



CHARGE HAPPY WITH THE EVUP NETWORK

The EVolution and EVUp guide for
people brand new to electric vehicle
driving and charging

EVOLUTION

EVup

INTELLIGENT INTEGRATED CONNECTED

ELECTRIC VEHICLES ARE NOT COMING... THEY'RE ALREADY HERE



If you're new to the world of EV charging...welcome!

We know that an easy transition to driving and charging is the key to having a great EV experience.

To help break down some of the common jargon, myths and barriers for people new to electric driving, we're pleased to present this info pack.

If we've missed anything you'd like to know, please tell us!

About EVUp:

EVUp is building a network of electric vehicle charging units across Australia and New Zealand. We support the local manufacture of AC charging units, as well as DC units made in Queensland...the only Australian EV charging network to do so.

About EVolution:

Our partner business focuses on residential EV charging, ICE to EV conversions, EV servicing and creating new Australia-made products.

We invite you to join us in accelerating the transition to low-emission transport for cleaner cities & a brighter future.

WHAT DO WE MEAN BY EVS? AN INTRO TO HEVS, BEVS AND PHEVS

What IS an electric vehicle? There are actually three types of cars that often get called 'electric vehicles'...



HEV - Hybrid electric vehicle (no plug)
Eg. Toyota Prius



PHEV - Plug-in hybrid electric vehicle Eg.
Mitsubishi Outlander PHEV



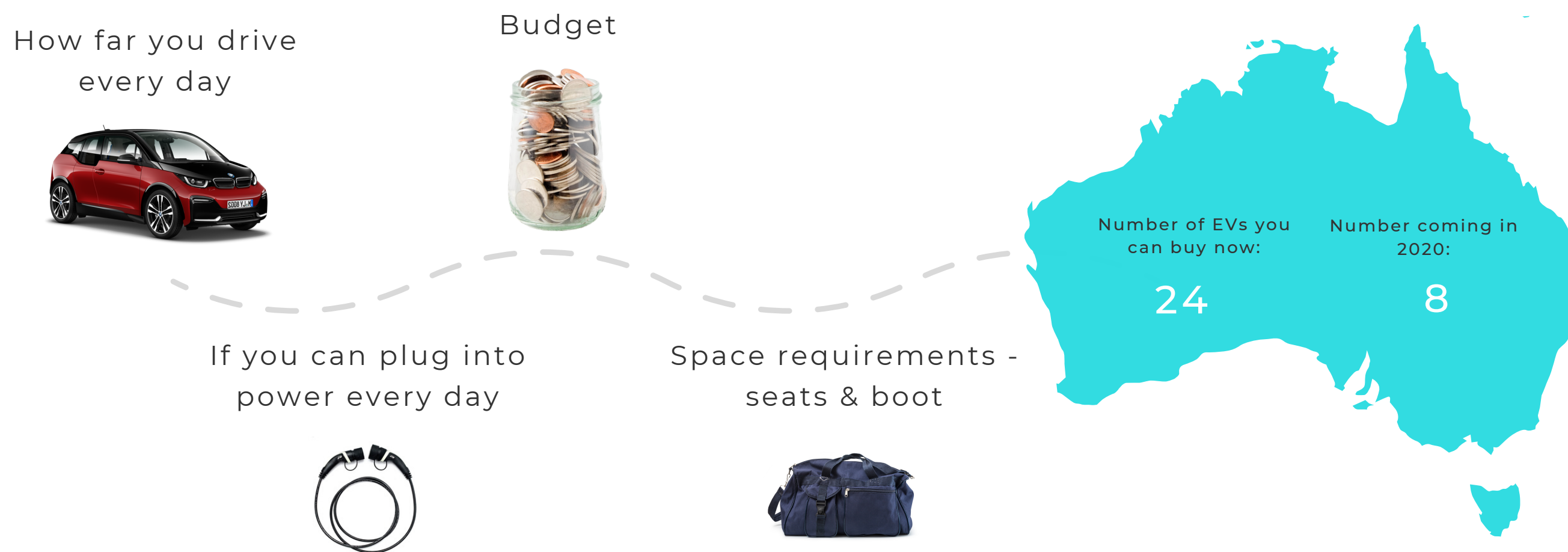
BEV - Battery electric vehicle
Eg. BMW i3

...but, BEVs are really the only true electric vehicle.

Some models - such as the Hyundai Kona or Ioniq - offer models in petrol, PHEV and BEV.

FIRSTLY, THINK ABOUT WHICH EV SUITS YOUR NEEDS

If you're in the market for an EV, there are a wide range on the market...and there are many coming! When thinking about which one is right for you, your business, fleet or family, we recommend you consider:



THE 'ABC' OF EV DRIVING - ALWAYS BE CHARGING

One of the most common concerns people have about driving an EV is running out of charge. We guarantee you'll very quickly get over 'range anxiety'! There are two places you can charge up and two types of chargers.

CHARGE AT HOME

Whenever you're home, you'll quickly get into the habit of plugging in your EV. Contact your power supplier to find out when the cheapest off-peak times are.

CHARGE IN PUBLIC

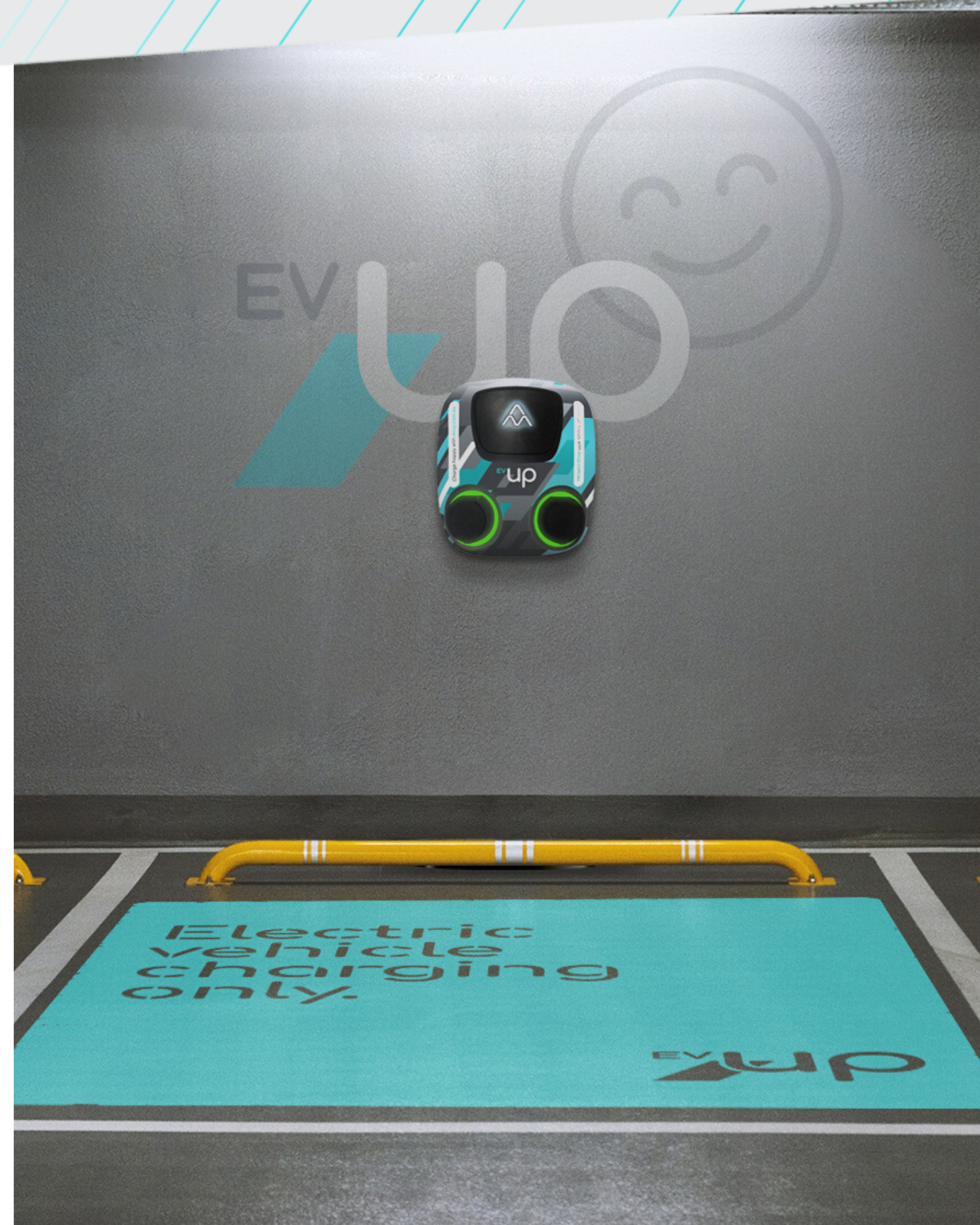
Charging infrastructure is being rolled out across Australia. You can access it by downloading the PlugShare app which lists every publicly available point.

AC EV CHARGING

Slower charging that you'll often find in locations such as shopping centres or workplaces. Usually free to charge. Depending on your EV, adds 30-40kms per hour.

DC EV CHARGING

Faster charging, often found on major city-regional centre routes. Usually a charge per kWh. Depending on your EV, adds up to 100kms per hour.



HOW TO MAKE EV DRIVING AS EASY AS POSSIBLE

There are some simple things you can do to make your EV driving even easier.

DOWNLOAD PLUGSHARE

The PlugShare app is a global map of every public and private charging point available to EV drivers, globally. Essential for public charging.

LOOK AT A BETTER ROUTE PLANNER

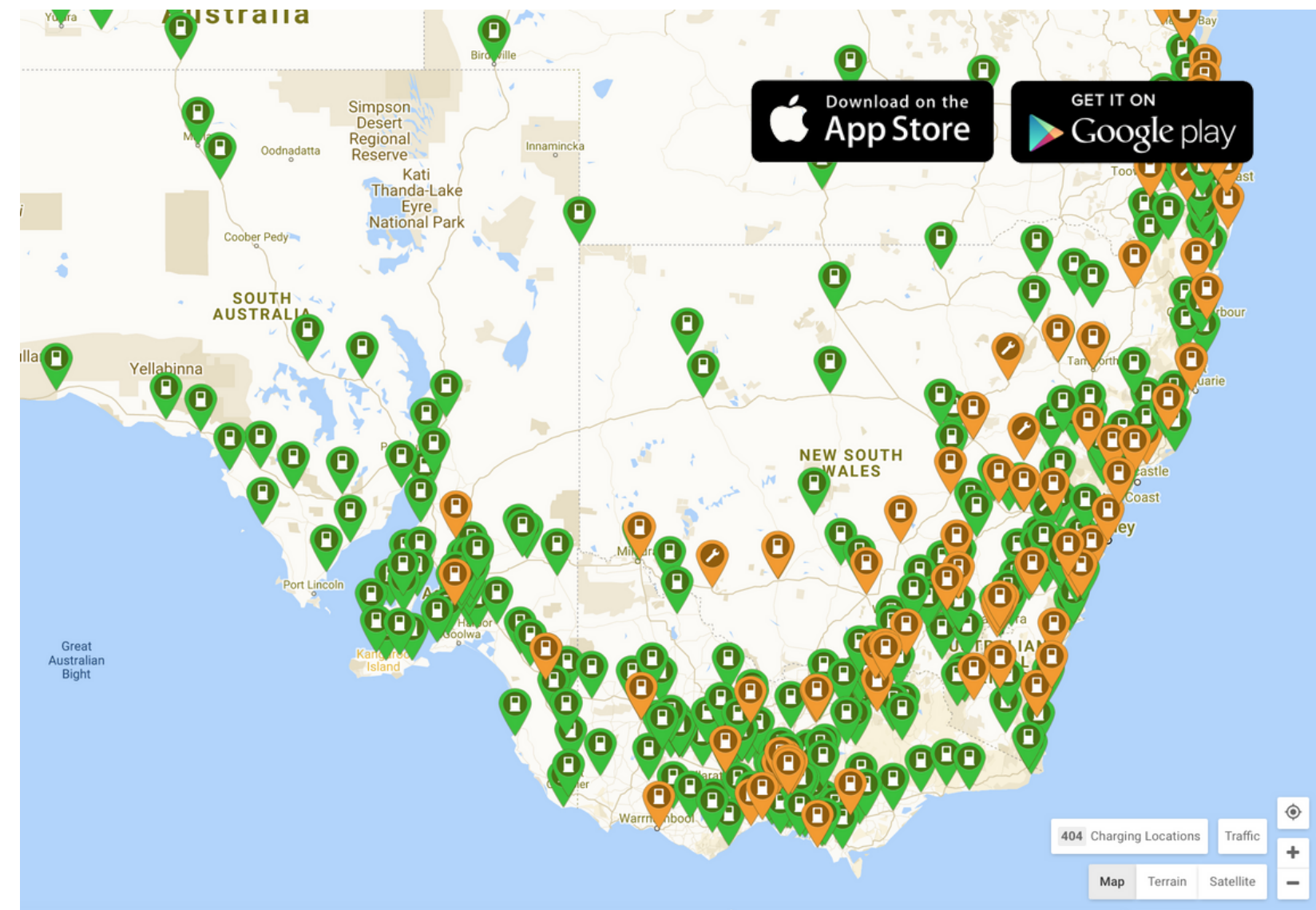
A Better Route Planner will help you find public charging for any trip you'd like to do in your EV, anywhere in the world.

LEARN HOW TO REGEN

Every EV has regenerative braking - the conversion of kinetic energy created during deceleration into power that's fed to your battery. You can also find out more about regen braking for your specific EV online.

KEEP AN EYE ON YOUR CHARGE

Either on your dashboard or via the smartphone app specific to your EV (ask your dealer). It's a great habit to get into, not just when you first drive EV, but throughout the life your electric vehicle.



MAKE SURE YOU HAVE THE RIGHT EQUIPMENT

For home and public charging, the right equipment makes EV driving super simple. You can install, or keep an eye out for these types of chargers, all of which are available from evolutionaustralia.com.au

CHARGE AT HOME

We use and recommend the Myenergi Zappi charger.

This British-designed and made unit is only EV charger that 'talks' to your solar system to ensure you only pull from your self-generated renewable power, not grid power.

The Zappi is available for single or three phase power.



CHARGE IN PUBLIC

A charging bundle of commonly used cables and adaptors is a great investment. Simply store them in your boot and you'll be able to take advantage of every publicly available charge point.

Some public charging stations use an older Type 1 plug, for which you need a Type 1 to Type 2 cable.

However, Type 2 is becoming the worldwide standard, so for charging units without connected cables, you'll need a Type 2 to Type 2 cable.



CHARGING TYPE 1 EVS

CHARGING AT HOME

Portable EVSE

Most EVs are supplied with a 10amp portable charger also known as Electric Vehicle Supply Equipment (EVSE).

Your charge time from flat depends on your EV: 10 hours for smaller battery cars such as the Nissan Leaf, and up to 30+ hours for larger cars like the Hyundai Kona or a Tesla Model 3.

Faster EVSEs are available for up to 16 or 32 amps, but for optimal usage we recommend a separate circuit is installed by a qualified electrician.

Wall Chargers

The fastest and most convenient way to charge at home!

A great example is the Myenergi Zappi wall charger, which is integrated with your solar system, so you only use your self-generated solar power to charge your EV.

EV wall chargers must be installed by a qualified electrician.



CHARGING IN PUBLIC

Finding your nearest public charger is easy

Download the Plugshare app to your mobile.. It provides a comprehensive list of all public EV charging stations across Australia, including plug types and accessibility.

Can I use any public charger?

Yes, with the right charging cable. There are some exceptions though!

Universal chargers

Most public chargers are universal, meaning you BYO cable. The connection socket is a standard Type 2 (Mennekes) for all universal chargers. So, EVs with a Type 1 plug (J1772) will need a Type 2 to Type 1 charging cable 32amp (5m).

Tethered chargers

Some public chargers have an attached cable. Chargers with a Type 1 connector can simply be plugged directly into your car. Chargers with a Type 2 connector will require a 1m Type 2 to Type 1 adaptor cable. Plug one end into your usual charger cable and the other into your EV.

Tesla chargers

Tesla have a network of public chargers, compatible with their own EVs. If you drive another brand of EV, a Teslanything adaptor is available for use with some Tesla destination chargers.

DC fast chargers

For the quickest charging boost out on the road! Tesla superchargers are the most common BUT will only charge Teslas. A growing network of all-EV compatible DC chargers is available, but you'll need a CHAdeMO or CCS2 charging socket to use them.

CHARGING TYPE 2 EVS

CHARGING AT HOME

Portable EVSE

Most EVs are supplied with a 10amp portable charger also known as Electric Vehicle Supply Equipment (EVSE).

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A great example is the Myenergi Zappi wall charger, which is integrated with your solar system, so you only use your self-generated solar power to charge your EV.

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Yes, with the right charging cable. There are some exceptions though!

Universal chargers

Most public chargers are universal, meaning you BYO cable. The connection socket is a standard Type 2 (Mennekes) for all universal chargers. So, EVs with a Type 1 plug (J1772) will need a Type 2 to Type 2 charging cable 32amp (5m).

Tethered chargers

Some public chargers have an attached cable. Chargers with a Type 2 connector can simply be plugged directly into your car. Chargers with a Type 1 connector will require a 1m Type 1 to Type 2 adaptor cable. Plug one end into your usual charger cable and the other into your EV.

Tesla chargers

Tesla have a network of public chargers, compatible with their own EVs. You may be able to use a Tesla destination charger with your new EV, but some units are set to Tesla-only mode.

DC fast chargers

For the quickest charging boost out on the road! Tesla superchargers are the most common BUT will only charge Teslas. A growing network of all-EV compatible DC chargers is available, but you'll need a CHAdeMO or CCS2 charging socket to use them.

EASE INTO YOUR EV (AND HELP BUST SOME MYTHS!)

When you drive an electric vehicle, you not only become a driver but an educator as well. It's pretty common for friends, family, even people in the street to ask you questions about your experience, including:

CAN YOU DRIVE THROUGH WATER?

All EVs are perfectly safe to drive through water and in rainy conditions.

EVS HAVE THE SAME CARBON FOOTPRINT AS PETROL AND DIESEL

While there are no tailpipe emissions, EVs do have a carbon footprint. How large this is depends on a number of factors, including country of manufacture and whether your EV is charged with renewable power. The good news is that, generally, EVs have a lower carbon footprint than ICE vehicles, particularly when charged from your solar system.

THEY'RE TOO EXPENSIVE

Yes, EVs are currently more expensive when compared to petrol or diesel cars. However, as battery technology improves and there's more demand for EVs, they'll soon reach price parity (probably within 2-4 years).

EVS AREN'T BIG ENOUGH

To many people, EVs are smaller vehicles, such as the Nissan LEAF. However, larger family-sized EVs are increasingly common.

THEY'RE TOO DIFFICULT TO CHARGE

Over 80% of EV owners charge at home, usually overnight. In addition, publicly available charging is being rolled out across Australia and New Zealand, giving more people the 'range confidence' to purchase an EV.



INTELLIGENT INTEGRATED CONNECTED

SMART, SOLAR-CONNECTED CHARGING AT HOME



MYENERGI ZAPPI

- Charges your EV from your PV
- Three charging modes; fast, eco & eco+
- Uses self-generated renewable energy
- Intelligent & eco-aware, continuously redirecting power to feed your EV, rather than pulling from the grid
- Maximum charge current of 32amps
- Graphical back-lit LCD screen for easy use
- Compatible with all EVs on the market
- Over-the-air (OTA) updates via Myenergi hub
- Looks great, easy to install & and use at home
- Closed loop recyclable, no e-waste to landfill
- 3 year warranty

We recommend the Myenergi Zappi because it intelligently redirects available self-generated energy to your vehicle, minimising the use of grid power. The Zappi is the only eco-aware EV charger currently on the market and is our most popular product for EV owners. [See evolutionaustralia.com.au](https://www.evolutionaustralia.com.au) website for more details!

SOME OF THE EVUP AC EV CHARGERS YOU'LL SEE IN PUBLIC

EVOLUTION



AURIGA AC

- First 100% Australian designed & made AC charging unit - proudly made in Victoria
- Charges one to three ports at up to 22kW on each port simultaneously
- Compatible with all EVs & PHEVs
- Over-the-air (OTA) software upgrades
- Level 2 charger with universal connectivity
- Flat surface area for branding/use signage
- Auto illuminated for night safety
- Modular built for easy upgrades
- Robust, reliable & designed for Australian weather conditions
- Closed loop recyclable, no e-waste to landfill
- 2 year warranty



CHARGEAMPS AURA AC

- Level 2, dual port universal charger
- Simple operation & compact design
- Up to 22kW maximum charge rate
- Over-the-air (OTA) software upgrades
- Premium & robust product
- New for 2019/2020
- Compatible with all EVs on the market
- EVA are exclusive distributors with direct access to support & components
- Wall or floor mounted - EVA fabricate pedestal in-house
- Preferred model for JAX Tyres national rollout
- Closed loop recyclable, no e-waste to landfill
- 3 year warranty

GARO®



GARO WALLBOX AC

- Selectable charge rate from 6amps
- Charges nine times as fast compared to standard 8amp units
- Capable of adding up to 100 kms of range for every hour connected
- Tethered or untethered unit
- Elegant & beautiful design
- Customisable exterior for branding & usage instructions
- Compatible with all EVs & PHEVs
- Closed loop recyclable, no e-waste to landfill
- 2 years warranty

INTELLIGENT INTEGRATED CONNECTED

SOME OF THE EVUP AC AND DC EV CHARGERS YOU'LL SEE IN PUBLIC



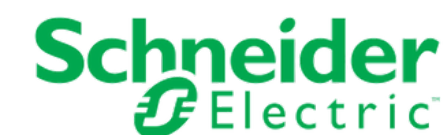
TRITIUM VEEFIL DC 50KW

- Australian designed & made DC charging unit
- Level 3 dual port DC fast charger
- Up to 50kW maximum charge rate
- Liquid cooled for low wear & longer life
- Customisable exterior for branding & usage instructions
- Compatible with all EVs and PHEVs
- Robust & designed for Australian weather conditions
- Closed loop recyclable, no e-waste to landfill
- 3 year warranty



EO UNIVERSAL 7KW AC

- Level 2, single port universal charger
- Simple operation & compact design
- Up to 7kW maximum charge rate
- Robust, space saving housing
- Integrated overload protection
- Compatible with all EVs on the market
- Wall or floor mounted - pedestal fabricated in-house
- Closed loop recyclable, no e-waste to landfill
- 3 year warranty



SCHNEIDER EV LINK AC

- Level 2, single port universal charger
- Intuitive operation & sleek design
- Up to 22kW maximum charge rate
- One touch stop/start
- Compatible with all EVs on the market
- UV resistant body
- Wall or floor mounted - EVA fabricate the pedestal in-house
- Closed loop recyclable, no e-waste to landfill
- 3 year warranty

INTELLIGENT INTEGRATED CONNECTED

WE INVITE YOU TO CHARGE HAPPY WITH EVUP

We hope this pack for new EV drivers has been helpful to ease you into electric vehicle driving. We're building an intelligent, integrated and connected network of EV charging across Australia and New Zealand...we'd love to have you join us.

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EV **up**

Charge happy