



**Electrical, Telecoms  
& Security Design  
Consultancy**

## **CASE STUDY - SUSTAINABILITY**

**Project:** DC EV Charging Ember bus Depot  
LV infrastructure design  
performance review Case Study

**Client:** Volt Group

**Date:** August 2025

**Value:** £2.0m



### **Project Overview:**

Volt Group approached Electel to provide design support on this large-scale inverter and DC Supply project.

ESD provided design assurance as part of the Volt Group Engineering and project management team

ESD performed the following duties

- Design of all DNO substation interfaces and protection
- Design study for all LV systems
- Design of all space planning drawings
- Design of switchgear and protection systems
- Design of substations & cabling routes
- Design of all DC Cabling from invertors to load points. ESD developed a new DC Cabling design software with reporting function. ESD will be launching this software to the market in January 2026.
- Site witness testing and acceptance of Electrical systems, protection and cabling.

ESD supported the client and provided site support for all commissioning activities, site snagging and handback from the electrical installation contractor.

### **ELECTEL SYSTEMS DESIGN LTD.**

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