

Emissions Reduction Fact Sheet – Transport

Automotive emissions account for almost 40% of all community emissions within the City of Charles Sturt and private vehicle use accounts for 97% of those emissions, with the remainder attributed to public transport (rail and bus) and motorcycles. Residents and businesses can have a significant impact on emissions reduction by reconsidering the way they travel from place to place with the following initiatives:

1. Walking and Cycling

Utilising the network of footpaths and bike lanes, including the Linear Park Trail alongside the River Torrens, for commuting to work and getting around will have health and wellbeing benefits, alongside zero fuel and maintenance costs and zero emissions.

2. Electric Vehicles

Transiting combustion vehicles to electric options will drastically reduce emissions associated with transport. Electric vehicles attract a 50-70% emission reduction when charged from the grid and up to 100% when charged from rooftop solar PV. EVs are predicted to be the same price as their petrol counterparts in 2026, and 20% cheaper by 2030. As Governments work towards Net Zero goals, rebates and green loan schemes are likely to incentivise the transition.

EVs also cost far less in fuel and maintenance and there are more than 140 charging sites across South Australia, including 6 JOLT EV charging sites along Port Road, offering free charging for the first 7kWh (15mins or around 45km range) every day. JOLT chargers are powered by 100% renewable energy.

3. Low Emission Vehicles

Hybrid electric vehicles attract 20-30% emissions reduction compared to an equivalent vehicle. The type of vehicle also has an impact, for example the Toyota Corolla produces 65% less emissions than the Toyota Hilux per km. The Green Vehicle Guide (see resources section) is an Australian Government Initiative that provides emissions and cost comparison on vehicles to assist buyers in selecting sustainable transport options.

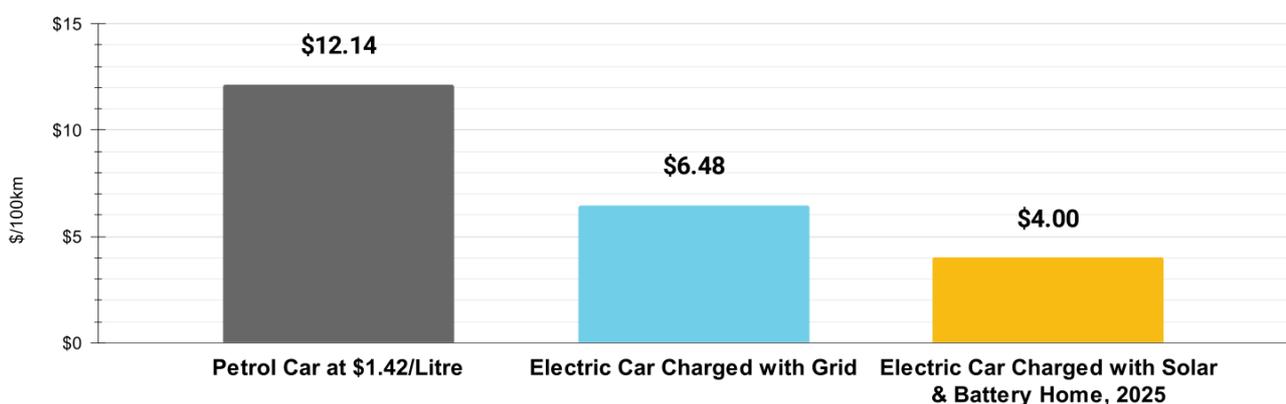
4. Public Transport

Moving people around 'en masse' is efficient and attracts a 40-50% emissions reduction compared to private vehicle transport. Emissions reduction is increased when more people utilise public transport and trials are underway in Adelaide for hybrid and fully electric buses.

5. E-Bikes and E-Scooters

For journey's that a too long to walk or cycle, assisted E-bikes or E-scooters could be used, which have very low emissions.

Cost Per 100km - Electric Vehicle versus Petrol Vehicle - Mid-Size Car



6. Smart working

Businesses can consider smart ways of working to reduce emissions associated with transport. Implementing 'working from home' policies and encouraging carpooling or providing incentives to use public transport, walking and cycling to work, can reduce emissions associated with commuting each day. Upgrading company fleet vehicles to electric options or conducting meetings and interactions online or over the phone, rather than in-person, will reduce emissions associated with business activity.

Low-Cost Quick Wins

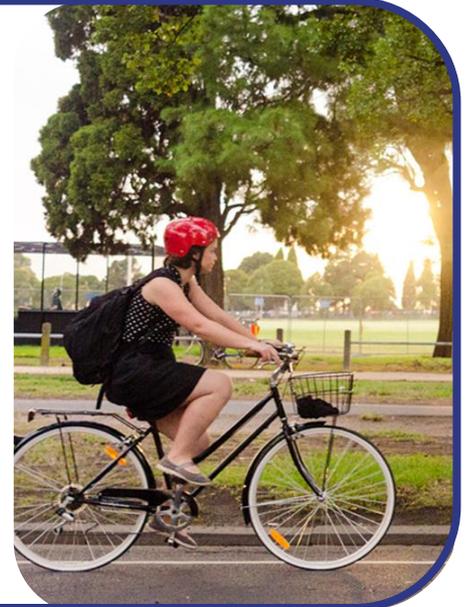
- Walk or cycle
- Catch public transport
- Use E-Scooters or E-Bikes
- Carpooling
- Implement 'working from home' policies
- Conduct business activities online or over the phone

EXAMPLE: Daily commute to Adelaide CBD from City of Charles Sturt, based on average 16km journey. (Semaphore Park to Victoria Square)

Cycling: 50 minutes, Zero emissions. Faster with an E-Bike and only 48g of CO₂-e emissions. Potential to reduce emissions by 1.5tonnes CO₂-e per person annually.

Bus: 55-65 minutes, 1,500g CO₂-e emissions. Potential to reduce emissions by more than 0.75tonnes CO₂-e per person annually.

Private Car: Up to 45minutes (impacted by traffic congestion). Average SUV (45% of new vehicle car sales) 3,200g CO₂-e emissions. Potential to reduce emissions by 1.5tonnes CO₂-e per person annually switching to fully electric vehicle charged with rooftop solar.



More Resources

Rewiring Australia
<https://www.rewiringaustralia.org/>

RAA EV Charging Network
<https://www.raa.com.au/motor/motoring-services/ev-charging-network>

Green Vehicle Guide
<https://www.greenvehicleguide.gov.au/>

Chargefox / JOLT
<https://www.chargefox.com/>
<https://jolt.com.au/>

