

Supporting EV Charging, Solar & Battery Storage Innovation

Key challenges

To meet summer demand, GRIDSERVE wanted to craft an exceptional EV Charging Super Hub at Cornwall Services, featuring a solar canopy for shade and renewable energy. Coupled with a 1MW battery storage system, it smartly stores off-peak grid energy for charger use. This innovative approach avoided a grid connection upgrade with the ultimate plan being to build a solar farm in the field next door to the hub. This new hub will generate enough zero-carbon energy to enable 4 Million miles of EV driving. All GRIDSERVE needed was a trusted partner able to manage the integration of works from multiple contractors - Step forward Actemium!

Benefits



Technical knowledge to support GRIDSERVE with innovative system design



Design input to optimise orientation of site and future proof



Construction on site during winter months to avoid peak summer traffic impact

Change

Actemium was not a turnkey provider on this occasion, but managed multiple stakeholders and took on the role of CDM Principle Contractor handling project management, planning, design and integration of all system components, regardless of direct contractual responsibility and also included:

All Electrical cabling to/from;

- LV Feeder Pillar
- Solar PV Canopy
- Battery Storage

Installation of EV Chargers;

- 6 x Dual Socket AC (22kW) – serving 12 vehicles (For Holiday Inn)
- 6 x DC ABB 350kW – serving 6-12 vehicles

The Actemium Team played a pivotal role in steering the design process, laying the foundation for future-proofing EV charger expansion, enhancing grid connectivity, and integrating Solar PV Field connections. As a result of a positive experience, GRIDSERVE has since awarded Actemium with multiple EV Charging projects across the length and breadth of the UK.



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