

PARK N PLUG

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**





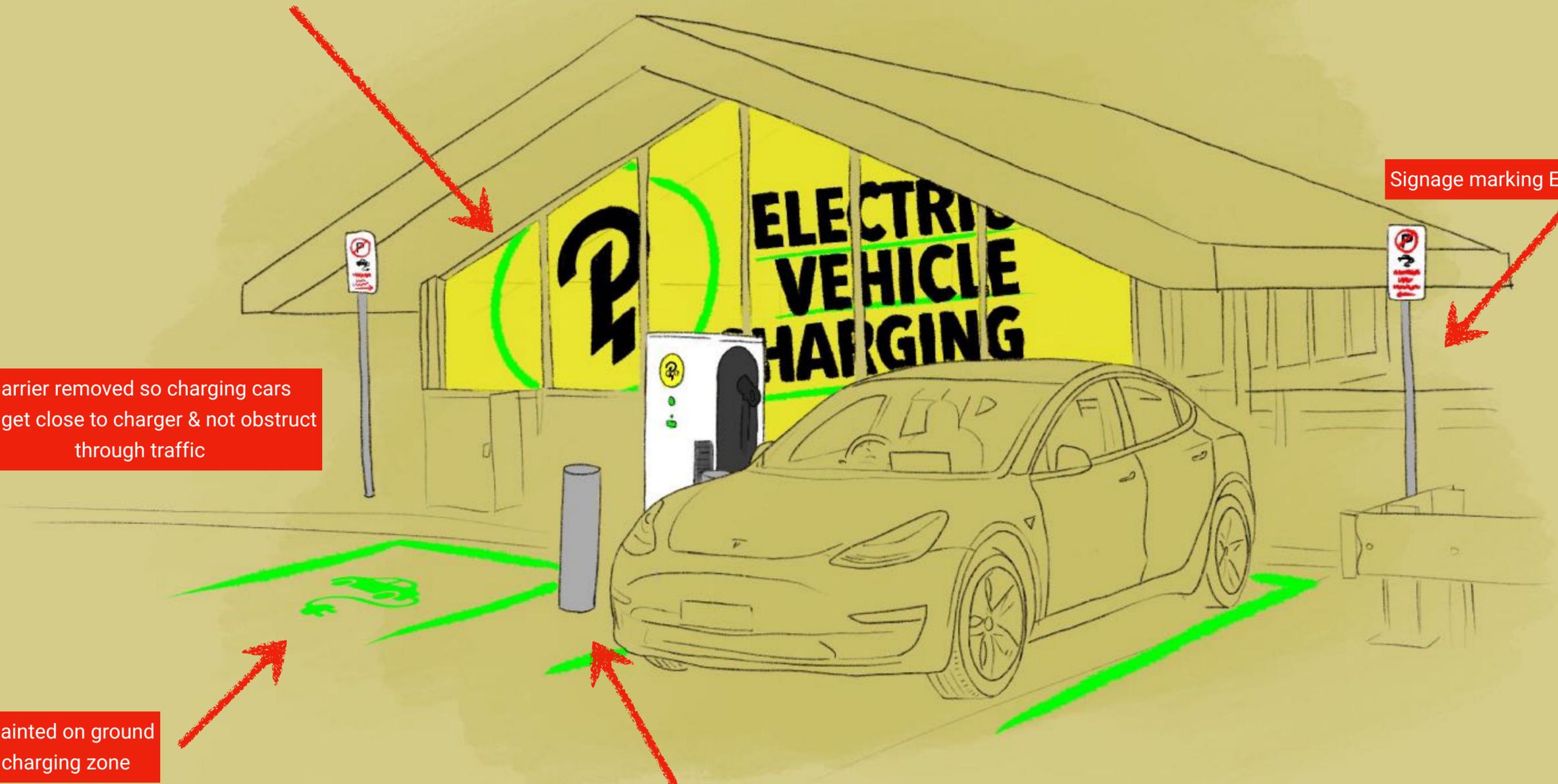
Window wrap/signwriting to make site visible for new users

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)

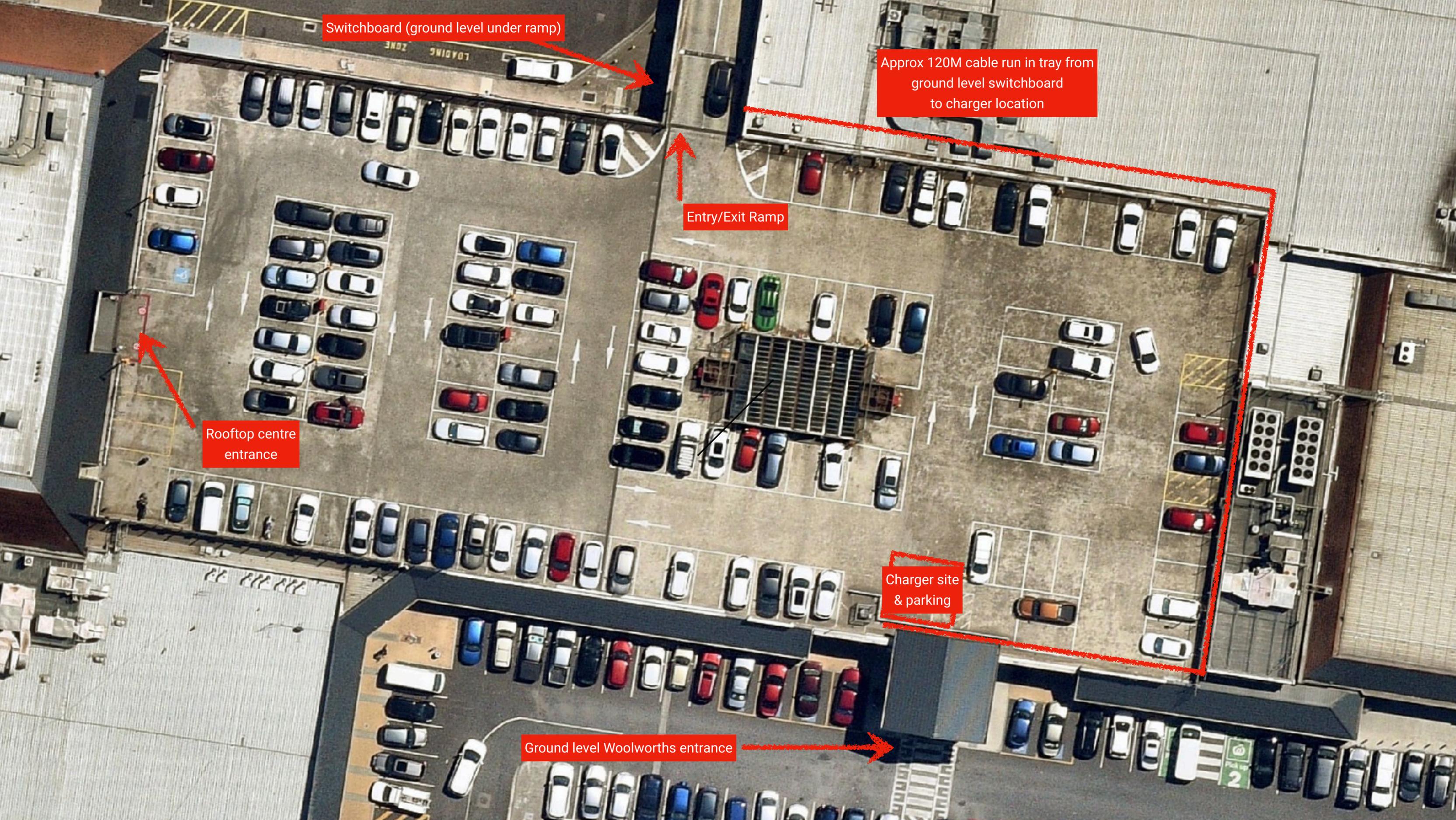
Approx 120M cable run in tray from ground level switchboard to charger location

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

