

Electric vehicle owner survey

Summary of key findings

August 2025



EV owner survey summary of key findings

The RAC surveyed over a thousand Western Australian Battery Electric Vehicle (EV) owners in December 2024 to learn about their motivations and experiences of EV ownership.

Snapshot of respondents:

1,095
respondents

- » Males (63%) vs females (35%)
- » Perth/Peel metro (91%) vs regional WA (9%)
- » Live in a separate house (87%), semi-detached/duplex/triplex (7%), apartment/unit (6%)
- » 75% have owned their EV for less than 3 years
- » 48% drive less than 200km, 38% drive 200km to 399km, 15% drive 400km+ per week

1. Almost everyone thinks they made the right decision purchasing an EV

- » Nearly all EV owners (96%) believe they made the right decision to purchase an EV over a traditional internal combustion engine (ICE) vehicle (e.g. petrol/diesel, LPG).
- » Top three reasons for choosing to buy an EV instead of an ICE vehicle:
 - > EVs are easier to service and maintain (70%)
 - > EVs are cheaper to power (67%)
 - > EVs reduce my contribution to air pollution (66%).
- » Things EV owners like the most about their vehicles: convenience and cost savings of home charging (often using solar panels), driving experience, environmental benefits (lower emissions), minimal maintenance.

"...I love it is pollution free when I drive it. I love it is sophisticated, progressive, capable, cheap to run, luxurious in its feel, and it is just so much more responsive and quicker than all those slow dirty smelly noisy polluting ICE cars. I totally and completely love it."

- EV Owner

- » EV owners are concerned about: adequacy of EV charging infrastructure (especially in the regions), range anxiety and having to plan for longer journeys, high purchase cost.

Common perceptions about EVs

Perceived: EVs are more expensive.

Actual: EVs are costly to purchase but they're cheaper to run and I can charge at home.

Cost is a major barrier to purchasing an EV according to prospective buyers¹. While EV owners acknowledge the high purchase price, they also overwhelmingly commented on the financial benefits and convenience of home charging and cost savings from lower maintenance and not having to refuel.

Perceived: EVs aren't more environmentally friendly than ICE vehicles.

Actual: EVs help to reduce my personal contribution to air pollution and I can charge using solar energy.

Prospective buyers are increasingly sceptical about the environmental benefits of EVs², which is very different from EV owners' environmental motivations. EV owners spoke about reducing their personal contributions to air pollution and charging EVs using solar panels to minimise environmental impacts. Research has found that the perceived green value of EVs is an important driver of customers' buying intention, and conversely, green scepticism has a decisive but negative influence.

Australia's uptake of Battery EVs (BEVs) and Plug-in Hybrid EVs (PHEVs) made up 13 per cent of Australian new car sales in 2024, which is below the global average (22 per cent) and continues to lag behind countries such as Canada (17 per cent), the European Union (21 per cent), the United Kingdom (28 per cent), China (48 per cent) and Norway (92 per cent)³.



To encourage greater uptake of low and zero emissions vehicles:

- » Governments and industry should address common misperceptions about EV ownership by highlighting the positive experiences of EV owners. This might include raising community awareness of the cost benefits and convenience of operating an EV, and the environmental benefits associated with the use of EVs.
- » The Australian Government's New Vehicle Efficiency Standard (NVES) (introduced in January 2025) encourages auto makers to supply more efficient vehicles to meet an average carbon emissions target across the fleet of new cars sold each year⁴. Increased competition between brands and economies of scale is anticipated to bring down the cost of EVs but there should be ongoing monitoring of the effect of the NVES on vehicle prices to ensure this happens.
- » The WA and Australian Governments should set and deliver ambitious targets (including timeframes) for low and zero emissions vehicles for their respective government fleets. Given that governments operate some of the largest vehicle fleets in the country, fleet purchase targets not only set an example for private fleet operators to follow⁵, but also supplies EVs to the second-hand market, typically after three to five years once leases expire⁶. The WA Government increased its fleet EV target from 25 per cent of all new vehicle orders in eligible categories by 2025/26⁷ to at least 50 per cent of all new orders in eligible categories (small/medium/large passenger vehicles and small/medium SUVs) from 1 July 2025⁸. Despite the higher target, WA has the lowest government fleet target compared to other Australian jurisdictions⁹ and the target applies to less than a third of state fleet vehicles¹⁰. It is not clear how progress is to be tracked, underscoring the need for greater monitoring and possible extension of the target as more EV options become available that meet operational requirements. The Australian Government has mandated that 75 per cent of new passenger vehicles must be low emission vehicles (with a preference for zero emissions) by 2025, and while fleet EV purchases for 2024 were on track, no new target has been set from 2025 onwards¹¹.

- » The WA and Australian Governments should set ambitious targets (including timeframes) for low and zero emissions vehicle sales across the whole passenger fleet. This can help to increase market confidence in EVs and focus government initiatives (such as the delivery of charging infrastructure) to achieve this goal. Most states and territories already have an EV sales target. For example, the NSW Government target is for EVs to represent more than 50 per cent of new car sales by 2030/31 and the Queensland Government target is for 50 per cent of new car sales to be EVs by 2030 and 100 per cent by 2036¹².
- » The WA and Australian Governments should continue to offer incentives, taxation exemptions and subsidies that encourage uptake of low and zero emissions vehicles particularly while EV market penetration remains low. For example, the Australian Government's Fringe Benefits Tax (FBT) exemption for low and zero emissions vehicles can save workers approximately \$5,000 each year on the average cost of an EV when taking out a novated lease¹³. There is the added benefit of EVs filtering into the second-hand market if vehicles are traded in at the expiration of novated leases¹⁴, which also assists affordability. The FBT exemption for BEVs is due to continue until at least 2027 but the exemption for PHEVs ceased on 31 March 2025¹⁵. It is critical that the FBT exemption is not withdrawn prematurely, particularly while BEV uptake remains price-sensitive and volatile¹⁶.
- » Governments at all levels should consider other measures to support EV uptake in the short term until market demand is stronger, for example stamp duty relief, registration concessions or exemptions, and possible behavioural incentives such as discounted parking for EVs. In Queensland, electric and hybrid vehicles (up to \$100,000 in dutiable value) receive a discounted rate of stamp duty of \$2 per \$100, compared with a rate of \$3 to \$4 per \$100 for petrol/diesel vehicles (up to \$100,000 in dutiable value)¹⁷. The Northern Territory offers free registration for new and existing EVs and a stamp duty concession of up to \$1,500 for vehicles with a dutiable value of up to \$50,000¹⁸.
- » Care needs to be taken by governments to ensure that future policy developments (for example any new national/state approaches to road user charging) do not act as a deterrent to the uptake of low and zero emissions vehicles by reducing EV affordability.





2. For many, home charging is convenient, green and cost effective

- » The majority (91%) of EV owners charge their vehicles at home at least 1-2 times a week.
- » EV owners reported high levels of satisfaction with home charging (77% said they are 'very satisfied' and 14% said they are 'somewhat satisfied').
- » For the EV owners who charge their vehicles at home:
 - > 66% plug in during the day (9am-3pm) mainly to make use of solar power
 - > 34% plug in overnight (11pm-6am) to take advantage of cheaper electricity tariffs
 - > 16% charge later in the afternoon (3pm-6pm) often to coincide with coming home from work.

"Daytime charging allows me to use solar power to charge the vehicle free from the sun"

"I have a large solar system and can charge it for free from the sun, so my cost is zero"

"I get cheaper power after 9pm"

- EV Owners

- » Compared to home charging by 95% of EV owners who live in a separate house, only 56% of EV owners who live in an apartment/unit charge their EV at home at least 1-2 times a week and 32% never do so. EV owners who live in an apartment/unit and charge their vehicles at home are more likely to charge overnight (42%) or in the early evening (6-9pm) (30%) although nearly a third (30%) typically charge their EV during the day. Reasons given for charging in the evening include these being the hours allocated to use the building's charger or for convenience (plugging in on arriving home from work).
- » 79% of EV owners have solar panels at home and 18 per cent also have a solar battery.
- » For those without, 58% indicated that they had considered installing solar panels, and 67% had considered installing a solar battery since purchasing their EV. High cost and extended payback period were the main barriers to both although housing situation, particularly for those renting or living in apartments, was another key reason given for not installing solar panels.
- » Compared to 14% of EV owners in separate houses without either solar panels or a battery, 89% of apartment dwellers go without.

"Currently we rent and our landlord has not been receptive to installing solar panels at this time."

"Live in an apartment and would need to go through strata... so strata pain means it won't happen."

"I live in an apartment complex - strata will not allow it."

- EV Owners

Charging an EV using renewable energy can deliver additional cost and environmental benefits

The life-cycle emissions of BEVs are already lower than a comparable petrol vehicle by 55 per cent. A BEV emits close to 150g CO₂-e of lifecycle greenhouse gas emissions under WA's existing mixed grid¹⁹ compared to a petrol vehicle that emits close to 350g CO₂-e. However, operating on a fully renewable grid, the life-cycle emissions of a BEV would be 86 per cent lower than a petrol equivalent (dropping to around 50g CO₂-e)²⁰. Recharging an EV using renewable energy can therefore help to realise greater clean air and associated health benefits by reducing lifecycle emissions.

Cheaper electricity tariffs (during off peak periods) can reduce the cost of charging an EV but it is still not as cheap as charging from the sun during daylight hours. When paired with rooftop solar, a household battery can store excess solar generated during the day for use charging an EV during evening peak hours or at other times when sunlight is limited. This not only helps to stabilise the grid by smoothing out demand spikes and reduce costs to all households over time²¹, but also enables greater self-consumption of renewable energy. Reducing the amount of electricity that needs to be purchased will deliver cost savings, noting however the initial financial outlay needed for battery purchase and installation.

To make home EV charging easier, greener and more cost effective:

» Reduce barriers to recharging using renewables through government policies and initiatives that improve community access to solar and other distributed energy resources. For example, from 1 July 2025 the WA Government Residential Battery Scheme will offer rebates for residential batteries of up to \$1,300 for Synergy customers and \$3,800 for Horizon customers. The scheme will complement the Australian Government's Cheaper Home Batteries Program for a combined rebate of up to \$5,000 and \$7,500 respectively towards the cost of a 10kWh battery installation once certain eligibility requirements are met. Rebates will be complemented by a means-tested program providing low and medium-income households no-interest loans of up to \$10,000 and 10 years to repay²². A complementary \$50m Local Battery Manufacturing Program of direct grants and low-interest loans is being offered by the WA Government in 2025-26 to assist industry²³.

- » The WA and Australian Governments should work together to address regulatory, technical and market barriers to the adoption of bidirectional EV charging. Bidirectional charging allows for electricity to flow both ways between an EV and an external electricity system, potentially unlocking cost savings, increased energy security, and a source of revenue for EV owners if selling electricity back to the grid (known as vehicle-to-grid or V2G charging). New national regulatory standards were introduced for V2G charging in 2024²⁴. The National Roadmap for Bidirectional EV Charging estimates that by 2030 hundreds of thousands of households could be using this technology, but this will require critical actions and policy settings including minimum interoperability standards and national consistency on grid connection requirements²⁵.
- » Charging an EV at home can be more challenging for people living in apartments. To make home charging convenient for everyone, the WA Government should consider planning system incentivisation and/or minimum requirements for EV charger provision in new developments, and guidance and financial incentives to assist EV charger installation/use in existing strata complexes. For example, the NSW Government EV Ready Buildings Grant in 2023 assisted with retrofitting existing apartment buildings by co-funding the assessment and installation of EV infrastructure upgrades²⁶. Alternative finance options that could also support the installation of EV chargers in existing apartment buildings include zero/low-interest financing (and/or targeted schemes for low-income residents), and subsidies (particularly for difficult installations)²⁷. The WA Government is undertaking a five-year statutory review of the state's strata law that is due to conclude in 2025²⁸. Any amendments to the Strata Titles Act 1985 should seek to facilitate EV charging connections (and complementary infrastructure such as solar panels) by strata residents.
- » Governments and industry should raise community awareness to support and incentivise positive charging practices e.g. guidance on managing charging times, refining and promoting the use of time-of-use tariffs, and encouraging smart charger adoption.

3. Public chargers aren't used as often but still need to be available

- » Public charging and destination charging facilities (for example, at shopping centres and workplaces) are used less frequently than home charging, with in each case over four in ten having never used them.
- » On average, only 7% of EV owners use public charging facilities, and 9% use destination charging facilities at least 1-2 times per week. However, some EV owners use these facilities more often. Among EV owners who live in an apartment/unit, 38% plug in at public charging facilities, and 24% at destination charging facilities, at least 1-2 times a week. Regional owners are also more likely to use a public charging or destination charging facility at some point (12% of regional EV owners use a public charging facility weekly and 75% ever do so, while 11% use a destination charger at least 1-2 times a week and 71% ever do so).
- » While satisfaction with public charging is lower than for other elements of EV ownership, 67% still reported satisfaction with it.
- » When EV owners were asked what improvements they would like made to public/destination charging facilities in WA, suggestions included:
 - > more charging stations, particularly fast chargers, in more locations, especially in regional/rural areas;
 - > increasing the reliability and maintenance of existing chargers; and
 - > enhancing charge station amenities (e.g. with shade and restrooms).

"More chargers in more locations with faster charging"

"I regularly use public charging stations and often find them out of order or occupied. I live in regional WA so going to an alternative charger isn't always practical."

"More reliable chargers – having chargers that work most of the time and not out of action for a long period of time, and keep up with the maintenance of the chargers."

- EV Owners

The public EV charger conundrum

The survey shows that a sizeable proportion of EV owners rarely, if ever, use public charging infrastructure (91 per cent are charging at home at least 1-2 times a week, only 7 per cent use public chargers 1-2 times a week, and over 4 in 10 do not use them at all). This could be because EV owners do not regularly drive their EV long distances (48 per cent of EV owners typically drive less than 200km a week and 4 in 10 have not driven their EV more than 300km from home) or they are less likely to in an EV, especially if they can use an ICE vehicle (see below). Most EV owners are still broadly satisfied with public charging, and low usage levels indicate why it is not a particular obstacle for them. And yet, inadequate public charging infrastructure (particularly in regional areas) is raised as a barrier to EV purchase²⁹ and is a concern held by EV owners.

EV owners prefer to charge their vehicles at home due to convenience and lower cost yet want the reassurance that public charging networks are available should they need it. Increasing access to public EV charging does not only rely on increasing the number of public EV chargers but also improving the availability of existing chargers. EV owners can be frustrated by public chargers that are out of order and/or are not easy to use because a specific cable or payment system is required.

Australia has a high number of EVs per public charging point compared with other countries, at 76 per public charging point as of 2024 (compared with 33 in the United States, 28 in Canada, 25 in the United Kingdom and 13 in the European Union³⁰). Regional areas also have fewer public charging stations compared to cities. In Western Australia where there are large distances between towns, this can exacerbate range anxiety due to uncertainty about accessing a charging station when needed³¹.

To make it easier to charge an EV away from home:

- » Action and additional investment is needed to fill network gaps and install charging infrastructure in the areas where it is, and will be, needed most. For example, public charger provision in regional areas can present additional challenges where commercial charge point operators struggle to recover costs due to lower public charger utilisation rates. Regional electricity grids may also be unable to accommodate the power demands of new charging stations without capacity being expanded first³². Government delivery and/or incentivisation plays an important role in these locations to ensure geographical coverage and equitable access.
- » While government is investing in public charging infrastructure, there are still large areas without public charger access in WA. The WA EV Network comprises 110 charging points in 49 locations across the state including isolated locations where chargers are supported by standalone power systems³³. The Australian Government is building a national network of fast EV chargers, partnering with the NRMA to deliver 117 EV chargers on key highway routes connecting all capital cities, with a view to installation at an average distance of 150km apart, including nearly 30 sites proposed for WA. Site selection for new EV chargers will target known blackspots and prioritise regional and remote communities³⁴. However, inland routes in WA away from the government EV charging networks (such as Brand Highway and Great Northern Highway) were highlighted multiple times in the survey as lacking adequate charging infrastructure and are examples of where government intervention may be needed.
- » Government has an important role in providing financial support for the provision of public charging infrastructure and/or not prematurely withdrawing existing financial supports. The WA Government should extend its Charge Up Grants scheme. The grants co-fund up to half the cost of purchasing and installing EV chargers by not-for-profits, small businesses and local government authorities through the installation of up to four EV chargers per site and up to five sites per applicant. These can be public DC chargers, destination chargers or workplace chargers, intended to capture locations where people are likely to spend time during the day in order to encourage daytime charging when solar power is most abundant. The third round of grant funding closed on 30 June 2025³⁵. Conservative grant uptake has seen the expenditure of \$4.5 million in the first two funding rounds out of a total scheme budget of \$15 million³⁶. An extended scheme could help boost the installation of chargers, for example by increasing the amount of installation funding offered or expanding applicant eligibility in instances where the charger is publicly available (e.g. at major shopping centres).
- » The WA and Australian Governments should improve amenities at existing and proposed public chargers within state/national EV charging networks, for example lighting, CCTV and shelters.
- » Governments and industry should improve and/or invest in the operational availability (“uptime”) of existing public chargers. For charge point operators this could mean real time monitoring of charger performance, provision of live status updates to users, and conducting regular scheduled (rather than reactive) maintenance. Australia recently introduced minimum operating standards for government-supported public EV charging infrastructure that establish standards for annual uptime (reliability of operations), connector and payment types, site accessibility and safety³⁷. Governments should consider whether a stronger legislated approach is needed that could include uptime guarantees, monitoring to check that chargers are meeting minimums, and financial penalties for non-compliance. It could also mean offering financial support for infrastructure that enhances the consumer experience (e.g. platforms that provide EV drivers with real-time charger availability information).



4. Most driver requirements can be met by EVs but two car households can hedge their bets

- » Half (50%) of the EV owners surveyed only own an EV but the other half (50%) also own at least one ICE vehicle.
- » For the EV owners who also own an ICE vehicle, the main reasons given for using their ICE vehicle in place of an EV are:
 - > **Practical** (where ICE vehicles are used for towing, transporting bulky items, offroad driving, and in households where the ICE vehicle is used exclusively by another family member)
 - > **Necessary** (where ICE vehicles are used if EV infrastructure is lacking such as on long journeys and in remote areas with limited charging facilities), and/or
 - > **Preferred** (in situations where specific configurations/uses have limited options in EVs such as convertible cars or classic cars driven for pleasure).

EV hesitancy

Earlier research has found that barriers to purchasing an EV include perceived limitations relating to vehicle practicality and suitability for offroad and rural conditions³⁸. However, the experience of half of EV owners in this survey without an ICE vehicle has been that their EV meets all their requirements. Contrary to the perception that it is not worth considering the purchase of an EV because offroad/heavy lifting tasks are not possible, the survey found that EV owners in households with more than one vehicle can easily manage this by using their EV as a primary vehicle and switching to an existing ICE vehicle for any (as yet) unmet functionality.

It is important to note that gaps in functionality are reducing as EVs continue to evolve and new models are progressively coming onto the market (prompted also by the NVES). There are now electrified utes and large SUVs available in Australia and more new models are expected from 2025 that will increase the choices available to EV drivers requiring increased towing, bulk transport/people moving and/or offroad driving capabilities. Owners' actual experience also suggests that the majority of trips are well within the average range for an EV on a single charge. While this varies by battery size, current EV models have a driving range of around 400km with some new models reaching over 600km³⁹.

To increase confidence in EVs:

Governments and industry should address common misperceptions that might be contributing to EV hesitancy and reliance on ICE vehicles as a fallback:

- » Raising awareness of EV capabilities through community education and highlighting the positive experiences of EV owners might help to address practicality concerns.
- » Improved availability and reliability of public charging infrastructure (see above) may also help to combat range and charger concerns on longer journeys and trips outside of the metropolitan area.
- » For households that have more than one vehicle⁴⁰, reinforcing the message that there is little to no risk in replacing one of the cars with an EV given that EVs meet most driver's requirements and any gaps in functionality are rapidly diminishing.



References

- Survey of 380 RAC members in October 2024 found that 47 per cent of those who would consider purchasing an ICE vehicle but not an EV for their next purchase said they believed the cost was too high. The Australian Automotive Dealer Association (AADA) similarly found in their survey of 2,000 Australian drivers in November 2024 that the strongest barrier to considering an EV is the perceived purchase price being 'too high' (55 per cent of respondents) (See: [2024-AADA-Wave-3-EV-Research-Report-V2.pdf](#)) (accessed on 5 June 2025).
- The RAC's survey in October 2024 found that 53 per cent do not believe EVs are more environmentally friendly than an ICE vehicle. The AADA also found a declining belief that EVs are 'better for the environment' (falling from 67 per cent in January 2024 to 58 per cent in November 2024).
- International Energy Agency (2025). 'Trends in electric car markets' from Global EV Outlook 2025. Available at: Trends in electric car markets - [Global EV Outlook 2025 - Analysis - IEA](#) (accessed on 5 June 2025).
- Australian Government Department of Infrastructure, Transport, Regional Development, Communications and the Arts (2025). 'New Vehicle Efficiency Standard'. Available at: [Information for drivers | Department of Infrastructure, Transport, Regional Development, Communications and the Arts](#) (accessed on 15 May 2025).
- Electric Vehicle Council (2024). State of Electric Vehicles 2024. Available at: [State of EVs 2024 - Electric Vehicle Council](#) (accessed on 27 May 2025).
- National Transport Commission (December 2024). Light vehicle emissions intensity in Australia: trends over time. Available at: [Light vehicle emissions intensity in Australia: trends over time. Research Report, December 2024](#) (accessed on 27 May 2025). The NTC found that the WA government had among the lowest percentage (11 per cent) of electric or hybrid vehicles as a proportion of vehicle purchases in 2023 compared to other states/territories (in contrast, the ACT government had the highest percentage share (40 per cent)).
- WA Government Department of Water and Environmental Regulation (2020). State Electric Vehicle Strategy. Available at: [State Electric Vehicle Strategy for Western Australia O.pdf](#) (accessed on 5 June 2025).
- WA Government Department of Water and Environmental Regulation (2023). Sectoral emissions reduction strategy for Western Australia. Available at: [Sectoral emissions reduction strategy for Western Australia](#) AND Department of Finance [EV Target FAQs](#) (accessed on 5 June 2025).
- Electric Vehicle Council (2024). State of Electric Vehicles 2024. Available at: [State of EVs 2024 - Electric Vehicle Council](#) (accessed on 27 May 2025).
- Hon. Sue Ellery, MLC, Minister for Finance (16 April 2024). Electric Vehicle Strategy, WA Legislative Council Question on Notice No. 1943, pp1412. Available at: [www.parliament.wa.gov.au/hansard/daily/uh/2024-04-16/pdf/download](#) (accessed on 9 June 2025). The state government fleet EV target only captures passenger vehicles and small/medium SUVs based in the Perth metropolitan area and excludes WA Police Force vehicles and vehicles leased to officers remunerated under the Salaries and Allowances Tribunal determinations.
- Australian Government Department of Finance (2025). 'Low Emission Vehicle (LEV) Target'. Available at: [Low Emission Vehicle \(LEV\) Target | Department of Finance](#) (accessed on 5 June 2025).
- Electric Vehicle Council (2024). State of Electric Vehicles 2024. Available at: [State of EVs 2024 - Electric Vehicle Council](#) (accessed on 24 July 2025).
- Hagon, R. (March 2025). 'The FBT exemption on electric vehicles'. Available at: [How the Fringe Benefits Tax Exemption on Electric Cars Works | RAC WA](#) (accessed on 28 May 2025).
- Novated Lease Australia (2025). 'Novated lease residual value'. Available at: [Novated Lease Residual Value \(ATO Guidelines 2025\) | NLA](#) (accessed on 24 July 2025).
- Australian Taxation Office (2024). 'Electric cars exemption'. Available at: [Electric cars exemption | Australian Taxation Office](#) (accessed on 25 July 2025).
- BEVs made up 6.3 per cent of all new Australian car sales in the first three months of 2025 to 31 March, a fall from 74 per cent in the December quarter of 2024. Information sourced from AAA (May 2025). 'BEV, ICE sales fall as hybrids and plug-ins accelerate'. Available at: BEV, [ICE sales fall as hybrids and plug-ins accelerate - Australian Automobile Association](#) (accessed on 23 May 2025).
- Queensland Government (2023). 'Vehicle registration duty rates'. Available at: [Vehicle registration duty rates | Transport and motoring | Queensland Government](#) (accessed on 25 July 2025).
- Northern Territory Government (2025). 'Get registration and stamp duty concessions for electric vehicles'. Available at: [Get registration and stamp duty concessions for electric vehicles | NT GOV.AU](#) (accessed on 25 July 2025).
- Assumptions based on 2021 grid mix (which is 0.68kg CO₂e/kWh). See: [National Greenhouse Accounts Factors - August 2021](#)
- RAC (2024). Understanding the environmental impact of our vehicles. Available at: [19609policy-researchenvironmental-impacts-of-vehiclesdocebook.pdf](#) (accessed on 20 March 2025).
- Australian Government Clean Energy Regulator (2025). 'Cheaper Home Batteries Program'. Available at: [Cheaper Home Batteries Program | Clean Energy Regulator](#) (accessed on 24 July 2025).
- To be eligible for the rebate, households must participate in a Virtual Power Plant. This means batteries must be capable of sharing stored energy, which can assist with grid stability and offer financial benefits to participating households when stored energy is sold back to the market. The WA scheme also complements but not does not limit the funding available from the Australian Government's program so further federal rebate could apply to batteries larger than 10kWh. See: Energy Policy WA (2025). 'WA Residential Battery Scheme'. Available at: [WA Residential Battery Scheme](#) (accessed on 1 July 2025).
- Hon Roger Cook MLA, Premier of Western Australia (20 June 2025). 'Budget investment to support a battery industry that is Made in WA'. Media Statement. Available at: [Budget investment to support a battery industry that is Made in WA | Western Australian Government](#) (accessed on 1 July 2025).
- Energy Source Distribution (12 November 2024). 'Vehicle-to-grid charging gets regulatory green light'. Available at: [Vehicle-to-grid charging gets regulatory green light](#) (accessed on 14 April 2024).
- Australian Government, Australian Renewable Energy Agency (12 February 2025). National Roadmap for Bidirectional EV Charging. Available at: [National Roadmap for Bidirectional EV Charging](#) (accessed on 14 April 2025).
- The NSW grants scheme co-funded 80 per cent (up to \$80,000 per building) of eligible infrastructure costs. The scheme was limited to \$10 million in funding and new applications had to be paused due to high demand. See: NSW Climate and Energy Action (2023). 'Electric Vehicle Ready Buildings'. Available at: [Electric vehicle ready buildings | NSW Climate and Energy Action](#) (accessed on 28 May 2025).
- Longden, T. (2024). Driving change by supporting electric vehicle ready apartments. APPI Policy Insights Paper. Available at: [APPI-Policy-Insights-Paper-Driving-Change-by-supporting-electric-vehicle-ready-apartments.pdf](#) (accessed on 28 May 2025).
- Landgate (2025). 'Five year review of WA's strata law'. Government of Western Australia. Available at: [Five year review of WA's strata law | Landgate](#) (accessed on 24 July 2025).
- The RAC's survey of 380 members in October 2024 found that the lack of sufficient charging infrastructure, especially for long distances and in regional areas, is a barrier to purchasing an electric or hybrid vehicle.
- International Energy Agency (2025). 'Electric vehicle charging' from Global EV Outlook 2025. Available at: [Electric vehicle charging - Global EV Outlook 2025 - Analysis - IEA](#) (accessed on 28 May 2025).
- Calo, D. (12 July 2024). 'The Regional Recharge: how Level 2 EV chargers can boost Australia's hidden gems'. Available at: [https://evmojo.com.au/electric-vehicles-in-regional-australia/](#) (accessed on 6 June 2025).
- Calo, D. (12 July 2024). 'The Regional Recharge: how Level 2 EV chargers can boost Australia's hidden gems'. Available at: [https://evmojo.com.au/electric-vehicles-in-regional-australia/](#) (accessed on 6 June 2025).
- WA Government (30 January 2025). 'WA takes the wheel with EV network plugged in and charged up'. Media statement. Available at: [WA takes the wheel with EV network plugged in and charged up | Western Australian Government](#) (accessed on 24 March 2025).
- Hon Chris Bowen MP (26 April 2023). 'Electric vehicle charging network to connect all of Australia'. Media statement. Available at: [Electric vehicle charging network to connect all of Australia | Ministers](#) (accessed on 24 March 2025).
- WA Government (25 March 2025). 'Charge Up EV Charging Grants'. Available at: [Charge Up EV Charging Grants](#) (accessed on 31 March 2025).
- WA Government (2024). 'Charge Up EV Charging Grants - Previous Rounds'. Available at: [Charge Up EV Charging Grants - Previous Rounds](#) (accessed on 6 June 2025).
- Australian Government Department of Climate Change, Energy, the Environment and Water (2024). Minimum Operating Standards for Government-supported Public Electric Vehicle Charging Infrastructure - Guidance Document. Available at: [Report template](#) (accessed on 1 April 2025).
- The RAC's survey of 380 members in October 2024 found that nearly half (43 per cent) of those who would consider purchasing an ICE vehicle for their next purchase but not an EV believed that an EV would not do what they need it to do (e.g. tow a caravan). Other barriers to purchasing an EV included perceived unsuitability for offroad and rural conditions.
- Electric Vehicle Council of Australia (2024). 'Do EVs have enough driving range?'. Available at: [Do EVs have enough driving range? - Electric Vehicle Council](#) (accessed on 18 March 2025).
- According to the 2021 ABS Census of Population and Housing, 57 per cent of households in WA had access to two or more motor vehicles. See: [Number of cars per household | Western Australia Parliamentary Library | Community profile](#) (accessed on 29 May 2025).



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