

Electric vehicles do they stack up?



A Beyond Zero Future
for South East NSW

EVs are great to drive!

Electric cars are easy to drive—there are no gears to worry about, so you get in, press the start button, choose Drive on the selector and press the accelerator.

The motor spins in one direction to go forwards, and the other to go backwards. But there's more—it's simple to speed up, but there's an even better design for slowing down again. Whenever you lift your foot off the accelerator or push the brake pedal, the car not only slows down, but also tops up the battery. Many drivers find they only need to use the brake pedal for parking.

The responsiveness of an electric motor means that even the smallest electric car can be fun to drive. No need to climb through the gears, the power is available immediately. When already moving, electric cars have good pick up. They're easier than conventional cars to drive in stop-start traffic, so they're particularly good for city driving.

Might you be worried about losing storage or passenger space to a battery, as you do with an LPG bottle? No problem, the battery is placed down low under the floor, between the axles, and the weight keeps the centre of gravity low. Suspension can be softer than usual, giving a comfortable ride and good handling.



Electric motors are notably a great deal quieter than their petrol equivalents—so quiet that manufacturers will have to add some noise back in to alert pedestrians that they're coming! That makes for a much less stressful driving experience, particularly on a long trip.

Source: <https://www.lv.com/car-insurance/what-is-an-ev-like-to-drive>

EVs make Financial Sense

- Running cost of your EV always charged from the grid is **70% lower** than for an equivalent petrol car travelling 15,000 km/yr (approximately **\$1000 vs \$3,500**).
- You can better that. If always charged from roof-top solar, your EV **running cost is up to 85% lower** than its petrol equivalent.
- Combining roof-top solar with an EV will typically put close to **\$4,000 back in your pocket annually**.
- That's **\$40,000 over ten years!** That more than covers the higher EV purchase price **and** roof-top solar installation cost.

Range anxiety? Where can I recharge?

NSW Electric Vehicle Strategy goes a long way to fix this:

- \$171 million to build a state-wide ultra-fast charging network.
- grants to regional businesses to install chargers to attract EV tourists

Plus the new NSW Electric Vehicle Strategy:

- gives purchase rebates of \$3000
- phases out stamp duty on EVs
- incentivises fleet operators.

EVs will help save the planet

- Charging your EV from rooftop solar cuts your CO2 emissions by **4 tonnes** from the solar plus **3 tonnes** from the EV - every single year.
- Just from these two measures, an **average Australian** can reduce **their annual 20t of emissions by a third**.

Would you like to do more?

Currently, Federal Government policy stands between motorists and HUGE fuel savings. Ask your representative to:

- Remove 5% import tariffs on EVs
- Set a target that 50% of new car sales are EVs by 2030
- Tighten vehicle emissions standards and prevent 3,000 deaths each year, caused by air pollution. (Source Australian Institute of Health and Welfare)
- Switch Australia's transport industry towards locally generated electricity rather than imported petroleum.