EV CHARGING

FOR COMMERCIAL SITES

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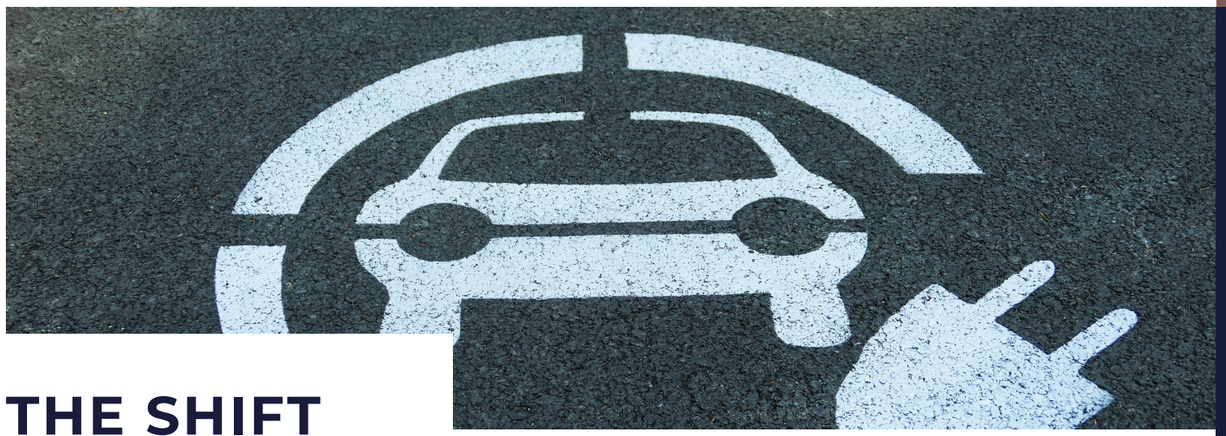

THE SHIFT TO ELECTRIC TRANSPORT

The transition to electric vehicles is accelerating.

Government policy, manufacturer commitments, and corporate sustainability targets are all driving increased EV adoption across fleets, employees, and visitors. For many organisations, the question is no longer whether EV charging is required, but when and how it should be implemented

Installing EV charging goes beyond compliance. It helps future proof sites, supports operational change, and aligns with wider energy and carbon strategies.

On site charging delivers practical and strategic benefits. It supports lower carbon fleets, enhances workplace sustainability, and can influence employee travel choices.

For retail and destination sites, charging can attract visitors and increase dwell time. As adoption grows, EV charging is becoming core infrastructure.

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THINGS TO CONSIDER

User Type
Who will be using the chargers, such as employees, fleet vehicles, or visitors

Dwell Time
How long vehicles typically remain on site, helping determine the right charging speed

Electrical Capacity
The available power supply and infrastructure on site.

Primary Objective
Whether the goal is convenience, fleet support, or revenue generation.

ELECTRICAL CAPACITY AND GRID CONSIDERATIONS

EV charging connects directly to your existing electrical infrastructure. For some sites, there is sufficient spare capacity to accommodate chargers without modification. For others, electrical upgrades or network engagement may be required.

High-powered chargers in particular can have a material impact on site load profiles.

Smart charging technology can help manage demand by balancing load across multiple chargers and avoiding unnecessary infrastructure upgrades. In some cases, integrating solar generation or battery storage can further optimise on-site energy use and reduce reliance on grid imports.

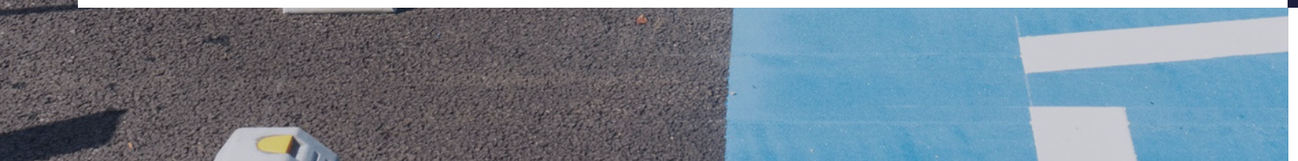
Early technical assessment prevents late-stage redesign and protects project economics.

EV charging should not be considered in isolation.

When integrated with on-site solar, charging can make better use of locally generated electricity and reduce exposure to grid price volatility. In constrained grid areas, renewable generation can also support capacity management.

For multi-site organisations, aligning EV rollout with wider decarbonisation planning creates consistency across estates and strengthens ESG reporting.

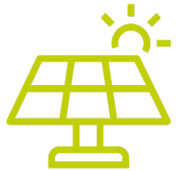
Energy infrastructure works best when designed as a system rather than as separate components



FUNDING & COMMERCIAL MODELS

Self Funded

Potenital to be supported by government incentives.



Integrated with renewables

Bundled with solar projects to reduce upfront costs.

Third-party funded

Solar provider installs the system in return for revenue share.

The appropriate model depends on:

- Ownership objectives
- Appetite for capital deployment
- Expected utilisation rates
- Long-term site strategy

THE PROCESS

01
Assess Requirements

Start by understanding how charging will be used on site, including who the users are, how often charging is needed, and expected future demand. This helps define the number and type of chargers required and ensures the solution supports both current needs and long term plans.

02
Review Capacity

Assess the site's existing power supply and capacity to determine what can be supported. This includes identifying any constraints and whether upgrades or energy management solutions are needed to enable installation.

03
Plan Layout

Select practical and accessible locations for chargers, considering parking layout, traffic flow, and future expansion. A well planned design improves usability and helps ensure efficient installation. with your business objectives.

04
Commercial Approach

Evaluate costs, funding options, and potential returns. The chosen model should align with organisational goals, whether focused on cost recovery, revenue, or sustainability.

05
Install and Commission

Install the infrastructure, test performance, and ensure everything is fully operational. Final checks and handover support a smooth transition into day to day use.

Timescales vary depending on electrical upgrades and charger specification, but structured planning reduces risk and avoids disruption.

FULLY FUNDED, TURN-KEY LONG TERM SOLUTIONS

EV charging is becoming a standard component of modern commercial sites.

Whether supporting fleet electrification, improving visitor experience, or strengthening sustainability credentials, the infrastructure decisions made today will influence operational performance for years to come.

Shawton Energy works with organisations across the UK to assess, design, and deliver EV charging solutions that align with wider renewable energy strategies.

If you are exploring EV charging for one site or across a wider portfolio, we would be happy to discuss the most appropriate approach for your organisation.

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