

# Electric Vehicle Charging Solutions for Businesses

Thank you for your interest in electric vehicle charging at your place of business, this will hopefully help you in your decision making process as it outlines the options you have to attract new customers by providing Electric Vehicle (EV) and plug-in hybrid electric vehicle (PHEV) charging.

## Solutions

### Public Power points

Provide a publicly accessible, 15 amp power point and signage. This method is the cheapest install cost, where it's now up to the EV driver to then provide the cable between the car and the power point.

This is very common in Perth, at multiple City of Perth parking locations. (see pictured)



### Site owner advantages

- Low install costs.
- Location advertised on Recargo.com
- Supports all available EV.
- Increased patronage.

### EV owner advantages




- free

**Cost Estimate:** \$200-\$1000

## Electric Vehicle Supply Equipment (EVSE) with J1772 connector

An Electric Vehicle Supply Equipment (EVSE) is the cable and control box that connects Electric Vehicles to the power grid, in the first option, it was up to the EV driver to bring this device with them, you can also choose to install an EVSE permanently which will add to the convenience of the EV driver and decrease the amount of time required to charge the car.

Current EVSE available in australia:

		
Aerovironment:-	Elektrobay	CT2000 (pictured) and CT500 :- Chargepoint

EV owner advantages

- Faster charging than power point; up to 30Amps

### Access control and billing

For any of the above solutions you can help with recouping the costs of electricity and charging station. This can be done using the EVSE itself (see next section on chargepoint) or by controlling the power supply to the EVSE. For example by putting a switch between the electrical distribution board and the charging station.

An example scenario would be: a customer parks at the charging station, the customer enters store and asks a service person to turn on the charger and possibly pay a fee. The service person then presses button to enable charger. At this point you have recouped some cost of electricity through the charging of a fee and / or the purchasing of other items by the customer. The customer initiates charging if required and continues to shop while the car charges

Site owner advantages

- Lower cost to install than a Chargepoint
- encourages clients inside store

**Cost Estimate:** \$2000-\$5000

## Chargepoint EVSE

Chargepoint deserves a special mention as they are the only company currently in Australia to offer a full charging solution, providing supply, install, maintenance, billing and advertising for your business. The chargepoint model is: you purchase the EVSE you are then provided with a web portal to view how many people used your EVSE, how much electricity they used and to set a price for charging. If you choose to set a price other than \$0 chargepoint customers will be required to prepay for credit to use at your EVSE.

### Site owner advantages

- Continued support from Chargepoint
- Chargepoint takes care of billing and access codes
- Site owner sets price
- Site owner has charge location advertised on website and iPhone and android App and access to chargepoint's advertising network to directly advertise to EV drivers

### EV owner advantages

- faster charging than GPO
- 24/7 access

**Cost Estimate:** \$5000-7000

### Level 3 fast chargers

Level 3 fast chargers come with 3 standards CHAdeMO, SAE combo and Tesla supercharger. The benefit of these fast chargers to the EV driver is that they can do in 30 mins what the above chargers can do in 8 hours. Unfortunately these are expensive with a supplied and installed cost of between \$25 000 and \$80 000. If your company is considering these we recommended read the "Level 3 Charging Stations Factsheet"

### Contact information

Since first publishing this fact sheet I have now formed my own company, if you have more questions please visit my company website: <http://rechargingnsw.com.au/>