



D2N2 Shared Public Sector Charging Network

Park & Recharge role

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D2N2 Shared Public Sector Charging Network – Introduction

The Department for Transport awarded Nottingham City Council a grant as part of the Future Transport Zones (FTZ) funding to develop and operate an electric vehicle (EV) charging network across the Derbyshire and Nottinghamshire (D2N2) region.

The aim of the project is to provide public sector organisations with EV charge point infrastructure to support the uptake of EVs as part of their fleet and enable them to fulfil their operational responsibilities; addressing logistical and technical issues associated with EV charging for fleet users, home starters and employees frequently on the move.

The exciting opportunity will create a network of public sector organisations (members) who agree to share EV charge points, delivering collective efficiencies in EV operation and overcoming barriers to charge point deployment.

Park&Recharge – Introduction

(Hubeleon)

Park&Recharge is a combination of software platform tools and services we use to support the management of EV charging points. These combine to provide businesses with EV charging scheme management for fleet, workplaces or destination/public charging. Our services deal with access management to the charge points, utilisation management, remote monitoring and ensuring the uptime and reliable operation of charging points.

The Park & Recharge team are based in Chelmsford, UK where our operations team looks after driver and clients. Our operations teams are split into:

- Driver support
- Installation Commissioning/Onboarding
- Client support

Our **Hubeleon** charge point management system (CPMS) and driver eMobility App are all in house developments which we either brand as Park & Recharge or white label for client projects.

If you require further information or support please contact our operations team who will direct your enquiry accordingly.

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Park & Recharge's role in D2N2-SPSCN

On the D2N2-SPSCN project Park & Recharge provide the charge point operations (CPO) services. All the charge points installed on the project will be connected to our Hubeleon CPMS via OCPP (version according to the hardware capabilities – OCPP15S, OCPP16J, OCPP20J).

Our role encompasses:

- 1: Monitor all the charge points and ensure their operational availability for fleet use
- 2: Support the fleet driver via phone, email & ticket desk
- 3: Report faults and hardware issues to depot/site maintenance teams
- 4: Support installers with the commissioning process – setting up a charge point onto the Hubeleon system via sim card or existing networking where available.
- 5: Reporting utilisation information and 'roaming' shared use by guest fleet and vice versa for each council/organisation/division using the network.
- 6: Ensuring smart charging regulations are met for the project.

Commissioning Support

Park & Recharge will support the commission of charge points onto the project through:

- 1: Provision of GSM sim cards for installation in charge points for back-office connectivity.
- 2: Provision of back-office configuration settings to connect a charge point to our appropriate OCPP server according to its capability (OCPP15S, OCPP16J, OCPP20J)
- 3: Provision of decals & stickers for charge points with D2N2-SPSCN instructions, driver support information and a unique ID for the charge point.
- 4: Commissioning support during the final installation, checking a charge point is online and fully functioning at the final stage of it's installation.

All these services are free of charge to the installer of the charge points for the project as they have been paid for by the central D2N2-SPSCN project

We also offer a range of other services that can aid installation including:

- 1: Pre-commissioning at our development offices** – have your new charge points shipped to us from your supplier and we will configure them, fit sims and decals/stickers and then ship to site so that on installation the charge point is online out of the box. This pre-commissioning can reduce installation time on site by between 1 – 2 hours.
- 2: Communication equipment** – we offer a range of communication modules and equipment to secure/encrypt charge point to back-office communication. These kits can allow many charge points on a site to interface through a LAN (fixed wire) network or a WiFi bridge. The purpose of our modules is charge point network multiplexing for economy but more importantly cyber security.
- 3: Site support** – we offer on-site networking and commissioning support where communication complexity or challenges are faced.

These are paid for services offered to installers to support their installation and delivery of the working, communicating charge points to the sites/clients.

Operational Support

Hubeleon CPMS

The Hubeleon CPMS allows client to visualise their EV charging infrastructure and control who have access. The CPMS provides an aggregated view of all the charge points and the ability to view specific devices status, usage and history. Control of charge points is provided with a range of commands to remotely change the availability, remotely start and stop charging cycles, release cables and various other commands valuable in the support of user operation.

Park&Recharge Billing

The D2N2-SPSCN project is not using financial payment facilities to access charge points however Park & Recharge delivers to the network financial reconciliation reporting shared between partners on the network to inter-pay one another money due for using one another's charge points.

RFID Card Distribution

The Park&Recharge operations team will supply RFID cards and fobs for the fleet drivers both as bundles to fleet managers and individual RFID card/fob distribution on a next day service. We provide cards/fobs in bulk preloaded into the CPMS and ready for client distribution.

Chargepoint Installation Support

The Park&Recharge team will offer various support options for the installation and operation of charge points. Parking signage can be provided for site specific user instructions and site contact details for support. Decals/Stickers for charge points will be available in various sizes provided during installation and should replacement be required.

Our team also provide communication system design and load management consultancy where required.

Service Support

Park&Recharge provide call centre support for the D2N2-SPSCN project. We operate the first-line support for users.

Charging points

As a manufacturer agnostic system, we offer flexibility on the charge points which can be used on the system. We currently recommend interfacing charge points via OCPP 1.6 using the websocket/JSON protocol.

Network & IT security is paramount today and an often overlooked area of modern communication asset installation. We can offer secure M2M SIMs that do not connect to the internet (so charge points are inaccessible to public internet hacking attempts), VPN interfacing for secure tunnel encrypted communication or WSS (secure websocket over TLS encryption).

Monitoring and reporting

The Hubeleon CPMS has a reporting engine designed to support the scheme operation. Reports will be generated automatically and distributed by email or collected from the web portal/GUI. Reports will be provided in PDF & CSV/XLS.