# A Focus On:
# Public Charging

## Tim Gale, Cenex

# A focus on: public charging

Tim Gale
Cenex

# Why public charging?

Home charging will handle itself – Good tech and strong TCO

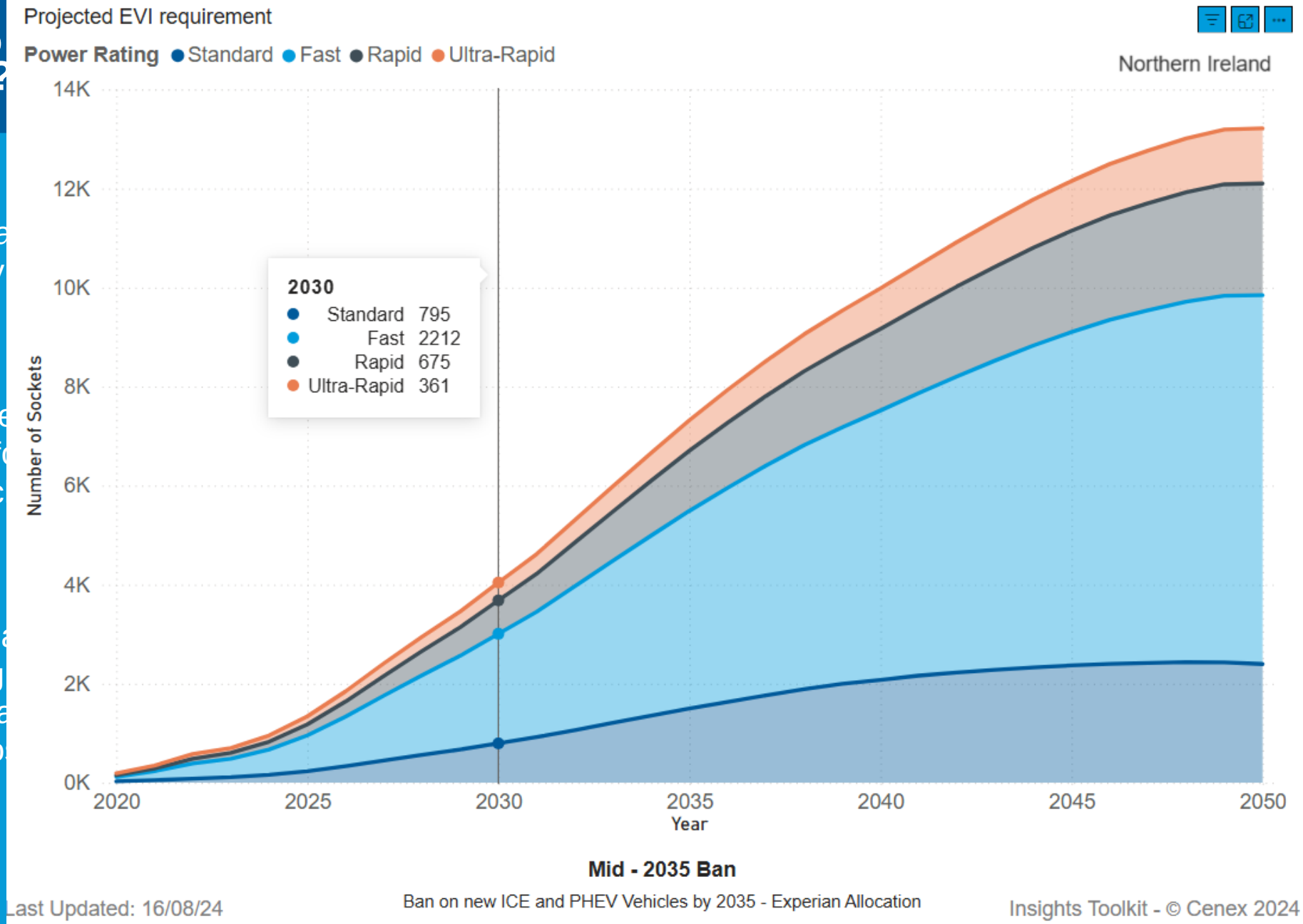
Public charging is often second only to purchase price in consumer barriers to EV – price parity for the vehicles is coming

# How do charge?

If people ca
home, they
other ways

This will pre
challenge f
that are lac
parking

It can also
of charging
charging ha
inherent co




arks).

of users.

its operations.

ged at the same time
and train stations).

ged at the same

4 hours.

# Who will be presenting?

We have asked each company to pitch their offering

Presenters will have 5 minutes each

There will be a panel discussion afterwards and the opportunity to grill presenters further over lunch

# A Focus On:
# Public Charging

## Anthony Boyd, Believ

# Introduction - Believ

EVI Roadshow – Belfast

# About Believ

- **Believ,** now has over **1950 charge points** installed across the UK since entering the market in 2021.
- We work with you collaboratively; building partnerships and **investing for the long term**.
- Our investors allow us to add significant private investment to your area:
  - **Zouk Capital,** managers of HMRC's **Charging Infrastructure Investment Fund** (CIIF)
  - **Liberty Global** – owners of Virgin Media O2
- We offer **all charging speeds** ranging from slow to fast and ultra-rapid units
- We provide **on street, off street and e-mobility hubs**.
- We work with our sister company **Virgin Media O2** and **local electrical installers** to install our charge points.
- All our charge points use **100% renewable energy**






Believ

# What Council's are saying about Believ

"CPOs like Believ can help overcome the financial hurdles faced in implementing EV charging infrastructure as well as managing the planning, power supply logistics and ongoing maintenance"

Awsworth Parish Council

"Working in partnership with Uber and Believ to install additional on-street charge points, we're making switching to an electric vehicle easier, with more places to charge across our borough"

London Borough of Redbridge

"Ealing Council has already doubled the number of charging points in the borough in a year, and I am confident that our joint efforts can help us reach our goal of 2,000 EVCP's by 2026, lowering emissions and reducing air pollution for our residents"

London Borough of Ealing

"We are delighted to be working with Believ again on this phase of our electric vehicle charging points project. With a rise in users of electric vehicles, it is vital that we deliver a reliable and accessible EV network, for those who have no access to a private drive or wish to charge their vehicle whilst visiting our town centres."

North Northamptonshire Council





Believ

# What Happened in 2024 at Believ?

SMS




**Believ**
6,218 followers
1mo •

The news is out! We're immensely pleased to be awarded the privilege of bringing thousands of charge points to residents across Suffolk. Huge thanks to Suffolk County Council for the trust and partnership.

**Transport + Energy**
21,083 followers
1mo • Edited •

Suffolk to install 6,000 chargers

Suffolk County Council in partnership with charge point operator (CPO) Believ will deliver around 6,000 new public electric vehicle (EV) charge points across the county.

The county council received £5.3m from a bid to the government's Local Electric Vehicle Infrastructure (LEVI) fund, with the roll-out using a proportion of that cash, along with more than £16m from Believ.





Believ

# Accessibility For All (PAS:1899)

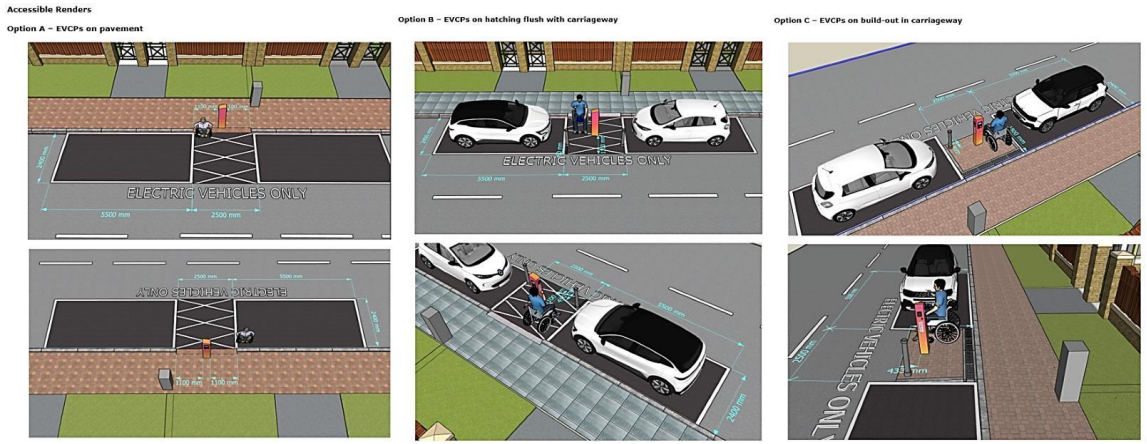
**To enable accessibility for all, it is proposed that all pairs of bays will include a 1.2m clearance zone between the bays.**

Accessibly for all includes consideration for :

- Physical aspects of the placement of charging points within streetscape (height from ground level / ground type / bays spaces / adequate spacing surrounding the unit
- Accessibly of charge points hardware: height of charge points controls, cables, bollard spacing, and screens
- Usability of charge points: screens, contactless payment , clear instructions of equipment, high uptime of network

**It considers users who:**

- Require Wheelchair access
- Can not walk for long periods of time
- Have limited mobility
- Have a mixture of accessibly needs in a car (Fully abled driver with limited mobility passenger)








Believ

# Proven Track Record of Delivery

- Working and delivering chargepoints with multiple councils across the UK
- Typical time from first-dig to commissioning is currently **4 weeks**
- **TMO/TRO success rate** due to expert site selection
  - TRO consultation in one London Borough for 36 sites recently resulted in only 6 single objections – We are focused on selecting the right locations
  - In house planning team have significant knowledge of getting residents support and choose site locations away from frontages
  - Typically, only 2 or 4 bays per site ensures support from local residents
- Focused on **agile installation** process to activate network as early as possible to generate revenue as soon as possible
- Flexible **portfolio approach**, combining a mix of more or less commercially viable sites, to enable good coverage and **equitable access for all**
- Flexibility of payment options to council including **bay fees, profit share, revenue share or a combination**






Believ

Believ

# Thank You & Questions

Anthony Boyd
Senior Public Sector Partnerships Manager

Anthony.boyd@believ.com
07764 665 938

# A Focus On:
# Public Charging

## David Fitzgerald, EasyGo

Belfast City Council

Belfast CLIMATE ACTION

# ROI & NI’s DEDICATED **EV CHARGING NETWORK**

# Why add **EV charging services?**

## MARKET LEADERS

EasyGo has built a network of **4,500** Public Charge Points at over **1,500** locations serving **92,000+** active Customers.

## LOCALLY GROWN

EasyGo now employs **70 staff** from our Maynooth Headquarters to service all of our customers' needs.

## TRUSTED

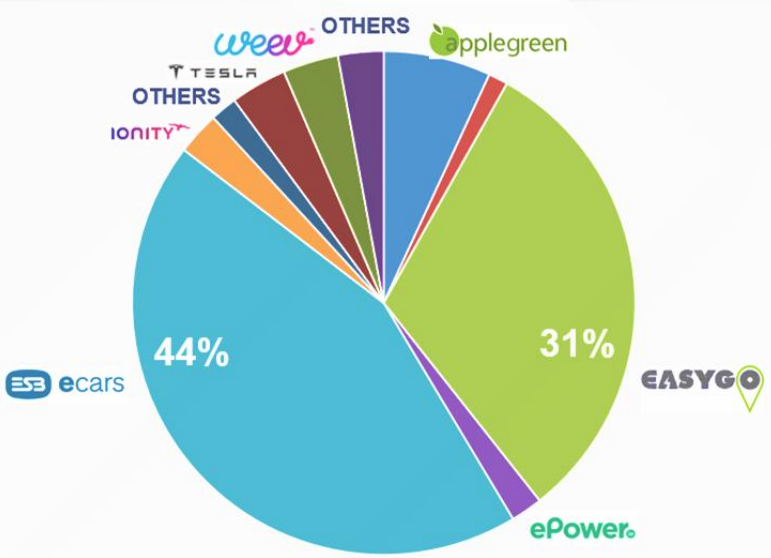
As Ireland's first established **private EV Charging Company**, we are relied upon to support you long-term with tailored solutions.

## INNOVATORS

We are leading innovators in the sector building a successful CPO across ROI & NI. **Won the award for EV Charging Innovation of the Year** at the Business Post EV Awards..

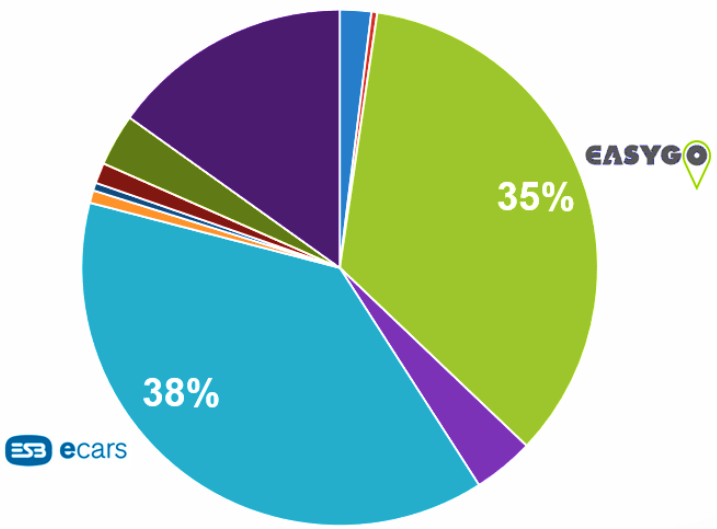
# Nationwide **DC Network**

## DC CHARGERS

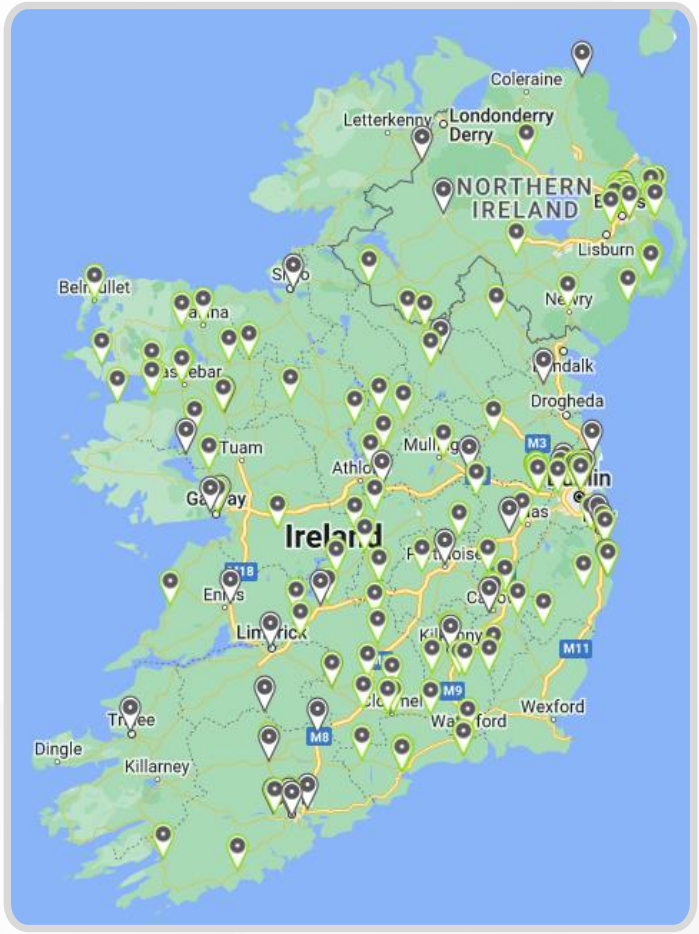



**DC RAPID**
Chargers

## TOTAL MARKET




**DC RAPID** Chargers
in NI



# Our **Expertise**

01

## PUBLIC CHARGING

We have installed thousands of home chargers. We do this for both fleet management and for private individuals.

02

## WORKPLACE CHARGING

We help businesses provide charging, together with payment collection and free charging for company vehicles) to employers that with to support decarbonisation of transport.

03

## HOME CHARGING

We assist private business and governmental agencies in providing charging services to paying customers. Additionally, we fund infrastructure rollouts with various profit-sharing options.

## CHARGING SERVICES

We make it possible for drivers that register with EasyGo to find, use and pay for charging across Ireland at thousand's of charge points using our App.

04

05

## DESTINATION CHARGING

We support a growing number of forward thinking environmentally conscious businesses to enhance their customer experience while driving new revenue streams by installing charging stations at
their premises.

# Our **Customers**

**FLEET**
CHARGING


**DESTINATION**
CHARGING


**COUNTY**
COUNCILES


**WORKPLACE**
CHARGING


EASYGO

# Our **Network**

**Over 1 million** charging sessions on our network

**29% of DC chargers** owned by EasyGo in ROI & NI.

Investment of over **€40m** raised to-date

**30 engineers** nationwide

Network availability of **97%**

The only EV network offering **32 county public and private** infrastructure

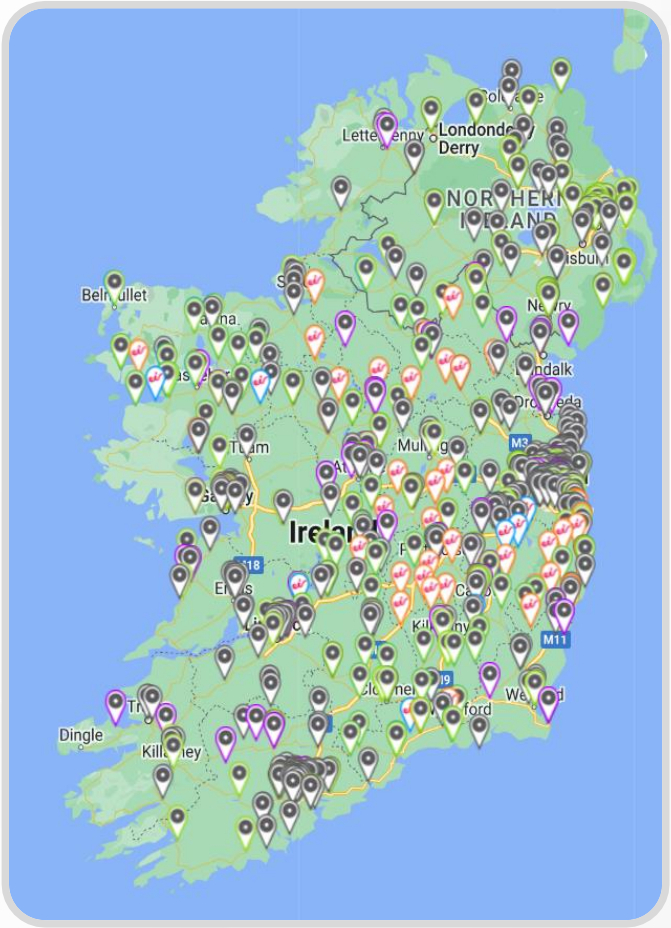
Over

**4,500**

locations

**92,000**

registered network users




Existing network

Future network in planning

Customer network

EASYGO

# Join **ROI & NI's Largest** EV Charging Network Today


(01) 536 7499

sales@easygo.ie

www.easygo.ie

H6 Maynooth Business Campus,
Straffan Road, Maynooth,
Co. Kildare, W23 V9K7


EASYGO

# A Focus On:
# Public Charging

## Michael Goulden,
## Kerbo Charge

KERBO CHARGE®

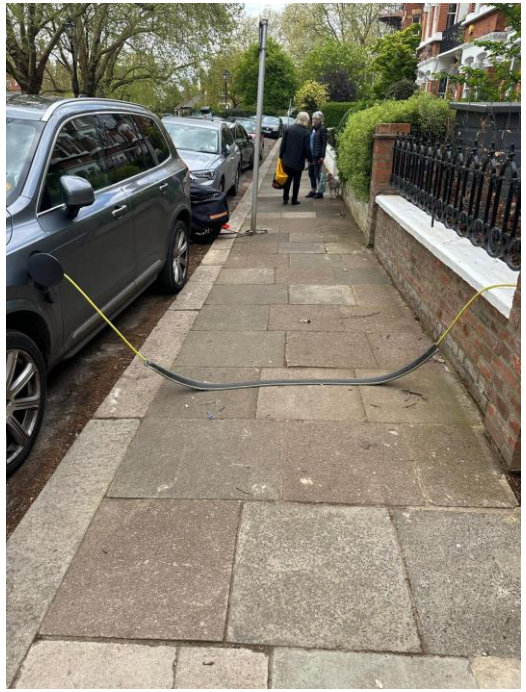
# Electric car charging for people with street parking

CENEX Roadshow 16 May 2025


KERBO CHARGE®
How will these residents charge their cars?
LJ Rentals
LET AGREED

# How will residents charge their cars?

## Option 1: trail a cable



**Problem:**
Personal injury claims

## Option 2: public charging


**£34.50** to charge vs. **£4.62** at home[1]

1. Cost to charge a mid-sized 77 kWh car from 20 – 100% using a 56p/kWh 'slow /fast' charger vs. cost to charge using a 7.5p kWh overnight tariff (Octopus energy). Prices correct May 2024

# Kerbo Charge is specifically designed to meet local authority requirements

**Self-closing lid**
Memory polymer snaps shut to eliminate trip hazard. Tested by BSI to EN 1433 (C250 class).

**Flexes with bendy / uneven pavements during installation**
No pavement reinstatement work needed.

# How it actually works – 30 second video

Click here if video does not play.

# UK Councils are now rapidly adopting Kerbo Charge

KERBO CHARGE®

**Kerbo Charge has 27 live trials and 9 councils have made it available to all**

Manchester City Council
Milton Keynes City Council
Enfield Council
Reading Borough Council – Working better with you
Cyngor Bwrdeistref Sirol Blaenau Gwent
Central Bedfordshire Council
Cornwall Council
Surrey County Council
Halton Borough Council
Coventry City Council
Stirling Council
Nottinghamshire County Council
West Berkshire Council
Cyngor Sir Gâr Carmarthenshire County Council
Plymouth City Council
Northumberland County Council
Durham County Council
Hartlepool Borough Council
Bolton Council
East Lothian Council
London Borough of Richmond upon Thames
Newport City Council – Cyngor Dinas Casnewydd
Suffolk County Council
Bedford Borough Council

KERBO CHARGE®

Live and confirmed trials

# Loved by residents across the UK


"This Kerbo channel is a game changer for the EV owners living in their homes with no drive."
Stewart Molloy, customer

Trustpilot 4.7

Read independent customer reviews here




# Our first install in Northern Ireland

Installation at NI Housing Executive depot, September 2024

# Paving stone install example

Cabinet Member for Transport at Enfield Council, Cllr Rick Jewell, said:

“We are delighted to be working with Kerbo Charge on such a ground-breaking trial which is the first of its kind for a London borough.

# Discrete install example

**Woburn Sands.** Site notes: this photo shows how un-invasive the Kerbo Charge installs are. We pride ourselves on ‘surgical’ installs.


MC

**Mark Crawford**

1 review GB

18 May 2023

**Great option for a terraced house**

Great option for a terraced house
Hours of trying to find a public charger that’s not in use and is working are a thing of the past.
I can now charge at home at any time of the day, and not have the risk of trailing cables causing an issue

**Date of experience:** 03 April 2023

Useful Share

# Vertical cable climb install example

KERBO CHARGE®

**Hillside terrace, Blaenau Gwent**

Site notes: vertical climb to reach front garden of property – using Kerbo Charge clipping system.

JR **John Richards**
9 reviews GB

★★★★★ 14 Feb 2024

**Game changer for home ev charging**

Great product, does exactly what it needs to do, guides and protects my ev charging cable across the pavement and protects the public from tripping over.
I've had mine installed for a fortnight now and I love it.
Easy to both install and remove the charging cable with the minimum of fuss.
I'd highly recommend to anybody who wants to charge an electric car without a driveway...
This is a game changer in terms of giving the public easy access to ev charging from home.
Brilliant and simple!!

**Date of experience:** 14 February 2024

# Installation

Cutting the channel to the exact length requirement on site

1. **Installation takes 60 - 90 minutes** and is carried out by you or by Kerbo Charge.
2. We use a HAPAS approved fast set mortar and MMA-based crack repair/gap sealant
3. **We upskill your team and join for the first installs free of charge.**

# Certifications and safety testing

Tested by BSI in February 2023 to BS EN 1433:2002 (**C250**) - Drainage channels for vehicular and pedestrian areas.

Certificate available on request.

**Floor slip tested** in the UK to EN-16165 Annex C Method of Pendulum Operation.

Scored a PTV value of 112 in the dry and 55 in the wet, exceeding the minimum requirement of 36.

Designed in **London** and manufactured in **Derbyshire**.

Manufactured in a factory certified by BSI to 9001:2015.

# Purchase models

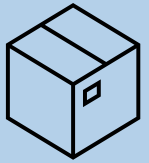
We offer two options – you choose which suits you best.

## 1. Kerbo Charge turn-key

e.g. Suffolk, West Berkshire, Bedford Borough Council

- Council owned and supplier operated.
- We onboard the residents, complete. survey and you sign off each install site.
- We take payment, organise license agreement, and install.
- You are paid a licensing fee.
- We take maintenance responsibility and residual accident liability[1].

## 2. Council maintained and operated



e.g. Northumberland, Enfield Council

- Council owned and operated.
- You buy the channels, we train up your install team.
- We provide the template license agreement
- You organise finding the residents, site survey, taking payment, installation & maintenance.
- You take residual liability[1] for accidents on the channel (unless there is a product failure).

1. The 'residual liability' is the liability for an accident involving the cross-pavement channel if it cannot be evidenced that the resident is liable (e.g. if they didn't insert their cable correctly into the channel).

# LET'S GET MOVING.

KERBO CHARGE®

Kerbo Charge Ltd.
Companies house number: 14147745
VAT registered number: 433 0117 47
Registered address: 167 Great Portland Street, London, W1W 5PF


Michael Goulden
Co-Founder

michael.goulden@kerbocharge.com
+44 7919 368685

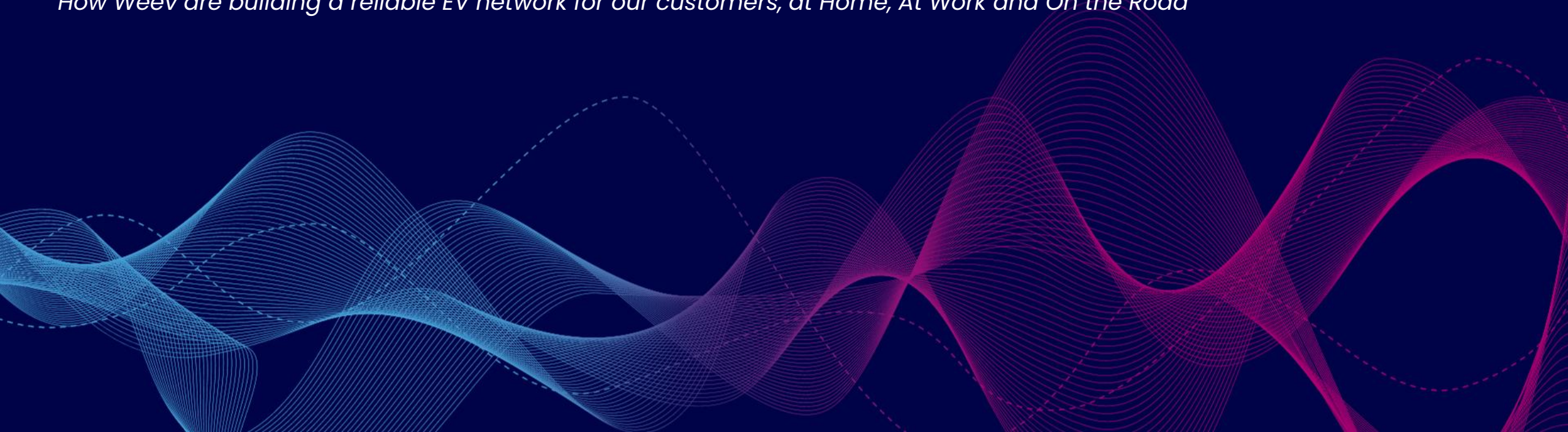
# A Focus On:
# Public Charging

## Thomas O'Hagan, Weev

Weev got the power

# An introduction to EV with Weev

*How Weev are building a reliable EV network for our customers, at Home, At Work and On the Road*



# Weev Vision

"Charging ahead to deliver Ireland's largest, fastest and most reliable EV network"

ELECTRIC VEHICLE AWARDS 2024

WINNER

Charge Point Operator of the Year


Weev Ultra Rapid installation
Belmore Court, Enniskillen

# A positive impact on our communities

Partnerships with **Road Safe Charity** with specific EV safety pages in their children's booklet which goes to **12,000** children.

**800** children educated on EV Safety with the first of its kind EV Road Safe workshop for schools.

From **2 in 2022 to 51** employees across Operations, Finance, Sales, Marketing and Legal. All employees have received **ESG training.**

**Power to PIPs / PIETA House** stickers placed on all chargers to enable users to access mental health support services. Over £3500 raised so far for the charity.

**Sustainability Project of the Year** by digital DNA Awards.

**21** bags of litter collected for National Volunteer Day.



# Our Network


## We are adding new locations each week

- ✓ Weev are working with **19/32** councils on the Island.
- ✓ In addition, **127** chargers will be added as part of the ORCS scheme in NI.
- ✓ Delivery of **28** chargers to 14 sites in the East Border Regions through FASTER.
- ✓ Limerick County Council **20** chargers across the county.
- ✓ Roscommon County Council, ZEVI pilot for **8** CPs.

# Customers we work with



































# Multisite Frameworks and Procurements

## National Trust

Awarded 5+ year contract to deliver EV charging infrastructure across National Trust Estate in Northern Ireland including:

✓ Visitor Centres
✓ Fleet Charging
✓ Holiday Cottages

The terms of the agreement include the following:
- Turnkey installation
- Weev to manage the infrastructure
- Operation & Maintenance Agreement and CPMS

National Trust

## National Hotel Chains

Approached by iNUA and McKeever to design and instal a mix of AC and DC chargepoints for variety of users including

- Destination
- En route
- staff and fleet

THE iNUA COLLECTION

McKEEVER HOTELS

## Faster Project, Limerick and Roscommon

Awarded contract with 9 Local Authorities in Ireland to deliver 30 DC chargers across 29 sites.

Access to funding for:
- LDV enroute grant schemes
- FASTER Project
- Roscommon CoCo
- Limerick CoCo

zevi
Zero Emission Vehicles Ireland

## OZEV workplace, residential, schools and ORCS funding

Awarded the contract to deliver 127 dual EV chargers (22kW) across 9 NI councils to benefit homes without off-street parking.

Supported multiple large organisations through OZEV grants for charging

Access to funding
- Orcs funding
- Workplace funding
- Schools funding

Office for Zero Emission Vehicles

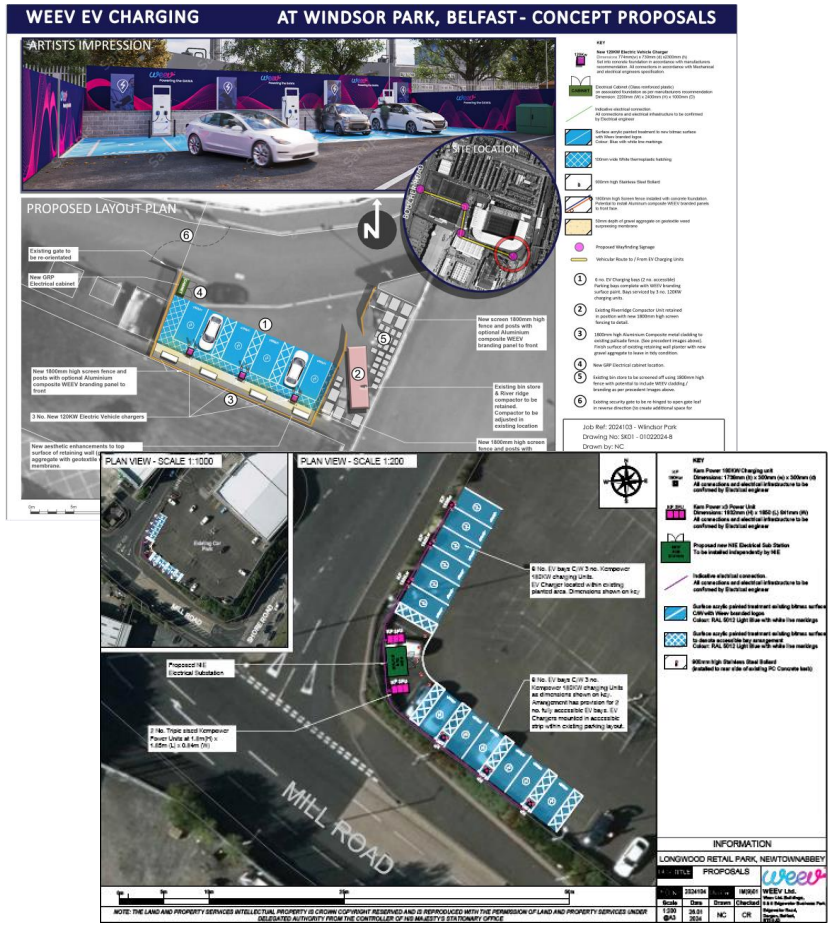
# Range of site types

Weev's highly experienced management team has extensive experience successfully delivering infrastructure across the island of Ireland

| | Small and Micro sites | Medium sites | Large and XL sites |
|---|---|---|---|
| Description | • AC and slower DC mix<br>• Generally longer dwell time locations<br>• Don't necessarily need grid reinforcement | • Predominantly ultra rapid DC chargers (120kW)<br>• Short stay and medium dwell times<br>• Likely to need grid reinforcements | • Exclusively ultra rapid DC chargers (120+ kW)<br>• Short stay charging<br>• Likely to need grid reinforcements |
| Landlords / site type | • Small car parks<br>• Landlord – McCools, Supervalu Kells | • Forecourts and en-route hotels<br>• Landlord – Damolly Retail Park | • Large forecourts and retail parks<br>• Landlord – Hydepark |
| Site example |  |  |  |

# Weev In-house Capabilities

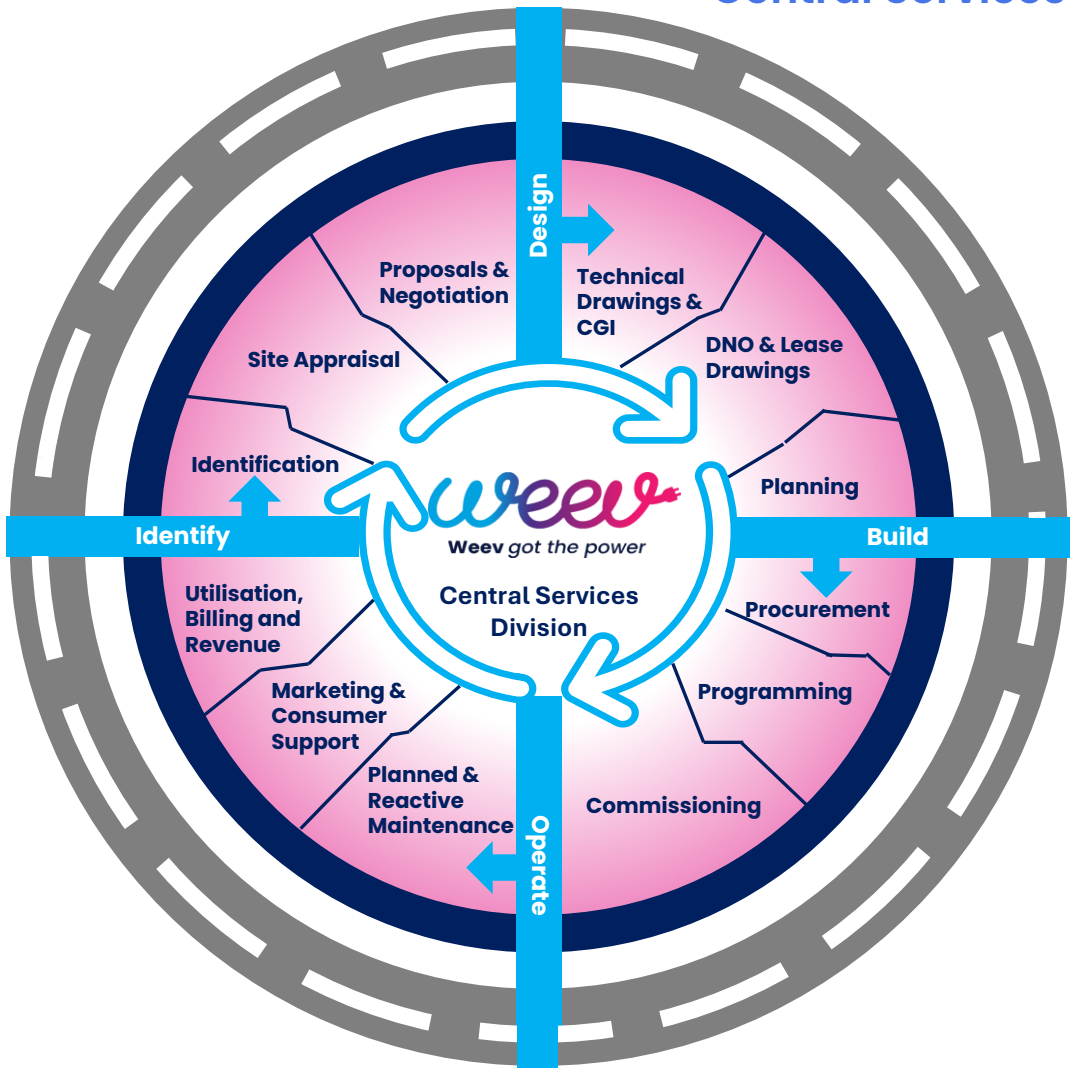
Weev's Central Services Division (CSD) provides the engine for growth across the Island of Ireland with an in-house team of vertically integrated experts.




**Repeatable**

**Predictable**

**Scalable**




**Outsourced services:** *Site Survey, Construction Works, Call Centre*

# In-house Design and Construction

With an in-house design architect and electrical engineers, we have a team of experts who will deliver the most suitable EV charging offering for our partner's location:

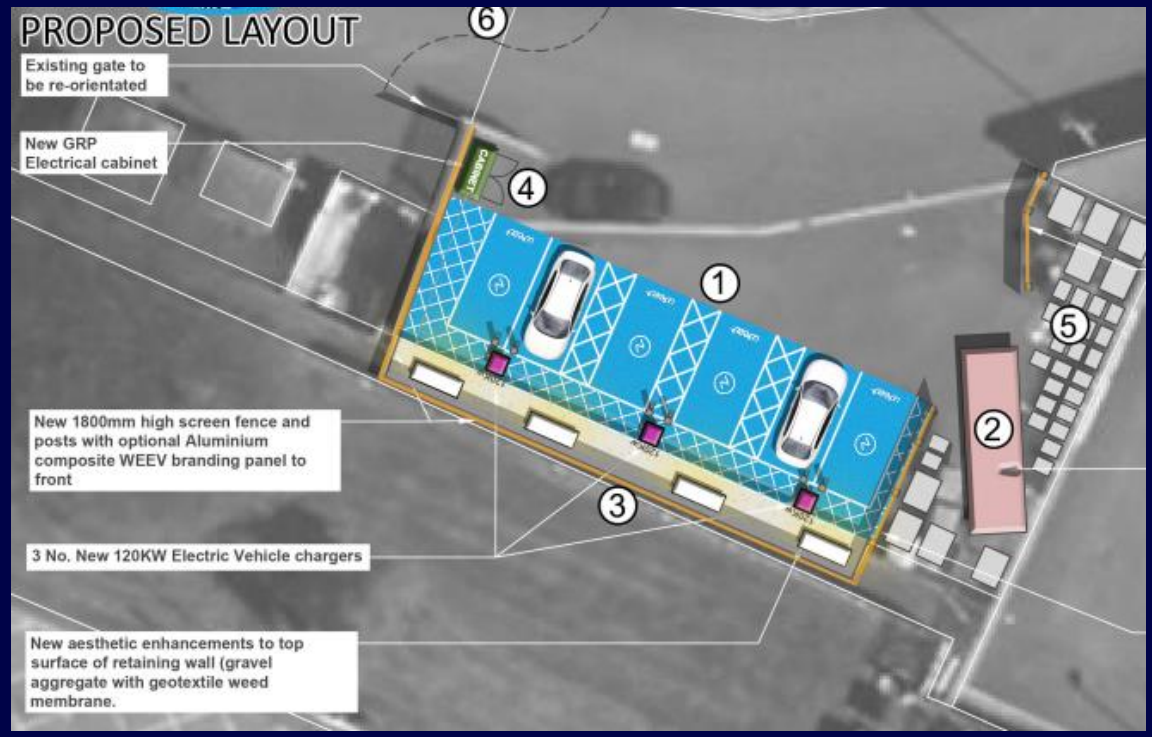
**Technical Design** – In-house technical and CAD design expertise

**DNO Connection** - In-house DNO and grid connection team

**Charger Selection** – Chargers chosen to suit project specifications

**Installation** – Trusted and accredited to support our in-house commissioning engineers

**Support** - There when you need us with 24/7/365 local support.

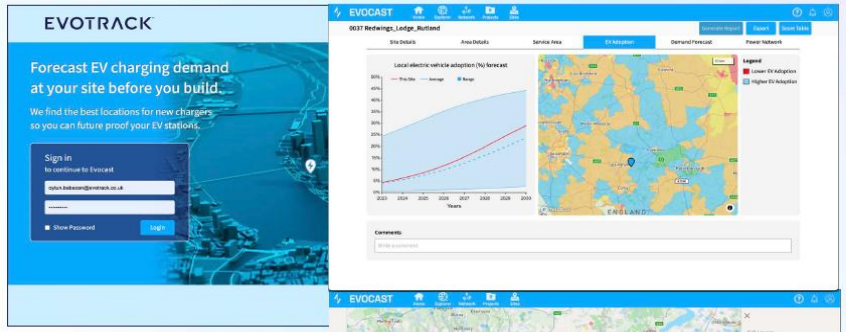



# Advanced Mapping and Location Intelligence

Weev utilises an AI driven site selection tool, to support increased scale whilst ensuring informed investment decisions

1. **Cost effective investment** decisions for new charging infrastructure
2. **Forecasting charging behaviour** in public EV charge points
3. **Scalable solution** with the ability to assess multiple locations from in depth desktop analysis

## How it works




### Cloud-based AI solution for EV investment planning

**Prospect sites only where it really matters.**

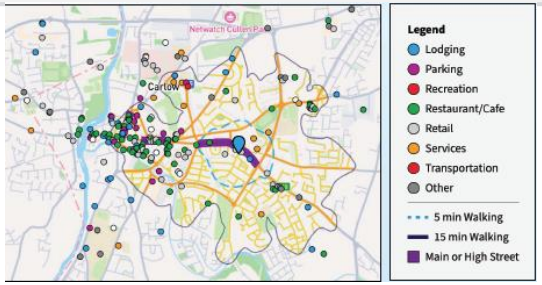
- **Simulate** hundreds of **investment scenarios** in a matter of hours.
- Receive **site specific demand forecasts** and other geospatial model outputs.
- **Investigate** evolving **competitive landscape** around a prospective or existing site.
- **Discover** real-world **site constraints** at early stages of a project offer

**Client base and sponsors include:**

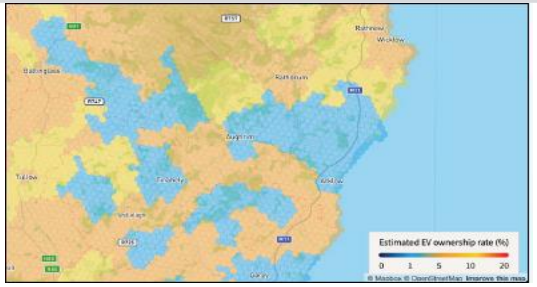
bp pulse · Imperial College London · UKRI Innovate UK · Shell Recharge · TRIG · Undaunted

**Example criteria for site evaluation**

1. Business types and amenities operating in the area




2. Multi-year EV ownership forecasts & Traffic Flow




3. Urban layout, building use & lack of driveways

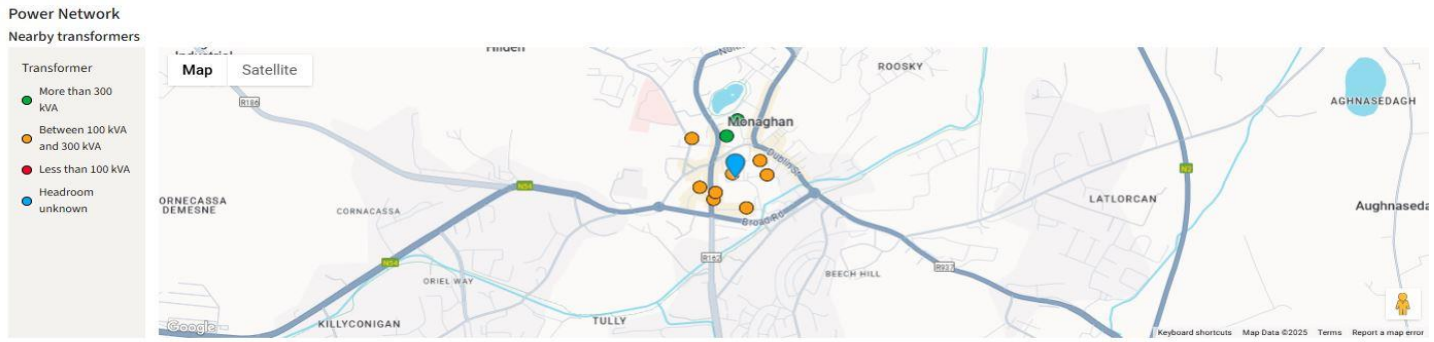
# Advanced Mapping and Location Intelligence

Weev has fully integrated AI into its site selection process, standardising and automating its site evaluation to support scalability

## Site Selection

1. **Drive distance** — Identify distance to motorway and road network
2. **Property** — Identify property data aligned to business model
3. **Grid** — Identify grid capacity and price connection works
4. **Competition** — Determine concentration of competing chargepoints
5. **Traffic** — Determine traffic volumes in local areas
6. **Amenities** — Identify local amenities within walking distance

**Monaghan Retail**




| Distance | Name | Voltage Class | Primary Voltage | Secondary Voltage(s) | Installed Capacity | Demand Firm Capacity | Demand Available | Parent Available |
|---|---|---|---|---|---|---|---|---|
| 33 metres | MV/LV Substation CO***424Z | LV | 10 kV | 400 V, 230 V | 200 kVA | 200 VA | 200 kVA | 0 MVA |
| 90 metres | MV/LV Substation CA***030Z | LV | 10 kV | 400 V, 230 V | 630 kVA | 630 VA | 270 kVA | 0 MVA |
| 118 metres | MV/LV Substation DU***030 | LV | 10 kV | 400 V, 230 V | 400 kVA | 400 VA | 180 kVA | 0 MVA |

# Uk Public Charge Point Regulations

## Pricing Transparency

Pence per kilowatt hour (p/kWh) displayed on charger screen, app and website

## Contactless Payment

Payment terminals on 8kW+ chargers facilitating charging session payment without needing memberships or contracts

## Reliability Reporting

Network uptime reporting in excess of 99% annually

## Customer Helpline

24/7/365 **local** support number displayed

- On charger
- In app
- On website

## Roaming

Drivers can connect via multiple roaming providers, giving greater flexibility and access to a larger network of charge points.

## Open Data

Recording and reporting both reference and availability data for each charge point within the network

Weev got the power

# Fleet Solutions

# Review Vehicle Behaviour

**Dwell Time** – how long is your vehicle parked between journeys?

- ✓ eg during meetings
- ✓ eg whilst cutting grass at sports/recreational centre
- ✓ eg building maintenance and repairs

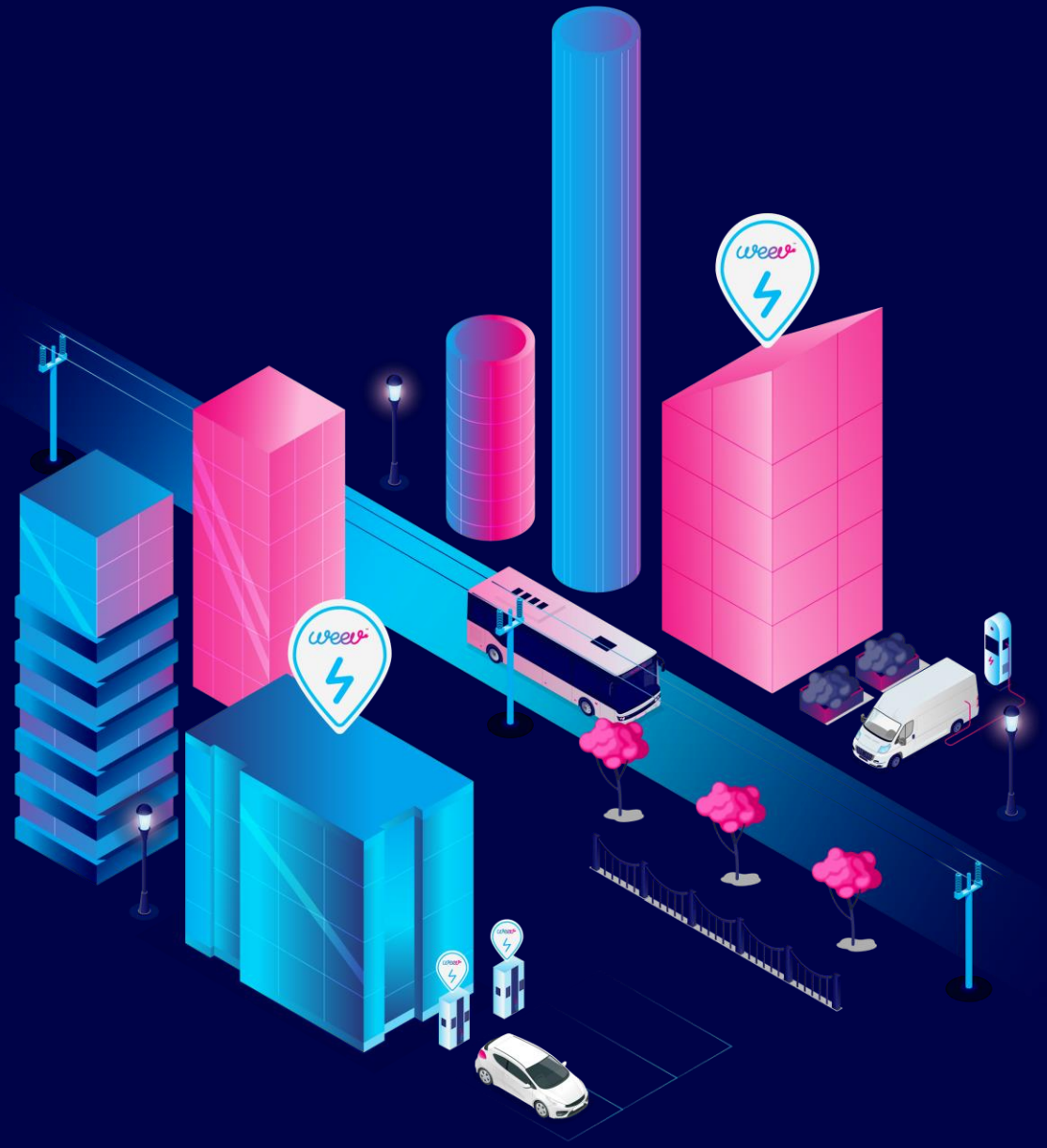
**Vehicles parked up for even an hour can be charging**

**During Working Day** – where are your vehicles during working hours?

- ✓ eg on the road
- ✓ eg at head office
- ✓ eg inter depot journeys

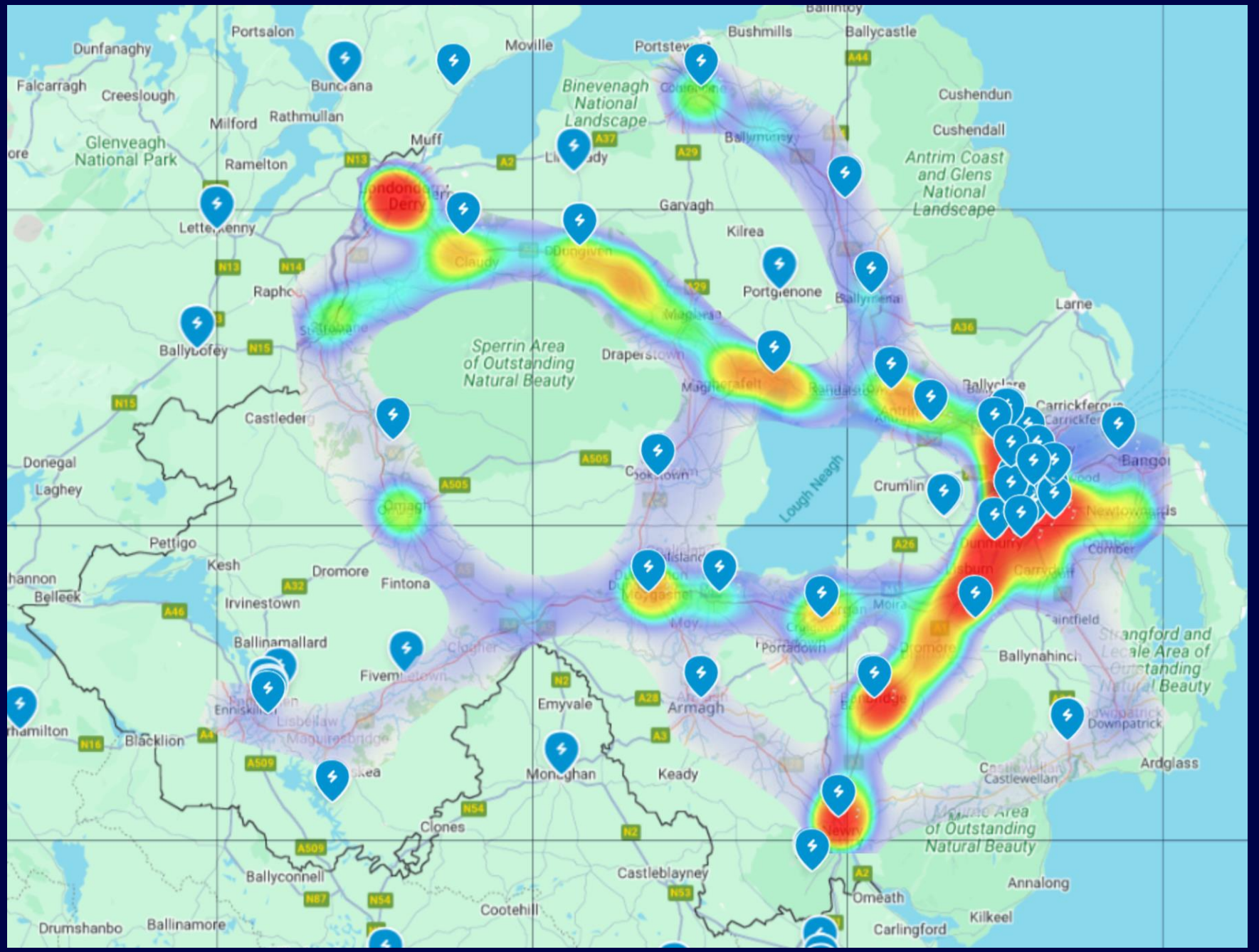
**Overnight** – where do vehicles stay overnight?

- ✓ eg head office
- ✓ eg depot
- ✓ eg at home



# Example

| Device | Alpha 3 |
|---|---|
| Total Distance | 4595 |
| Total Idling Duration | 2:12:47 |
| Total Driving Duration | 142:50:38 |
| No. of Trips | 330 |
| Max Trip Distance | 85.1 |
| Max Daily Distance | 191.8 |
| Min Distance | 0.0 |
| Min Daily Distance | 2.8 |
| Average Trip Distance | 13.9 |
| Average Daily Distance | 77.9 |
| Average of Stop Duration | 6:02:08 |



# Internal EV Charging Network

We will look at all locations and create a proposal for workplace charging solutions required based on capacity and grants available.

## Domestic

## Small Depot

Van fleet parked overnight on AC charging

## Large Depot


Van fleet parked overnight on AC charging, with Rapid charger for top ups during the working day

## Remote Recreation Centre

Van fleet parked whilst carrying out duties

## Small depot, central location


Strategically placed rapid charger for daily top ups

## Public charging

weev™

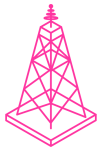
Public charging as a backup

# Designing the charging infrastructure

*Reviewing the power capacity from all customer locations EV's will be parked .*

**MIC (Maximum Import Capacity)**

This is the maximum power availability currently available from NIE / ESB. Each building / MPRN will have to be checked individually.



**Grid Equipment**

Although the MIC may be stipulated by NIE / ESB , the actual building infrastructure from the grid may already be capable of more output.

**Logger Data - time of day planning**

Building load or demand, mapped out over a week showing daily demand patterns to give a true reflection of power usage.

**Available Capacity**

Based on power available and logged demand data this will provide a power availability view of available charging capacity and times of day.

**Smart Charging**

Integrating smart charging technologies to optimise charging capacity availability with building demand, on site generation and BMS systems, could extend existing power and negate need for extra grid expense.

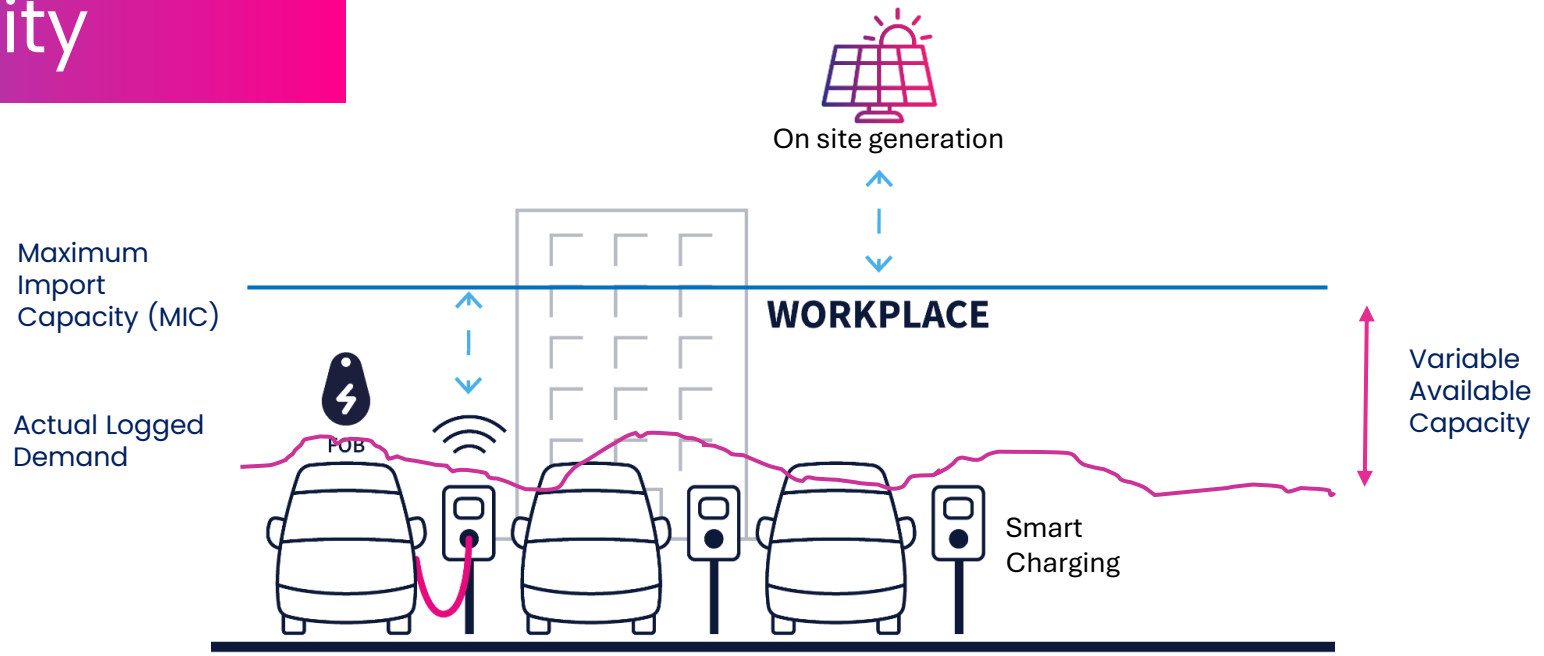
# Ensuring Power Availability

## Managing Existing Capacity

Once aligned with short term EV transition plans, buildings may have sufficient capacity to allow for charging based on

- ✓ Time of day availability
- ✓ Logged data
- ✓ Integration of Smart charging technologies

Planned future grid upgrades will be required in a lot of cases to meet longer term demand.

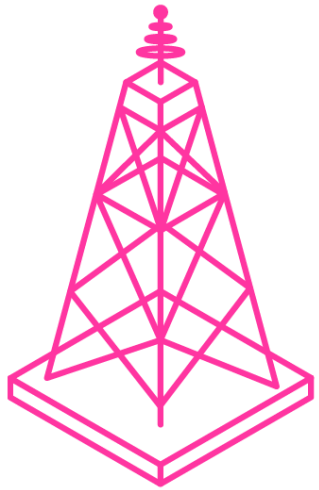



## New / Upgraded Grid Connection

Mapping out the likely EV transition many years in advance is key to ensuring the required grid works can be completed on time for vehicle deliveries.

Larger grid connections can take up to **2 years** to get in place.

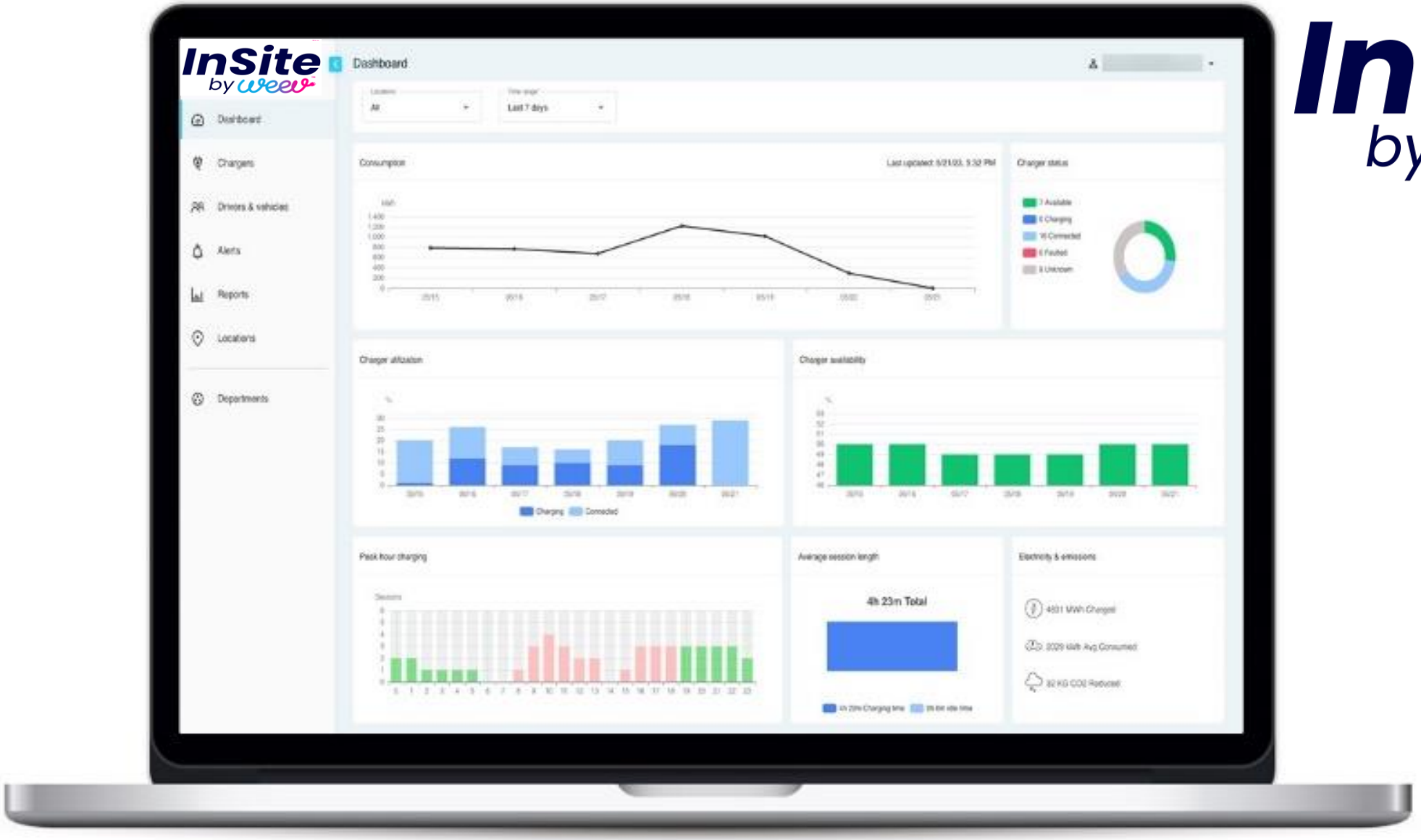
Northern Ireland Electricity Networks



## New Connection Process

1. Assess required kVA for future EV needs
2. Apply to NIE including selected EV charging hardware (for harmonic studies for DC charging)
3. Supply detailed design drawings for connection and substation positioning
4. NIE review application and supply quote (usually 90 days+ for a larger supply)
5. Accept quote, move through construction and legal processes with NIE to completion.

# Charge Point Management System (CPMS)




InSite by weev™

# Workplace Managed Service

## Belfast Harbour

Weev installed six 22kW Ratio Io7 chargers for employees and visitors at the Grade I listed Belfast landmark building with a second phase depot installation in planning.

**Installation and works:**

- ✓ 2 x Dual 22kW AC Chargers
- ✓ Civils Works
- ✓ Electrical Works including DLM
- ✓ Commissioning

**Services:**

- ✓ Operations & Maintenance
- ✓ Back-office subscription
- ✓ Revenue collection (10% network fee)

## Kilwaughter


EV charging infrastructure installed for  growing EV fleet at Larne HQ. Weev installed three 22kW Ratio Io7 chargers for employees and visitors with a second phase of work earmarked for Q3 2025.

**Installation and works:**

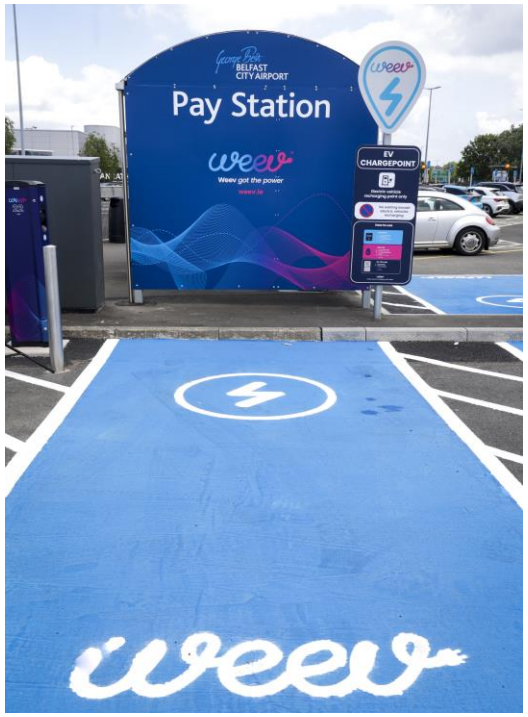
- ✓ 2 x Dual 22kW AC Chargers
- ✓ Civils Works
- ✓ Electrical Works
- ✓ Commissioning

**Services:**

- ✓ Operations & Maintenance
- ✓ Back-office subscription
- ✓ Revenue collection (10% network fee)

# Belfast City Airport

George Best BELFAST CITY AIRPORT





# Antrim & Newtownabbey Borough Council UK PCPR

Antrim and Newtownabbey BOROUGH COUNCIL




# Alternative Heat

Weev got the power

# **Weev** *got the power*