Electric vehicles are a clean and efficient alternative to vehicles with an internal combustion engine but require a viable recharge infrastructure.

Our Lighting and Energy Solutions Team provide comprehensive EV infrastructure consultancy services for both public and private sector clients.

Technology improvements have expanded the range and speed of vehicles and are now becoming a more viable option for busy commuters.

By promoting the switching from petrol vehicles to electric vehicles both the public and private sectors can help to improve air quality and reduce greenhouse gases.

In order to promote the use of such vehicles it is important to develop a suitable electric vehicle infrastructure to cover the complete user journey. Thus providing peace of mind to the user that they will be able to charge their vehicles when required and within time scales that suit their needs.
Through our experience in advising existing clients as well as developing the Institution of Engineering and Technology (IET) Guide to Highway Electrical Street Furniture, we are able to support, advise and develop EV charging strategies and installations including not limited to:

- Determine charging needs, from trickle charging at home through rapid charging along the journey to fast charging at journey’s end.
- Electrical capacity surveys to determine the existing electrical provision and how this may suit or may have to be develop to meet the charging infrastructure needs.
- Advise on the choice on the differing and developing EV charging options and how they can be deployed.
- Provision of planning support and local authority liaison when considering charging point locations.
- Durability, reflecting the anticipated demand and levels of use to ensure a long term sustainable solution.
- Suitability of points for disabled users.
- Compatibility with the majority of electric vehicles use.
- Infrastructure design taking a minimalist approach looking to a ‘clutter free’ street environment.
Competency

All staff undertaking this work are qualified Electrical/Highway Specialists, who are fully conversant with the requirements of highway infrastructure, recharge points and their operation.

For highway electrical installations, competency requirements relate to the National Highway Electrical Registration Scheme.