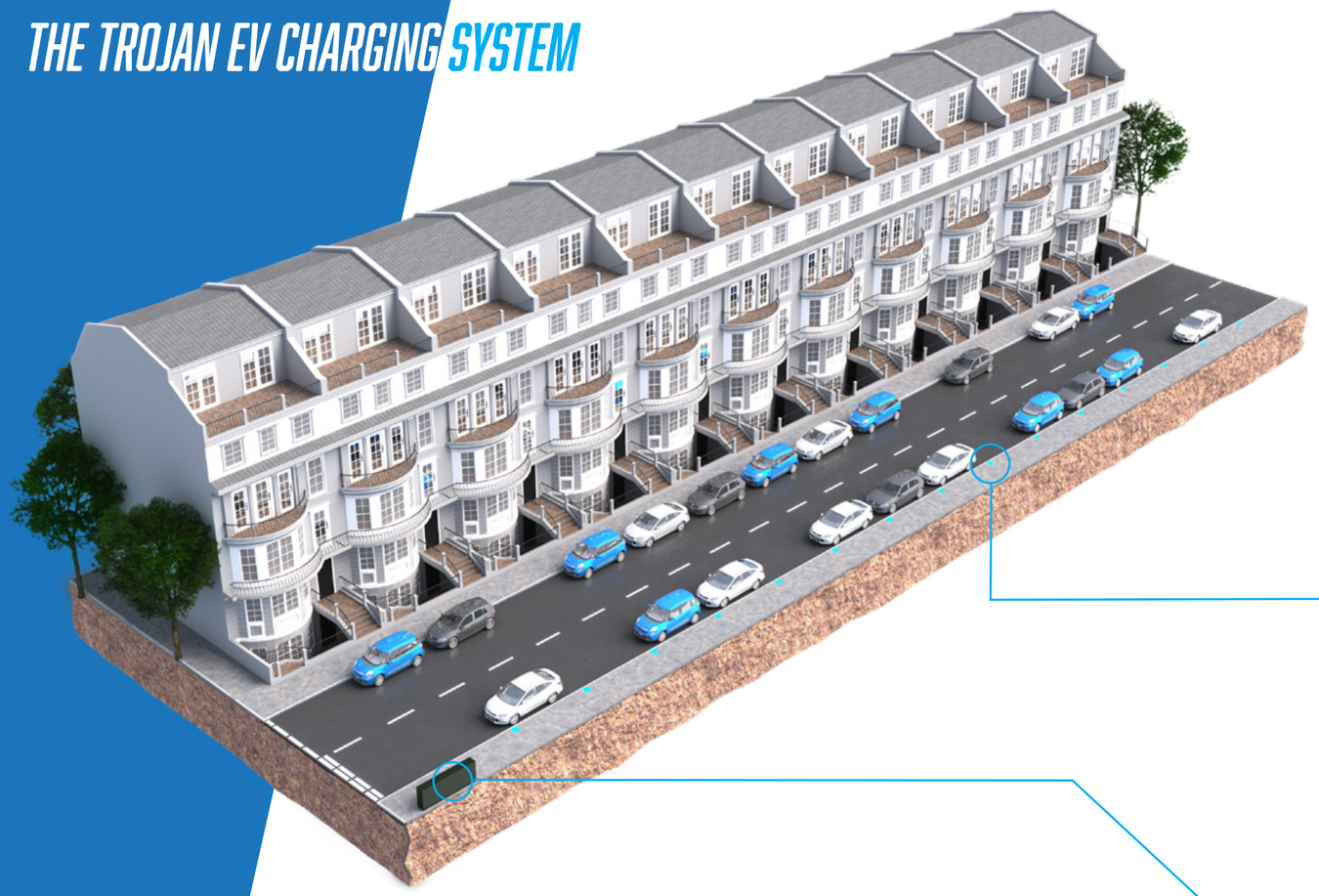
TROJAN ENERGY LTD

CHARGING TOWARDS NET-ZERO

THE TROJAN EV CHARGING SYSTEM: INFORMATION FOR COUNCILS

THE TROJAN EV CHARGING SYSTEM



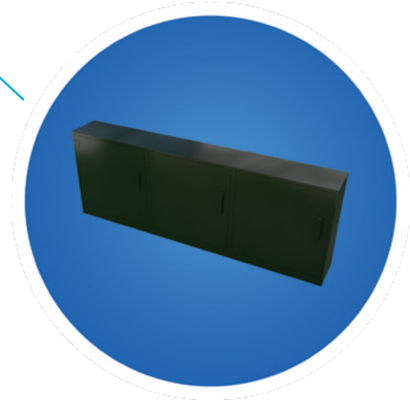
THE TROJAN LANCE

- Stored in car
- Easily unlocked by user
- Linked to personal account
- Type 2 Mode 3 AC connection
- 3 phase 22kW capable
- Lightweight, portable and robust

THE TROJAN CONNECTOR

- Installed flush near the edge of the pavement
- LED lighting for status indication
- Highly vandal/crash resistant
- Enabled by lance
- Not energised until connection established with the vehicle

We designed our chargers to be tough enough to be driven over when unplugged. They meet the challenging BS EN124:2015 standard which covers gully tops and manhole tops for vehicular and pedestrian areas. This means cars, vans and goods vehicles can drive over the connector without damaging it. Designing to this standard allows creativity in installations for the unique layouts of our towns and cities.



THE TROJAN CABINET

- Connected to 3 phase supply
- 1 cabinet for 15 charge points
- Connected to cloud services
- Safety functions
- Public lances
- Smart charging enabled
- Foundation for city wide EV to grid system

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CONSIDER TROJAN ENERGY CHARGE POINTS

Transport Planning teams throughout the UK are experiencing rapidly rising requests for on-street electric vehicle charge points. With limited resources in time and money this can be challenging for councils to manage. If this describes your situation then please get in touch as we believe we can help and we'd be pleased to discuss our new options with you.

1 FINANCIAL

Our chargers will be compliant with OZEV's on-street residential charge points scheme (ORCS) which may fund up to 75% of charge point costs. Chargers can be private or council owned. Trojan Energy can work with Charge Point Operators (CPOs), or direct with councils to install our equipment at very limited or even no cost to the council. Until very recently the council's ownership of the pavement generated only costs but the energy transition brings opportunity akin to Texas farmers before oil was found under their land. On-street charging has the potential to provide a significant ongoing source of council revenue in the future if investment is made in the right technologies and partnerships. Just talk to us about how this revenue stream could be generated.

2 PLANNING

Trojan Energy work with a number of partners to sift through data sets to establish the optimum location for chargers. We want to help you with this process using data from your residents' requests, transport firms, and on-street surveys to ensure the charge points are utilised as much as possible. By reducing the need for EV only bays and the impact on the pavement for residents, planning issues are substantially reduced.

3 REDUCED TENSION BETWEEN RESIDENTS

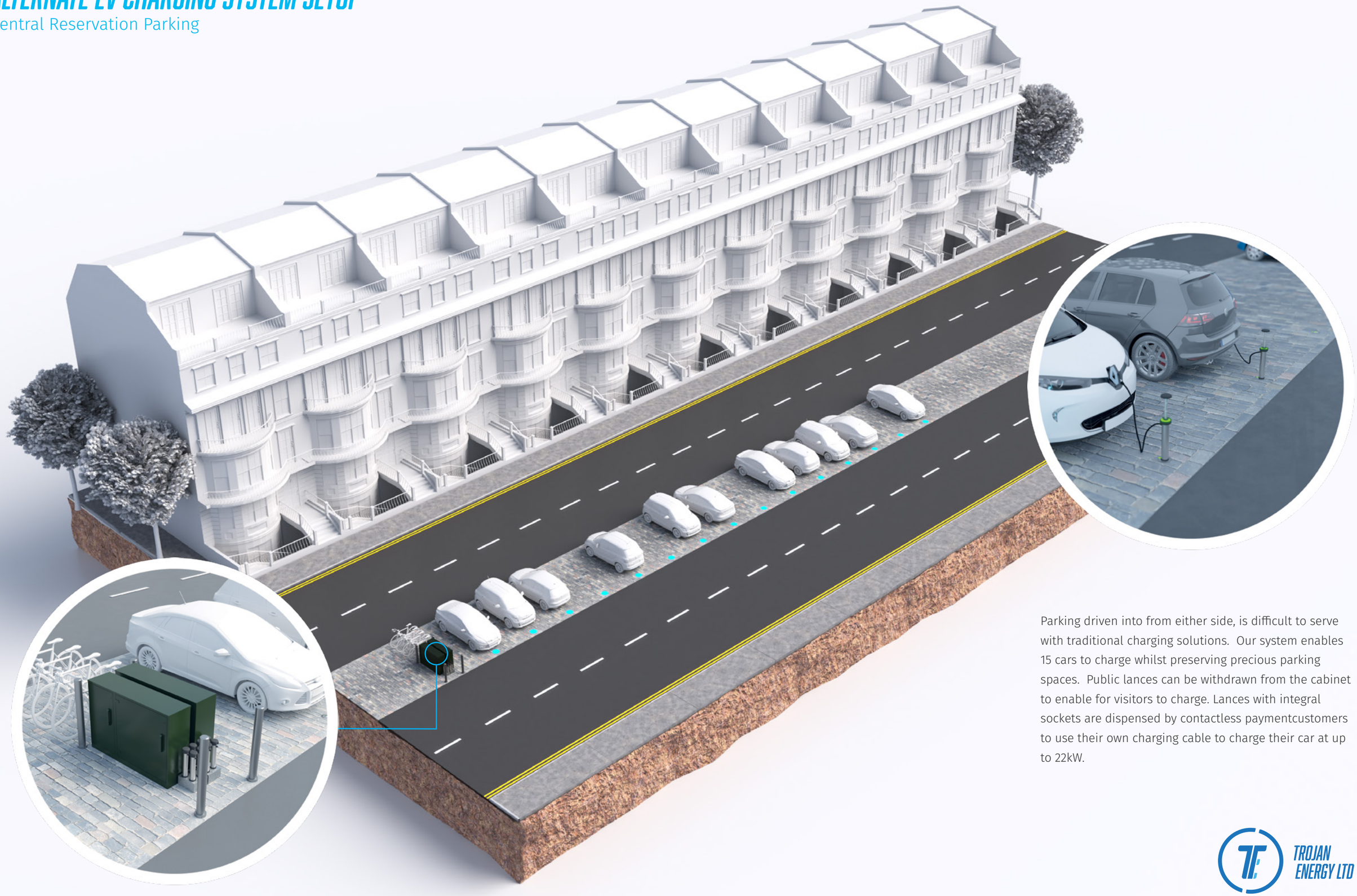
By reducing the impact on the pavement and the need for EV only bays, our technology enables EV owners to charge without impacting on other residents. With solutions like location based dimming (where a particular charge point will always reduce the illumination on a lance to a pre-set level), and a lance that is designed to conform and bend if collided into by a partially sighted individual.

4 RAPIDLY INCREASE EV ADOPTION IN YOUR AREA

With 15 charge points comes increased confidence of gaining access and benefitting from cheaper transportation. The Trojan Energy charging system is a realistic route to mass EV adoption throughout your area and potential catalyst to a huge reduction in air and noise pollution.

ALTERNATE EV CHARGING SYSTEM SETUP

Central Reservation Parking



Parking driven into from either side, is difficult to serve with traditional charging solutions. Our system enables 15 cars to charge whilst preserving precious parking spaces. Public lances can be withdrawn from the cabinet to enable for visitors to charge. Lances with integral sockets are dispensed by contactless paymentcustomers to use their own charging cable to charge their car at up to 22kW.

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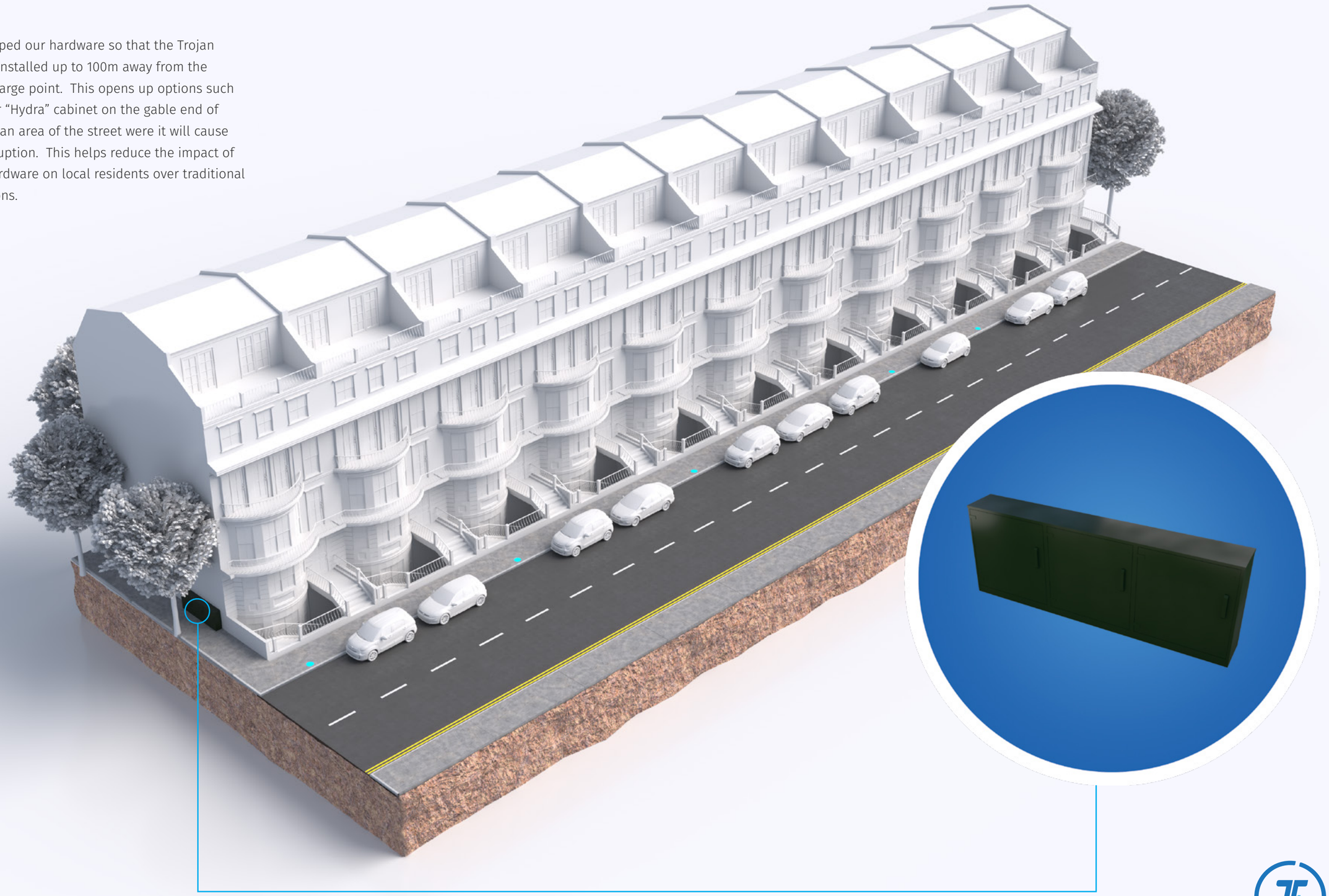
ALTERNATE EV CHARGING SYSTEM SETUP

Cabinet Offset Build Out

We have developed our hardware so that the Trojan cabinet can be installed up to 100m away from the most remote charge point. This opens up options such as installing our “Hydra” cabinet on the gable end of a building or in an area of the street were it will cause these least disruption. This helps reduce the impact of the charging hardware on local residents over traditional charging solutions.



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ALTERNATE EV CHARGING SYSTEM SETUP

‘Speed Bump’ Build Out (No Pavement)

Where there are no pavements, Trojan Energy Chargers can still be installed. Often a gully runs down the side of a kerb. A build out from the kerb allows charge points to be installed even without a pavement. This arrangement reduces the need for build outs removing parking spaces. Only ½ of a parking space lost (for the cabinet) for up to 15 Chargers. Drivers can drive away as normal or even straddle the Charger if required (although they wouldn’t be able to charge).

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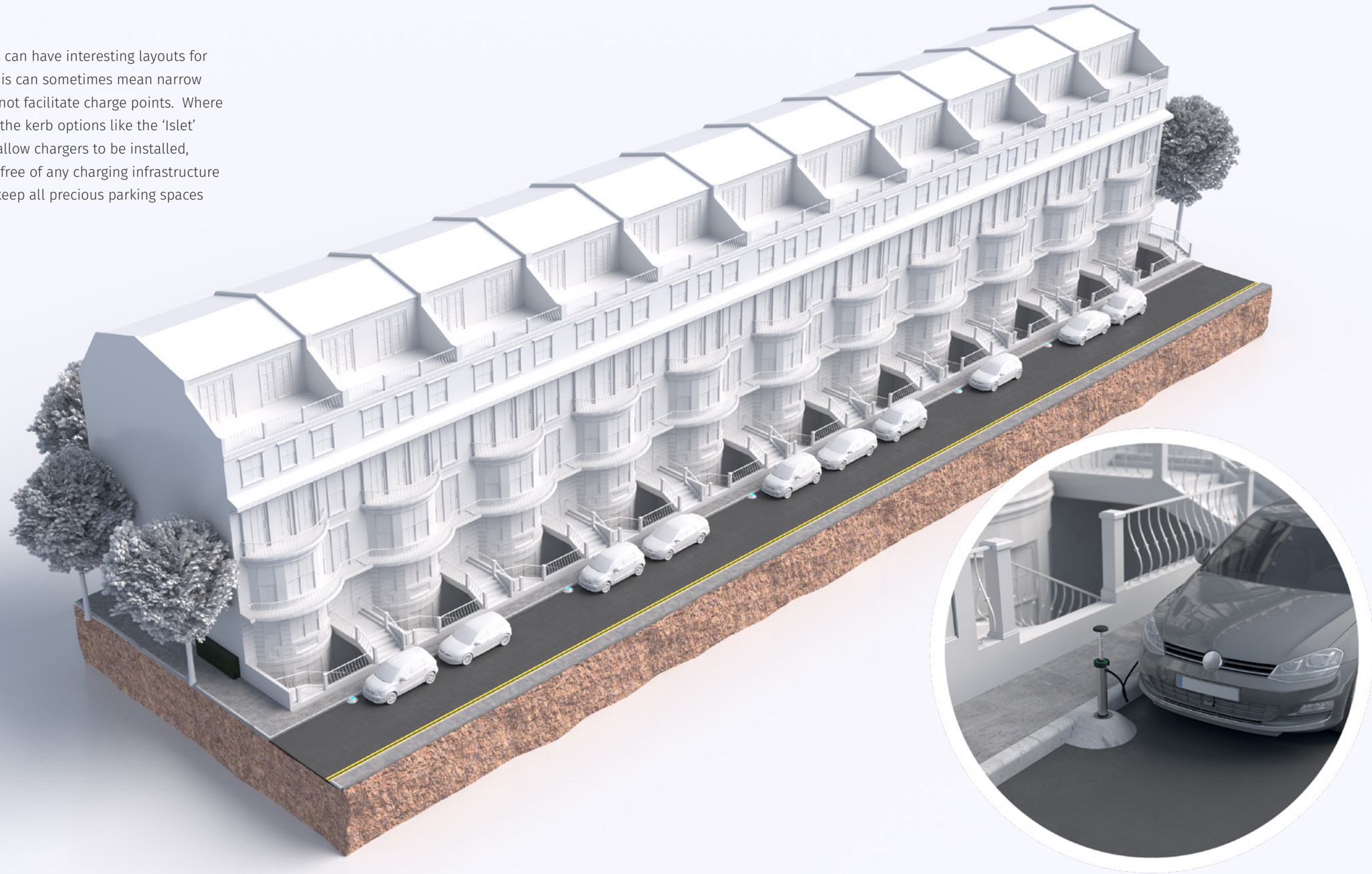
ALTERNATE EV CHARGING SYSTEM SETUP

Trojan Energy Islets: Narrow Pavement Solution

European town centres can have interesting layouts for historic reasons and this can sometimes mean narrow walkways which could not facilitate charge points. Where drainage is not beside the kerb options like the ‘Islet’ may be considered to allow chargers to be installed, keeping the pavement free of any charging infrastructure and at the same time keep all precious parking spaces in operation.



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COMPETITIVE CHARGING RATES

Trojan Energy equipment is competitive with other 22kW chargers, but brings many additional advantages. In addition to flat and flush chargers, the cloud arbitrated charging system allows the development of unique charging models with several advantages over traditional charging payment structures. Please speak to us directly to discover how this system can save money for EV drivers in your community.

MAINTENANCE

Our system is designed to extremely high standards of availability and reliability, and the modular construction approach makes it very easy to maintain. The connector itself can be removed from the base unit and a new one installed within minutes. The cabinet is designed to follow similar principles for ease of maintenance. This means systems can be brought back online very quickly if a fault develops. We have a number of contractual arrangements with servicing agents throughout the UK to carry out emergency repairs if required.

CONVENIENCE IS THE KEY

Over 95% of EV charging happens at home because it is relatively cheap and extremely convenient. A large percentage of potential EV users, however, are unwilling to switch to EVs due to lack of charging infrastructure near their homes. From the rise of online shopping, fast food delivery and supermarket deliveries, customers have shown that if you make it convenient, they will buy it. EV charging for those without driveways is no different, but to make it convenient, it is crucial to get close to the customer.

Install fifteen charge points on a street outside a customer's apartment rather than a nearby supermarket car park or ex-petrol station and suddenly many more people will consider the switch to an EV.

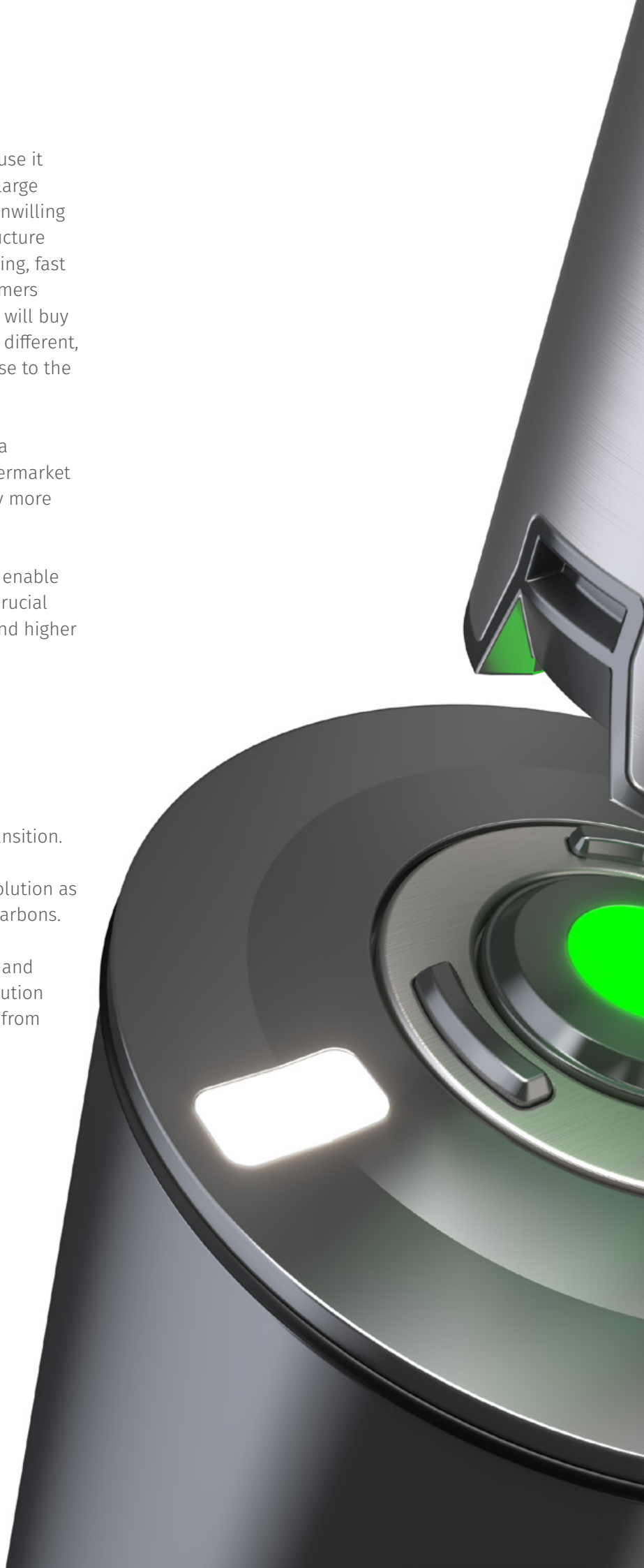
We designed the Trojan Energy charge points to enable you to get closer to your customers, delivering crucial convenience, winning loyalty, more customers and higher utilisation in return.

TROJAN ENERGY MISSION

To ensure everyone benefits from the energy transition.

We believe we are on the cusp of an energy revolution as low carbon technologies begin replacing hydrocarbons.

Our team is committed to engineering products and services to ensure that the benefits of this revolution are realised by all, releasing many more people from dependency on fossil fuels and in doing so making the world a better place.



We're Charging Towards Net Zero!
Get in touch and join us in this journey.

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