

mer

Pure energy from Statkraft

A BEST PRACTICE GUIDE

Public EV Charging Infrastructure





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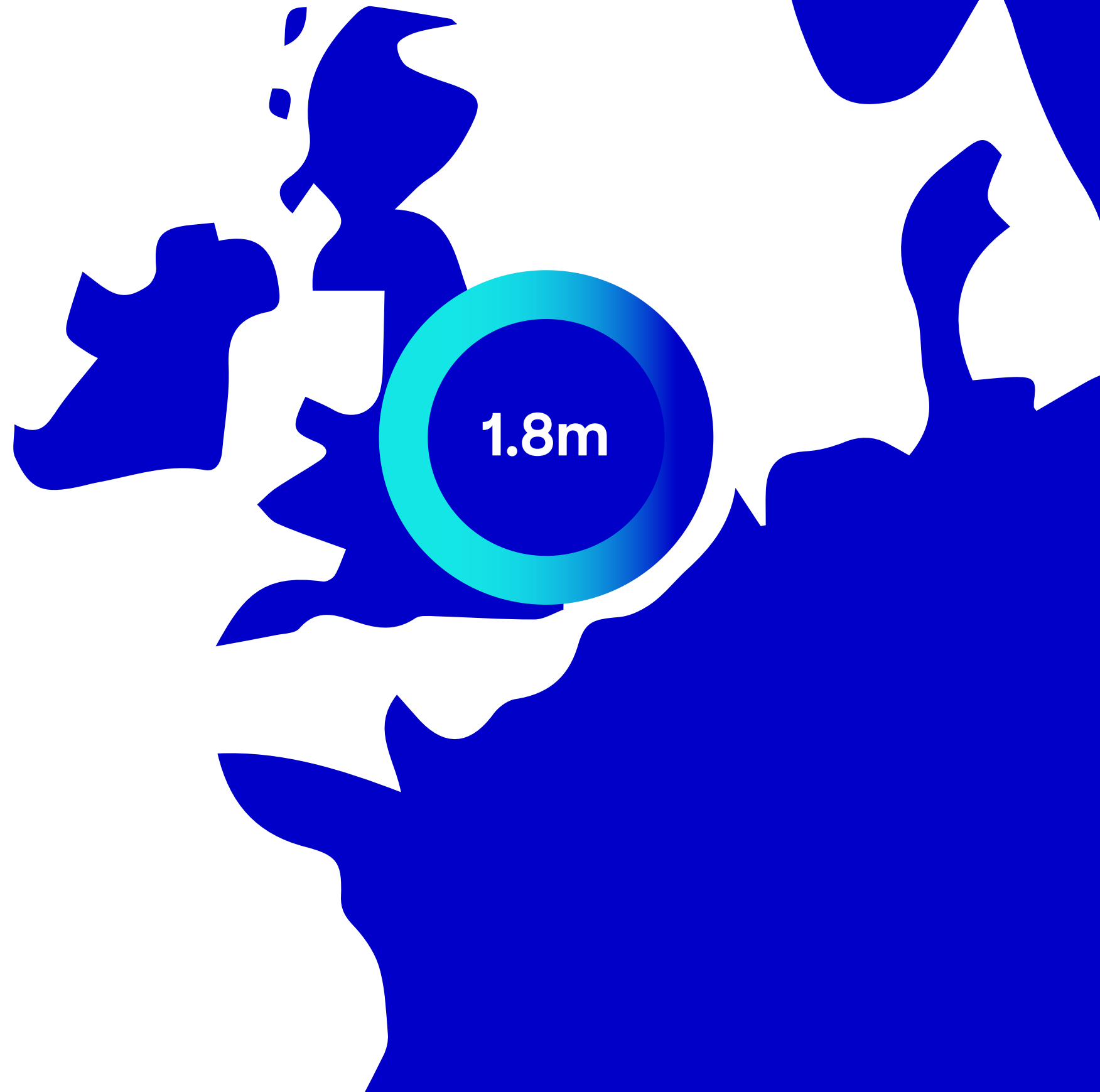
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EV charging in the UK

The electric transportation industry is growing rapidly. By the end of 2021, more than one quarter of new cars sold in the UK were battery EVs. With 1.8 million electric vehicles (EVs) in Britain as of June 2022, the country's public charging infrastructure needs to keep up with the demand for EVs over the coming years.

The UK Government has committed to phasing out the sale of new petrol or diesel vehicles by 2030.



300,000

The Government envisions access to reliable public charge-points as a prerogative for everyone, charge point inclusivity, and accessible on and off-street charging for private and commercial drivers.

At the end of July, there we almost 33,300 total charging devices across the UK. The Government expects the number of public chargers to grow to 300,000 by 2030.

JULY 2022

33,000

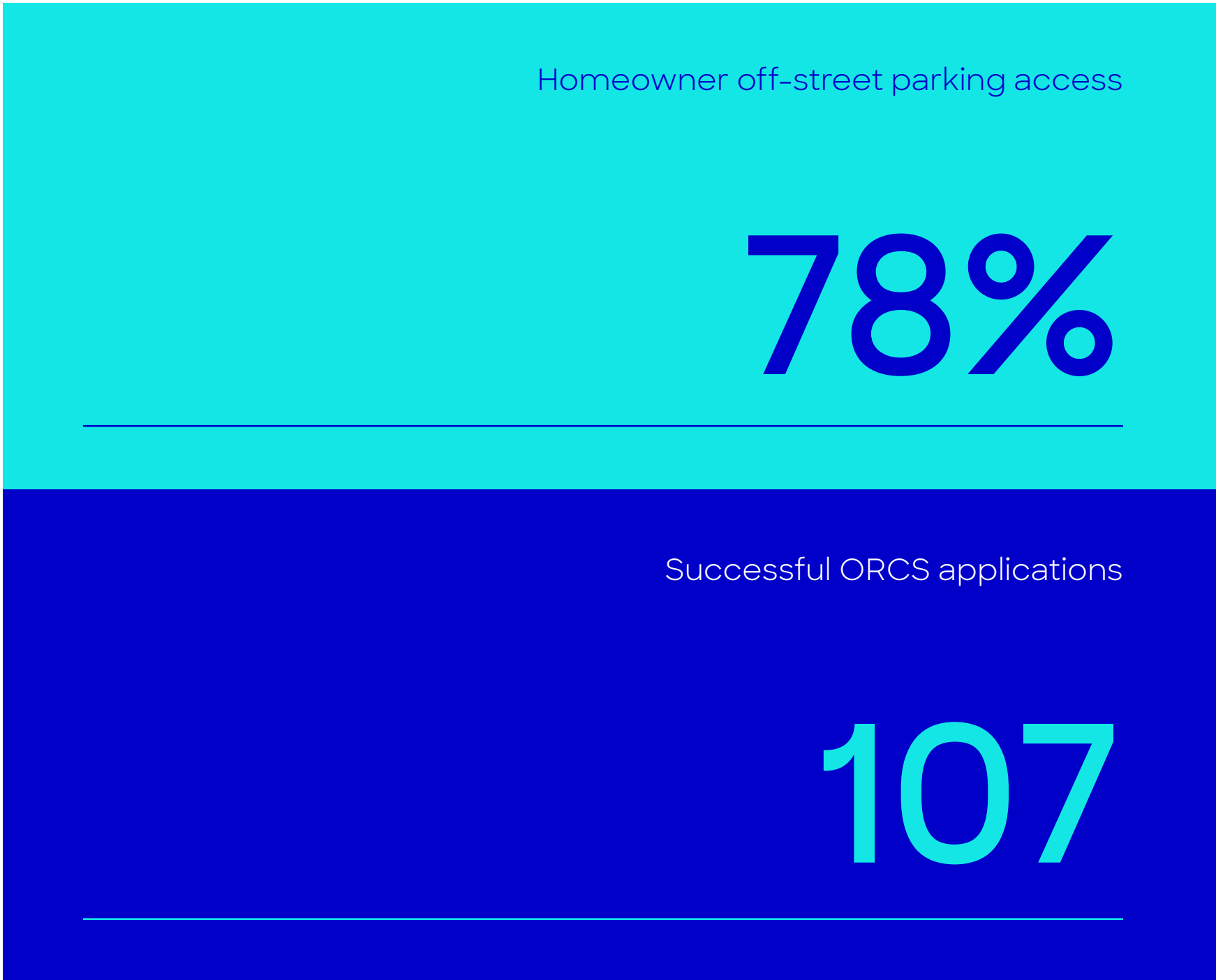
2030

300,000

Only 78% of homeowners have access to off-street parking. Public charging is fundamental for encouraging those without access to off-street parking to see electric transportation as a viable option for them.

The Government is depending on local leadership to support the UK's transition to zero emission vehicles with charge point delivery, but progression is lacking.

Only 107 councils have made successful applications under the On-Street Residential Chargepoint Scheme (ORCS).



Council learnings.

Mer has worked with local authorities and public sector bodies across the country, introducing and developing EV charging infrastructure to their portfolio to support their sustainability targets.





Case study: Durham County Council

Durham County Council's public EV infrastructure was in desperate need of upgrading, with less than 50% public chargers functional in 2019.

In February 2019, Durham County Council declared a climate emergency.

In their Climate Emergency Update Report, they committed to reducing carbon emissions from its own operations by 80% from 2008/09 levels by 2030, and aimed to install EV charging posts at all appropriate Council locations to incentivise low carbon commuting.

Mer joined with the Scaling on Street Charging Infrastructure (SOSCI) project to install 150 EV charge points across 67 locations that were chosen based on residential demand.

Our charging stations have recorded 67,474.3 kWh of usage to date, which accounts for more than 190,000 miles of clean driving.

The Council won the 2022 Best EV Charging Project award from the Municipality Journal following our work.

“Durham County Council has been working with Mer since 2019 when we became part of a consortium to work on the SOSCI (scaling on street charging infrastructure) project. Mer worked with Durham on installing chargers with a focus on residents without a drive or garage to charge a vehicle. With 40% of houses terraced in Durham we soon realised we needed more charge points and applied for more funding to do other projects.

Since 2019 we have installed over 150 EVCPs in Durham over 4 projects. We have produced a best practice guide for local authorities and looked at accessible EV charging posts – these reports are available by contacting [Tracy Millmore](#).

My advice would be to ensure **communication** is key when installing EV charge points. Build a relationship with your installer, your DNO providers and internal areas of council services such as land and property, procurement, legal, parking and highways team. Externally, we built relationships with residents who would be using the charge points. Mer, our installer, were heavily involved in all our discussions with services, residents etc. Mer listened to what was wanted, needed in County Durham and where we could we installed to specifications.”

Tracey Millmore, Electric Vehicle Project Officer at Durham County Council.

Case study: Dorset Council

With goals such as maximising ultra low carbon vehicle replacement within the Council fleet and investigating the development of small-scale ‘park & ride’ hubs with access to EV charging points, Dorset Council needed to drive investment in EV charging accessibility.

Mer worked with installers Joju to fit over 40 charging units over 18 sites. Installs took place across Sherborne, Dorchester and Weymouth.

One of the best performing on our network, the demand for the charging infrastructure in Dorset has resulted in a second phase of charging development.



Phase 2 of the development, partly funded by the Office for Zero Emission Vehicles’ £125k grant, will see 27 new charge points across the borough.

Mer’s reliable and efficient chargers have helped Dorset Council on their route to becoming carbon neutral by 2040.

“Working with Mer on our ambitious charge point installation programme has been a breeze. Right from the start, we realised we were both on the same page when it comes to providing charging infrastructure. As a local authority, Dorset Council’s strategy has always been to get a reliable network of charge points in as many key locations as possible in order to encourage the uptake of electric vehicles, especially for households without access to off-street charging. We’re looking forward to working with Mer on the next exciting phase.”

Chris Whitehouse, Transport Projects Officer at Dorset Council.

Council toolkit

Published 13 April 2022, the UK Government's 'Zero emission fleets: local authority toolkit' outlines the importance of reducing greenhouse gas emissions from vehicles that carry out council services.

The UK Government itself has set a target for 100% of central government cars and vans to be fully zero emission by 2027, and local councils can follow their lead by switching their fleets to electric.

Switching to an electric fleet is highly cost effective, will help your Council to achieve its climate goals, and will encourage wider EV adoption in your borough.

This necessity requires zero emission fleet vehicles. Mer is placed to help you consider your options.

TOOLKIT >



GUIDANCE

Zero emission fleets: local authority toolkit

Published 13 April 2022

Case study: East Devon District Council

East Devon District Council are aiming to reach carbon neutrality by 2040. In 2020, the Council trialled specially-modified electric vans in its street-cleaning fleet; to support this shift, they required charging infrastructure.



“The process has been very straightforward and there’s always been support at the end of the phone when we’ve needed it.”

Nick Cristo, Operations Manager at East Devon District Council

Mer (formerly Elmtronics) installed EV charging with the Council, which means they can charge their fleet overnight from 4 dual smart charge points at Exmouth and Sidmouth depots.

We also installed charge points at the Council’s head office in Honiton for use by staff and visitors.

The Council are learning from this project and looking towards the future. Nick Cristo, Operations Manager at East Devon District Council, said their next step is to “use the data from the back office to look at our vehicle usage and how much carbon we have offset by going electric. It will also help us to plan to expand our electric fleet even more.”



Charging hubs

What is the importance of EV hubs for public & commercial use?

Urban charging hubs in well-positioned areas could contribute to supporting the accessibility of the UK's electric transportation.

Aggregating and centralising the power for the charging hub means that one larger grid connection is required to energise the charging hub. This means less trenching and localised disruption in most cases. This approach will result in a more cost-effective grid connection on a per-socket basis.

Urban charging hubs can also contribute to solving the issues created by residential on-street charging. A typical lamp-post charger will offer 2-7kW, whereas an Ultra-Rapid charger can

provide up to 350kW. This means that a driver will stop for 10-20 mins at an Ultra-rapid charging point instead of hours at an on-street charger. This flexibility and convenience mean that a sustainable business model can be created.

Overall, this future-proof model will ensure drivers no longer have to queue at charge points for long periods and can charge their EVs efficiently. In addition, the increased accessibility of EV charging at the hubs will help to encourage more residents to adopt electric transport.

Get going

**5 steps to get started
with EV infrastructure**





1.

Learn from what others have done

Mer has supported councils across the UK to level up their EV charging infrastructure. You can find out more about our projects on our [Case Studies page](#).

2.

Look at funding options available to you

The Government is supporting local authorities to reduce barriers to the rollout of EV charging infrastructure with a range of financial schemes.

On-Street Residential Chargepoint Scheme: funding towards the capital costs of public charging installation for residents without private parking, including on-street developments and developments in local authority-owned residential car parks.

Local EV Infrastructure Fund: support for local authorities leverage private sector investment into local charging networks.

Workplace Charging Scheme: support for local authorities to electrify their fleets and help staff transition to EVs.

Mer is a supplier on several ‘frameworks’, which are designed to make it easier for public sector bodies to procure a commercial partner to install public EV charge points:

Kent County Council via KCS Professional Services: Mer can provide a full EV charging solution (design, supply, installation, support and maintenance).

Crown Commercial Services: Mer can provide an end-to-end charging infrastructure solution (funding, installation, project delivery).

EPSO: Mer can supply, deliver, install and commission charge points, and service and maintain existing charge points, consultancy services and emerging technologies are also covered.

Oxford DPS: Mer can provide a range of solutions.

Mer also offers financed models for authorities and councils, including fully-funded packages that provide chargers and installation with profit share options.



3.

Choose a CPO that cares about sustainability and not just profit

You should not only assess your CPO for their ability to provide long-term support for you and your residents, but also how conscious they are to provide environmentally-friendly charging solutions.

Backed by Statkraft's 125 year legacy in the renewable energy sector, we have strong sustainable ambitions. Our charge points are powered by zero carbon, 100% renewable energy. You will also be partnering with a company that has reached carbon neutrality.

Mer observes sustainability beyond installing EV charge points. We are committed to a greener future for the UK. We have also incorporated sustainability into our business strategy, evidenced by our carbon accounting and One Charger One Tree initiative where we plant 1 tree for every public charger we install.



4. **Work with your CPO to plan the infrastructure in locations that make economical sense**

We want to ensure your charge points can deliver, both for your residents and for your organisation.

That is why Mer places quality over quantity. After a thorough desktop survey of a proposed site, we advise where the most productive and sensible places to install charge points are.



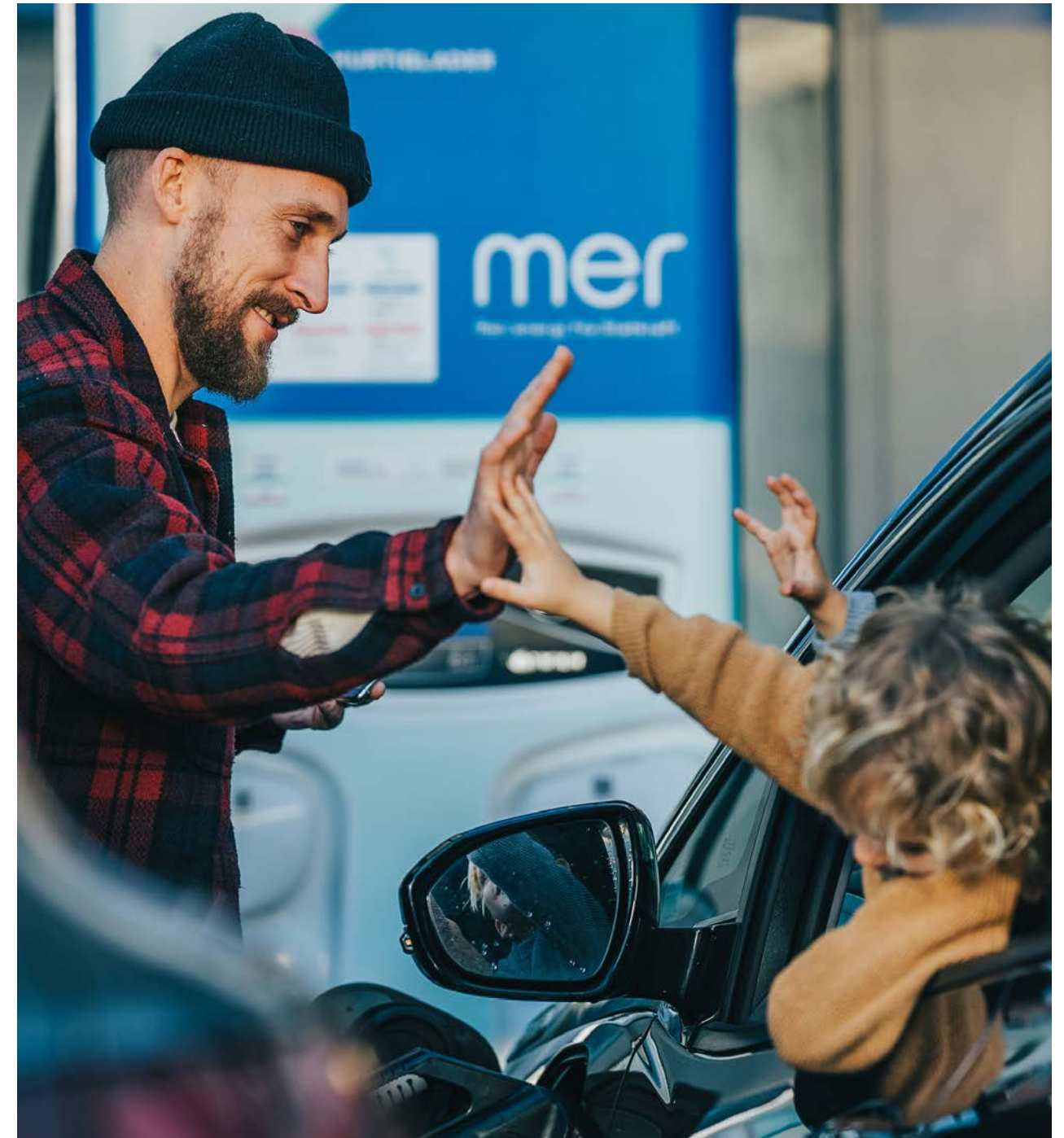
5.

Consider the different service packages available and ask about maintenance contracts and Service Level Agreements

Protecting your EV charging infrastructure will ensure its longevity and reliability in the long term.

Mer supports you and your site after the installation process. Your site will be serviced after six months, and again after one year. We also offer charge point maintenance, back-office support, a 24/7 UK based helpline, and much more.

If you want to find out more, we have created a checklist to help you identify what you need to know before stepping into an EV charging infrastructure project.

[VIEW CHECKLIST >](#)

Charge with Mer



Mer Online

VIEW >

Mer brochure

VIEW >

What is included with Mer’s EV charge points for the public sector?

- Procurement via our frameworks or direct tender
- Zero carbon, 100% renewable energy supply solely from Hydro, Wind and Solar sources
- Financed options including Mer fully funding the chargers & installation with profit share options
- Access to Mer online portals to see charge point status, user pattern data, invoices and much more
- The hardware of your choice
- Your charge point(s) included in our app and other EV charging stations online maps
- The installation
- Maintenance
- Best in class back-office support
- 24/7 UK based helpline



“Trusted EV solutions that keep local authorities and drivers moving faster, cleaner, better.”

About Mer

Mer is a European EV charging company owned by Statkraft, Europe's largest renewable energy generator. Through our extensive experience within renewable energy and electric mobility, we are combining the best of both worlds to power the European shift towards a purer way of transportation. In the UK, we offer electric vehicle charging for businesses and local authorities. Our mission is to make sustainable electric mobility easy and accessible to everyone.

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Pure energy from Statkraft



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