

# Electric Vehicle Chargers

# Future-Proofing Transportation

Following the release of the UK governments white paper on 3<sup>rd</sup> April 2024 regarding adapting the UK's transport system to the impacts of climate change. [Fit for a changing climate? Adapting the UK's transport system \(publishing.service.gov.uk\)](https://www.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/123456/fit-for-a-changing-climate-adapting-the-uk-s-transport-system.pdf).

As the demand for electric vehicles continues to increase, investing in an EV charger ensures that you are prepared for the future. We offer professional installation services to ensure a hassle-free experience. Our engineers are City and Guilds qualified and Zicam are NICEIC accredited. Utilising the expertise of our installation team, you can be assured that the installation will be completed safely, efficiently, and in compliance with local regulations.

Zicam Electrical Group offer customized EV charging solutions that align with your charging demands, bespoke solutions based on your available space, budget, and any specific features you may require, such as smart charging capabilities or multiple charging stations.







Zicam Group is recognised for its comprehensive services in supplying, designing, installing, and maintaining commercial electric vehicle (EV) charging stations.

We work closely with clients to exceed expectations and can cater to most settings. Zicam Group's expertise is evident in our ability to offer the full package, from the initial design to the ongoing maintenance of EV charging points.

We are committed to helping businesses improve their green credentials and meet net-zero targets by facilitating the transition to zero-emissions vehicles.

Our services are praised for being leading-edge and performance-driven.

Zicam Electrical Group Limited (West Midlands) Ltd is an [authorised Installer](#). (Installer number: EVHS/WCS12036) under the Office for Zero Emission Vehicles (OZEV) residential and commercial ChargePoint grant schemes.

We have the expertise and experience to install EV charge points as part of our business and we can offer you a range of options to suit your needs and budget

# Benefits of EV Charger Installation

**Cost Savings:** Charging an electric vehicle using an EV charger is generally more cost-effective compared to refuelling a conventional petrol or diesel vehicle. Electricity is typically cheaper than fossil fuels, over time, the savings on fuel costs can be significant. If you are concerned about the upfront costs of EV charger installation - we have financing options available, contact [EVC@zicam-security.co.uk](mailto:EVC@zicam-security.co.uk) for more information.

**Environmental Sustainability:** Electric vehicles produce zero tailpipe emissions, which helps reduce air pollution and greenhouse gas emissions. By using an EV charger to power your electric vehicle, you contribute to the reduction of carbon dioxide and other harmful pollutants, promoting a cleaner and greener environment.

**Improved Energy Efficiency:** EV chargers are designed to be highly efficient, converting AC power from the grid to DC power for charging your electric vehicle's battery. This results in minimal energy loss during the charging process, ensuring maximum efficiency and reducing energy waste.

**Government Incentives:** The UK government offers various incentives to promote the adoption of electric vehicles, including grants for landlords and commercial schemes and tax benefits. By using an EV charger, you may be eligible for these incentives, further reducing the overall cost of owning and operating an electric vehicle. You can apply via the [Government Workplace Charging Scheme Application form](#).

**Increased Charging Infrastructure:** The UK government and private companies are investing in the expansion of the public charging infrastructure. This means that there is a growing number of EVC chargers available in public spaces, making it more convenient for electric vehicle owners to charge their vehicles while on the go.



# Zicam and Rolec

**ROLEC**

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Zicam's chosen partner is with Rolec EV, a leading electric vehicle ChargePoint manufacturer. Zicam are a Rolec EV Approved Installation Partner

With over 15 years of experience in the EV industry, Rolec have designed, manufactured and installed electric vehicle charging points across some of the most renowned locations amongst numerous industries.

From EV charging solutions for the home, commercial locations, workplaces and fleets, Rolec EV provides an exceptional service led by a team of dedicated experts. Whilst offering the UK's largest range of AC Fast and DC Rapid charging points, Rolec has the reputation for delivering cost-effective, scalable solutions to suit all budgets and requirements.

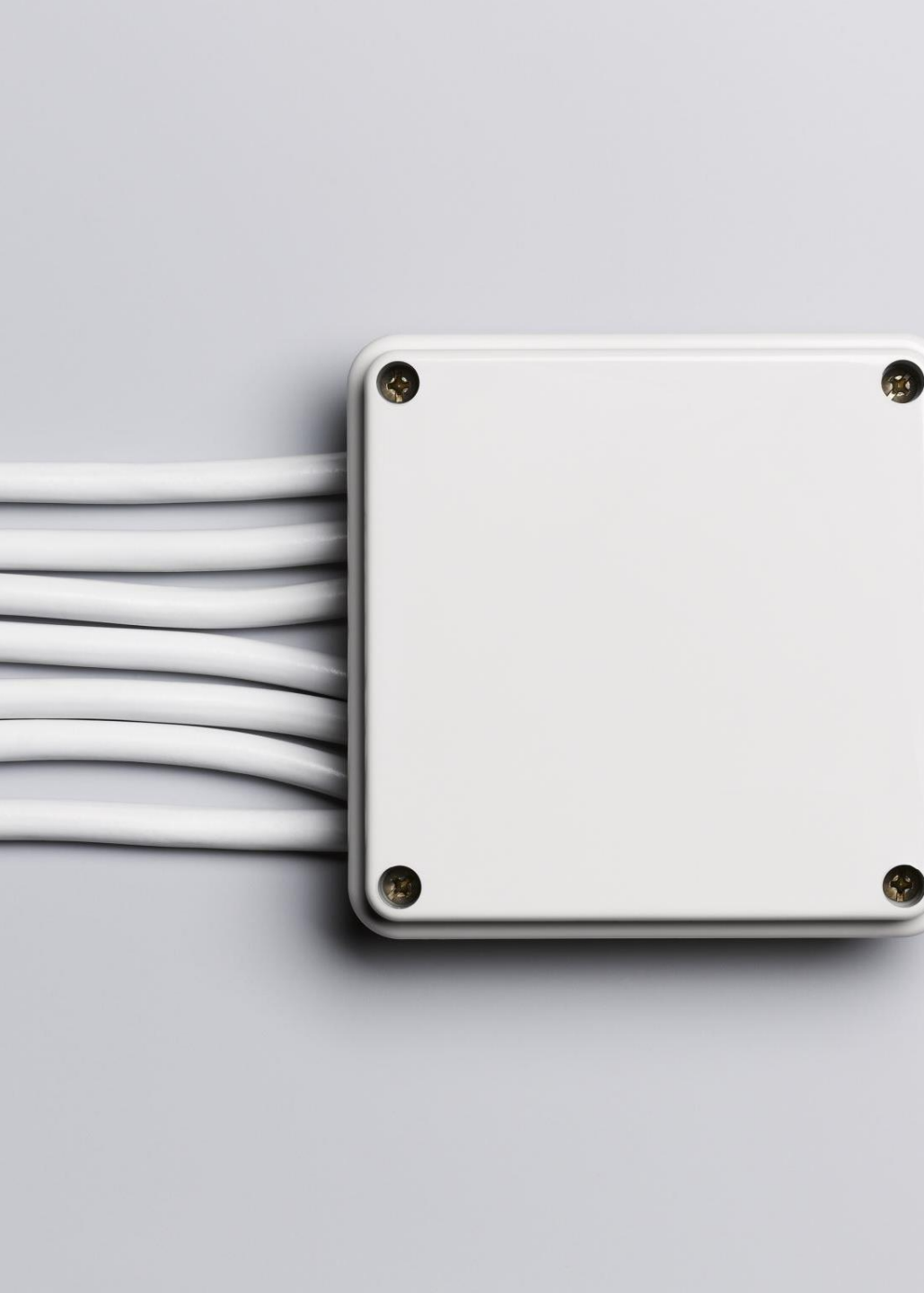
To check if your business is eligible for the workplace charging scheme submit the form below:

[Workplace Charging - Enquiry | Rolec Services Ltd](#)

Following installation [Cleenergy](#) helps you manage your operations and maintenance by optimising all the following aspects of EV charging management operations:

- *Proactively resolve up to 80% of operational issues automatically*
- *Manage issues remotely when necessary*
- *Access detailed logs, charging sessions, status reports, and more*
- *Deploy new firmware versions, run diagnostics, monitor status*

Cleenergy EV offers flexible [pricing](#) to suit all your requirements



# Installation of Electric Vehicle Chargers

## Home Charging Stations

Installing an electric vehicle charger at home can be a simple process that involves mounting the charger on a wall, connecting it to a circuit breaker, and plugging it into a power source. Some chargers can also be plugged into a standard electrical outlet.

## Public Charging Stations

Public charging stations for electric vehicles can be installed in a variety of locations, including parking lots, garages, and highways. The installation process can involve electrical work, such as running conduit and wiring, and may require permits and inspections.

# Public Installations



## Types of Public Charging Stations

There are different types of public charging stations, including level 1, level 2, and DC fast charging stations. Level 1 stations use a standard 120-volt outlet and provide about 4-5 miles of range per hour of charging, while level 2 stations provide about 10-20 miles of range per hour and use a 240-volt outlet. DC fast charging stations provide up to 80% charge in about 30 minutes and are ideal for charging on the go.

## Installation Process

The installation process for public charging stations involves several steps, including site selection, electrical upgrades, permitting, and installation of the charging station. It is important to choose the right location and charging station that meet the needs of the community.

## Benefits of Public Charging

Public charging stations provide several benefits, including reducing range anxiety, promoting electric vehicle adoption, and reducing greenhouse gas emissions. They also help to improve air quality and promote sustainable transportation.





# Thermometric cameras

Zicam can provide and install [Thermometric cameras](#) as part of the solution to monitor the charge points and ensure their safety and efficiency.

These are Bi-Spectrum so have two lenses in each camera. One for normal surveillance & one is thermographic to monitor Changes in temperature.

- *Thermometric cameras are cameras that can measure temperature and detect anomalies, these cameras contribute to EV charging stations by:*
- *Measuring temperature*
- *Detecting anomalies such as overheating, fire, or vandalism.*
- *Alerting to issues or malfunctions for quick troubleshooting and resolution.*
- *Protecting investment and ensuring customer satisfaction.*

Thermometric cameras can help you protect your investment, prevent damage, and ensure customer satisfaction.

- Another solution would be [Handheld Thermal Guns](#). These are devices that can measure temperature on the spot and can be used for various purposes detailed below:
- *Checking the health of staff and visitors*
- *Verifying the accuracy of the cameras or conducting inspections.*

These are easy to use, portable, and affordable.