



# BEDDINGTON LANE DEPOT

SERVING TRANSPORT FOR LONDON (TFL) HIGHWAY MAINTENANCE

## CASE STUDY

### Installing 22kW and 7kW pedestal mounted EV chargers

#### OVERVIEW

FM Conway is investing in sustainable solutions such as electric vehicles (EV) as part of its Net Zero strategy for reducing carbon and air pollution.

Our depot at Beddington Lane is designed to accommodate the healthy streets nature of the Transport for London (TfL) Highway Maintenance and Projects Framework (HMF), and to meet the needs of the contract, Beddington Lane was fitted with two 22kW fast chargers dedicated to plant vehicles and nine 7kW slow chargers for mixed use between plant, visitors, and office staff.

The EV chargers were installed and managed by FM Conway's own Charge Point Operator service, SureCharge, with chargers supplied by a third party.

Using our standard installation format we surveyed the site and analysed the number and type of EVs to be used. We contacted UK power Network (UKPN) to provide an additional 200A metered supply and installed the necessary ducting to run the new electrical supply using two main feed points.

FM Conway is an approved Charge Point Operator. Our EV chargers not only fit in existing street furniture but can be used to provide energy for other uses such as market trader pillars, ice cream vans, temporary welfare units. We offer a full suite of chargers ranging from Slow AC (5kWh) to Ultra Rapid DC (150kWh). Our EV chargers can be accessed and paid for through our SureCharge App which is available on iOS and Android.

## OUR APPROACH

- **Site Survey:** We carry out on-site surveys to establish the suitability of each location to ensure the best outcomes for our clients
- **Propose Alternative Solutions:** We can consider alternative solutions to install a stand-alone charger on a specially designed pedestal fed from the street lighting column

## CHALLENGES

- **ICED Parking Bays:** Where EV chargers are not in dedicated parking bays, it is common for these bays to be used by Internal Combustion Engine (ICE) vehicles such as petrol- and diesel-powered cars
- **Resident Parking Bays:** Where EV chargers are only available to local resident

## BENEFITS



100% RENEWABLE



NO PERMITTING



NO DIGGING



NO INVESTMENT

## CONCLUSION

We provide an additional revenue stream for clients, plus our network is insight driven as each of our EV chargers are connected to the backend. As each of our chargers are SMART chargers, we are able to:

- Constantly monitor performance in real time
- Check connectivity
- Check for faults
- Manage the load charge

**Collaboration with local authorities:** To increase the use of EV chargers we collaborate with local authorities to convert the bays into dedicated EV charging-only bays and try to position a bay at either end of a road.

**Network versatility:** We are also installing 11kWh and 22kWh chargers which allow a car to charge faster and therefore achieve more charging sessions and reduce the average waiting time per use.

## BENEFITS

- Smart, patented technology
- Network is insight driven
- 100% renewable energy
- Uses existing infrastructure
- Simple to install



**SureCharge** POWERED BY FM CONWAY 

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