

Car charging – Load allowances

Our calculations include a provision for 7kW 32A electric vehicle chargers to all houses/flats with either an attached garage/driveway or a dedicated parking space.

For communal parking spaces our quotation includes provision within the installed infrastructure and the LV services for 44no. communal charging points at 22kVA each.

These calculations are reliant on the installation of Smart chargers, a Smart Charger is defined as an EV charger compliant with Section 15 (2) of the Automated and Electric Vehicles Act 2018.



2.6 Electric Vehicle Charging – Supply and Installation

Communal Charging (Pay as you go)

Our offering for communal charging at Freek's Farm comprises of a full supply and installation solution.

With various areas dedicated to communal EV charging we will install one feeder pillar per group of chargers. All chargers will have a 22kW capacity and will be connected to contactless payment stations (Metering and billing will be managed by a charge point operator).

We have allowed for 44no. feeder pillars to serve 44no. car chargers as per your drawing in figure 11. The car chargers will be post mounted.

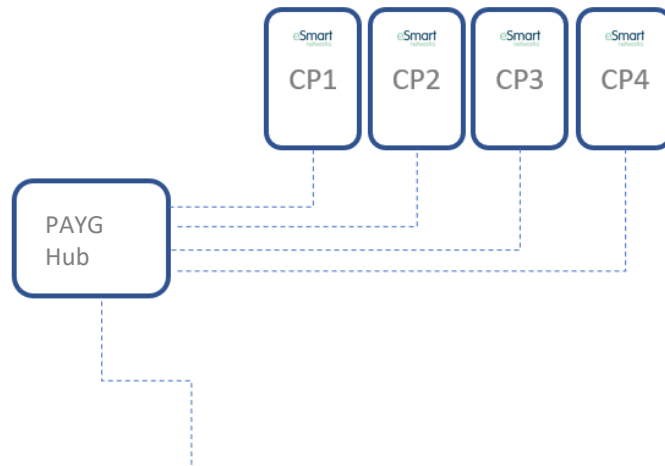




Figure 13 - Communal car charging locations



The schematic below indicates how the system will be laid out.



There is a load allowance of 968kVA included in the new electrical network on-site for the communal chargers.

The Smart charger and Hub combination key features are noted below, you will see some similarities between the home charging solution and communal charging solution.

- Power ratings up to 22kW
- Plug types: Universal socket, Type 1 or Type 2
- PAYG hub operates up to 4 chargers per unit
- Post mounted (up to 2 chargers per post)
- OCPP 1.6
- Activated by credit/debit card

Rapid Chargers

Assumptions

All car chargers are situated within your site boundary as indicated on the drawing shown in figure 11. Connections will be taken from electricity infrastructure installed by TriConnex as part of section 2.2 of this quotation.

