



*Corio Village*

**Electric vehicle fast charger installation proposal**

**Prepared for RetPro February 2021**



# Electric cars are coming and they need somewhere to charge

The Australian Renewable Energy Agency (ARENA) estimates that there will be **670,000 EVs on the road in Australia by 2025 and 1,300,000 EVs by 2030**. ARENA also estimates **Australia will need over 28,000** rapid charging stations by 2040.

70% of those surveyed by the Australian Electric Vehicle Council say that **availability of public fast charging is more important than workplace or public standard charging**.



# **RetPro will benefit from the electric vehicle revolution**

- Attracts high income individuals due to the current up-front cost of an electric versus petrol vehicle.
- Increase customer dwell time as they wait for their vehicle to charge.
- EV drivers will stop at your properties instead of traditional fuelling locations.
- Make your property a destination as EV drivers plan journeys around locations of fast chargers.
- Demonstrates your action on tackling climate change and a sustainable future.



# **Park N Plug is building the infrastructure to support EV drivers**

- Founded by passionate EV drivers.
- Frustrated by lack of fast charging infrastructure across Australia.
- Investing in public use, fast charging infrastructure only.
- Currently planning and seeking funding for 92 fast chargers across Victoria, in regional and metropolitan locations.
- Vertically integrated - hardware, software and customer support in the one company.



# Park N Plug's business model

- Partner with property owners to design, supply and install an EV fast charger (approximately \$50,000 of labour & materials) on their premises.
- Park N Plug sells access to charger per kilowatt hour direct to EV drivers via smartphone app, RFID tags & PayWave credit cards.
- Average session of 25kWh & approximate cost per session of \$12. Extra fees incurred if plugged in but not charging to avoid overstays.
- Property owner reimbursed for electricity consumed by Park N Plug if embedded network/dedicated meter not available.



# Corio Village

## ticks all our boxes

- ✓ Current EV charger “dead zone”
- ✓ Ample car parking
- ✓ Great amenities (food, shopping, toilets)
- ✓ 24 hour, 7 day a week, 365 day a year access
- ✓ Safe, well lit, family friendly
- ✓ Large power supply on embedded network



**Proposed  
charger install  
site - rooftop  
carpark**









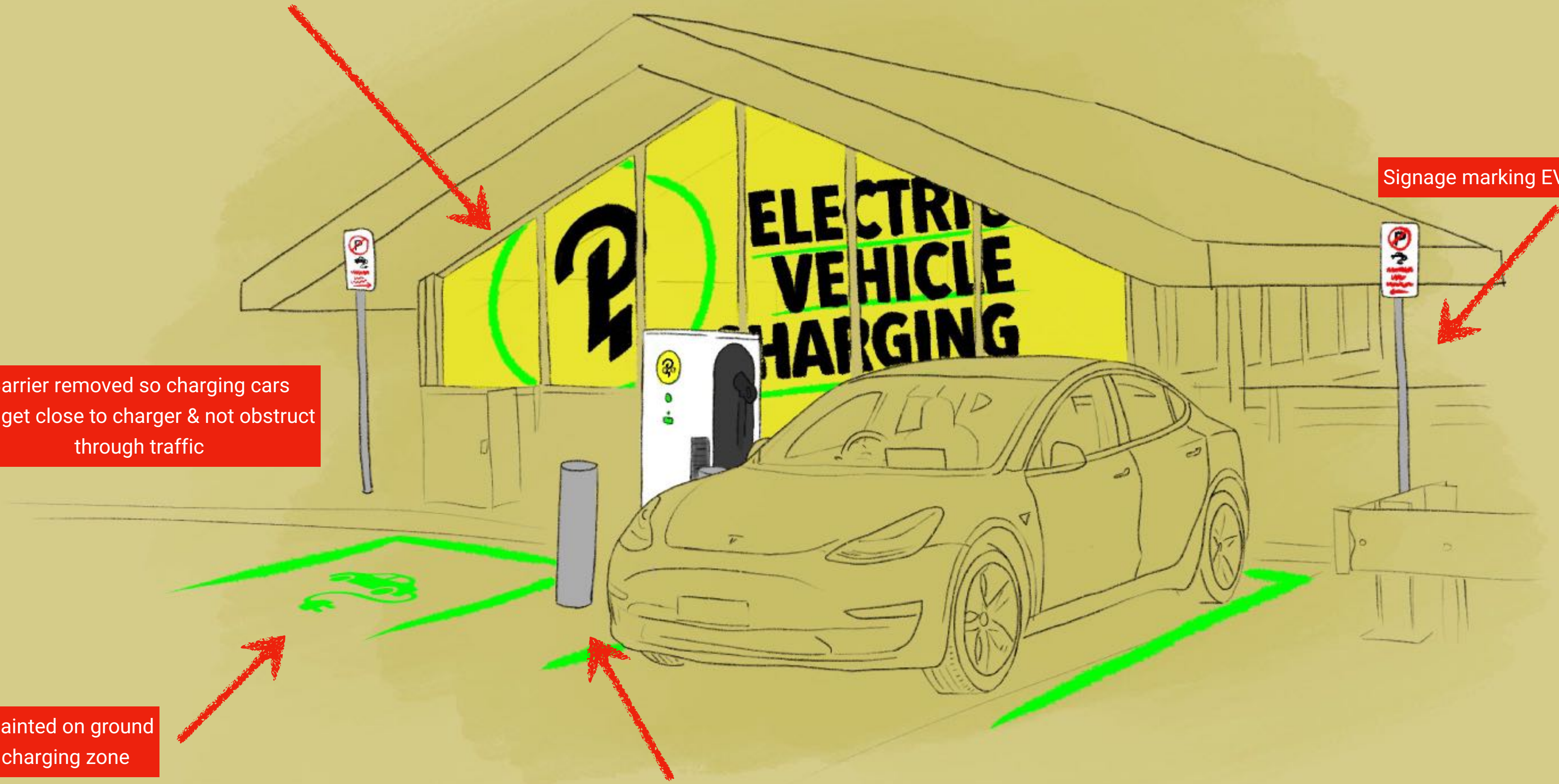
Window wrap/signwriting to make site visible for new users

Signage marking EV parking only

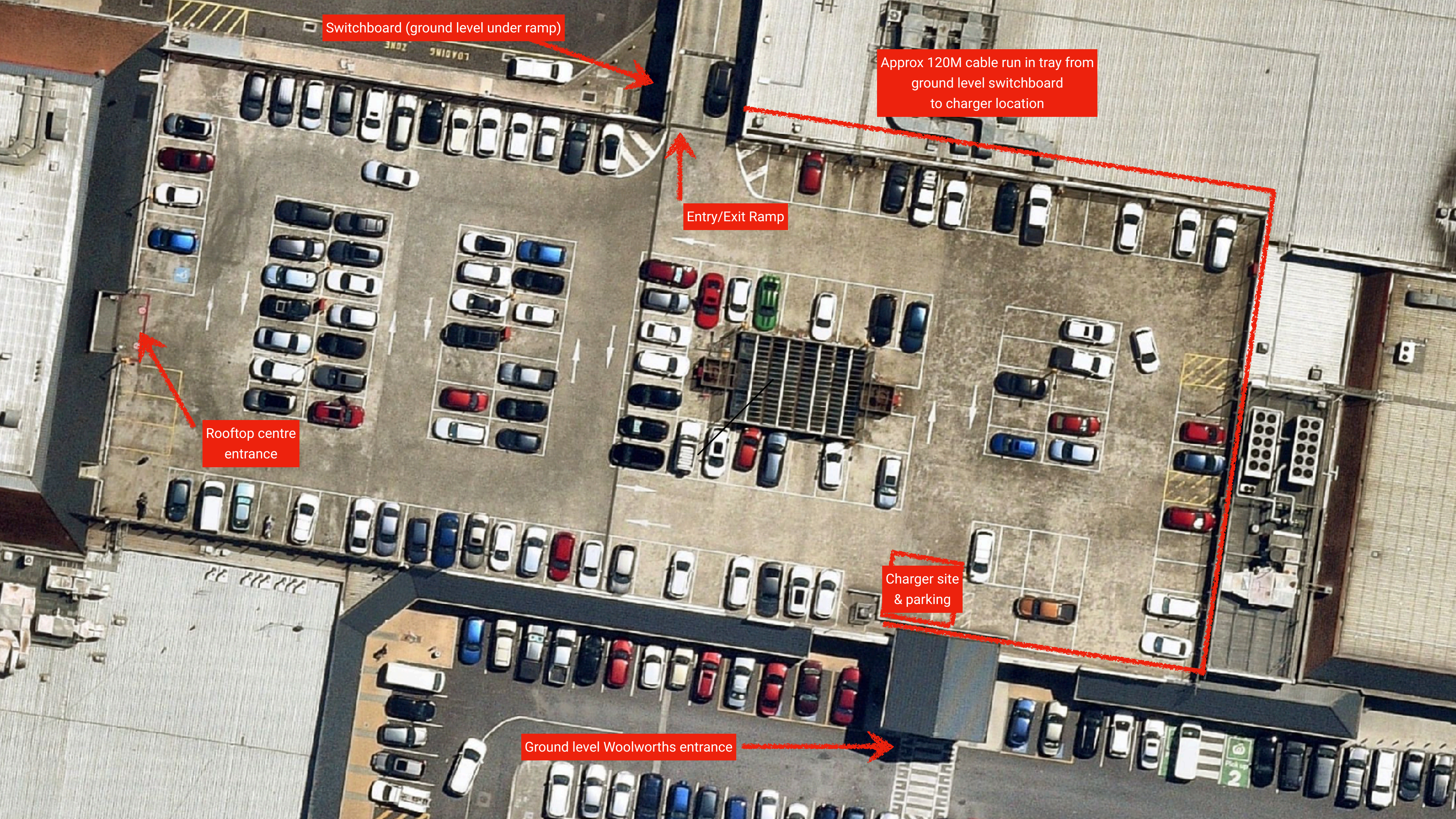
Barrier removed so charging cars can get close to charger & not obstruct through traffic

Line markings painted on ground to denote EV charging zone

Bollards to protect charger & building







Switchboard (ground level under ramp)

Approx 120M cable run in tray from  
ground level switchboard  
to charger location

Entry/Exit Ramp

Rooftop centre  
entrance

Charger site  
& parking

Ground level Woolworths entrance





# Equipment

## ABB Terra 54 CJ - DC Fast Charger



- Maximum AC 400V/125A input for 50kW DC output.
- 20% to 80% charge in approximately 30 minutes.
- Suitable for all EVs on the market in Australia, all brands welcome.
- World's most popular DC fast charger, thousands installed in Europe & USA.
- Internet connected. Park N Plug monitors remotely for potential issues.
- 1900mm H x 565mm W x 780mm D, 325KG weight. IP54 weather resistant, safe for use in rain.
- RRP of \$43,700



# 5 step install process - all handled by Park N Plug

1. **Prep-work:** run cabling, construct sub-board in meter room, remove barrier, pre-wire & install charger pedestal - 2 days
2. **Connect to switchboard:** disconnect mains power, connect prep-work to existing infrastructure in meter room - 2 hours (at night when centre closed)
3. **Charger install & commission:** charger delivered to site by supplier, mounted on pedestal, wired in, power on & test - 1 day
4. **Site work:** window wrap, charger wrap, ground marking & signage - 1 day
5. **Embedded network connects Park N Plug meter:** half day





# What we expect of each other

## **RetPro**

- Provide dedicated car park area for charger
- Access to facilities to contractors for charger install
- Communication with tenants for power interruption
- Notice of interruptions to charger operations
- Best attempts to ensure charger isn't blocked
- Promotion of partnership & charger facilities

## **Park N Plug**

- Purchase & install of charger
- On-going maintenance & operation of charger
- Customer support & billing of drivers
- Payment of electricity bills.
- Promotion of partnership & charger facilities



# Launch & ongoing promotion of charger

- Professional photo shoot (paid & organised by Park N Plug) for use in marketing material by RetPro & Park N Plug.
- Local Geelong media alerted to first rapid charger in city for interviews.
- Unit to be listed in PlugShare, TomTom, Google Maps & others so drivers find it.
- Range of EVs available for photo shoots/ demonstrations on demand if needed.
- Charger will be free on launch (electricity cost covered by Park N Plug) to encourage drivers to discover.





**Got**  
**questions?**  
**Ask away!**

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Park N Plug is committed to making sure the process of installing an EV charger on your premises is as pain-free as possible.

Many RetPro properties beyond Corio Village and across Victoria are ripe for Park N Plug EV chargers. We hope this is the start of a long term, win-win relationship!





# Appendix: Public EV Charging Methods

## AC/Slow

- 7-22kW
- \$3000 - \$7000
- 20km range/30 min
- Typically free for drivers



## DC/Fast

- 50kW - 150kW
- \$50,000 - \$150,000
- 200km range/10 min
- 40c - 50c/kWh for drivers



## DC/Rapid

- 150kW-22kW
- \$200,000 - \$1m
- 200km range/10 min
- 50c - 60c/kWh for drivers

