

Choosing your EV Charger



15 amp Power Point

(Level 1 charger, 2- 3kW)

Consider upgrading later, or if grants become available

Level 2 AC Wall Charger

(7 - 22kW)

Consider a Level 2 AC wall charger to enhance guest experience, but note that it is unlikely to be cost effective

DC Fast Charger

(25kW or higher, for rapid turnaround)

HOW TO READ THE FLOWCHART

1. Start by categorizing your business

- Overnight guests (e.g., hotels, inns, lodges, farmstays) → Go to the "Overnight" branch.
- Day visitors (e.g., cafés/restaurants, museums/attractions, retail shops, vineyards) → Go to the "Day-visitor" branch.

2. Overnight

- Dedicated parking and electrical capacity: If you have private parking stalls (so EVs can be left plugged in overnight) and your electrical panel can support an additional ~7–22 kW per charger, a Level 2 charger is ideal. It will typically add 20–40 km of range per charging hour - enough for guests to recharge fully overnight.
- No dedicated parking or limited electrical capacity: If you lack the infrastructure for Level 2 right now, start with shared or portable Level 1 chargers (standard 240 V outlet, ~2–3 kW), which are slower (~5–10 km of range per hour) but require little to no new wiring. You can plan an upgrade later.

3. Day-Visitor

- High turnover and highway proximity: If you're along a busy route or expect many passing EV drivers who can use a quick top-up, a DC Fast Charger (25 kW or more) is the best choice - drivers can gain ~125 km of range in one hour with 25 kW or much more with faster chargers.
- Moderate stay (1–3 hours): If visitors typically spend 1–3 hours (e.g., enjoying a meal, a tour, wine tasting), a Level 2 charger is suitable, giving them enough range to continue their journey.
- Short visits (< 1 hour): If your guests stay less than an hour, a Level 1 charger will be too slow for meaningful top-ups. In that case, consider adding signage directing them to the nearest public fast-charge station or partner location, and upgrade to Level 2 or DC Fast when possible.

LEGEND & CHARGER TYPES

Level 1 Charger (AC, 2–3 kW)

- One or more 15A, 240 V outlets (on a dedicated circuit)
- Ideal for locations with long parking times or where only minimal charging rate is needed (e.g., guest vehicles overnight). Adds ~5–10 km of range per charging hour.

Level 2 Charger (AC, 7–22 kW)

- Requires dedicated circuit and installation. Suitable for overnight guests or day-visitors staying several hours. Adds ~20–40 km of range per charging hour.

DC Fast Charger (DC, 25–350 kW+)

- High-power charger with significant electrical supply infrastructure. Best for high traffic locations with quick-turnover drivers. Adds ~125 km of range per hour for each 25 kW of capacity (depending on vehicle and charger rating)