







Executive Summary

This report presents the findings from the 2024 EV Ownership Survey, a collaborative effort by the Institute of Transport and Logistics Studies (ITLS) at the University of Sydney and the Electric Vehicle Council (EVC). Drawing on responses from over 1,500 EV owners across Australia, the survey offers insights into purchase considerations, charging behaviours, and travel patterns, aimed at fostering consumer awareness, driving industry growth, and informing policies for the future of sustainable transport in Australia.

Key Findings

Motivations for EV Adoption



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Environmental impact and cost savings remain the primary drivers for EV adoption.

Charging Accessibility and Patterns

While most EV owners rely on home charging, public and workplace charging options are essential for flexibility, especially for those without home access.



Travel Trends



EVs are predominantly used for short, daily trips, though there is a clear demand for reliable charging infrastructure to support longer journeys.

As Australia remains in the early stages of the EV transition, these findings help illustrate the importance of continued investment in infrastructure, supportive policy settings, and ongoing consumer education to enable a transition to mainstream EV adoption.

Background/Methodology

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The EVC and ITLS have partnered to conduct a survey with the goal of understanding and tracking evolving trends in EV ownership in Australia. The aim was to gather comprehensive, up-to-date insights on EV ownership in Australia, covering topics such as purchase considerations, charging behaviours, and travel patterns. This survey forms part of an ongoing project to monitor and understand the evolving landscape of EV ownership, supporting data-driven policy and industry decisions to accelerate the shift to sustainable transport.

- A total of 1,506 EV owners participated in the survey, providing a broad view of EV experiences across the country. Respondents included both Battery Electric Vehicle (BEV) and Plug-in Hybrid Electric Vehicle (PHEV) owners. The survey sample was distributed across Australia's states and territories, and aimed to capture both urban and regional/rural perspectives.
- In addition to the primary group of EV owners, the survey included targeted questions for non-EV owners. While these responses (approximately 250 responses) are not captured in this report, they will be considered in future reports to provide a comparative perspective on EV ownership and broader consumer attitudes toward electric vehicles.
- The survey was administered through the Qualtrics platform between March and April 2024. The questionnaire was designed to capture key metrics across various themes, including vehicle characteristics, ownership duration, travel and charging patterns, financial considerations, and demographic information. Tailored branching logic ensured that respondents answered only the questions relevant to their specific experiences.
- This structured approach allowed for the collection of both quantitative and qualitative data, enabling a comprehensive analysis of current EV ownership patterns in Australia.
- The insights from this survey serve as a foundational dataset to support
 ongoing analysis of the EV market's evolution in Australia. Follow-up surveys
 are planned to track changes over time, providing insight into technological
 advancements, infrastructure development, policy changes, and evolving
 consumer preferences.

Ev Ownership Profiles

Demographics

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Household Composition

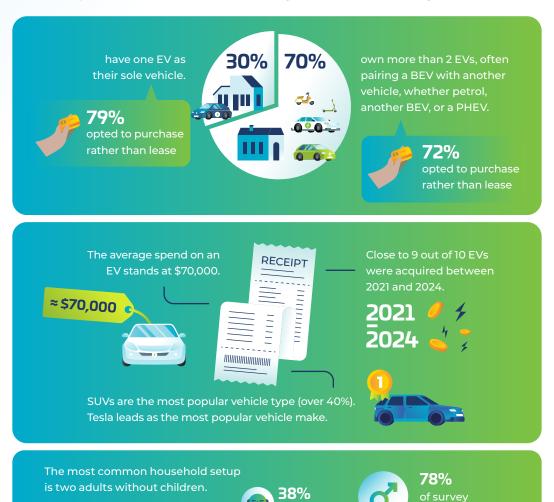
30% of surveyed households have one EV as their only vehicle, while 70% own multiple vehicles, typically pairing an EV with another powertrain, such as a petrol or hybrid model.

Ownership Patterns

The majority of EVs (close to 90%) were acquired between 2021 and 2024, with most households choosing to purchase their EV rather than lease. The average spend on an EV was approximately \$70,000.

Age & Gender

78% of respondents are male, with 47% aged 40-59 and 38% aged 60 or older.



aged 40-59

aged 60+

70%

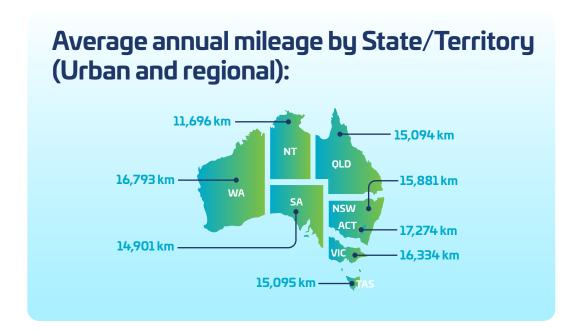
of the surveyed EV owners

Travel Patterns and Usage

Distance Travelled

Urban EV owners reported an average annual mileage of 15,205 km, while those in rural areas travel more extensively, averaging 19,126 km per year.

What this indicates is that EVs are being used as a primary vehicle rather than a back-up vehicle – with owners finding EVs more than meet their driving needs.



Journey Types

As with most passenger vehicles, most EV driving occurs close to home – EVs are mainly used for short, daily trips.

Medium distances (up to 150km) are generally taken once a week or monthly by a significant portion of owners.

Longer trips over 150km are less frequent, with 30% of owners making trips over 150 km once every three months, and 25% doing so monthly.

The insights gathered help indicate that for existing EV owners, range anxiety is not a barrier to taking a road trip - the average longest journey for respondents was 500 km.



Purchase Considerations and Drivers for Adoption

Cost and Environmental Factors

Financial Savings

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Over 75% of respondents reported fuel savings exceeding 60% compared to their previous petrol or diesel vehicles. EV owners with solar panels benefit further from operating cost savings.

Out of a subset of EV owners asked about their home charging during a given week prior to filling out the survey, households with access to solar panels spend, on average, 33 % less on home charging.

Environmental Impact

Environmental benefits were a significant factor, particularly for single-vehicle households, where sustainability considerations played a notable role in the decision to adopt an EV.

Government Incentives

Incentive Uptake

4 in 10 respondents received government incentives, though interestingly, 50% of these stated they would have chosen to adopt EVs regardless.





Charging Behaviour

This section explores charging behaviours across different settings, including home, workplace, and public charging facilities.

Home Charging

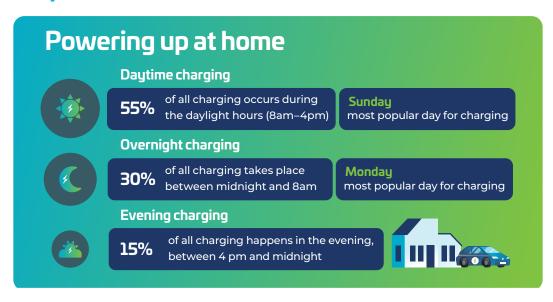
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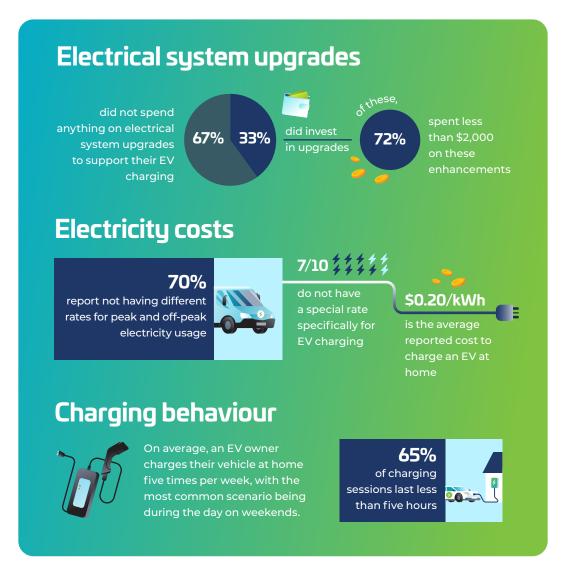
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The vast majority (92%) of EV owners can charge at home, with 80% of these households using solar panels. Approximately half of home-charging households have dedicated EV chargers, while others rely on slower trickle charging.



EV owners able to charge at home were asked to complete a series of questions about their charging behaviour in the week prior to completion of the survey.





The EVC has published a guide to help EV owners find the best electricity plans for home charging in each state. This resource is particularly useful for those whose household electricity bills include a breakdown of EV charging costs. Check it out here.

Workplace Charging

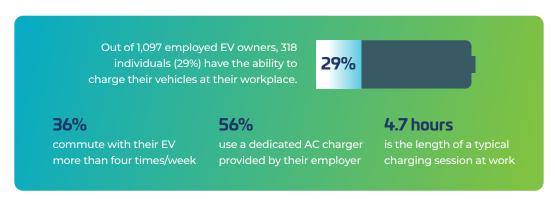
For frequent commuters, workplace charging is valuable, particularly for those without the option to charge at home.

Access and Usage

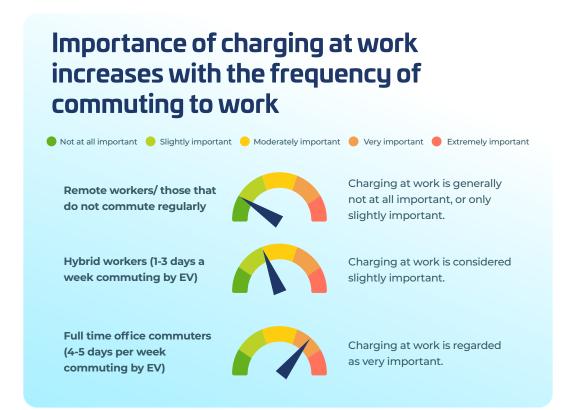
Around 29% of employed respondents have access to workplace charging, with 36% of these individuals commuting four or more times per week.

Charging Duration and Setup

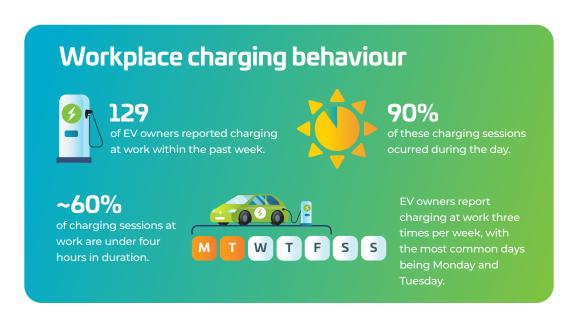
Workplace charging sessions average around 4.7 hours, with 56% of EV owners using dedicated AC chargers provided by their employers.

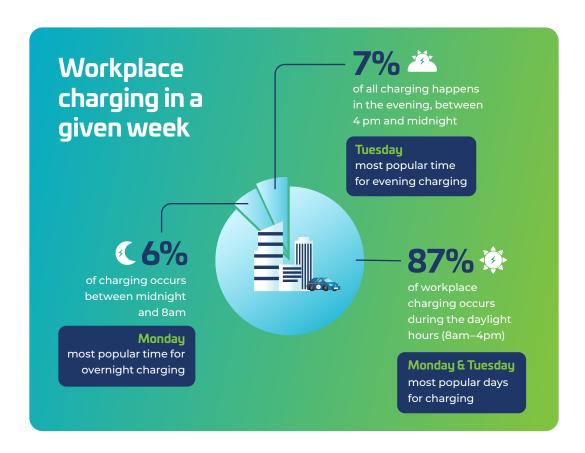






EV owners that are able to charge at work were asked to respond to a series of questions about their charging in the week prior to the survey.





Public Charging

The convenience and cost-effectiveness of public charging options remain significant for EV owners, especially for those without home or workplace charging access.



Utilisation of Public Charging



>85%

of respondents make regular use of public charging infrastructure, reflecting its key role in supporting EV ownership.





report relying solely on AC chargers.

use a combination of A and DC fast chargers.

prefer using dedicated DC fast chargers.



50 minutes

is the average duration of public charging session, regardless of the technology used.

Importance of availability of public chargers depends on whether or not you can charge at home.

Not at all important Slightly important Moderately important Very important Extremely important

EV owners that can charge at home (most respondents)



For those that charge at home, availability of public charging still remains **moderately/very important**

EV owners that cannot charge at home



For those that cannot charge at home, 70% noted the importance of public charging was **moderately or extremely important** to their decision to get an EV.

Charging session duration and cost

Combination Charging

AC Charging

On average, AC charging sessions last 80 minutes and cost \$8. For those that report a combination of AC and DC charging, the average session lasts ~56 minutes, costing around \$15.

DC Fast Charging

DC fast charging sessions are shorter, averaging 37 minutes, but come at a higher cost of approximately \$18.

EV owners were surveyed about their use of public charging stations during the week prior to completing the survey. The data highlights common charging times and usage patterns, which vary by location type:

Destination Chargers

Primarily used during the day and evening, with Friday being the most popular day for charging sessions lasting between 1–2 hours.

Supermarket Chargers

Typically used during daytime hours on weekdays, with most sessions lasting less than an hour.

Other Public Charging Stations

Often used during the daytime on weekends, with charging sessions generally lasting under an hour.

	Time of day	Day of week	Duration
Destination chargers	Day time/ evening	Friday	1–2 hours
Supermarkets	Day time	Weekdays	<1 hour
Other public charging stations	Day time	Weekends	<1 hour

Conclusion

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This collaboration between the EVC and ITLS seeks to provide a reliable data source on owner profiles, usage patterns, and charging behaviours, providing industry and government stakeholders with actionable insights to improve infrastructure, shape policies, and support consumer needs as the EV transition progresses.

In future surveys and reports, we aim to explore seasonal and situational changes, particularly:

- Summer Road Trips: Evaluating public charging accessibility and user experiences during peak travel times.
- Infrastructure Needs: Assessing how charging demands fluctuate across journey types and distances, highlighting potential gaps in charging availability.





