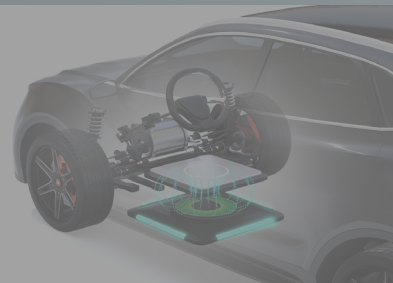




Electric Vehicle and Infrastructure Consultancy



Client Profile

Making optimum decisions

Adopting EVs into an organisations' fleet can be a great opportunity for carbon reduction, but as in any emerging market, making the optimum decision for the organisation relies on the correct interpretation of sales-based information.

An informed strategic approach

Taking a strategic view and making the correct, evidence-based technology choices will deliver carbon reductions and business efficiency gains.

Plenty of mis-information

The risks and implications of (non-strategic thinking) can result in incurring noticeable operational inefficiencies, misplaced expenditure on EVs and associated infrastructure and unfulfilled expectations.

Delivering best outcomes

We demystify the transition to EVs and EV charging technology to deliver the best outcomes for organisations.



How Plugin Power can help you...

Guiding you to relevant resources

We have been critically examining the development of EVs and EV infrastructure for a number of years.

We have identified that Fleet Managers, Infrastructure Planners and Operational Managers are faced with such a huge amount of information and opinion regarding EV and EV charging, that it can be difficult to interpret.

We are your E-mobility Strategy Partner

We help you make the best evidence-based decisions and take a strategic view of e-mobility by:

1. Understanding your specific needs and vision
2. We work with you to create a roadmap to e-mobility
3. Implementing and delivering the agreed solutions



How Plugin Power can help you...

Market intelligence and analysis

Signposting to relevant resources (online learning, etc)
Offering independent, impartial advice

Help you with:

Revenue generation opportunities

Understand revenue generation potential of your E-mobility infrastructure

Carbon Reporting

Helping you to report your carbon reductions resulting from your EV fleet and charging infrastructure.

Maximise income generation

How to collect and monetise your data from your EV infrastructure
Data ownership and handling – where does your data go, is it secure, who is responsible and owns it?

Planning infrastructure locations

What else is in the vicinity?
Understand commuter and commercial traffic analytics, parking habits
Understand how the local electricity network will influence your decision making.
Developing the opportunity for integrating local power sources



Expert Knowledge available for...

Low Carbon Consultants

Provide specialist support for your Net Zero efforts with EV specialist information

The Public Sector

Providing you with either a guided approach to EV best practice, or introductions to specialists

We engage with ChargePoint manufacturers and data system providers, rather than the installers, ensuring you learn about the latest technology and best practices.

Businesses and Organisations

From individuals, SMEs and larger organisations, you get a tailored, relevant approach
Help you to identify current and future needs

Event Organisers

After discussing your needs, we can introduce you to relevant solutions, including temporary power



Continuing the EV Conversation...

DSO (Distribution System Operators)

Are there regional roadmaps to upgrade legacy infrastructure?
- Who sponsors this extensive piece of work?

DER (Distributed Energy Resources)

Can our aging grid cope with en-masse bi-directional power flow?
How could EVs play their part - V2x

DSR (Demand Side Response)

Creation of an Energy Marketplace
Payments for generating and releasing energy to the grid

Political vs Grid Infrastructure needs

Optics of ultra rapid charging hubs vs underlying infrastructure

Changing EV driver habits

Introducing out of town park and charge facilities. 8 hours charging once a week?

Smarter than "Smart" Meters ?

Emerging alternatives - opportunities, risks



About Plugin Power

Established in 2020, Plugin Power is an established enabler of technology solutions to meet the needs of organisations of all sizes and complexity.



About Tony Shorthouse

I have been working in IT Consultancy for ten years, and bring extensive knowledge to the renewable energy sector at a time of incredible change.

I was invited to contribute to a thought leadership paper
“Best Practice for Future Proofing Electric Vehicle Infrastructure”
(March 2020, BEAMA)





Get in touch

Phone: +44 7851 251271

Email: sales@plugin-power.com

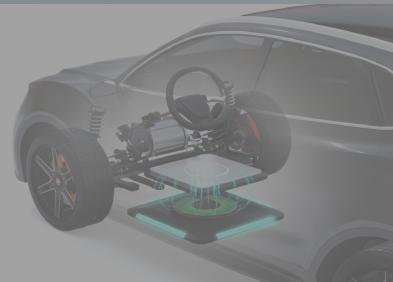
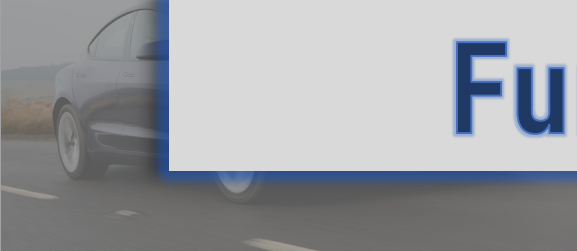
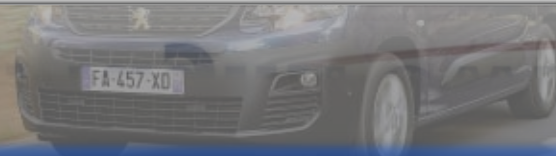
LinkedIn: [linkedin.com/in/tonyshorthouse/](https://www.linkedin.com/in/tonyshorthouse/)

Also available online via Zoom, Teams, Skype and WhatsApp





Further Information



Electric Vehicles come in all shapes and sizes



Heavy-Duty vehicles



Passenger Service Vehicles



Specialist Vehicles



Cars



Agricultural Vehicles

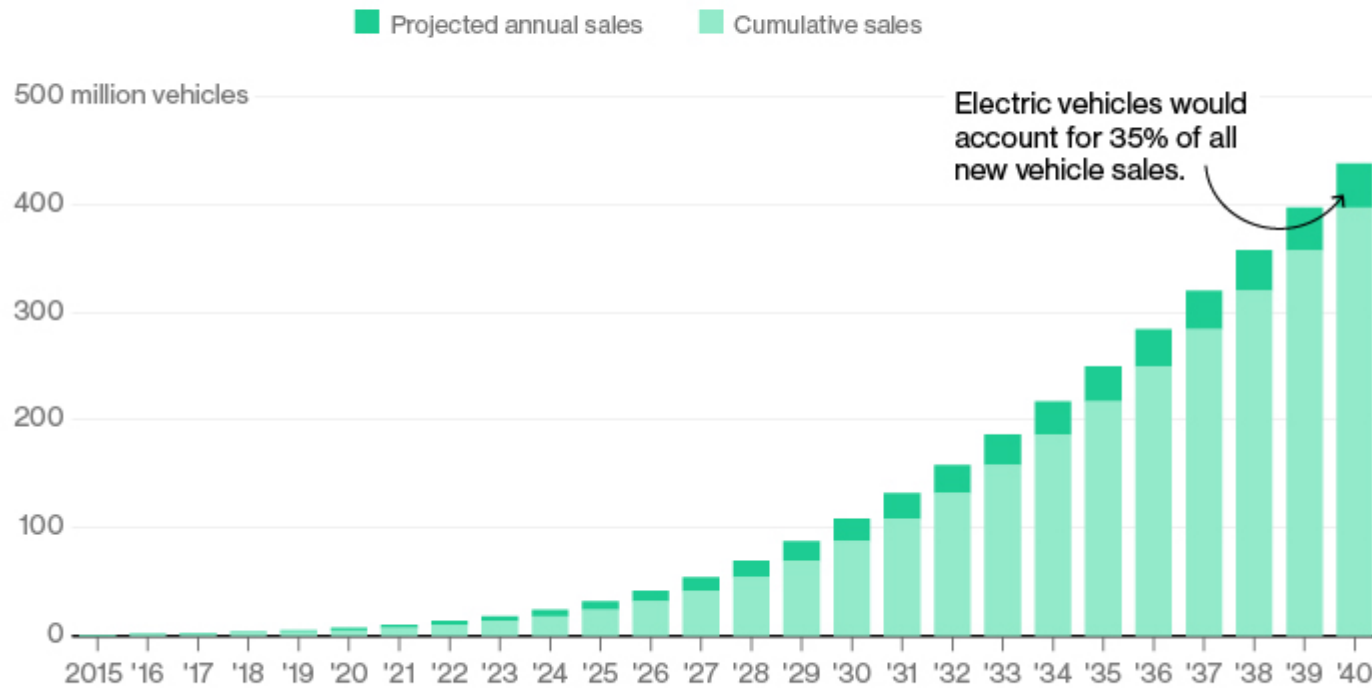


Light Commercial



The Rise of Electric Cars

By 2022 electric vehicles will cost the same as their internal-combustion counterparts. That's the point of liftoff for sales.



Sources: Data compiled by Bloomberg New Energy Finance, Marklines



LIGHT COMMERCIAL VEHICLES DELIVERING FOR THE UK ECONOMY



The SME sector

The majority of privately-owned vans are operated by a booming SME and sole trader sector



Self-employment has risen from **3.3 million** in 2001 to

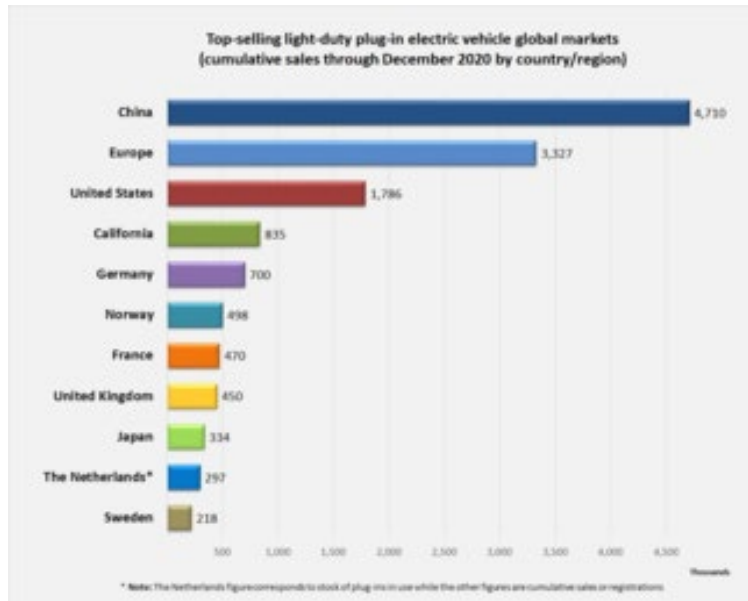
4.8 million in 2017

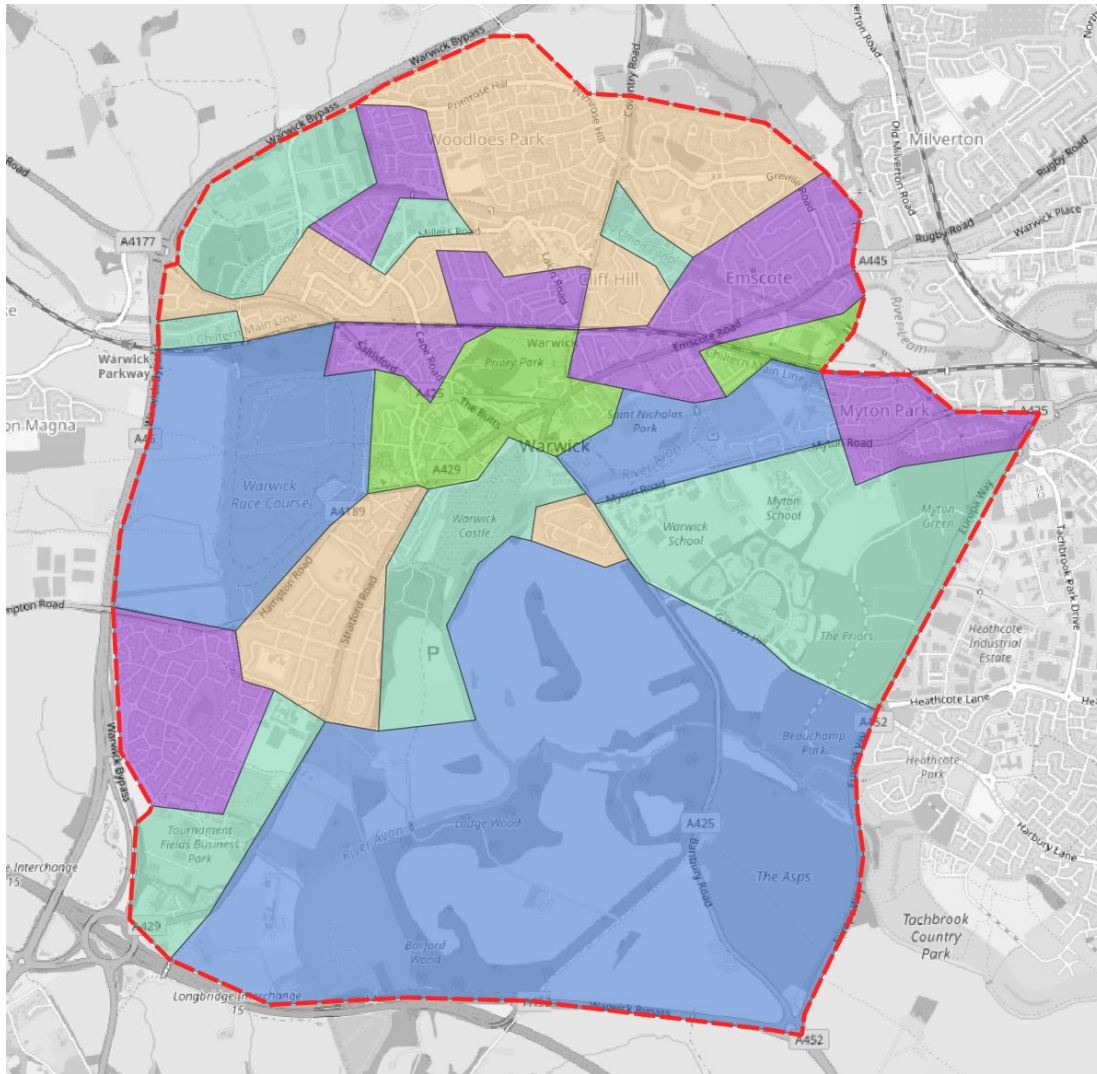


Interested in the “Try before you buy” scheme?

Leading global brands now in the UK include

- Maxus
- BYD





Location, Location, Location

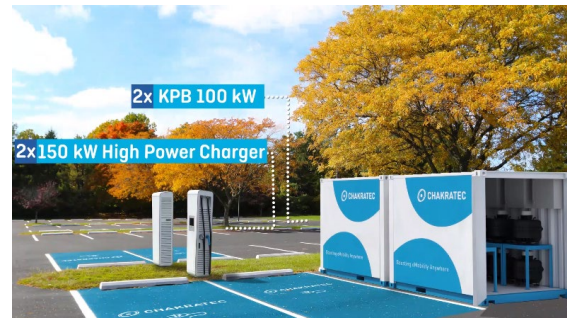
- Are you using evidence to support where to locate chargepoints?
- How to future-proof your chargepoints
- Payment systems and backend data



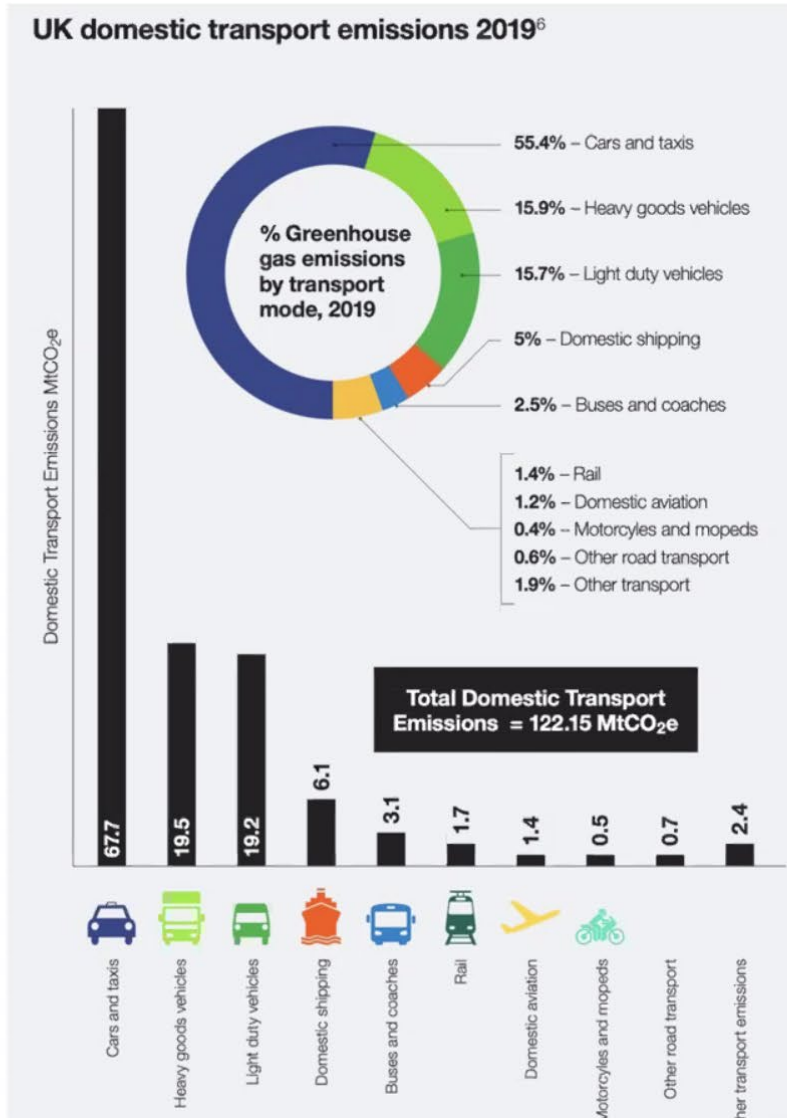


Highlighting Innovations

- Have you made your chargepoints easy to swap-out or replace during an upgrade?
- Could your fleet be using hosted charging in residential areas?
- Could you benefit from mobile charging solutions?



All transport modes require action



UK wide plan, with international engagement for maritime and aviation
However some areas remain devolved to regional government / assemblies

45 commitments within the strategy, including **11 consultations** / green papers

Released with the strategy

- Jet Zero aviation (by 2050)
- Non-ZEV new HGV sales phase out (by ????)
- Regulatory framework (Green paper) road vehicle CO₂ emissions
- Rail Environmental Policy Framework

To follow ...

- Non-ZEV new bus / coach sales phase out (by ????)
- Bus Service Operators Grants Scheme (revision)
- Non-ZEV new two & three wheeler sales phase out (by 2035)
- Mobility As A Service Code of Practice
- Non-ZEV new vessels sales phase out (by ????)
- Mandate Shore to Ship Power provision
- UK Domestic flights and airport operations net zero (by 2040)
- Mandate Sustainable Aviation Fuels "SAF" provision

Separate plans for Carbon Management Programme and UK National Adaptation plan for full carbon lifecycle, infrastructure resilience and climate mitigation

 ewwales



Blue light Services

- EVs are already being used by blue light services for support services in the UK
- EV OEMs are promoting the testing of first response vehicles globally
- Are EV support vehicles required?

