

# Mitie EV charging solutions

## Powering the future

### Designing, installing and maintaining EV charging infrastructure with Mitie

The sale of new diesel and petrol cars ends in 2030 and already the number of electric vehicles (EV) is increasing. **9.7% of vehicles registered in 2020 were electric compared to 1.1% in 2015\***. With increased use of electric cars comes a demand for convenient and reliable EV infrastructure. The Government has committed to delivering an extensive EV charging network including 2,500 high powered charge points by 2030\*\* and has made two OLEV schemes available to help fund the investment. Facility operators need to install the required infrastructure to meet the demand, and have the opportunity to generate revenue by charging users a kilowatt-hour fee.

EV charging infrastructure installed must be future-proofed and scalable in preparation for increased demand. This includes ensuring sufficient electrical capacity for the EV chargepoints to operate. On-site self-generation and storage of power will mitigate future electrical capacity challenges.

Mitie's EV charging infrastructure experts deliver:

- Detailed assessment and designs of EV charging infrastructure solutions
- Turnkey installation and commissioning of EV chargepoints, power infrastructure and related civils
- Full life-cycle maintenance and fault resolution of EV charging systems

Smart software provides visibility of charger status, usage and carbon & energy savings. All solutions are delivered using our OLEV approved supply chain and partners.

**The result?** A complete lifecycle solution for the design, installation and maintenance of EV charging infrastructure, which is future-proofed to meet increased demand.

### Mitie's Turnkey EV Charging Infrastructure Solution



#### Design

Mitie assesses in detail EV charging and electrical infrastructure requirements carried out by Mitie's industry experts. Bespoke, scalable designs utilise hardware and software from our proven technology partners and are based on industry standard protocols.

#### Install

Turnkey project deliver from Mitie to install EV chargepoints, HV and LV infrastructure, network connections and upgrades as well as associated civils and renewable power solutions including solar PV and storage. Includes the commissioning, handover and demonstration of EV chargers.

#### Maintain

Complete life-cycle support including planned maintenance of EV charging infrastructure. Smart software solutions report charger usage and monitor hardware performance. Connectivity is used to find and fix faults remotely and qualified engineers replace faulty hardware components meeting KPIs and SLAs.

## Mitie has self-delivered one of the largest electric fleets in the UK

920

The number of electric vehicles in our fleet so far. By 2025 we'll have over 5,500.



650

The number of EV chargepoints we have installed at Mitie offices and employee homes.

## We are proud of our own EV fleet achievements and have won multiple awards



**Winner**

Private Sector Fleet of the Year  
Green Fleet Awards 2020



**Winner**

Green Fleet of the Year  
Business Car Awards 2020



**Finalist**

Fleet Management of the Year  
Edie Awards 2021



## Solution design

Mitie EV charging infrastructure solution will:

Review existing infrastructure

Assess building electrical capacity

Assess projected occupancy of carpark and EV fleet size/user uptake

Determine the type and number of chargepoints required

Review legal compliance requirements



Identify renewable power generation options e.g. Solar PV & storage

Define a software management strategy

Create a load balancing strategy

Ensure the solution is scalable for future demand

Develop options for revenue generation

## Designing, installing and maintaining EV charging systems



### We have installed 740 chargers across customer sites

#### A large insurance provider

##### **We have been supporting a client to design, install and maintain new EV charging infrastructure.**

We have installed EV chargepoints at their newly refurbished facility giving their staff immediate access to chargepoints. We deliver the maintenance and utilise smart software to monitor the performance of hardware.

The client plans on transitioning over 100 mobile management employees to electric vehicles and are also encouraging uptake of electric vehicles in their privately owned fleets through incentive schemes. Our design, including the electrical capacity, has been scaled to address this projected increased demand.

The client wishes to make EV charging facilities available to the public and we are reviewing local charging infrastructure to assess potential demand from the public. Utilising our Plan Zero capabilities we are developing schemes with the client to reinvest the revenue generated into their local social value projects and biodiversity schemes.

#### Major pharmaceutical company

##### **We have carried out a detailed EV charging infrastructure assessment across the client's estate.**

Having already invested in EV charging infrastructure they have 28 points installed across their estate. However the installed capacity is not meeting the demand on site and is not scalable for future demand.

Our experts conducted a long term review of their estate projecting occupancy of the car park, uptake of EV vehicles, planning requirements for new buildings as well as the clients own sustainability targets.

The report identified considerable projected growth in EV demand and recommends:

- **43 EV chargepoints installed by 2025**
- **644 EV chargepoints installed by 2030**

The report also assesses the infrastructure upgrades that are required to support the increased number of charging points, including electrical supply upgrades.



## Designing, installing and maintaining EV charging systems



### A logistics organisation

#### We have supported a client in the large-scale roll out of their EV infrastructure.

Project scope included:

- Installation of 548 chargepoints
- Delivery of associated civils and electrical works
- Working with approved supplychain partners and technology O&Ms
- Support the delivery of their environmental targets.

### Did you know?

The current Government Consultation\* recommends that every new build or renovated non-residential building with more than 10 car parking spaces must have one chargepoint and cable routes for one in five spaces installed. All existing non-residential buildings with more than 20 spaces must have one chargepoint installed by 2025.

\*Electric Vehicle Charging in Residential and Non-Residential Buildings July 2019

### Grants and funding - We support organisations to apply for available grants.

#### OLEV Workplace Charging Scheme (WCS)

A grant of £350 per charger available for up to 40 charge points at commercial locations.

#### OLEV Electric Vehicle Homecharge Scheme (EVHS)

A grant of £350 available for all employee home locations. Our portal solutions makes the collection of necessary data from employees simple.