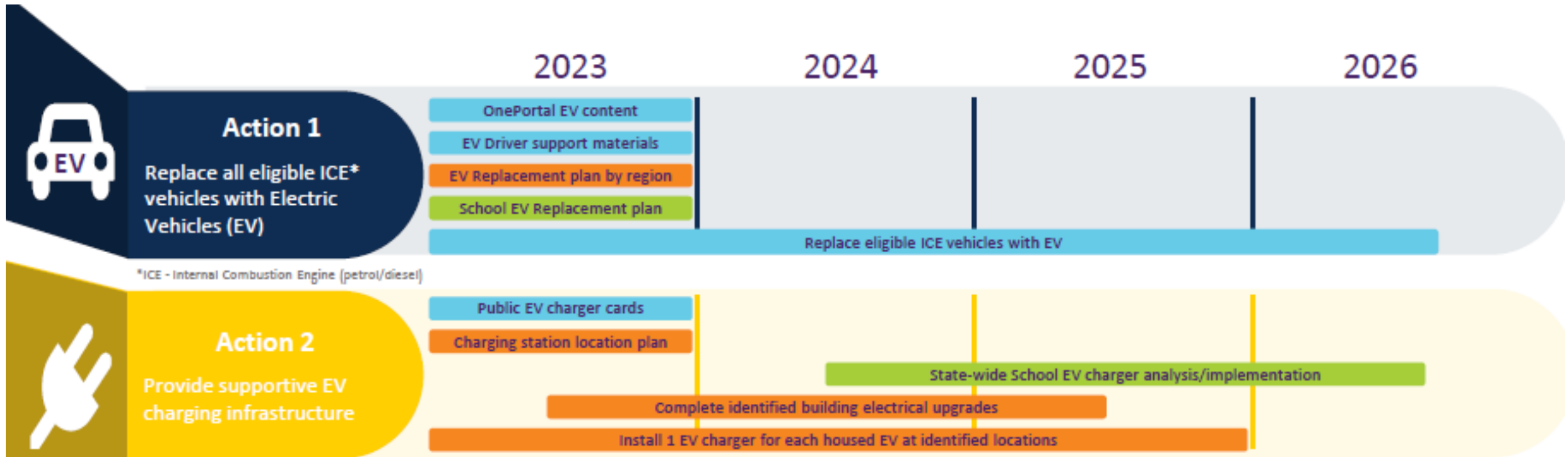


How?

- Develop a prioritised electric vehicle charging infrastructure rollout plan in buildings where the charging infrastructure will be located
- Explore complementary pathways to support net zero transport that can be considered for buildings' electric vehicle charging infrastructure readiness
- Plan and lead collaborative working sessions and workshops with building occupants, fleet and facility contacts, building owners and building owner's facility managers
- Carry out supporting background research (building electrical supply, capacity, access, fire safety, risk assessment, electric vehicle charging infrastructure locations (number, type, etc), government approvals/permits/code requirements)
- Develop a plan that can be used as an assessment framework in identifying priority EV charging locations
- **Develop:**
 - a prioritised rollout plan
 - Funding assessment
 - Technical guidelines
 - Procurement guidelines/panel
 - Code of Conduct.



How continued...





Queensland's Zero Emission Vehicle Strategy 2022–2032



Contents

- Executive summary
- Vision
- Linking Queensland transport, climate change and energy
- Our priorities
- Targets
- State of the market
- Moving to zero emission vehicles
- Benefits of zero emission vehicles
- Overcoming challenges to shift to ZEVs
- A customer journey
- Opportunities for charging choice, equity and affordability
- Priorities for Queensland's Zero Emission Vehicle Strategy
 - Priority 1: Encouraging cleaner, greener transport modes
 - Priority 2: Building ZEV manufacturing and supply chain capability
 - Priority 3: Facilitating supportive ZEV infrastructure
 - Priority 4: Driving towards renewables and smart charging
 - Priority 5: Partnerships, innovation and advocacy
- Implementing Queensland's Zero Emission Vehicle Strategy
 - Action plans
 - Keeping track of progress
- Glossary
- Abbreviations
- References

Targets

To support Queensland's 50% renewable energy target by 2030 and zero net emissions by 2050, we have set targets to stimulate investment and provide consumer confidence to transition to ZEVs in Queensland.

100%
of eligible QFleet passenger* vehicles to be zero emissions vehicles by 2026

Every new TransLink funded bus added to the fleet to be a zero emission bus
from 2025
in South-East Queensland
from 2025–2030
across regional Queensland

50%
of new passenger* vehicle sales to be zero emission vehicles by 2030
200,000 passenger* zero emission vehicles by 2027

100%
of new passenger* vehicle sales to be zero emission vehicles by 2036

*Passenger vehicles include light passenger vehicles and SUVs

	Building Name	Maryborough Government Office Building	Mareeba Precinct	Mike Ahern Building	Carpark (for 123 Wharf Street office)	QBuild Southwest Qld Office and Depot	Queensland State Archives	Rockhampton Government Precinct	Townsville Government Office Building	William McCormack Place
	Address	Lennox Street (Cnr Alice Street), Maryborough	28 Peters Streets, Mareeba	12 First Avenue, Maroochydore	147 Richmond Street, Maryborough	120 Mort Street, Toowoomba	469 Compton Road Runcorn	149 Bolsover Street (Block E)	187 Stanley Street, Townsville	5b Sheridan Street, Cairns
Date	Tenure	QGAO Owned	QGAO Owned	QGAO Owned	QGAO Owned	QGAO Owned	QGAO Owned	QGAO Owned	QGAO Owned	QGAO Owned
1 October 2023	Sunday									
2 October 2023	Monday									
3 October 2023	Tuesday									
4 October 2023	Wednesday									
5 October 2023	Thursday									
6 October 2023	Friday									
7 October 2023	Saturday									
8 October 2023	Sunday									
9 October 2023	Monday									
10 October 2023	Tuesday									
11 October 2023	Wednesday	Review Point	Install							
12 October 2023	Thursday									
13 October 2023	Friday									
14 October 2023	Saturday									
15 October 2023	Sunday									
16 October 2023	Monday		60kw Install							
17 October 2023	Tuesday									
18 October 2023	Wednesday									
19 October 2023	Thursday									
20 October 2023	Friday									
21 October 2023	Saturday									
22 October 2023	Sunday									
23 October 2023	Monday									
24 October 2023	Tuesday		7kw Install							
25 October 2023	Wednesday									
26 October 2023	Thursday									
27 October 2023	Friday									
28 October 2023	Saturday									
29 October 2023	Sunday									
30 October 2023	Monday									
31 October 2023	Tuesday									
1 November 2023	Wednesday									
2 November 2023	Thursday									
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10 November 2023	Friday									
11 November 2023	Saturday									
12 November 2023	Sunday									
13 November 2023	Monday									
14 November 2023	Tuesday									
15 November 2023	Wednesday									
16 November 2023	Thursday									

Electric Vehicle Charging Infrastructure Program

Three key takeaways

Develop	Develop an electric vehicle charging infrastructure plan (facilities and fleet)
Develop	Develop and EV transition plan (fleet)
Align	Align the two! (facilities and fleet).

Want to know more about QFleet?

For more information about partnering with QFleet, please email qfleet@epw.qld.gov.au.

To learn more about QFleet visit www.forgov.qld.gov.au/qfleet

Q&As



Queensland
Government

Where can I find public electric vehicle charging stations?

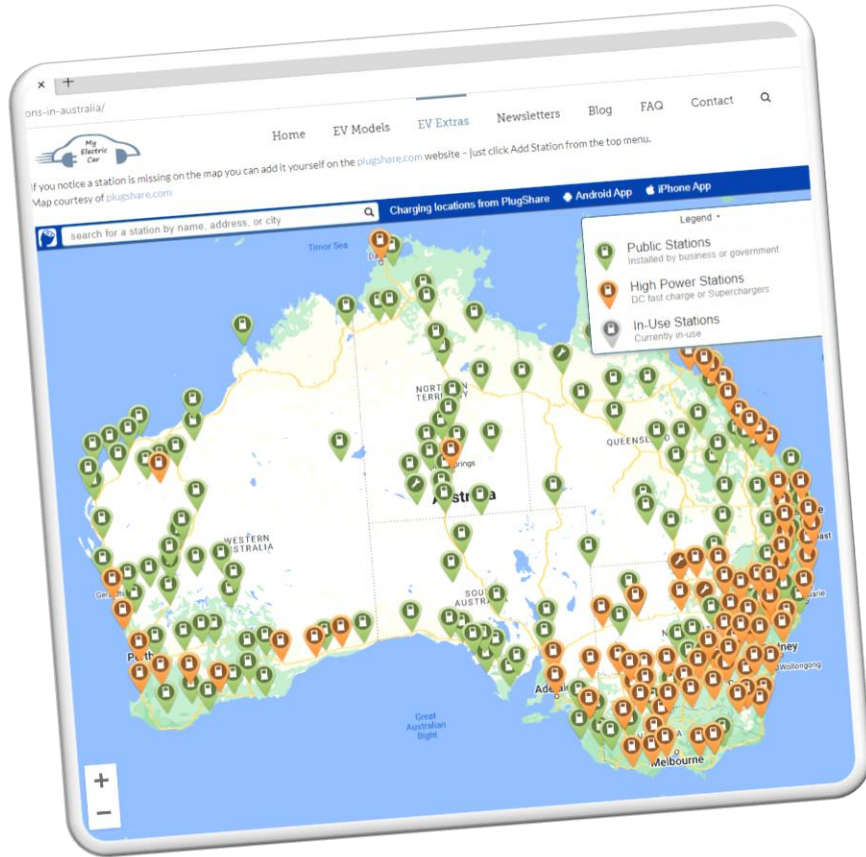
- There are a range of EV charging locations available across Queensland with more stations gradually coming online at a range of locations including at shopping centres, car parks, workplaces, and tourist attractions. Find the full list on [PlugShare](#).
- You can charge your electric vehicle along the Queensland Electric Super Highway (QESH).
- You can check the status of the QESH charging site locations on the interactive [google map](#) or through the [Chargefox App](#).
- You may also like to enquire whether your workplace offers the ability to recharge your vehicle.
- Further information on the location of other charging stations can be found on [PlugShare's](#) website and app, a global EV charging station app.

What is the Queensland Electric Super Highway?

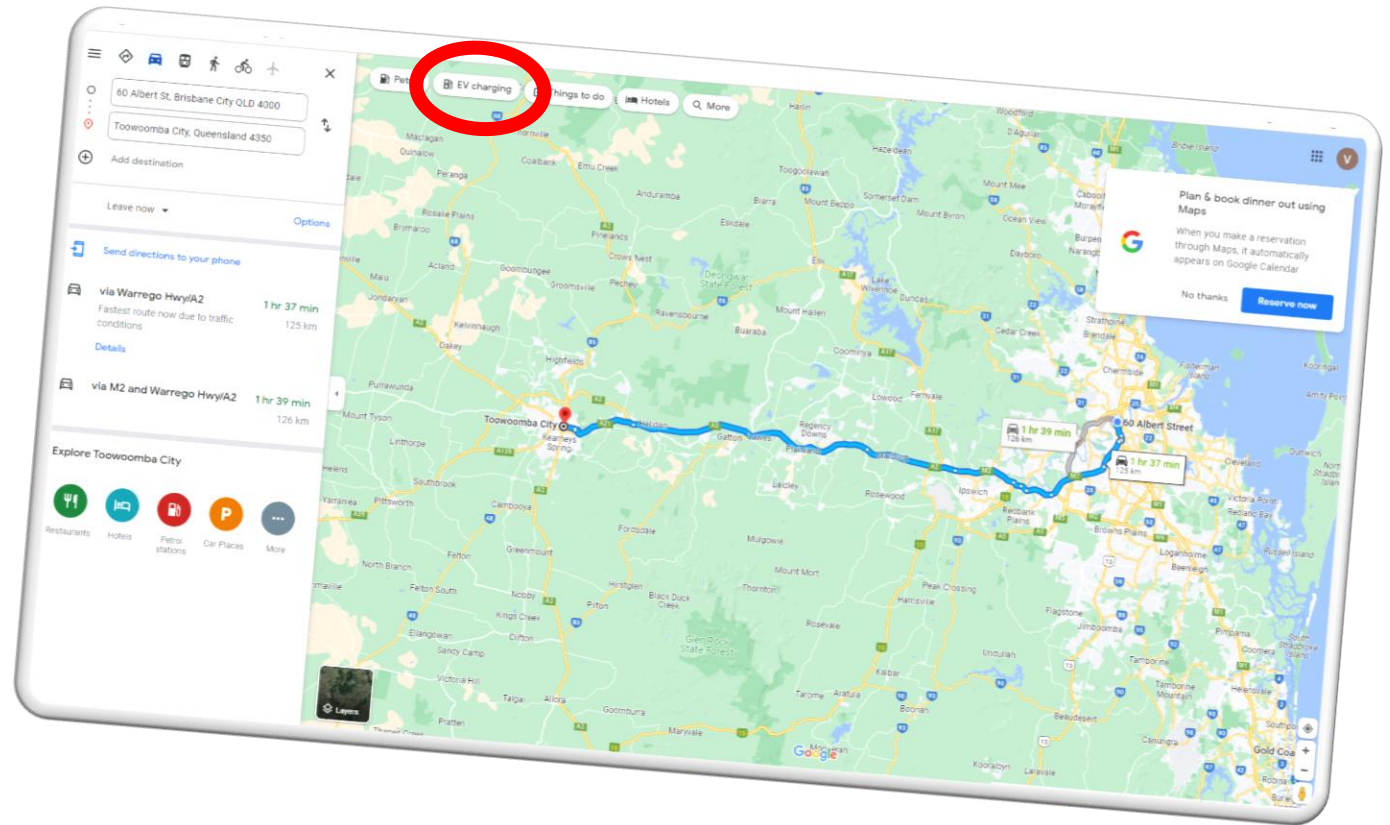
- The Queensland Electric Super Highway (QESH) worth \$10 million includes a network of 55 fast charging stations allowing a person to charge an electric vehicle from Coolangatta to Port Douglas and from Brisbane to Toowoomba.
- It is one of the showpiece actions in *The Future is Electric: Queensland Electric Vehicle Strategy* designed to reduce range anxiety by increasing access to public fast-charging stations.
- View the full list of Queensland's Electric Super Highway charging locations by visiting www.qld.gov.au/transport/projects/electricvehicles/super-highway



Where can I find public electric vehicle charging stations?



By viewing the plugshare.com



By searching for EV chargers on Google Maps.

Electric vehicle charging

Electric vehicle charging

Hours All filters Cooyar Mount Binga

Tesla Destination Charger
3.0 ★★★★★ (1)
Electric vehicle charging station · 300 George St (07) 3556 8888
Tesla · 22 kW Total 2

Evie Charging Station
5.0 ★★★★★ (2)
Electric vehicle charging station · 34 Goggs Rd 1300 463 843
CHAdEMO · 50 kW 2/2
CCS · 50 kW 2/2

Evie Charging Station
4.3 ★★★★★ (6)
Electric vehicle charging station · Puma Citiswich CNR ASHBURN ROAD AND, Hawkins Cres 1300 463 843
CHAdEMO · 350 kW 2/2
CCS · 350 kW 2/2

Tesla Destination Charger
5.0 ★★★★★ (2)
Electric vehicle charging station · 249 Turbot St (07) 3835 3535
Tesla · 22 kW Total 2

Porsche Destination Charging Station
No reviews
Electric vehicle charging station · 37A N Quay Open 24 hours · (07) 3556 8888

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