ROLEC EV

SMART
ELECTRIC VEHICLE
CHARGING SOLUTIONS

ROLEC*EV*

Rolec EV are industry leaders in the design, manufacture and installation of SMART OCPP compliant EV charging points. With over 200,000 chargepoints manufactured and supplied to date, Rolec are well established and esteemed amongst both EV drivers and businesses across the UK. Holding over 10 years of experience in the EV charging industry, combined with superior manufacturing and technical prowess, Rolec presents endless opportunities for chargepoint users and operators via its SMART solutions.

Choosing Rolec as your supplier of EV chargepoints presents ample benefits:

- A vast range of AC Fast & DC Rapid chargers, ranging from 3.6kW through to 200kW charging speeds
- Provision of both sales and technical support
- Constantly at the forefront of R&D and new technologies
- Access to chargepoint range via over 2,000 wholesalers
- Range of SMART EV chargers eligible for OZEV home & workplace grant funding

OCPP INTEGRATION

SMART SOLUTIONS

In a world where technology plays a crucial role in people's lives, we understand the requirements for accessing real-time and accurate chargepoint data for both EV drivers and chargepoint hosts. Rolec manufactures and supplies a range of SMART EV charging solutions, enabling EV drivers to interact with chargepoints via smart devices and/or RFID cards/fobs whilst allowing chargepoint hosts to gain meaningful chargepoint data, including power consumption, charging activity, charging costs, etc.

DOMESTIC SMART CHARGING SOLUTIONS

The HOMESMART EV charging software for domestic chargepoints is an innovative, modern charging solution for EV drivers who desire convenient charging at their homes. Operating their chargepoint via their mobile phone and/or any web enabled device, the EV driver is able to simply plug in and recharge their vehicles within the tap of a finger. Complete with an easy-to-use app, smart reporting, exportable data features, scheduled charging, green charging features and more, HOMESMART EV is the perfect SMART solution for current and new EV drivers.

COMMERCIAL SMART CHARGING SOLUTIONS

EV CHARGING FOR ALL LOCATIONS

Our commercial SMART charging solutions allows businesses and organisations to control and manage their own charging network. VENDELECTRIC enables offices, restaurants, public car parks, warehouses, courier depots, car showrooms, caravan sites, etc to control and manage their chargepoints, however they desire via their own management portal, without associated back-office development costs.

The ability to generate additional revenue; understanding chargepoint activity and consumption; flexible pricing models for chargepoint usage and electrical load management are just a few of VENDELECTRIC's benefits to businesses.

A SIMPLE SOLUTION

Whether businesses require a single chargepoint or a nationwide infrastructure, our commercial SMART charging solutions provide business owners an easy way to generate additional revenue and provide an attractive ROI. By using VENDELECTRIC's flexible tariffs feature, businesses are able to easily set up their own pricing models for chargepoint usage.

Combined with the ability to monitor chargepoint behaviour and understanding usage frequency, businesses can also change their pricing models to suit their business requirements. Simply choose any of our AC Fast and DC Rapid chargers, opt for our VENDELECTRIC back office management system (or any OCPP complaint back office management system) and reap the benefits of your chargepoints.

FLEET EV CHARGING

Fleet electrification is on the rise and our commercial SMART charging solutions provides a future-proof option for forward thinking businesses. Benefits include:

- Complete visibility & control of chargepoints
- Mobile phone and/or RFID card/fob operation
- Vehicle Registration Mark (VRM) integration
- Real-time & historical analytics
- Optional electrical load management

The EV Driver

THE SMARTER HOME EV CHARGER

HOMESMART EV is a home charging point designed to help EV drivers take control of their charging lifestyle and activities.

HOMESMART EV is compatible with all EVs and enables the EV driver to completely control and manage their charging point. The user interacts with the charging point via their mobile phone or tablet using the ev.energy app, which can be downloaded free from Apple App Store or Google Play.

HOMESMART EV features include:

LOWER CHARGING COSTS

- OZEV grant approved for low cost installation
- Facility to set charging to economy tariffs
- As a HOMESMART EV customer we are constantly looking to introduce better electricity tariffs to you

GREENER CHARGING

- Maximises renewable grid energy use
- Maximises off-peak energy use
- Track your CO_2 saved

TOTAL CONTROL – TOTAL MANAGEMENT

- Control your charger with your mobile phone
- Track your charging history by mobile phone

A SELECTION OF HOMESMART EV FEATURES

- Mobile App Controlled SMART Charging
- Analytical Feedback
- Secure Communications
- kWh Metering
- Optimises Your Charge With Energy Tariff (& Renewables)
- Exportable Charging Data

STYLISH & INTUITIVE DESIGN

HOMESMART EV is available in the cost effective and durable WALLPOD:EV unit, which integrates with any smart mobile phone/tablet.

The smart EV charger has a built-in modem and GPRS SIM card which automatically and securely connects over the Vodafone (or other) GPRS network to the smart charging back-office platform.

To enable its smart features, the driver can easily download the free ev.enegy app from Apple App Store or Google Play.

Download on the App Store

GET IT ON Google Play

POWERFUL SMART CHARGING APP

The HOMESMART EV charging app automatically captures off-peak rates by smart charging your car and automatically integrating any home energy tariff. It's the easy way to save money and reduce your carbon emissions when charging your EV.

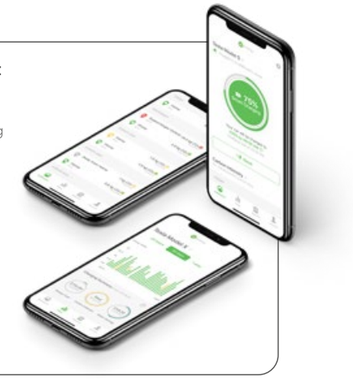
Easy to use and easy to set up, our app gives you full control over your EV charging. To get started, all you need is to download the app, add your car and set when you want to be charged. That's it!

SMART FEATURES:

Live Charging Activity:
- Charging status
- Stop / start charging
- Smart & boost charging
- Charging notifications

Charging History:
- Total energy used
- Historical data
- CO_2 savings

Advanced Settings:
- Tariff optimisation
- Green charging
- Grid services
- Fleet management



You're in control – simply plug in your EV at home, set the time you want the car to be charged and ready for, or press boost to charge immediately.

We'll Smart Charge your EV so it's ready to go when you need it – using the greenest, cheapest energy, giving you access to competitive energy tariffs and renewable energy.

Use the app to track your EV's carbon impact and energy consumption at home and on the go.

EASY INSTALL & SET UP, WITH GREAT SUPPORT

HOMESMART EV is simple to order, install and set up. Customers ordering a new charger can enjoy:

- Installation within 10 working days by a Rolec approved installer
- Simple and easy smart set up with ev.energy (typically <2 minutes)
- Dedicated software & hardware technical support
- 3-year hardware warranty
- 3-year connectivity and support from ev.energy*

If you would like to discuss how we could help customise HOMESMART EV for your requirements, including branding the hardware, the phone app and integrating the HOMESMART EV Back-Office with your existing systems, please get in touch.

* At the end of 3 years, customers are free to either continue (charges may apply) or cancel the ev.energy subscription.

* HOMESMART EV requires a suitable GPRS network signal of 14 CSQ or above.

EV OPEN charge

BENEFITS OF EV OPENCHARGE

Businesses who opt for our EV OPENCHARGE range will benefit from:

- Mobile phone and/or RFID card/fob integration
- Contactless payment option for DC chargers
- Remote over the air firmware updates
- Ability to connect to any back office management system in the world
- Bespoke branding to meet corporate requirements

PROVIDING ENDLESS OPPORTUNITIES FOR BUSINESSES & EV DRIVERS

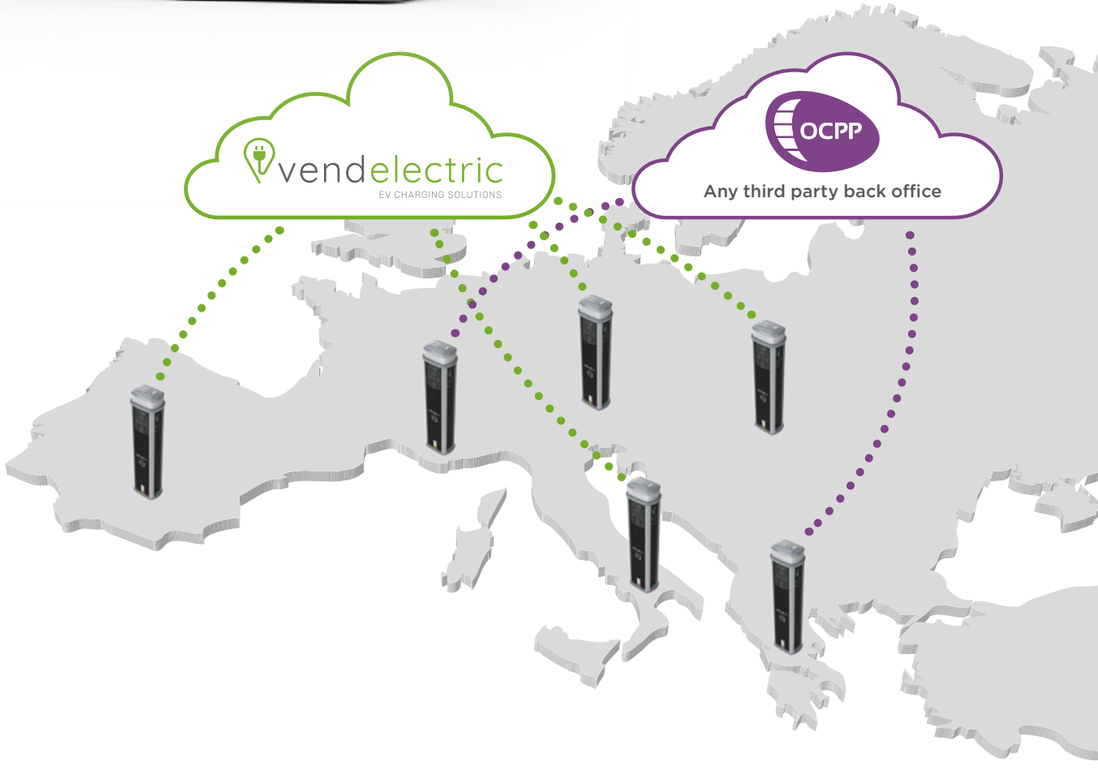
The EV OPENCHARGE range allows businesses across the world to connect to any OCPP compliant back office management system. With complete flexibility and control over chargepoint behaviour, the opportunities are endless for chargepoint operators and EV drivers.

TOTAL FLEXIBILITY *COMPLETE* INTEGRATION

Compatible with all EVs/PHEVs, the EV OPENCHARGE range provides businesses across the world with full flexibility and complete control of their chargepoints. The EV OPENCHARGE range includes both AC Fast and DC Rapid EV chargers, ranging from 3.6kW through to 200kW charging speeds, which are all OCPP compliant, enabling the chargepoints to integrate and communicate with any OCPP back office management system in the world.

A SELECTION OF EV OPENCHARGE FEATURES

- OCPP 1.6 Compliant
- Grant Fundable
- GPRS / Ethernet Connectivity
- Operator Revenue Stream
- CE Certified
- Branding & Colour Options Available



VendElectric
SMART SOLUTIONS

ENABLING YOU TO ***MANAGE*** & ***OPERATE YOUR OWN*** CHARGING NETWORK

VENDELECTRIC is a unique EV charging platform providing businesses, organisations and similar with the ability to deploy and self manage their very own EV charging network without having to incur any of the significant costs associated with developing a back-office, phone app and secure payment/management platform.

- **NO** Driver Annual Membership Fees
- **NO** Driver Monthly Subscription Fees
- **NO** Driver Connection Fees

VENDELECTRIC **PAY-TO-CHARGE** PAYMENT PARTNERS/ASSOCIATES

Opayo VISA mastercard JCB

A SELECTION OF VENDELECTRIC FEATURES

- Smart Charging Network
- Mobile App / RFID Operated Charging
- Operator Management
- Optional Revenue Stream
- Analytical Feedback
- Customisable EV Driver Tariffs

BENEFITS OF VENDELECTRIC...

...FOR YOUR BUSINESS/ORGANISATION

*"VENDELECTRIC provides the operator with **complete chargepoint network visibility, management & monitoring**"*

*OCPP compliant chargepoints only

You're In Complete Control
Unlimited use of an industry leading back-office platform enabling you to have full management and control of your entire EV charging network.

Future-proof & Scalable Solution
Manage single or multiple chargepoints with the option to accommodate private network charging (staff members, fleet drivers etc), ensuring your chargepoints are secure from unauthorised usage. Add more EV charging points to your infrastructure as and when demand increases.

Mapped Network
Complete mapped overview of your network as well as the ability to group your chargepoints at your premises/sites using the platform's interface.

Customisable Tariffs
Operate your charging points via pay-to-charge, free-to-charge or BIK options. For example, you may wish to offer free charging to employees, whilst providing visitors with a pay-to-charge service.

Generate Revenue
Immediate revenue stream by simply setting your own EV charging tariffs, with the ability to change as and when you wish to suit your business requirements. The revenue summary page provides you with a clear itemised overview of your generated revenue.

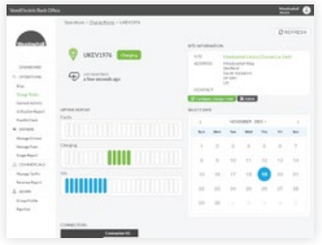
Smart Reporting & Analytical Feedback
Full visibility of real-time chargepoint activity, monitoring and energy usage all at the click of a button, helping you understand charging behaviours and where further infrastructure is required. You can easily access and export all historic data and reports.

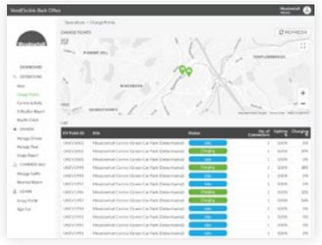
Fleet Management Solutions
Ability to assign RFID card/fobs to drivers or vehicles which can then be used to authorise charging sessions. There is also the option to restrict chargepoints to specific VRMs (Vehicle Registration Marks), making the ideal solution for fleets.

Automatic Fault Notifications
Fault notification feature allows the VENDELECTRIC team to provide support when required.

Over The Air Updates
VENDELECTRIC's OCPP integration enables remote over the air firmware updates ensuring you benefit from future developments.*

Optional Electrical Load Management
Ideal for locations that require multiple EV charging points where the collective load may be greater than electricity supply. The optional load management feature ensures all charging facilities are available for use.


Chargepoint Summary Screen


Chargepoint Network Screen

Site and Load Management Screen

COMMERCIAL SMART CHARGING SOLUTIONS

BENEFITS OF VENDELECTRIC...

...FOR THE EV DRIVER

Easy To Operate
The EV driver plugs in to the chargepoint and activates their charging session by simply scanning the chargepoint's QR code using their smartphone's camera. Alternatively, they can enter the socket ID number via the VENDELECTRIC app or present their chargepoint host issued/personal RFID cards/fobs (eg. vehicle/charging network/security access).

No Upfront Costs
There are no hidden fees, unnecessary charging network membership, subscription or connection fees.

Secure Payment Platform
For chargepoints that are set to operate on a pay-to-charge tariff, the user pays for the charge advertised on the app using secure Visa, MasterCard and JCB payment methods via Opayo.

THE VENDELECTRIC APP FEATURES

Locate & Navigate
Easy to find and navigate to a chosen charging point

My Favourites
Save your favourite charging locations for future use

Charge Sessions
View all of your current and past charging session information

Statistics & Analytics
Understand your EV charging activity/ behaviour

Exportable Data
Ideal for submitting your benefit-in-kind claims

Live Notifications
Receive charging session notifications and alerts

Virtual Wallet
Top-Up a virtual wallet which makes activating a charge much quicker

Multi Vehicle Access
Multiple EVs can be added to a single registered account

DOWNLOAD THE APP

Download on the App Store

GET IT ON Google Play

LOAD MANAGEMENT – OPTIONAL ADD-ON

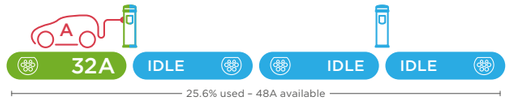
*"Enabling you to **maximise your chargepoint potential** on restricted supplies"*

VENDELECTRIC Load Manager is a chargepoint load-sharing solution which automatically optimises distribution of the available electricity feed(s) across your fleet of chargepoints.

This feature is specifically designed for installations where the electricity feed capacity is insufficient to fully power all chargepoints at once, intelligently allocating the available power across your chargepoint network to best satisfy real-time demand.

HOW IT WORKS *(typical example below)*

- Standard A/C chargepoints (Up to 22 kWh) will use up to 32A.
- The site has 80A of power available and 4 chargepoints (2x 2way pedestals).
- The threshold for load management has been set at 40% of available power.
- The chargepoints are programmed to allow 128Ah at full capacity.
  In this example the first EV will recieve full charging power for 4 hours (32A x 4hrs = 128Ah) at which point it will enter Load Management, whilst sharing the availble power with the other occupied chargepoints.



1. When vehicle A arrive to charge, it is provided with a full charge because the threshold hasn't yet been exceeded.

2. When vehicle B arrives to charge, it will take the load over the threshold, therefore its charge is placed into load management. Vehicle B receives full charge because the remaining capacity has no other vehicles charging.

3. When vehicle C arrives to charge, vehicles B and C will share the available capacity, whilst vehicle A charges on full charge until it receives 128Ah.

4. When vehicle D arrives to charge, vehicles B, C and D will all share the available capacity, whilst vehicle A continues to charge on full charge until it receives 128Ah.

5. When vehicle A has received 128Ah, it is placed into load management to share capacity with vehicles C and D. Vehicle B is moved up to full charge until it either leaves or receives 128Ah.

6. The vehicles will remain charging in a first in first out basis whilst the load management threshold is exceeded.

PLEASE NOTE:
- Charge sessions receiving a full charge will have a maximum load equal to the cable's charging limit or the chargepoint's maximum (whichever is lowest).
- The remaining available feed is divided equally between chargers with a guaranteed minimum of 6A.
- If the total allocation exceeds the feed capacity, the chargers receiving a full charge will be down rated to accommodate.

OUR CUSTOMERS

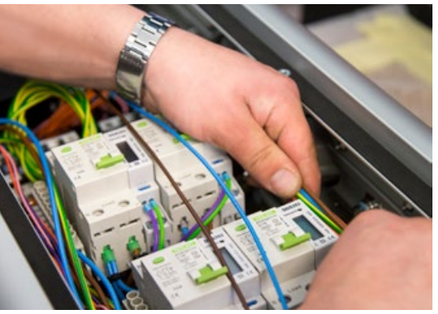
The Rolec EV charging range is trusted throughout the UK and has been supplied to a number of household names.

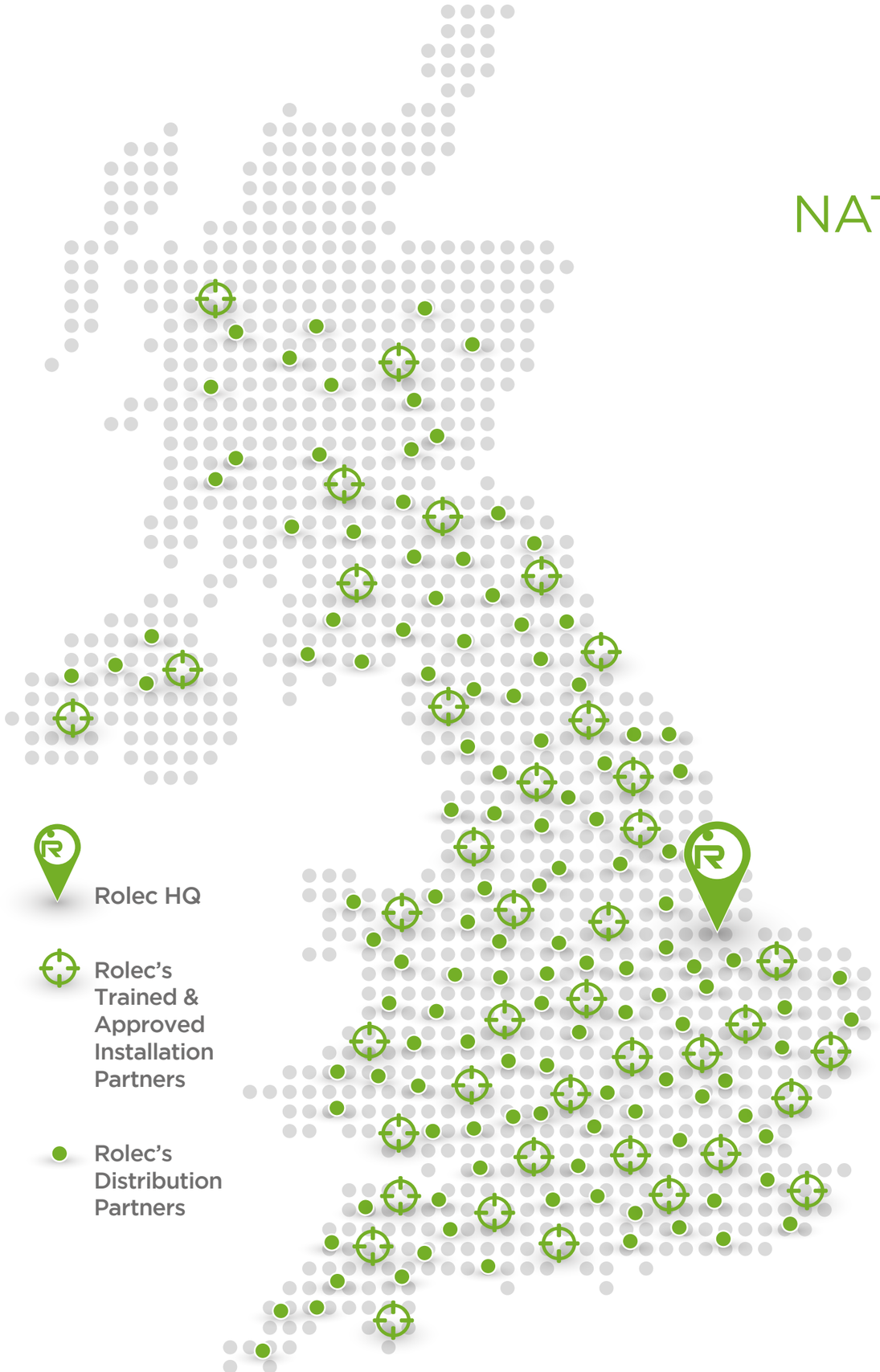
Bespoke colour and branding options are available across the majority of our EV chargepoint range, making them ideal for corporate branding, colours and logos.

Here is a snapshot of some of the companies which have ordered Rolec EV charging points to date...

next · First · DHL · amazon · love every drop anglianwater · E.ON
BENTLEY · BAUER MEDIA GROUP · MG · JCTOOO · Heathrow · Meadowhall
BATTERSEA POWER STATION · National Trust · ALDI · Hilton · Balfour Beatty
HARLEY-DAVIDSON · Continental · NHS · IKEA · Lake District National Park · COSTA COFFEE
UPS · VW · Harrods · dpd · Goodman · Travelodge
CBRE · Rockstar · hp · CALA HOMES · SKANSKA · Monster Energy
TESCO · dfs · home bargains · Lincolnshire Police · PayPal · dyson
LIDL · Nottingham City Council · GRIMME · McDonald's · Taylor Wimpey · WAITROSE
PEUGEOT · SPORTS DIRECT.COM · SILVERSTONE · VAUXHALL

...and many more





NATIONWIDE INSTALLATION & MAINTENANCE

Rolec EV manages a network of professional EV chargepoint installers covering all areas of England, Scotland, Wales and Ireland.

All installers are specifically chosen for their ability to deliver a competent, prompt and professional service, ensuring that all your customers' EV charging requirements are managed, installed and certificated to the highest standards.

From a simple domestic WALLPOD:EV installation through to a bespoke back-office managed EV charging network, Rolec and its team of nationwide installation partners has an EV charging solution for every location and budget.

- Our nationwide installation partners are also able to provide maintenance contracts and emergency call-out services
- All installations are carried out to current IET and BS 7671 electrical wiring regulations
- All installations are fully certificated on completion of installation
- Live enquiry to installation tracking system available

Rolec continues to recruit and train EV chargepoint installers, expanding its network and providing local coverage to all areas of the UK.

TRAIN TO BECOME A ROLEC EV INSTALLER.

Rolec EV now sponsors a programme of over 80 specialist EV chargepoint training courses for electrical contractors throughout the UK. These courses, as well as providing general information relating to the EV charging industry, also provide hands-on practical training on the Rolec EV chargepoint product range.

After completing your course, register as a Rolec Approved Installer by contacting: ev.registrations@rolecserv.co.uk

ACCESS TO OUR EV CHARGING RANGE

Our vast range of AC Fast & DC Rapid EV chargers are available across our distribution network of over 2,000 wholesalers in the UK and Ireland. Whether you require domestic or commercial chargepoints, your local wholesaler will provide you with all of the support you need when purchasing our EV chargepoints.

EV CHARGEPOINT BRANDING

Rolec offers bespoke colour and branding options across the majority of its EV chargepoint range.

These custom options are ideal for corporate branding, colours and logos.

Brand names, logos and trademarks used herein remain the property of their respective owners. This listing of any firm or their logos is not intended to imply any endorsement or direct affiliation with Rolec Services Ltd. and is purely to demonstrate branding opportunities.

THE **UK'S** LEADING MANUFACTURER OF **EV CHARGING POINTS**

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EV Charging

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