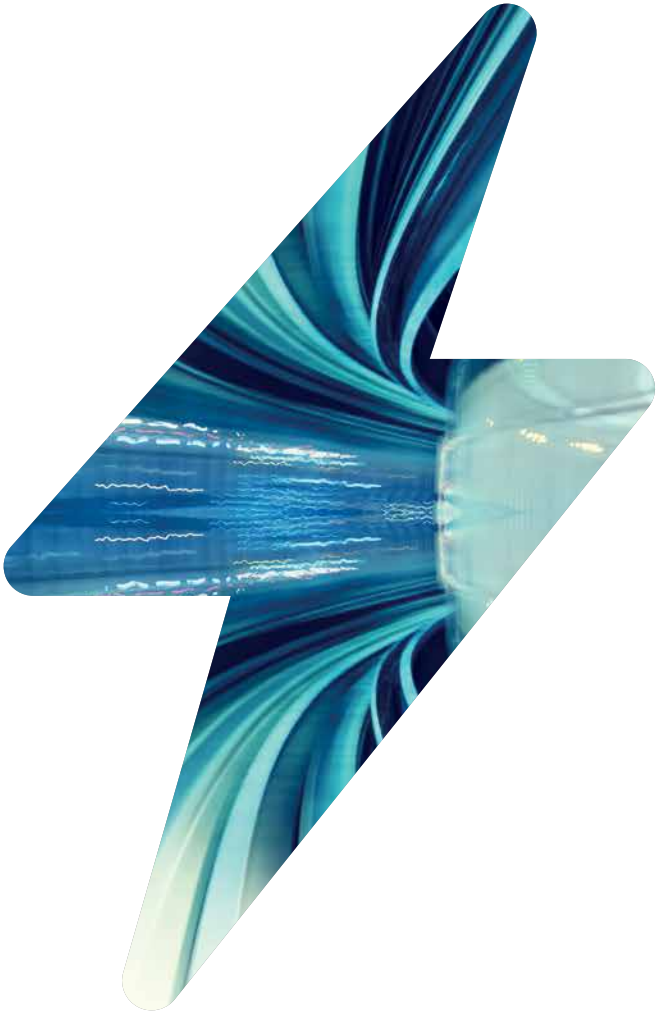

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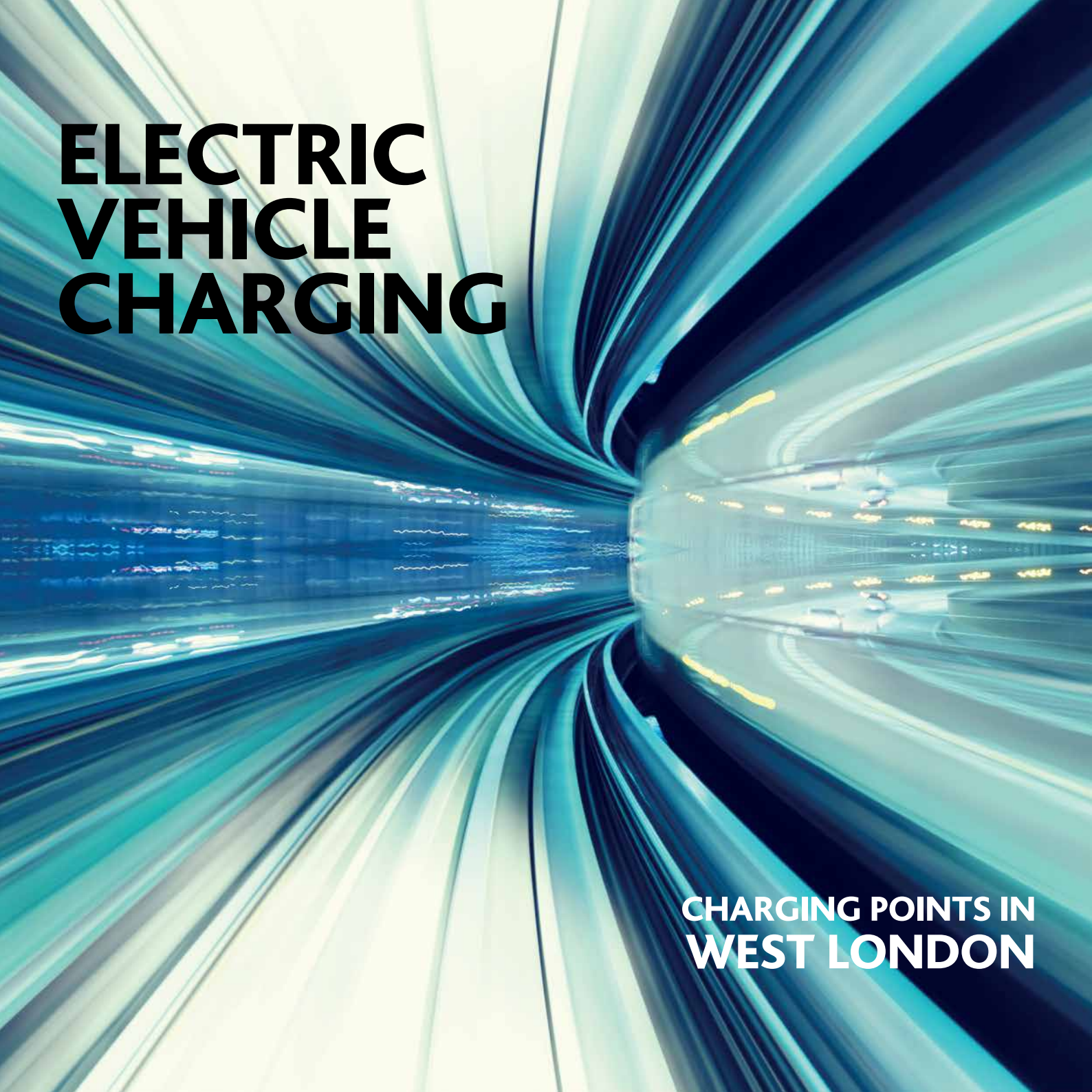

ELECTRIC
VEHICLE
CHARGING
CHARGING POINTS IN
WEST LONDON

EVERYTHING YOU NEED TO KNOW ABOUT EV CHARGING

Buying an electric or hybrid car is hugely exciting. You're taking a step into a new way of driving, and embracing the technology that will power the cars of the future.

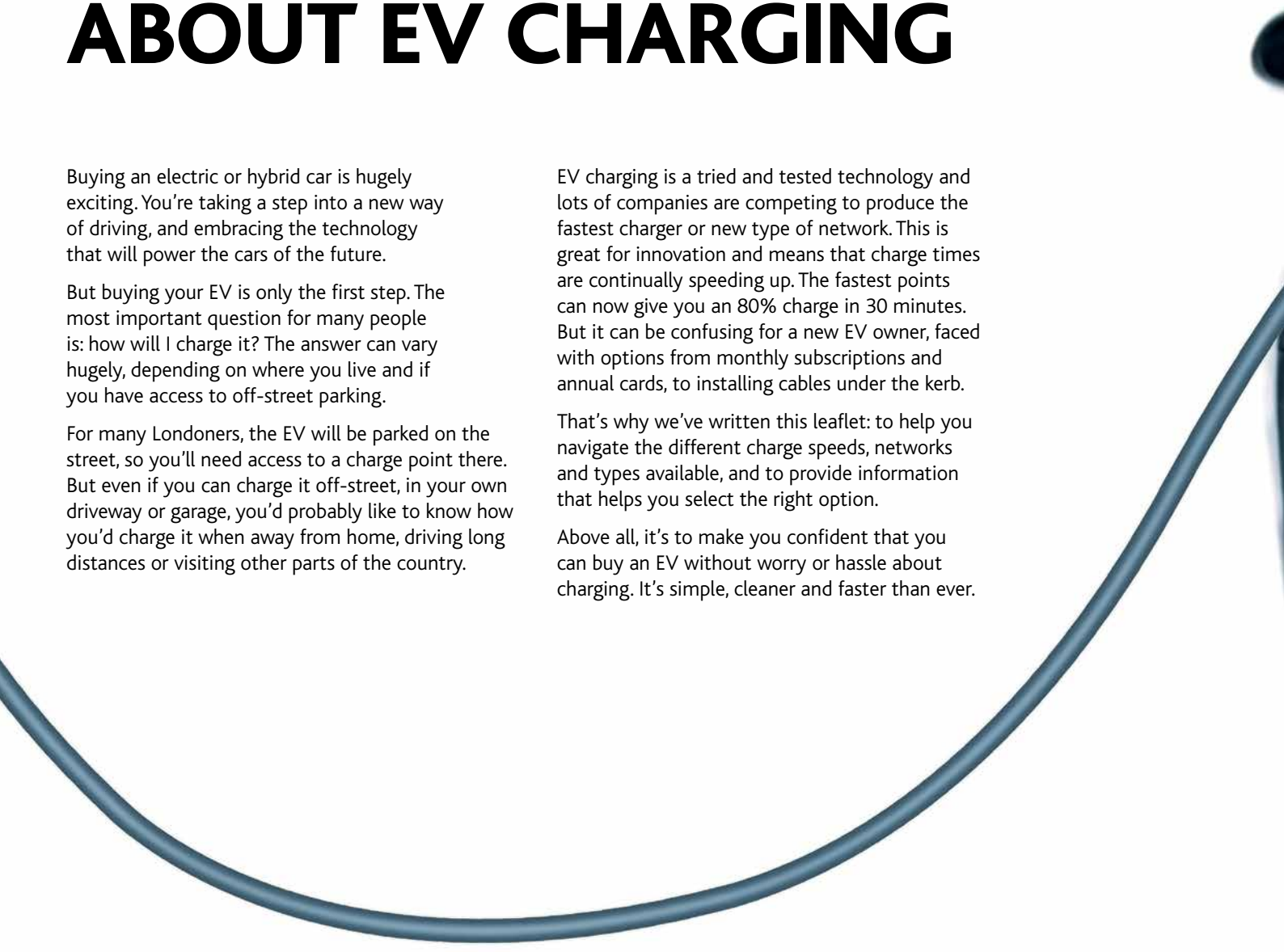
But buying your EV is only the first step. The most important question for many people is: how will I charge it? The answer can vary hugely, depending on where you live and if you have access to off-street parking.

For many Londoners, the EV will be parked on the street, so you'll need access to a charge point there. But even if you can charge it off-street, in your own driveway or garage, you'd probably like to know how you'd charge it when away from home, driving long distances or visiting other parts of the country.

EV charging is a tried and tested technology and lots of companies are competing to produce the fastest charger or new type of network. This is great for innovation and means that charge times are continually speeding up. The fastest points can now give you an 80% charge in 30 minutes. But it can be confusing for a new EV owner, faced with options from monthly subscriptions and annual cards, to installing cables under the kerb.

That's why we've written this leaflet: to help you navigate the different charge speeds, networks and types available, and to provide information that helps you select the right option.

Above all, it's to make you confident that you can buy an EV without worry or hassle about charging. It's simple, cleaner and faster than ever.



HOW CAN I CHARGE AN EV / HYBRID?

Two main things to know:
the charger speeds and the networks that offer them.

CHARGING SPEEDS

THERE ARE THREE MAIN EV CHARGING SPEEDS.

RAPID

Rapid charging units (43, 50, or 120kW) provide an 80% charge in around 30 minutes. Rapid charging can only be used with compatible vehicles.

Compatible Plug Types:

CHAdeMO – 50kW DC

CCS – 50kW DC

Type 2 – 43kW AC

Tesla Type 2 – 120kW DC

FAST

Fast charging points (7-22kW) can fully recharge some models in 3 or 4 hours. Almost all EVs and hybrids are compatible with the type 2 fast connector and it is the most common public charge point available.

Compatible Plug Types:

Type 2 – 7-22kW AC

Type 1 – 7kW AC

Commando – 7-22kW AC

SLOW

Slow charging points (up to 3kW) are used for longer charging times, around 6-8 hours. They are most commonly used for charging at home, overnight.

Compatible Plug Types:

3-Pin – 3kW AC

Type 1 – 3kW AC

Type 2 – 3kW AC

Commando – 3kW AC

CHARGING NETWORKS:

Source London

With over 850 charge points, including many in West London, Source London is the most established EV charging network across London. Its charge points are available to Source London individual and corporate customers. Rapid charging will soon be available.

Cost: £4 per month full membership, plus either Slow charging (£2.16/hour) or Fast charging (£5.70/hour). Flexi membership charging costs are higher, with a one-off £10 application fee. Charge points in Westminster, Camden and Kensington & Chelsea incur a 1p/min surcharge.

POLAR

POLAR is the UK's largest public charging network and provides access via its POLAR plus monthly subscription, as well as PAYG access through its app. Subscribers get an RFID card for free charging at over 70% of POLAR charge points. PAYG users download the app and use it to locate and activate charging points.

Cost: POLAR plus – £7.85 per month membership fee, then free or typically 10.8p per kWh; POLAR instant – £1.20 connection fee plus typically £1.50 per hour.

Charge Your Car

CYC is a national charging network. The CYC RFID card provides access to all charge points on the CYC network, while the CYC app also lets EV drivers find and use charge points. The card and app are connected to a bank account via debit or credit card for payment at the charge points. As Chargemaster owns both CYC and POLAR networks, POLAR plus members can use their RFID cards on CYC charge points.

Cost: £20 per year, plus a £1 connection fee and some other tariffs.

ubitricity

Lamp Column Charging

Lamp column charging is a new technology to embed EV charge points into streetlights. The main supplier is Ubitricity, with other suppliers including CityEV and eVolt. The technology is being rolled out in London through funding from the Go Ultra Low City Scheme. It is constantly changing, so residents should keep in touch with their boroughs for updates.

Cost: As an indicator, the costs for Ubitricity come in a variety of tariffs, with general monthly fees of up to £8 and/or plug-in fees of £0.09, plus up to £0.16 per kW/hr.In general it costs approximately £10 per month, plus £0.14 per kW/hr.

LONDON COUNCILS

Go Ultra Low City Scheme

London Councils, the Greater London Authority and Transport for London are working together on London's Go Ultra Low City Scheme. Funded by OLEV this scheme awards funding to boroughs to install charge points, and it will provide a supplier framework that boroughs can use to supply, install, operate and maintain the charge points.

Cost: Not yet confirmed.

Powered by ecotricity

Ecotricity

Ecotricity's Electric Highway network was the first nationwide network of EV charging points, dating back to 2011, and now has over 300 electricity pumps covering the motorway network and beyond.

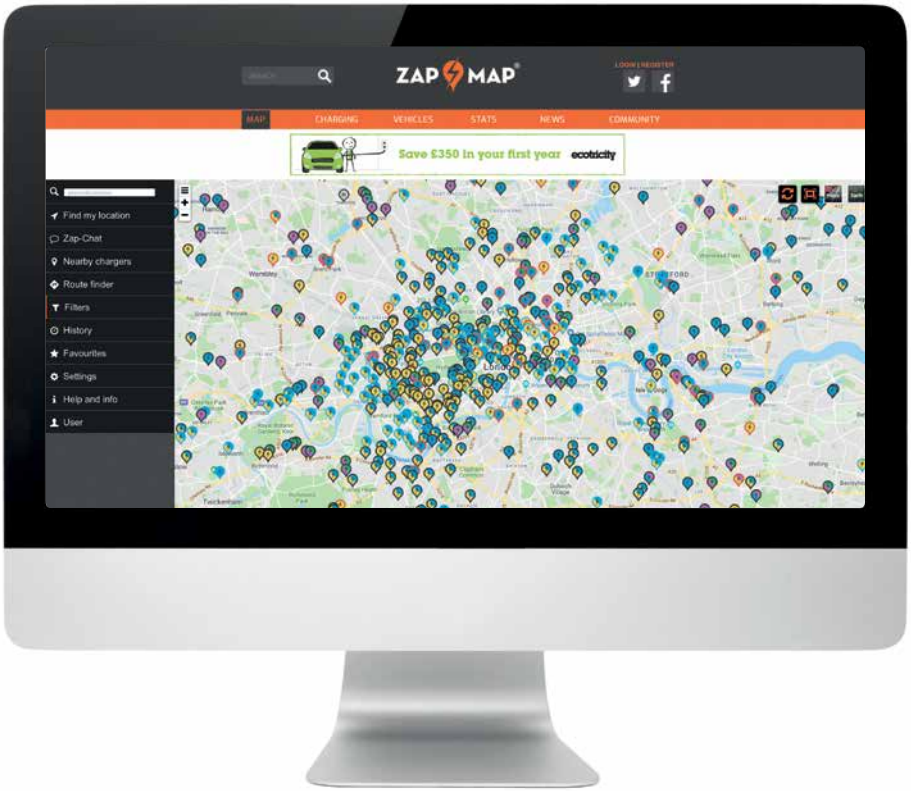
There are a number of Electric Highway electricity pumps in West London and around the capital, with plans to install a further 30 pumps in London on petrol station forecourts.

Cost: 30p per unit of energy or 15p per unit for Ecotricity customers.

MAP

ONLINE TOOLS AND APPS.

Online tools like Zap-Map show you where to find your nearest charging points. This map gives you an idea of the charging locations across West London. Visit www.zap-map.com for an up-to-date live map and details of each location.



NOT CONVINCED?

Brent

Over 2,500 electric vehicles are already registered to addresses in Brent and the Council are rolling out hundreds of new EV charging points across the borough in 2018/19.

Charging Point Types:

- Source London
- Lamp column charging
- Rapid charge points

The Council would like to hear from residents who own or are considering buying an EV and would like a charge point installed near their address.

Contact:

transport.strategy@brent.gov.uk

Ealing

There is currently a mix of rapid, fast and slow chargers within Ealing. Ealing Council is working with Source London and other providers to significantly increase the number and locations of charge points across the borough.

Charging Point Types:

- Source London
- Lamp column charging
- Privately operated charge points

The Council would like to hear from residents who own or are considering buying an EV and would like a lamp column charger installed on their street. Successful applicants will need to make a contribution, part of which will be a refundable deposit.

Contact:

transportplanningservice@ealing.gov.uk

Hammersmith & Fulham

Almost all Hammersmith & Fulham residents are now within 400m of a charge point. There are 135 charge points at 47 locations in the borough.

Charging Point Types:

- Source London
- Privately operated charge points

The Council has recently trialled lamp column charging, and is now preparing to roll it out across the borough for residents to charge EVs on their roads.

Hammersmith & Fulham has also become one of the first Boroughs with Rapid Charging Stations, providing a multi-point 25kW/hr charging option.

Contact:

highways_general@lbhf.gov.uk

TALK TO YOUR COUNCIL FOR MORE INFORMATION ON EV CHARGING

Harrow

There is currently only one off-street charging point in Harrow that can be used by the public. This is located at the Civic Centre. However, Harrow Council is working with Chargemaster to install electric charging points on streets in Harrow Town Centre area as part of a Neighbourhoods of the Future scheme. They are also training local mechanics to service electric vehicles.

The Council is also investigating levels of demand and interest for residents who own or are thinking about owning an EV.

Charging Point Types:

- Source London
- Chargemaster and other private charge points

Contact:

travelplanning@harrow.gov.uk

Hillingdon

There are 11 publicly-accessible charging points in Hillingdon.

Charging Point Types:

- Chargemaster
- Elektromotive

Costs:

- Chargemaster costs £50 annually, and charging is then free to access.
- Elektromotive has a one-off fee of £100 followed by a £25 annual fee.

The Council is also investigating how to expand the Source London network within the borough and ensure wider access to its charge points. It will look at how to respond to demand from residents who own or would like to own an EV.

Contact:

transportstrategy@hillingdon.gov.uk

Hounslow

There are currently around 30 publicly-accessible charge points across Hounslow. Hounslow was also the first local authority to retrofit Ubitricity charge points into lamp-columns, which are now being rolled-out across the borough.

Charging Point Types:

- Source London
- POLAR
- Ubitricity (account and smart cable required)
- TfL rapid charge network (current roll-out)
- Privately-operated charge point

Where Source London charge points are located in council-run car parks or on-street there is no need to pay for parking. The Council is fitting Ubitricity charge points as part of a three-year TfL funded trial. Residents are able to propose locations so they can directly charge their car from kerb side lamp columns.

Contact:

transportplanning@hounslow.gov.uk

WHO TO CONTACT IF YOU LIVE OUTSIDE THESE BOROUGHS

These six boroughs cover most of West London. But if you live outside their area, here is where to find information for the adjacent borough and district councils:

LONDON

Camden:
Transport Strategy team 020 7974 4444

Islington:
https://www.islington.gov.uk/roads/electric-cars

Kensington & Chelsea:
www.rbkc.gov.uk/parking-transport-and-streets/visitors/visitor-parking/electric-vehicles

Westminster:
www.westminster.gov.uk/electric-vehicles

OUTSIDE LONDON

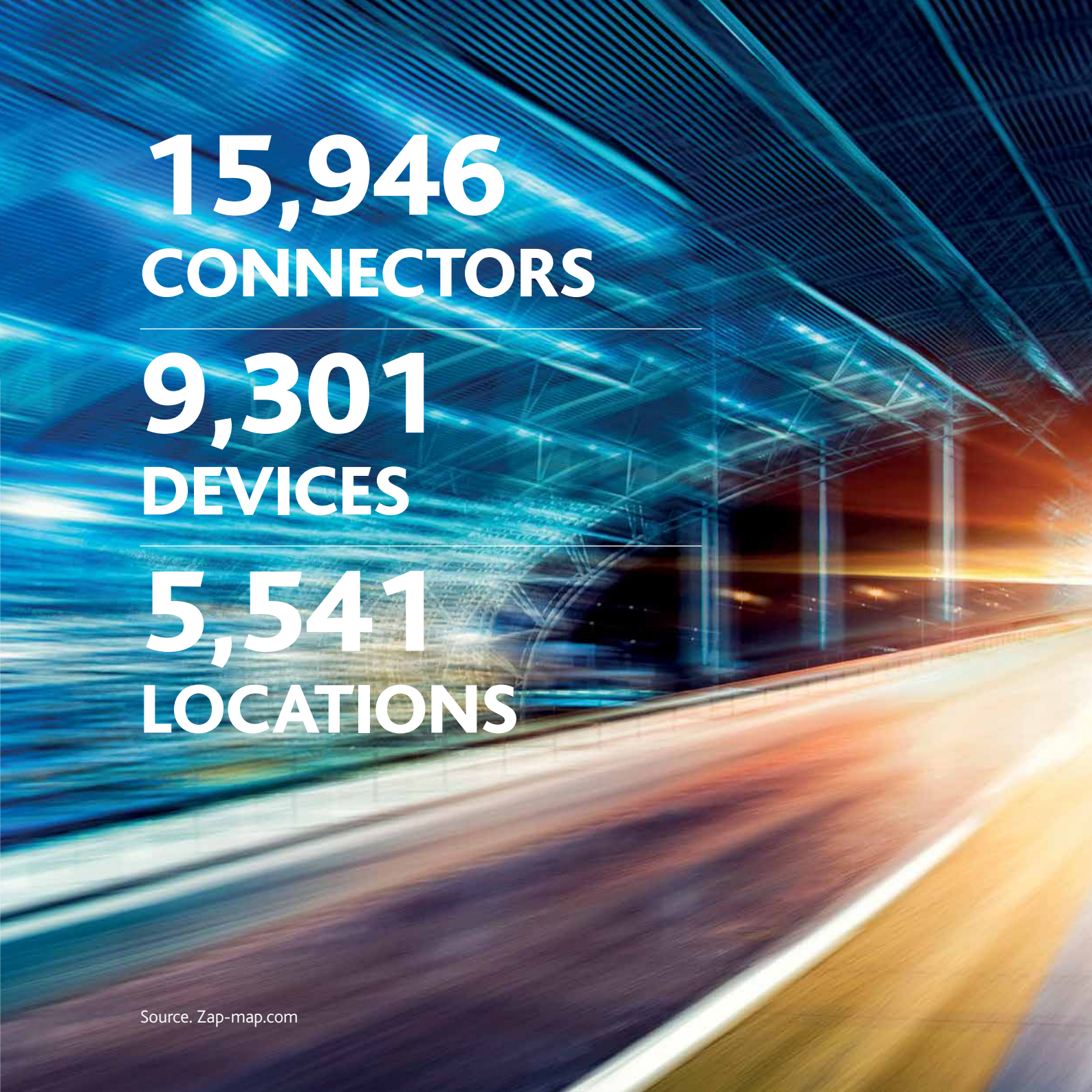
Watford:
www.watford.gov.uk/info/20014/parking/58/where_can_i_park_in_watford/5

Three Rivers:
www.threerivers.gov.uk/service/electric-charging-points

Hertsmere:
https://www.hertsmere.gov.uk/Transport--Streets--Parking/Transport--Streets--Parking.aspx

South Bucks:
www.southbucks.gov.uk/electricvehicles

Slough:
www.slough.gov.uk/parking-travel-and-roads/electric-cars.aspx



Source. Zap-map.com

This leaflet was produced by WestTrans, which works in partnership with the six West London boroughs and Transport for London to deliver sustainable transport projects across the sub-region.

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PLANNING TRANSPORT TOGETHER

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