



# ROYAL BOROUGH OF KINGSTON UPON THAMES CASE STUDY

## Converting street lighting columns to provide 100 in the door (IDC) EV chargers

### OVERVIEW

Following a number of requests from residents wanting more accessible charging points across the borough, the Royal Borough of Kingston upon Thames has installed electric vehicle (EV) chargers that use the infrastructure of existing lamp columns and allow users to charge their electric or hybrid vehicle by plugging a standard charging cable into the column itself.

FM Conway's SureCharge service provided the borough with an end-to-end solution including the supply, installation, maintenance, energy tariff, and a full suite of back-office software with automatic billing services.

We have now installed 100 in the door (IDC) EV chargers in existing street lighting columns across the Royal Borough of Kingston upon Thames since February 2021.

We offered funding through the GULCS framework, with 25% match funding from FM Conway and a minimum 5-year contract, also a negotiable percentage share of the revenue with the borough.

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, lice 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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