

How electric vehicles charge

Most owners charge their electric vehicles (EVs) at home, usually from a 240 volt, 15 amp powerpoint.

When going on extended trips, they need access to someone else's powerpoint to recharge. At the moment there are few publicly available opportunities to recharge 'on the road'.

Charging from a 15 amp powerpoint gives the vehicle 10-20 km of range for each hour of charging for an electricity cost of about 50¢ to \$1 per hour, depending on the electricity tariff that applies.



All you need is a 15 amp powerpoint

One or more 15 amp powerpoints will provide basic recharging capability at minimal cost. Some cars can also use 32 amp 3 phase outlets.

Dedicated EV chargers are also available at greater cost. A dedicated charger can charge more quickly and distinguish you from competitors. Tesla may provide chargers suitable for their cars on favourable terms subject to their approval.

AEVA can advise on the costs and pros and cons of these and other options.

Fees for charging

Whether to charge a fee and how much is a decision for each business. We encourage businesses to have a fee for charging.

Some businesses offer free charging as a way of attracting customers. It depends on the value of sales you expect per visitor compared to the cost of electricity and your investment.

While a 15 amp outlet can deliver 50¢ to \$1 per hour, higher power chargers can deliver double, six times, ten times or more, depending on the car and the charger.

EV drivers expect to pay a premium to use faster chargers. But then EV drivers may not spend as long at your business...

Things to consider...

Know your tariff structure and the effect of providing charging on your power costs. AEVA can assist with this.

If installing new conduits or trenching, plan to make it easy to increase capacity in the future.

Make sure the installation is safe.

- Use outdoor rated plugs and fittings.
- The cord connecting the car to the charger should not cross any pedestrian paths or cause a trip hazard.
- Areas where cords will lay should be well drained, clean and firm.

Lighting and shelter will improve amenity.

Consider how to manage access and payment.

Want to know more?

Australian Electric Vehicle Association (AEVA) is a non-profit organisation whose purpose is to provide a forum for social and technical communication, create awareness and provide information in the EV field.

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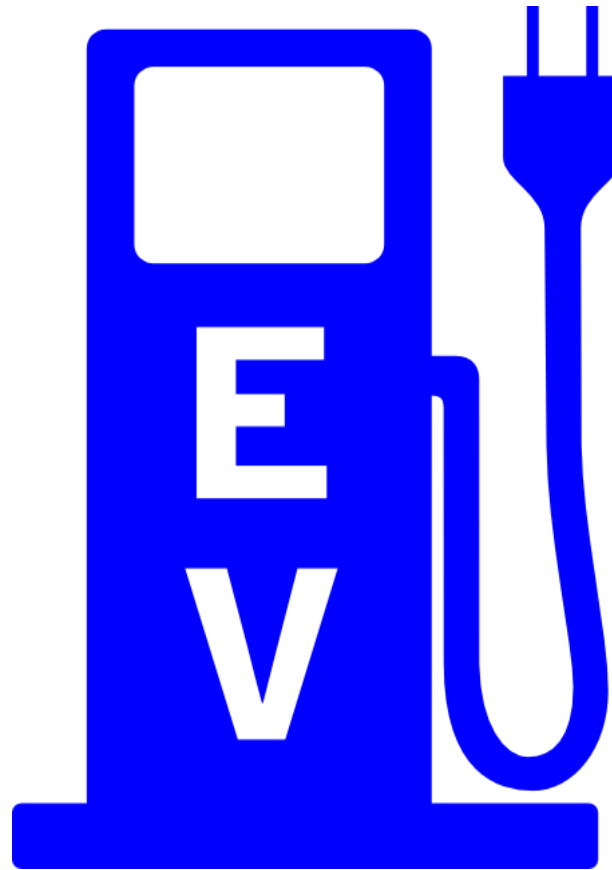
The Australian Electric Vehicle Association uses the free website **Plugshare.com** to promote recharging opportunities, widely used by EV owners.

AEVA will work with you to make a listing, which can include times when access for charging is available (or not), the fee you charge, and promote other services and attractions of your site complete with photos, all at no cost.

The Australian Electric Vehicle Association can provide signs that shows EVs are welcome to recharge and identify permitted charge points.



Electric Vehicle Charging Welcome



Times available: _____

Fee: _____

Electric vehicles and your business

Electric vehicles (EVs) are starting to be seen on Australian roads. You can attract EV owners to your business by offering EV recharging.



Why host electric vehicle charging?

Raise your business profile and bring traffic. EV owners are generally adventurous with above average income.

Adds to an environmentally sustainable image for your business.

Some modest revenue for a modest investment.

Encourage non-polluting, low carbon travel.

Raise awareness of EVs.

